

A Note from the Executive Director

PAUL W. MEYER, The F. Otto Haas Executive Director

Maple Symposium

n October 23rd the fifth International Maple Symposium will convene at the Morris Arboretum. Our curator, Tony Aiello, who is coordinating the symposium, expects participants from around the world, including garden curators, commercial nursery leaders, hybridizers and other maple enthusiasts. The symposium program will consist of lectures at the Morris Arboretum, and tours of notable gardens and maple collections throughout the region. Featured tours will include Scott Arboretum, the Morris Arboretum, and Chanticleer, as well as several outstanding private gardens. This will be a wonderful opportunity to showcase not only the Morris Arboretum, but the greater Philadelphia region as America's garden capital.

The Arboretum will have much to share when this group of maple experts and enthusiasts gather this autumn. Within our collections we have 366 individual maple plants representing 115 different kinds of maples. These individuals represent 233 maple

Photo: Nick Kelsh

accessions, of which 85 are scientifically documented, wild collections. In 2010 the Morris Arboretum was cited as having the 14th most important maple collection worldwide in the "Global Survey of Ex situ Maple Collections" by Botanic Gardens Conservation International and since that time, our holdings have grown.



Photo: Paul Meyer

Economically, maples are valued for their timber, as urban street trees, as a source of sweet sap for maple syrup, and for their landscape value—particularly their dramatic fall color. Recently, Botanic Gardens Conservation International reported that nearly a third of all maple species are under threat of extinction in their native habitats due to a variety of man-made and ecological factors. Of the 191 maple species assessed, 54 are considered at risk today, and a further 29 species are likely to become threatened in the near future. Within the Arboretum's collections, we have eight species represented that are at risk. Curating collections such as ours is an important strategy for maple conservation worldwide.

To that end, the Morris Arboretum is a partner with the American Public Garden Association in the multi-institutional *Acer* (maple) collection. In

this initiative, 11 gardens across North America collaborate in managing their maple collections. Collectively these gardens manage 2,545 accessions representing 145 botanical taxa and naturally occurring hybrids. More information on this work can be found at http://www.publicgardens.org/content/multi-institutional-acer-maple-collection.

We are honored to be hosting this International Maple Symposium. It is an opportunity to showcase Philadelphia as a world class garden destination, as well as to demonstrate how far the Morris Arboretum has progressed in recent decades, not only in the presentation of the gardens, but also in building our significant plant collections, especially our maples.

Paul

SEASONS

Morris Arboretum of the University of Pennsylvania

Published quarterly as a benefit of membership. Inquiries concerning back issues, missing issues, or subscriptions should be addressed to the editor.

Available on microfilm. USPS: 349-830. ISSN: 0893-0546 POSTMASTER: Send form 3759 to Newsletter, 100 East Northwestern Avenue, Philadelphia, PA 19118.

Christine Pape, Editor

The Morris Arboretum of the University of Pennsylvania is an educational institution that promotes an understanding of the important relationships between plants, people and place. The Arboretum conducts three major activities – horticultural display, public and professional education, and botanical and horticultural research.

Public Garden Hours: Mon-Fri, 10am-4pm Sat/Sun, 10am-5pm (April - Oct.) Sat/Sun, 10am-4pm (Nov. - March) Weds., 10am-8pm (June, July, August)

Information: (215) 247-5777 www.morrisarboretum.org http://www.upenn.edu/paflora

Guided Tours: Every Sat/Sun, 2pm

Visitor Entrance:

100 East Northwestern Avenue between Germantown and Stenton Avenues in the Chestnut Hill section of Philadelphia

These articles may not be reproduced in any form without the permission of the editor.

©2014 Copyright by the Trustees of the University of Pennsylvania. 8000 / 8.15.2014 / PM

Arboretum Rentals

Hold your special event in one of Philadelphia's most beautiful settings. The Widener Center and surrounding grounds are available for weddings, parties, and private and corporate meetings up to 170 guests. For details contact Adele Waerig, Visitor Services Coordinator, at (215) 247-5777, ext. 158.

e-newsletter

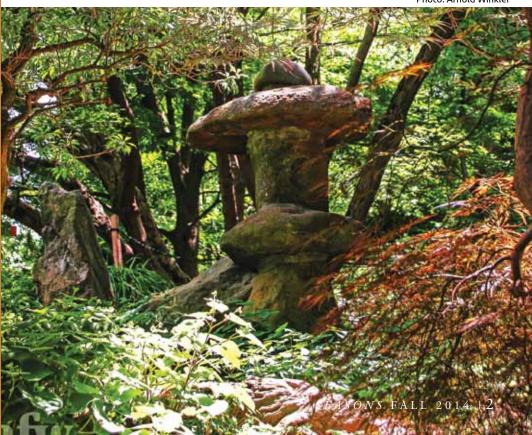
Would you like to receive our monthly e-newsletter and other Arboretum updates via email? It's a great way for you to stay up-to-date on upcoming events, register online and help us save trees! Email members@morrisarboretum.org to be added. To address the problems of SPAM, many Internet Service Providers (ISPs) and email systems now block or filter email that is not from a "safe sender." Please add info@morrisarboretum.org and members@morrisarboretum.org to your list of accepted senders or friends list if you wish to receive this information.

Cover Photo: Paul Meyer

Contents

- 3 Maples of Pennsylvania
- 5 Morris Arboretum welcomes new staff
- **6** Saying Farewell
- 7 Tools of the Trade: Horticultural Helpers
- 8 The Hiram H. Munger Hill & Cloud Garden Endowment
- 9 Moonlight & Roses 2014
- 9 New Interns
- 10 Executive Director Paul Meyer Wins National Award
- 10 Morris Arboretum Welcomes Back Patrick Dougherty in 2015
- 11 The Mosses at Morris
- 12 The Gift of Membership Gives All Year Long
- 12 The Shop
- 13 Fall Events
- 15 Connections Beyond Our Garden
- **15** Summer Adventure Camp
- 16 Growing Minds Classes for Kids
- 17 Fall is for Learning
- 18 Morris Arboretum Endowed Lecture Series
- 18 Landscape Design Symposium







Acer rubrum – red maple

Photos: Paul Meyer

Maples of Pennsylvania

ANTHONY AIELLO, The Gayle E. Maloney Director of Horticulture and Curator

ach fall I look forward to the succession of colors that maples (*Acer*) bring. This large group of plants is adapted to a wide range of conditions and can be found growing throughout the Northern hemisphere. Maples have been long valued by horticulturists as superior garden plants, and they are suitable for a variety of landscapes. Several maple species are native to Pennsylvania, some of which are highly desirable as ornamental trees, while others are best suited for natural areas. As you explore the Arboretum or natural areas throughout the state, look for these native species of maple:

Acer saccharum – sugar maple

Perhaps the best known native species is sugar maple, famous as the source of maple syrup, excellent lumber, and its array of spectacular autumn fall color. Sugar maples are native throughout the state as a component of the northern deciduous forest. They are best used as lawn or park trees, and grow upwards of 90 feet, making them excellent shade trees when given adequate space. There are a number of varieties selected for their excellent fall color and these include BONFIRE and GREEN MOUNTAIN ('PNI 0285').

At the Arboretum, there are sugar maples growing on the Holly Slope, along Meadowbrook Avenue, and throughout the natural areas.

Acer rubrum – red maple

Also known for its outstanding fall color, red maple is the most common tree in Pennsylvania, growing in a variety of habitats. Red maples grow best in slightly acidic soils and can be chlorotic when grown in more urban or stressful situations. As their names suggests, red maples are best known for their scarlet fall color, and the number of varieties selected for their fall color are too numerous to list. Here at the Arboretum, I am especially fond of several old trees that grow along the East Brook near the Log Cabin. In recent years, we have planted the varieties RED SUNSET ('Franksred') and OCTOBER GLORY (PNI-0268') near the wetland and along Paper Mill Run.

Acer saccharinum – silver maple

Closely related to red maple, silver maple is the largest of our native maples, growing up to 100 feet. It can be found throughout Pennsylvania along streams and rivers. Although silver maples are regularly planted as shade trees because of their rapid growth, they are not well-suited to this function; due to their fast growth and irregular branching, they tend to be weak-wooded and subject to branch breakage. Although I would not recommend planting silver maples close to your home, they are wonderful plants when found growing naturally, and the silver undersides of their leaves together with their shaggy bark are especially attractive. Look for a beautiful specimen next to the bridge as you enter the Arboretum.

Acer × freemanii – Freeman maple

Although not strictly a Pennsylvanian native, I should mention this hybrid of silver and red maple. There are several varieties that have been selected for having the best attributes of both parents – the fall color of red maple together with the adaptability of silver maple. Among the best known of these selections are AUTUMN BLAZE ('Jeffersred') and AUTUMN FANTASY ('DTR 102'), both of which make large, handsome shade or street trees with good orange to red fall color.

Acer pensylvanicum – moosewood

Maple enthusiasts will wax poetic and argue endlessly about a group of maples called the 'snakebarks' for their smooth green bark that is accented with white markings. All of the snakebark maples are from Asia, except for moosewood, which grows throughout eastern North America, and occurs commonly throughout central and northern Pennsylvania. A small tree that grows upwards of 30 feet, moosewood does not grow particularly well in our part of the state. For best results in our area, trees should be grown in a favorable site, with moist, well-drained, and slightly acidic soil.

Acer spicatum – mountain maple

Mountain maple is a small, multi-stemmed understory tree that is found mostly in northern Pennsylvania, but also at higher elevations elsewhere in the state. It has pleasing yellow to orange to red fall color, but natural populations have been heavily impacted by deer browsing. It is rarely, if ever, available commercially, but is well worth preserving and encouraging where it occurs naturally.

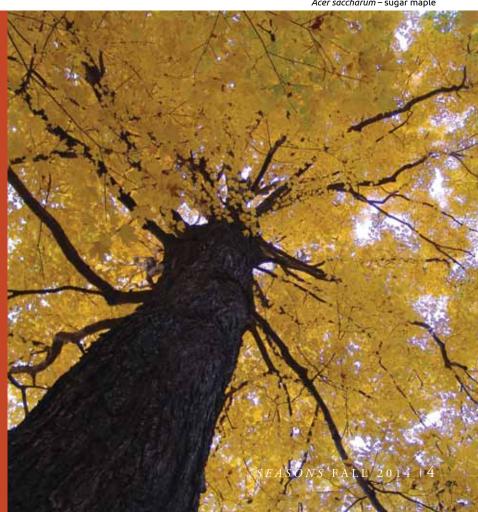
As everyone knows, one of the grandest spectacles in fall is watching the colors change on our native maples, and a drive throughout Pennsylvania or New England provides one of the most magnificent displays that nature has to offer. This fall, come to the Arboretum and enjoy what our native maples have to offer.

For more information on Pennsylvanian native maples, along with many others, an excellent resource is Trees of Pennsylvania, by the Arboretum's Ann Rhoads and Timothy Block.

Acer saccharum – sugar maple

The 5th International Maple Symposium

On October 23-24, 2014 the Arboretum will host the International Maple Symposium. This symposium will include speakers and attendees from across North America and Europe. The symposium occurs every three years and rotates among North America, Europe, and Asia. It is an excellent opportunity to showcase our highly regarded maple collection, and to introduce a number of new visitors to the Arboretum. Along with a lineup of internationally recognized maple experts, the symposium will feature garden tours to both public and private gardens. Registration details can be found at http://www.businessservices.upenn.edu/arboretum/ed_ conferences_maple.shtml.



Morris Arboretum welcomes new staff

Mira Zergani



Photo: Paul Meyer

In June, the Arboretum welcomed Mira Zergani as Director of Development. Mira most recently served as Assistant Vice President for Development at the University of the Arts. She has also served as Director of the Office of Grants and Contracts at the American College of Physicians, as Director of Grants and Contracts at the Philadelphia Zoo, and as Director, Institutional Grants and Contracts at the Franklin Institute. She brings a strong background in science and arts

and culture, along with a deep knowledge of the Philadelphia philanthropic community. For the past 10 years, Mira has served as a senior lecturer in the Museum Studies department at the University of the Arts, leading a graduate level course in grantsmanship, and has also co-taught a course in legal issues and governance. Mira holds her bachelor's degree in Hebrew studies from Temple University.

Karen Owens



Photo: Susan Crane

Karen Owens has been working for the Arboretum for more than five years as a part-time financial analyst. In July, she assumed the role of Financial Manager. Prior to the coming to the Arboretum, Karen spent nine years in insurance accounting. Karen's experience has proven beneficial to the organization as the Arboretum continues to make improvements and gain efficiencies in the finance office. Prior to coming to the Arboretum, Karen performed budget and cost analysis for General Accident Insurance,

and held various accounting and supervisory positions at AAA Mid-Atlantic Insurance Co. Karen is a graduate of LaSalle University with a degree in finance.

Christopher Dorman

Christopher Dorman came to the Arboretum from the Annenberg Center for Performing Arts where he served as Patron Services Manager. In July, he joined the Arboretum as Assistant Director for Visitor Services and Hospitality. His prior experiences range from youth camp counselor to organic farmer, to video production instructor, to tour supervisor for Historic Philadelphia, and various management roles in other arts and culture venues from Ohio to Connecticut.



Photo: Paul Meyer

Christopher earned his master of public administration from NYU, and two bachelor's degrees from Ohio State University, in psychology and film studies.

Cynthia Skema

Dr. Cindy Skema was recently promoted from postdoctoral research scientist to the permanent position of botanical scientist in the botany department at the Morris Arboretum. Cindy began her biological studies with a B.A. from Bryn Mawr College, and then pursued her love of plants by completing an M.Sc. in biodiversity and taxonomy of plants through a joint program of the University of Edinburgh and Royal



Photo: Tim Block

Botanic Garden Edinburgh, Scotland. After returning to the U.S., Cindy earned a Ph.D. in plant biology from Cornell University. Her dissertation examined the taxonomy of and evolutionary relationships within the plant genus *Dombeya*, a beautiful and very diverse group of plants in the cotton family, with a particular focus on those species which occur only in Madagascar. Most recently, Cindy completed a postdoctoral fellowship in New Zealand, studying the evolution of separate sexes in ribbonwood (*Plagianthus*), a New Zealand endemic.

Saying Farewell

Adele Waerig, Assistant Director of Visitor Services, wore many hats during her time at the Arboretum. In 1985, Adele became a receptionist in Gates Hall, before the Widener building was converted to the Visitor Center. In 1991, she moved to Widener and helped open the Shop, which started by selling Morris Arboretum pencils and postcards. That same year, she approached newly appointed director Paul Meyer about starting a rental program. Under Adele's guidance, the program that began with four weddings that first year has grown to 50 weddings and more than 75 meeting rentals each year. Adele says her favorite part about working at the Arboretum was meeting brides-to-be. "I wanted to make sure that each one of them had a perfect wedding day!"

Fiscal Coordinator **Kathy Robinson**, retired in June after 28 years at the Morris Arboretum. Kathy's career began at the Arboretum in 1986, where she was a temporary employee in the business office. After a few years, she came on full time. Kathy's office was the first stop for every new staff member, and throughout the years she interacted with hundreds of employees. Her intelligent humor and sharp wit helped put new staff members at ease. Always professional but genuinely interested, Kathy took pride in getting to know every employee, and went to great lengths to make sure that every staff member was paid on time. Kathy said she can't imagine a more beautiful place to have worked, and will miss her daily drive up the hill where she loved watching the change of seasons each year.





Photo: Susan Crane



Catch the Fall before it leaves at these special events!

Scarecrow Walk October 4-19th

More than 30 Scarecrows on display along the Oak Allee. Come and vote for your favorite scarecrow, "Hero or Villian."

Fall Festival

Saturday, October 4 and Sunday, October 5 from 10am-3pm

A weekend full of fun, fall family activities!

See page 13 for more information on both events.



Photos: Louise Clarke

Tools of the Trade: Horticultural Helpers

LOUISE CLARKE, Bloomfield Farm Section Leader

ave you ever wondered which tools Arboretum staff find most useful in maintaining the gardens? Our horticulturists have a collection of favorite implements that they employ on a daily basis. We've conducted an informal survey, and the following utensils were mentioned most often.

Several of our staff, including Executive Director Paul Meyer, cited the Lesche Soil Knife as an indispensable hand tool. This lightweight, hardened steel digger has a serrated edge that is useful for severing tenacious roots. It is the only digging/ planting tool used on the Arboretum's green roofs, as larger implements might damage the subsurface layers. The knife is easy to hold and can be used like a hoe to skim the soil surface, beheading small weeds. It can also be used for planting, and slicing through compacted earth. The offset handle has a guard which protects and keeps fingers from slipping. The pointed tip easily punctures sealed plastic bags of mulch, soil, or other garden amendments. This tool is made in the USA and designed to last a lifetime. It can be purchased in the Shop at the Arboretum.

The Rabbiting Spade, poacher's spade, or border spade is a slender tool with a rounded, concave blade especially useful for digging in confined areas such as perennial beds. Named for Englishmen who used it to dig out varmints or surreptitiously

remove desirable plants, this is the go-to tool most reached for in the Arboretum's rose garden. Garden staff can remove, divide, or move plants in congested areas without disturbing those adjacent. Its 10.5" long blade allows digging deeply enough to lift plants with most roots intact, can be used while standing or kneeling, and is also handy for planting springflowering bulbs. The English version, made by Clarington Forge, has a blade and socket made from a single piece of metal which is shaped over a sturdy ash shaft. Crowned by a D-shaped handle, the rabbiting spade is lightweight but substantial, making quick work of planting and transplanting.

A unique tool that is especially useful in the natural areas, the long handle of the Weed Wrench provides leverage to uproot unwanted trees and shrubs up to 3" in diameter. The all-steel woody plant extractor clutches stems between opposing ranks of serrated teeth. While gripping the handle, one pulls back while the teeth close, seizing the stem just above ground level, and roots are wrestled from the soil. This tool and other similar versions are available online from several manufacturers.

All of the gardeners' favorites described above can be found at specialty garden stores or through online retailers. Whichever you choose, each will provide you with years of durable, laborsaving service. Garden like the professionals!

The Hiram H. Munger Hill & Cloud Garden Endowment

LESLIE WEISSER, ASSOCIATE DIRECTOR, Corporate, Foundation and Donor Relations

iram Munger is one of almost 75 horticulture volunteers that regularly give their time and skills to preserve and maintain the Morris Arboretum's 166-acre landscape. On any given Wednesday, visitors will find teams of volunteers weeding, mulching, and pruning throughout the garden. Most of the Arboretum's volunteers are local residents, coming from the neighborhoods surrounding Philadelphia. Hiram is unique among the volunteers as he travels more than an hour each way from his home in Allentown to labor in the gardens on a weekly basis.

Born in New York City, Hiram grew up as a city kid who knew nothing of plants until his family moved to a home in Connecticut. There, helping his parents plant vegetable and flower gardens, Hiram's lifelong interest in the outdoors and gardening took root.

Following college and time in the military, Hiram returned to NYC and began his career with Aetna Insurance Company. In his free time, he became an avid bicyclist, studied languages, and traveled extensively. As a way of coping with life in a high-rise apartment building, he also pursued his interest in plants by becoming a member and a student at the New York Botanical Garden.

Hiram first learned of the Morris Arboretum when he moved to Aetna's offices in Allentown, Pennsylvania. It was an article about the Morris Arboretum in a horticulture magazine that piqued Hiram's curiosity. Not long after, he took a day trip to the Arboretum and became a member on his first visit.

His deeper involvement began with the Morris Arboretum's annual plant sale, during which he volunteered. In 1998, Hiram retired, and was recruited to join the Arboretum's crew of horticulture volunteers. "My serious involvement with the Morris Arboretum all started with a pair of pruning shears," Hiram says with a laugh. The Arboretum has a tradition of giving new garden volunteers a gift of pruning shears. Hiram still has his shears and uses them regularly.

Hiram's commitment to the Morris Arboretum's Hill & Cloud garden began as a moment of serendipity. He had been thinking that having a specific location in the Arboretum

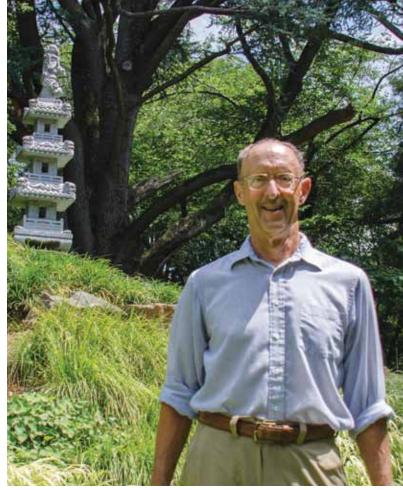


Photo: Paul Meyer

that could be managed by one person would be a satisfying project to undertake as a volunteer. During his next trip to the Arboretum, he asked Iana Turner, one of the Arboretum's horticulture section leaders, if there was any area in the garden that needed special attention. She mentioned the Hill & Cloud garden, one of the original Japanese-inspired garden elements built by founders John and Lydia Morris that had gone through a period of neglect. It was exactly the kind of project that he had envisioned.

Over the years, Hiram studied Japanese garden design and focused on the key garden elements – creating an oasis of simplicity and contemplation through the intentional placement of plants and trees among the rocks and a small stream of water. The garden has become a sacred space for many Arboretum visitors who, like Hiram, find respite in its serenity.

In 2014, Hiram decided to make a planned gift to support the Arboretum, and wanted to give a gift that would preserve the Hill & Cloud garden for the enjoyment of generations to come. The Morris Arboretum is delighted by Hiram's extraordinary, multi-year commitment to establish an endowment for this purpose. In gratitude for Hiram's generosity, the Arboretum has named the fund the Hiram H. Munger Hill & Cloud Garden Endowment.

Moonlight & Roses 2014

n Friday, June 6, more than 400 guests enjoyed a fabulous summer celebration at *Moonlight & Roses*, the Morris Arboretum's annual fundraising gala. Beautiful weather provided the perfect backdrop for cocktails in the rose garden and a glorious evening under the moonlit tent. Arboretum members and friends savored an elegant dinner and were entertained by the lively sounds of the Janis Nowlan Band. More than \$200,000 was raised from the event. These proceeds will ensure that the Arboretum's renowned gardens and historic features are preserved, and will strengthen the Arboretum's research, education and outreach.

the Arboretum's research, education and outreach programs. Longtime friend, Jessie Hill, was honored during the evening for her commitment and service to the Arboretum.



Photo: Mark Stehle

Jessie Deming and Bob Boyer served as co-chairs of the event, and worked diligently to produce a *Moonlight & Roses* gala that was a spectacular success.

New Interns

n June, the Arboretum welcomed a new class of interns for a yearlong program of handson learning. Working in various departments, they will gain valuable experience while learning the day-today operations of a world class institution. Their year culminates with the completion of a project, some of which have resulted in the renovation of garden areas, or new areas of focus in education or research. This year, the Arboretum welcomed interns from all over the US.



Photo: Paul Meyer

From left to right:

Claire Sundquist, The McLean Contributionship Endowed Education Intern
Jacob Golan, The John J. Willaman & Martha Haas Valentine Endowed Plant Protection Intern
Lauren Weeks, The Alice & J. Liddon Pennock, Jr. Endowed Horticulture Intern
Aaron Greenberg, The Walter W. Root Endowed Arborist Intern
Danielle Swanner, The Martha J. Wallace Endowed Plant Propagation Intern
Corey Bassett, The Martha S Miller Endowed Urban Forestry Intern
Anna Bower, The Hay Honey Farm Endowed Natural Lands Intern
Natasha Phillips, The Eli Kirk Price Endowed Flora of Pennsylvania Intern
Jennifer Lauer, The Charles S. Holman Endowed Rose and Flower Garden Intern

Executive Director Paul Meyer Wins National Award

In June, Paul W. Meyer, the F. Otto Haas Executive Director of the Morris Arboretum, received another prestigious honor, the Liberty Hyde Bailey Award from the American Horticultural Society (AHS). In presenting this award, AHS honors an individual who has made significant lifetime contributions to a least three of the following horticultural fields: teaching, research, communications, plant exploration, administration, art, business, and leadership.

Dr. Dick Lighty, former director of Mt. Cuba Center in Greenville, DE, stated, "There is little doubt that Liberty Hyde Bailey was the most important proponent of horticulture in America during the late 19th and early 20th centuries. It is more than fitting that this award goes to Paul Meyer for his



Photo: Herrera Campbell Photography

achievements in administration, communication, institution-building and plant introduction. The American Horticultural Society couldn't be prouder as we recognize Paul Meyer as the 2014 Liberty Hyde Bailey award winner and add him to the list of those we consider the finest and most influential horticulturists in America."





Morris Arboretum Welcomes Back Patrick Dougherty in 2015

Internationally acclaimed artist, Patrick Dougherty, will be an artist-in-residence at the Morris Arboretum for three weeks in March 2015. From March 2-20, he will work with volunteers and staff to design a unique, site-specific piece of art from twigs, saplings, branches, and sticks that will take shape as he designs it, inspired by the garden's surroundings. The piece will be constructed using materials that are woven together, without the use of nails or other supportive hardware. The name of each of Dougherty's sculptures is determined after its completion.

Dougherty's work runs the artistic gamut, ranging from tall, wispy towers, to playful abstracts. In all, he has created more than 175 pieces since 1985. In April of 2009 Dougherty created a 25-foot tall sculpture at the Morris Arboretum called *The Summer Palace*. This new creation at the Morris Arboretum is supported by the Madeleine K. Butcher Fine Arts Endowment.

To learn more about Patrick Dougherty and his creations, check out his website: www.stickwork.net.



Plaaiomnium sp.

The Mosses at Morris

JACOB GOLAN, The John J. Willaman & Martha Haas Valentine Endowed Plant Protection Intern

f you take a walk through Morris Arboretum, you are probably inclined to notice the flowerbeds, landscapes, and of course, the decades-old trees. But for any plant enthusiast, moss can be a group of plants as botanically and horticulturally exciting as their "taller" relatives. Moreover, from an environmental perspective, an appreciation for moss is increasingly relevant to our understanding of global climate change.

At present, moss species occur ubiquitously across all seven continents (including Antarctica), living under almost any conditions—from toxic soils to arctic steppes. Moss species lack true leaves and roots, they do not flower, and they produce spores rather than seeds, similar to ferns. Moss species are also highly dependent upon water for nutrient transport, which explains why many species can usually be found in especially moist locations.

Moss are critical to naturally occurring biochemical processes; they help control an ecosystem's moisture content, pH, and chemical composition, and often provide a microenvironment for various fungi, insects, and several other microbes. The

Leucobryum sp.



importance of moss even extends to issues

related to global climate. For example, peat moss (Sphagnum) bogs, account

for an estimated one third of the world's total carbon. Under normal environmental conditions, the acidity and low temperature characteristics of this habitat prevent the decomposition of dead plant matter, thus removing carbon from natural systems. However, climate change threatens to reintroduce this massive sink of world carbon into the environment, which would potentially exacerbate the rapid accumulation of atmospheric CO2. This makes moss an integral puzzle piece in ecological preservation.

However, even from a horticultural perspective, moss can be appreciated. Recently, moss gardening is gaining in popularity, from reinventing a traditional lawn to accenting a rock garden. Moss requires almost no soil, and over time, will actually generate its own. It even serves to control water levels, regulating overly moist plots. Ground peat moss can also function as an additive to soils, providing organic material, increased absorption, and anti-microbial benefits.

No matter how plants pique your interest, working with moss is an excellent way to expand upon any fascination in nature and gardening. In this light, moss relates to the broader questions in plant sciences, and helps to bridge a botanical, horticultural, and environmental outlook. At Morris Arboretum there is a diverse selection of local moss species to be found. Look for them along the main path, under trees or on rocks during your next visit.



Atrichum sp.

The Shop

very season, the Shop at Morris Arboretum dds exciting new items to its inventory. ✓ Recently, the Arboretum has partnered with local artists and businesses to showcase a variety of unique products made right here in the Delaware Valley. Visit the Shop and discover these beautiful, handcrafted items inspired by nature.

The Shop is carrying a great selection of items from Carousel Farm, a lavender farm located in Bucks County. Now more than eight years old and inspired by the owners' travels through Provence, the lavender fields at Carousel are nothing short of amazing. Each one of the 15,000 plants is cultivated, pruned and harvested by hand. At the Shop you'll discover candles, sachets, lotions, soaps, and more from this wonderful local resource.

Gregg and Jackie Moore are the owners of Heirloom Home and Studio in Glenside, PA. Their ceramic tableware is inspired by farmers' markets, homemade food, family and community. Their vessels beautifully and functionally display fruits and vegetables straight from your garden. Items available in the Shop include ceramic berry/cherry baskets, porcelain galvanized buckets, and more of their one of a kind creations.

Harrington Hill Creations is located in Bethlehem, Pennsylvania. Jon Harrington has worked in, with, and around beautiful wood all his life and uses it to create original, functional and decorative wood art. Jon is passionate about



trees. As each tree reflects a part of life, Jon feels that one way to honor trees is to create something beautiful from them. Each of his pieces tells a story. A collection of his unique, handmade bowls is available in the Shop.

Roberto Roque also combines his love of trees and nature to create fascinating works of art. An animal lover, Roberto grew up along the NJ Raritan Bay. Moving into the city and seeing birds perched on electrical wires and cement walls was the catalyst to do something he'd always wanted – to work with wood and create habitats for birds. His company, Pluma Avis Domus, makes delightful birdhouses from bits of various woods pieced together, including scrap, repurposed wood, and plywood from various sources including the nonprofits Habitat for Humanity, Resource Exchange, and of course from the street. Visit the Shop this holiday season. Not only will you be shopping locally, you'll be supporting the Morris Arboretum!

The Gift of Membership Gives All Year Long

This holiday season treat family and friends to a gift that benefits them for an entire year – a Morris Arboretum membership. Your gift recipients may participate in more than 25 free special events and programs offered throughout their full year of membership. They will also receive discounts on educational courses taught by Arboretum experts, and receive reciprocal admission privileges to more than 300 gardens nationwide. In addition, membership supports the mission of the Morris Arboretum, and a portion of membership dues are tax-deductible.

There are three easy ways to purchase the gift of membership:

VISIT – Stop by the Visitor Center to make your purchase.

ONLINE – Visit our website, www.morrisarboretum.org, to make your purchase anytime.

PHONE – Reach the membership office directly at (215) 247-5777, ext. 151 or ext. 155 Monday through Friday, 9am-5pm.

To ensure your gift membership materials are in hand by December 24, online and phone orders must be received by December 15.



Photo: Paul Meyer



Photo: Arnold Winkler

fall events

OCTOBER

4 Garden Discovery Series – Crows, Ravens and Jays, Oh My!

Saturday, October 4, 11am-3pm

Discover fascinating facts about the highly intelligent group of birds belonging to the corvid family. Learn all about these clever creatures, while creating your very own crow puppet to take home.

▲ Fall Festival

Saturday, October 4 & Sunday, October 5, 10am-3pm

Don't miss this weekend of autumn fun that has become an annual tradition for families. Make your own scarecrow, paint a pumpkin, sample different varieties of apples and more. Special guests from the Elmwood Park Zoo will be visiting from 12-3pm both days. Free with admission. Some activities have an additional fee.

▲ Scarecrow Walk

Saturday, October 4 through Sunday, October 19

The scarecrows return! More than 30 scarecrows will be on display for three weeks along Oak Allée. Come vote for your favorite in the "Heroes and Villains" theme to determine which 'crows will be the prize winners!

14 Storytime

Tuesday, October 14, 10:30-11am

Join us for a fun and engaging reading session among the trees. Storytime will be held outdoors (weather permitting) at the Outdoor Children's Classroom, next to the Widener Visitor Center. In the case of inclement weather, Storytime will be held in the Upper Gallery at the Visitor Center. Storytime runs from 10:30-11am and is free for members or with regular admission. Advance registration is required and registration is open for one month in advance of upcoming Storytime events.

19 Bloomfield Farm Day

Sunday, October 19, 12-3pm

Come celebrate Bloomfield Farm's agricultural history. Along with demonstrations, music, food, and a few animals, will be the opportunity to tour the restored Springfield Mills, originally constructed in 1760. New this year is the chance to take guided tours of the farm property and learn



the history and research value of this landscape under the Arboretum's stewardship.

22 Connections Beyond Our Garden Lecture: "Birds Can Save the World"

Wednesday, October 22, 2pm See page 15 for more information.

28 Storytime

Tuesday, October 28, 10:30-11am

See October 14th for more information.

NOVEMBER

Winter Wellness Walks

Saturdays, November through March, 10:30-11:30am

Meet in front of the Widener Visitor Center for a brisk walk led by an experienced volunteer guide. We will stick to the paved paths and will get you moving and increase your heart rate.

1 1 Storytime

Tuesday, November 11, 10:30-11:00am

See October 14th for more information.

Photo: Paul Meyer



19 Connections Beyond Our Garden Lecture: "Why Was Charles Darwin Aboard the HMS Beagle?"

Wednesday, November 19, 2pm See page 15 for more information.



Photo: Arnold Winkler

28 Holiday Garden Railway Display

Friday, November 28 through Sunday, January 4, 10am-4pm (closed Christmas Eve and Day and New Year's Day)

A delight for both young and old, welcome the holiday season with a visit to the Garden Railway Display. This magical garden gets decked out for the holidays with twinkling lights and seasonal decorations.

29 Holiday Garden Railway Grand Opening

Saturday, November 29, 1-3pm Take part in a fun kid craft and delight in the sounds of the Classic Carolers, an a capella, costumed quartet who will serenade visitors throughout the garden.

DECEMBER

2 Storytime

Tuesday, December 2, 10:30-11am

See October 14th for more information.

5 Friday Night Lights

Fridays, December 5, 12, 19, and 26, 4:30-7:30pm

Come enjoy the Holiday Garden Railway in the evening, lit up all aglow and decorated for the season. White lights sparkle along the tracks and miniature greens and roping adorn the buildings. Advance ticket purchase is recommended. Tickets will be available to purchase through Ticket Leap beginning November 5. Visit http://bit.ly/MAFNL14 for more information.

Winter Wellness Walks

Saturdays, November through March, 10:30-11:30am

See October for more information.

6 A Holiday Concert with the Penn Glee Club

Saturday, December 6, 2-3pm

A winter tradition, the Penn Glee Club will return to Morris Arboretum on Saturday, December 6th for their fifth annual holiday concert. Come enjoy the Glee Club's fun and diverse holiday repertoire, while enjoying hot cocoa and cookies in the garden. Free with admission.

6 Premier Members Holiday Garden Railway Evening

Saturday, December 6, 4:30-8:30pm

Beech level members (\$115) and above will receive an invitation to enjoy a special evening at the Morris Arboretum. Follow the glow of sparkling lights down the garden path to the magical Garden Railway. Hot cocoa and cookies will also be available for your enjoyment. Carolers will perform

at the Garden Railway from 5-7pm. Raindate: Sunday, December 7th. Registration is required.

10 Connections Beyond Our Garden Lecture: "Emily Dickinson and Beatrix Potter: A Tale of Two Gardeners"

Wednesday, December 10, 2pm See page 15 for more information.

16 Storytime

Tuesday, December 16, 10:30-11am

See October 14th for more information.

JANUARY

Winter Wellness Walks

Saturdays, November through March, 10:30-11:30am

See October for more information.

13 Storytime

Tuesday, January 13, 10:30-11am

See October 14th for more information.

27 The Lukens Endowed Lecture – "Gardens of the Jazz Age"

Sunday, January 18, 2pm See page 18 for more information.

27 Storytime

Tuesday, January 27, 10:30-11am

See October 14th for more information.

ADMISSION

Adults (18 - 64yrs.) \$1 Senior (65+yrs.) \$1 Children (3 - 17yrs.) \$7 Members FR

* Please note, Arboretum events are subject to change without notice.

In the event of inclement weather, please check the website at www.morrisarboretum.org for information or call (215) 247-5777, ext. 0.

Connections Beyond Our Garden

he Arboretum's popular weekday lecture series, Connections Beyond our Garden – Talks on People, Plants and Place returns this fall with a wide range of interesting topics, from the vital roles birds play in our environment, to the inspiration that authors Emily Dickinson and Beatrix Potter drew from gardening and nature, and the fascinating people and places that influenced and helped shape the life and career of Charles Darwin. The lectures are \$15 for members and \$20 for non-members. Reservations are required. To sign up on-line visit https://online.morrisarboretum.org/CBOG or call 215-247-5777, ext. 125.

Birds Can Save the World

John W. Fitzpatrick, *The Louis Agassiz Fuertes Director,* Cornell Lab of Ornithology

Wednesday, October 22, 2pm

Birds, both the rarest and the most common, teach us much about human nature, environmental protection, and our opportunities for saving not just species, but also the great natural systems on planet Earth. This illustrated lecture emphasizes the role birds play as the most accessible and sensitive indicators of environmental health and ecological change. John W. Fitzpatrick is the Louis Agassiz Fuertes Director of the Cornell Lab of Ornithology and professor in ecology and evolutionary biology at Cornell. An expert on the Florida scrubjay, he is co-author of at least six bird species new to science.

Why was Charles Darwin Aboard the HMS Beagle?

Keith Thomson, Executive Officer of the American Philosophical Society

Wednesday, November 19, 2pm

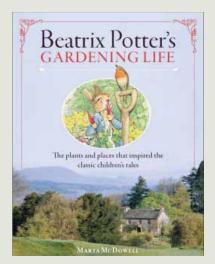
Charles Darwin went to Cambridge University to prepare for a career as a parson. After leaving in 1831, he spent five years on the Beagle, returning as a serious naturalist and the talk of London. This presentation will investigate the range of influences and ideas, the mentors and rivals, and the formal and informal education that shaped Charles Darwin and prepared him for his remarkable career of scientific achievement. Keith Thomson is currently Executive Officer of the American Philosophical Society, the oldest learned society in the United States, founded in 1743 by Benjamin Franklin. He is also emeritus professor of natural history at the University of Oxford and was President of Philadelphia's Academy of Natural Sciences.

Emily Dickinson and Beatrix Potter: A Tale of Two Gardeners

Marta McDowell, Author, Teacher, and Lecturer Wednesday,

December 10, 2pm

Reclusive poet Emily
Dickinson was known as
a consummate gardener
who studied botany
and tended her own
conservatory. Author and
illustrator Beatrix Potter
was as much a naturalist



and gardener as a writer, and an early landscape preservationist and conservationist. In this lecture, author, teacher, and popular speaker Marta McDowell will discuss the relationship between the "pen and the trowel," and the people who, like her, are passionate about both writing and gardening.

Summer Adventure Camp

he Arboretum's 2014 Summer Adventure Camp was a smashing success! In fact, after selling out for five of the six weeks, it was the most successful camp ever, thanks to an extraordinary group of educators and loyal camp families. Many new faces arrived with enthusiastic, wide-eyed wonder, while many camp veterans were welcomed back for another summer of nature exploration.

Hiking the new woodland trail, observing birds and animals, watching corn being ground at the historic grist mill, making homemade butter, painting masterpieces and creating terrariums have become some of the campers favorite activities. No matter what their favorite, the campers had pure fun outside in nature.

If you are interested in Summer Adventure Camp 2015, check the website for early bird registration discounts in January. Reserve your child's spot early as Summer Adventure Camp is becoming more and more popular each year!





"My three-year-old was very engaged in the growing minds class and spoke up when Ms. Pam asked the class questions. It was the first time I had ever heard her proudly answer a question in a classroom setting by herself."

Growing Minds Classes for Kids

This series of classes offers children and their caregivers the chance to connect meaningfully with nature through a wide variety of educational programs. Take a look and sign up for these programs that are certain to be enriching, fun, and memorable. To register online, visit https:// online.morrisarboretum.org/classes or call (215) 247-5777. To register by phone call (215) 247-5777, ext. 125.

Storytime Nature Yoga

Tuesday, October 7, 21, 10:30-11:15am

Join us for yoga especially for tots. We will explore yoga together through naturefocused stories and songs.

"My nine-yearold daughter took some AMAZING photos in the nature photography class."

Kids Click! Portrait and Still Life Nature Photography (Ages 8-12)

Four Thursdays: October 9, 16, 23, 30, 4-5:30pm

This four-week photography workshop offers kids the opportunity to get into nature, be creative and have fun while capturing the Morris Arboretum landscape during fall.

Seeds to Sprouts: Autumn Adventures

Session Two: Six Mondays: October 20, 27, November 3, 10, 17, 24, 10:30-11:30am Is your toddler a budding naturalist? Join us this fall for a series of outdoor adventures designed to introduce children and their caregivers to the wonders of the natural world.

Connect with Morris Arboretum!

Want to know what's going on in the garden right now? There are many ways to keep on top of Arboretum happenings! Find the one that's right for you, and we'll keep you current with informative, beautiful, and interesting updates throughout the week.

Join the conversation and share your experiences in the garden, tag photos with hashtag #morrisarboretum









Fall is for Learning

he Arboretum offers a lineup of interesting course offerings for fall. A recent poll of our students revealed that people take classes to learn new skills, to have fun with friends and family, and to meet new people. We hope you will review our offerings and get inspired to sign up. To register for a class online visit https://online. morrisarboretum.org/classes. You can also mail in a check or call (215) 247-5777, ext. 125.

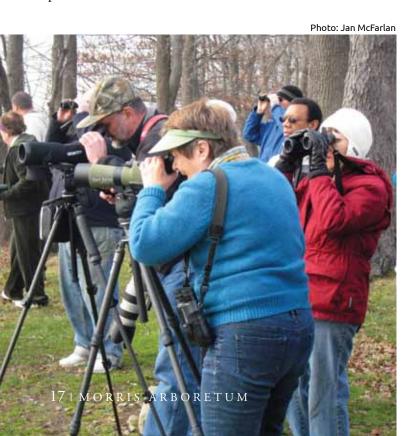
Woody Plant Propagation for the Home Gardener

Tuesday, September 23 7-9pm

Join Plant Propagator Shelley Dillard as she shares her expertise in collecting, cleaning, and propagating woody plant seeds.

Brooklyn Bridge Park and Brooklyn Botanic Garden Thursday, October 2 7am-6:30pm

Join us on a trip to two fascinating locations. Brooklyn Bridge Park has revitalized more than a mile of Brooklyn's postindustrial waterfront, and Brooklyn Botanic Gardens is a 52-acre garden with a number of specialty gardens and plant collections.





Flashy Plants for Outstanding Fall Color

Friday, October 10 10-11:30am

This information-packed talk will introduce you to some great perennials, annuals, shrubs, and even bulbs that will carry the fall show in your garden.

Birding at Crow's Nest Preserve and French Creek State Park

Thursday, October 16 7:30am-4pm

We hope to see red-headed woodpeckers that have recently been observed at Crow's Nest Preserve. French Creek State Park has been designated as an "Important Bird Area," by Audobon.

Sustainability in the Garden

Wednesday, November 5 7-8:30pm

Learn about practices you can use in your garden that will have a positive impact on the environment.

Holiday Wreath Making Workshop

Saturday, December 6 Section A: 10am-12 noon

Section B: 1-3pm

Make a beautiful holiday wreath from a variety of fresh, loose greens.

Morris Arboretum Endowed Lecture Series

Reservations are required and space is limited. Sign up online at https;//online.morrisarboretum.org/endowedlectures or call (215) 247-5777, ext. 125.

"Gardens of the Jazz Age" (The Lukens Endowed Lecture)

Sunday, January 18, 2pm

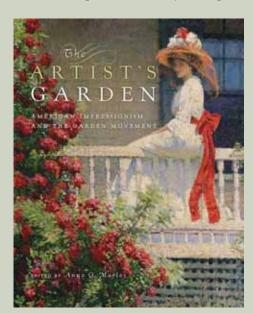
In this light-hearted, yet serious lecture, Jenny Rose Carey, garden historian and member of the Garden Club of Philadelphia, will investigate the fascinating gardens of the Jazz Age. Using images from magazines, books, and glass lantern slides from the Archives of American Gardens at the Smithsonian, she weaves garden history, design, social history, and women's history into a tale of the times. The Lukens Endowed Lecture is presented annually in memory of educator and Arboretum volunteer Byron Lukens and his wife Elizabeth.

"The Artist's Garden: American Impressionism and the Garden Movement, 1887-1920" (The Klein Endowed Lecture)

Sunday, March 15, 2pm

Anna O. Marley, a nationally recognized authority on American art and material culture from the colonial era to 1945, will discuss the Pennsylvania Academy of the Fine

Art's 2015 exhibition and catalogue The Artist's Garden. This exhibit intertwines stories of American artists, Impressionism, and the growing popularity of gardening as a middle-class leisure pursuit at the turn of the 20th century. By employing the interdisciplinary perspectives of horticultural history and art history, "The Artist's Garden" will reveal the far-reaching effects of Impressionism not just on painting, but on American



culture at large. The Klein Endowed Lecture is presented annually in memory of Dr. William M. Klein who served as the Arboretum's first full-time director from 1977-1990.



Landscape Design Symposium

oin us on January 8 and 9 at Montgomery County Community College in Blue Bell, PA for the 26th annual winter landscape design symposium. This two-day symposium is an in-depth examination of state of the art naturalistic landscape design. Speakers will represent a diverse and accomplished group of designers, horticulturists, ecologists, and artists in an interactive and informal setting. Continuing education units for landscape architects will be available. Brochures and online registration will be available in November at online. morrisarboretum.org/LDS. To request a printed brochure, please call (215) 247-5777, ext. 125 or e-mail education@morrisarboretum.org



Official arboretum of the Commonwealth of Pennsylvania
100 East Northwestern Avenue

100 East Northwestern Avenue Philadelphia, PA 19118



Seasons newsletter is printed on FSC® (Forest Stewardship Council $^{\text{IM}}$) certified paper, which supports the growth of responsible forest management worldwide through its international standards.

Photo: Paul Meyer



Experience the Magic of the Holiday Garden Railway in the Evening!

Fridays, December 5, 12, 19 & 26, 4:30-7:30pm

This special holiday event will return this year, inviting visitors to enjoy four special evenings at the Holiday Garden Railway Display. Experience the magic of the trains as white lights sparkle along the tracks and illuminate the decorated buildings. Snacks and light fare will be available at the Compton Café. This is a ticketed event. Tickets will be available via Ticket Leap beginning November 29. To purchase tickets go to: http://bit.ly/MAFNL14. Premier members (Beech and above) will receive an invitation for a members only evening on Saturday, December 6. See page 14 for more details.