A Note from the Executive Director

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

A Place to Visit Every Day

I am very fortunate that I both live and work on the Arboretum grounds. Unless I am traveling, I experience the Arboretum every day. Some days my walks in the garden are short and rushed, while other days they are longer and more leisurely. But each walk is a rich and different experience.

Even after walking the Arboretum for decades, I always discover something new. Perhaps it is a vista in a different light, a plant flowering for the first time, or a botanical detail that I had missed before. Maybe it is wildlife, or the flow of water in the fountains and streams. I always see at least one thing with new and fresh eyes.

The Arboretum is more than a beautiful garden. It is a collections-based museum with more than 2,493 kinds of plants, representing 94 families and 304 genera. This great diversity offers even the casual visitor something beautiful and interesting throughout the seasons. Ranging from the Chinese witchhazel flowers of winter, to the crape myrtles of high summer, it is a rare day when there is nothing in bloom at the Arboretum. And even on those rare days, the form, texture and bark character of the trees take center stage. As I write this in the spring, each day brings an abundance of new flowers emerging and dramatic weather changes, which alter the Arboretum experience from hour to hour.

The Arboretum is unique among arts and culture institutions in that a number of our visitors come several times a week, or perhaps, even every day. They might be motivated by getting their daily exercise, relaxing away from the daily grind, or experiencing the seasonal beauty of nature. But regardless, each visit strengthens their bond with nature and their connection with the place we call the Morris Arboretum.

As an educational institution, the Arboretum has more than 150 class offerings each year, and reaches more than 2,500 students with formal instruction. Perhaps though, the most important education we give our visitors is how to build their powers of observation. Even after walking the Arboretum for decades, I always discover something new. Perhaps it is wildlife, or the flow of water in the fountains and streams. I believe that when we truly learn to see and observe, our appreciation of the natural world grows, and, as a result, we become better stewards of our environment.

This summer, we launch the Awakening the Senses exhibit which will make the Arboretum’s history, stories, and collections more accessible and understandable to our visitors with online tools and information. You can focus on actively engaging with the world around you by using the Awakening the Senses tools to plan and enrich your garden visits.

Make it a point to visit the Arboretum often, and bring a friend to share the experience. Your lives will be richer for it.

Paul
The crazy quilted Pump House roof has been capturing visitors’ attention as they enter the Arboretum. It’s all part of fiber artist Melissa Madonni Haims’ exhibit, Wrapped Up, which was installed in late March. The sun was shining for the opening reception on March 26th as Melissa finished sewing up the last few pieces around the trunks of *Toona ciliata* (cedrela) in the Sculpture Garden (pictured lower left).

Prior to the exhibit, the Arboretum hosted a full house of 65 knitters and crocheters who created individual pieces that were sewn together around the posts of the bridge near the Log Cabin. Given only size as a specification, everyone present, from the youngest knitter at age five, to the eldest at 87, became an artist and an important contributor to the exhibit. Volunteers also came back to work with Melissa as she joined the pieces together.

Visitors will find Melissa’s artwork throughout the garden, including at the Love Temple, Seven Arches, and at the large mono maple near the Japanese Overlook Garden. Check out the online map before you visit to make sure you don’t miss any of the pieces in this vibrant new exhibit.

Wrapped Up - Yarnbombing at Morris Arboretum

MICHELLE CONNERS, Events Coordinator

Geranium *sanguineum* - A True Garden Treasure

PAUL ORPELLO, Compton Horticulturist

One plant that never ceases to impress me is the geranium. It has been a noteworthy garden perennial for over a hundred years. Personally, I don’t know if it is the engaging floral display, or the captivating primal scent, but there is something about its magical, sultry allure that draws me to put one in almost every garden design I create.

Geranium, or cranesbill, has more than 400 species. Its botanical name comes from the ancient Greek for crane, due to the resemblance of the fruit capsule to a crane’s bill. It should not be confused with the genus *Pelargonium*, whose common name is also ‘geranium,’ but is used as an annual bedding plant. For the purpose of this article, I am referring to the genus *Geranium*, or ‘hardy geranium.’

Hardy geraniums come in a variety of heights, forms, and colors. There is one to suit almost any garden. With dissect, or cut-leaf foliage, they are generally low-mounding in shape, and come in shades of pink, purple, or white. Similar to most early summer flowering perennials, most species will benefit from a hard cut back immediately after the first flowering.

*Geranium sanguineum* (bloody cranesbill) is a species that has rightfully gained its own attention with American gardeners. *G. sanguineum* is 6-12” in height, and can spread up to 18-24” in width. It is tolerant of a wider range of soil conditions and temperatures than other geranium species. Blooming May–August, these plants are superb in the front of the border, or used in masses. *G. sanguineum* boasts a fantastic, free-flowering floral display, and an excellent mounding growth habit. Though its rich, magenta-colored flowers can be intimidating to some, I find their flamboyantly flashy flowers absolutely outrageous if paired properly with the right combination of plants. Their exceptional drought tolerance keeps them on my list of essential full sun edging plants.

The variety of *G. sanguineum* cultivars in the trade can make it a bit overwhelming. While the straight species is an excellent garden-worthy plant in its own right, there are a few cultivars I find extremely useful in the garden. *G. sanguineum* ‘Album’ (pictured above) offers a lovely, white-flowered form. Try newer cultivars like ‘New Hampshire Purple’ and ‘Tiny Monster.’ Their larger flower size, aggressive growth, and purple flower shades are an extremely welcomed improvement. *Geranium × ‘Dilys’* (pictured at left), an interspecific hybrid (*G. sanguineum × G. procurrens*), touts the same great characteristics as the *G. sanguineum* cultivars with increased spreading and weaving capabilities, creating a seemingly endless, free-flowering summer display.

To find *Geranium sanguineum* at Morris Arboretum, visit the Pennock Garden in the heat of summer. A cultivar I have used with great success, ‘John Elsley,’ named after the horticulturist of Wayside Gardens, can be found interplanted amongst *Lavandula × England.* This splendid combination is just one of many featuring geranium here at the Morris Arboretum. Visit our displays for inspiration, and try a geranium you favor in your own garden this season!
It’s Never Too Early to Plan a Legacy

JESSICA LYNCH, Associate Director, Individual Giving

Christine James isn’t your typical Lydia Morris Legacy Society member. As a participant in planned giving, she is much younger than her fellow supporters. It is not often that you meet someone at Christine’s stage in life who considers philanthropy and legacy a priority.

As a child, Christine was raised to work hard, be grateful, and give back. Christine’s mother, Veronica James, came from a hard-working, middle class family. Norm, Christine’s dad, had a vibrant career with Mobil Oil where he met Veronica. Together, the family lived in the suburbs of New Jersey, and spent weekends enjoying the theaters, museums, and gardens of the greater New York City area. Christine recalls her mother’s love for the Asian gardens of Snug Harbor Cultural Center & Botanical Garden on Staten Island. Her father went along for the ride, even if it meant standing in crowded lines to catch a glimpse of the holiday trains at New York Botanical Garden.

When Christine moved to the Philadelphia area to attend Villanova University, she searched for a local garden to share with her parents. A newspaper advertisement for the Garden Railway exhibit led her to the Morris Arboretum. After seeing the awe in her father’s eyes as he walked under the train bridge, she knew she had to join—and thus began her 20-year relationship with the Arboretum.

Over the years, Christine has contributed to the Arboretum in many ways. She has served on several committees, chaired the Directors Guild, and currently serves on the Advisory Board of Managers. In addition to her time and counsel, Christine generously supported the restoration of the Arboretum’s Japanese Overlook Garden (pictured at left) in 2011 to honor her mother’s memory. Soon after, she made the decision to support the Arboretum through a planned gift.

In her will, Christine continues to uphold the core values instilled in her by her parents by supporting the organizations that have defined her throughout the years. The Arboretum is fortunate to be among the future recipients of Christine’s generosity and hard work.

By making a planned gift to the Arboretum, Christine ensures that future generations will enjoy special time with loved ones among the treasured features at the Morris Arboretum. If you are interested in joining Christine James and many others who have supported the future of the Morris Arboretum through a bequest intention, please be in touch with Jessica Lynch, Associate Director, Individual Giving at (215) 247-5777, ext. 131 or via email at jeslynch@upenn.edu.

Striving for Genetic Diversity

ANTHONY AIELLO, The Gayle E. Matoney Director of Horticulture & Curator

As described in the Winter 2015 issue of Seasons, the Arboretum’s research and plant exploration program is a significant component of our mission. As part of this program, for the past several years I have been taking part in a conservation project involving paperbark maple (Acer griseum). Despite being a popular and much-loved garden plant, paperbark maple is endangered in its native habitat in central China. There have been a limited number of introductions into Western cultivation, and as a result of this genetic bottleneck, there is probably little diversity among the plants within the United States or Europe. The aim of this project is to determine whether the genetic diversity of cultivated plants accurately reflects that of plants in the wild, or if further efforts are needed to help conserve this species.

As explained previously, this project has sampled cultivated plants of known wild origin in the U.S. and U.K. In September of 2015, we completed the next step of the project, which was to sample wild populations of Acer griseum across its native range in central China. For this, I visited wild populations in several provinces in China with Kris Bachtell (Morton Arboretum, Lisle, IL) and Michael Dosmann (Arnold Arboretum, Jamaica Plain, MA), where we worked with a long-standing colleague, Kang Wang of the Beijing Botanic Garden.

With support received from The Maple Society and the Chanticleer Foundation, we travelled within an approximately 500 mile radius of Xi’an, the ancient capital of China and current capital of Shaanxi Province, a fascinating city whose history was shaped as a terminus of the Silk Road. On our travels, we visited paperbark maple populations stretching east to west from Shannxi, Henan, and Shaanxi to Gansu provinces, and south into Sichuan and Chongqing.

The trip was especially informative because we were exposed to a wide range of conditions and habitats across the range of Acer griseum. In total, we came away with 66 samples of paperbark maple, from nine locations in five provinces. Visiting these isolated populations, often a day’s drive apart, provided a graphic understanding of what it means for a species to be endangered. At some of the sites, we encountered trees scattered across a wide area, while at other sites there was a density of trees within a very restricted area. In most situations, we encountered very few young seedlings, indicating a reason for the species’ decline. We also observed that there was great uniformity in the leaf shape, bark, and habit of trees, something that is certainly true among cultivated plants.

Additionally, Chinese colleagues collected for us in Hunan Province, the southernmost populations of Acer griseum in China. This coming summer, we hope to obtain samples from Gansu province, an area we visited, but did not find any trees. At the Morton Arboretum, the genetic diversity of these wild-collected leaf samples will be compared to those in cultivation. If there is not sufficient representation of wild material in cultivation, then we will collaborate with our Chinese colleagues to expand ex-situ conservation efforts.

With continued threats to plants around the world, this project has highlighted the importance of well-documented living collections in providing a basis for plant conservation efforts. By providing an understanding of the number of botanic garden collections sufficient to help preserve this species, this project will serve as a model and benefit anyone interested in maple conservation.
Arboretum Faces
ALISON THORNTON, Senior Associate Director, Annual Giving

Rev. Burton “Burt” Froom and his wife, Dr. Louise Lisi, of Mt. Airy have been loyal Morris Arboretum members for more than 30 years. Louise’s memories of the Arboretum go back even further, to her childhood. Her father, Alfred Lisi, and her mother, Flora Fender Lisi, studied botany at the University of Pennsylvania in the 1930s. Louise has memories of being in the garden, as well as inside the Morrises’ mansion, Compton, where the botanical laboratories were located. Compton was demolished in 1968 after it had fallen into disrepair. Today, the sculpture by George Rickey, *Two Lines*, sits on the ridge where the building was located.

Louise and Burt often visit the Arboretum a few times a week in all seasons. Louise, who is a retired pediatrician, can often be found visiting the Arboretum with her young grandchildren. Burt, who is a retired Presbyterian minister and pastoral psychotherapist, walks with the aid of a walker, and often with his walking companion, Jaime Kehler. Burt had written to Paul Meyer, the F. Otto Haas Executive Director, last year to share that, “It is nearly impossible to walk with a walker on city sidewalks because of their irregularities. The paths at the Arboretum are smooth and well-maintained so they can be used in all seasons. I am able to walk there and enjoy the beauty of this wonderful living museum of trees!”

Members and visitors like Burt and Louise, are a valuable part of the fabric of the Morris Arboretum. By sharing the Arboretum with their grandchildren and other young people in their lives, like Jaime, they are an important connection to our past and future. Thank you, Burt and Louise, for being faces regularly seen in the garden.

Pictured below is Mr. Lisi (right) in the Pathological Lab at Morris Arboretum with (from left to right): Mr. Mean, Dr. H. H. York, a professor of botany at the University of Pennsylvania, and Mr. Miller. Photo courtesy of Morris Arboretum archives.

A Favorite Place to Explore and Relax
SUSAN CRANE, Director of Marketing

Although Morris Arboretum doesn’t have an official ‘frequent walkers’ program, there are many visitors who consider a walk at the Arboretum to be part of their regular weekly schedule. One such walker is Eleanor Buckley, who comes to the Arboretum with her two brothers. Eleanor walks with her brothers every weekend on Saturday and Sunday, and now that she is retired, usually one other day during the week. The three of them come together, but separate for their own walks once they’re here. They come from 50 minutes away in Port Richmond. Morris Arboretum is her favorite place to walk, and has been for years. Eleanor came for a wedding back in 1995, and became a member with her brothers shortly thereafter. She has been a member ever since, and is also now a Garden Railway volunteer.

“When I walk at the Arboretum it clears my mind and allows me to process things. All of my concerns and troubles seem to melt away into nature. My favorite part of the Arboretum is the dawn-redwoods. They are so wild and woolly. I like being there by myself, looking up. When we have enough time, my brothers and I also try to spend time on Out on a Limb. One of these days, when no one is around, I’m going to climb down into the Squirrel Scramble,” she laughs.

“My brothers and I love to walk off the beaten track, and even though my brother is handicapped and walks with a cane, he can do it. We always look at the tree labels to learn the names of the trees.”

With walker-friendly paths and so many secret places to discover, Morris Arboretum becomes a special place to anyone who embraces the garden as their own.

Take Your Membership on the Road
Your Morris Arboretum membership card can take you to places far beyond our garden gates. With your valid Morris Arboretum membership card, you can receive free or discounted admission to more than 300 gardens across the country through the American Horticultural Society’s Reciprocal Admissions Program (RAP)! Local favorites include Winterthur, Hershey Gardens, and Tyler Arboretum. For a complete listing of participating organizations, visit http://www.ahs.org/gardening-programs/rap. Or, if you wish to have a hard copy of the RAP Directory, they are available for purchase at The Shop for just $2.

Did you use your Morris Arboretum membership card to gain access to another public garden? Tell us where you have visited via social media! Share your visit and photos on Facebook, Twitter, or Instagram, and use the hashtags #MorrisArboretum and #ahsrap.

At left, Morris Arboretum Director of Marketing Susan Crane used her reciprocal membership privileges to visit Cheekwood Botanical Garden and Museum of Art in Nashville, TN.
Penn Recognizes Springfield Mills Restoration Team

The University of Pennsylvania has awarded Morris Arboretum’s Springfield Mills Restoration Team a Models of Excellence Honorable Mention for 2016.

In the past year, volunteers contributed nearly 1,500 hours in historic preservation and education to a grist mill that has more than 250 years of history. Mill volunteers restored several belt-driven machines, adding to the demonstration of 19th & early 20th century grist mill operations. The west wall of the mill was restored, and the tail gate, turbine vane controls, and cob crusher were added to demonstrations. Corn is now being grown, shelled, and ground, and cornmeal is being sifted, bagged, and even baked into muffins. Mill speed increased 12%, allowing for finer grinding and sifting.

Morris Arboretum staff members Robert Gutowski and Thomas Wilson, as well as retired staff member Robert Anderson, were instrumental in leading the mill restoration team. Anderson established a group of volunteers known as the Run of the Millers, a group for which he continues to actively volunteer. Two especially dedicated Run of the Millers, Craig San Pietro and Ted Bell, spent hundreds of hours as highly skilled engineers and craftsmen to refurbish all of the equipment in the mill and restore Springfield Mills to its current operating condition.

Springfield Mills is a significant contributing structure in the Morris Arboretum’s listing on the National Register of Historic Places. More than 1,000 individuals visited the mill last year on six public demonstration days, and in scheduled group and school tours.

An Award for Sustainability

The Morris Arboretum has received an Excellence in GSI (Green Stormwater Infrastructure) Award from the Sustainable Business Network of Greater Philadelphia (SBN) for its Demonstration Porous Parking Lot.

The Early Adopter award (given to public or private projects 10 years or older) honors exemplary projects and the teams of people behind them who are bringing the environmental, social, and economic benefits of green stormwater infrastructure to life in Philadelphia and the region.

Constructed in 1987, the parking lot is one of the earliest and longest-lasting porous asphalt installations in the world, serving as a model and educational tool for visitors from around the world. It has continued to be effective even in hurricane-level events, capturing and infiltrating all direct rainfall on the parking lot. In 2015, due to some surface erosion to the pavement, the porous pavement was successfully replaced above the existing stormwater bed. The subsurface system was found to still be fully functioning, and so was left in place.

Andropogon Associates and Cahill Associates were also recognized as members of the Planning/Design team. The lot has won awards for engineering and design, been featured in national publications and regional educational videos, is frequently visited by school students, university classes, engineers, architects and landscape architects, and has served almost two million visitors.

New Gates for the Rose Garden

This spring, the first phase of improvements to the fence surrounding the Rose Garden was completed. This phase includes new gates at the upper and side entrances. Additionally, the deer fence that surrounds the garden and primarily runs through the densely planted screen of boxwood, yew, Canada hemlock, plum-yew, and holly, has been replaced. These gates will enhance the experience of entering the Rose Garden, while the new fence will help to exclude the garden from deer, who find rosebuds to be a tasty treat.

As funding becomes available, work will begin on the second phase of the project, which involves a much-improved deer fence along the lower side of the Rose Garden, as well as changes to the steps and plaza surrounding the Summer Cottage that will make this area a more inviting location for visitors.

Support for the Rose Garden Perimeter project has been provided, in part, by the following donors:

Andrea Baldeck, MD & the late William Hollis
Emilie Rivinus Beggy
Barbara & Clem Dinsmore
Wendy & Walter Foulke
Penelope Parsons Harris

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Wendy & Walter Foulke
Penelope Parsons Harris

Augusta Y. Leininger
Linda Buchheit & the late Shaun O’Malley
Raynier Institute and Foundation
Ann & Frank Reed
Robert Warth
own field journal to document your discoveries, observations, and notes about the day.

STEAMpunk Expo
Sunday, June 12, 10am-5pm
Explore art and science the STEAMpunk way. Enjoy a day of original theatrical productions, aerial artistry, and more. See examples of cutting-edge technology from the past and present. Participate in science discovery stations throughout the garden. Stroll the Victorian garden in your STEAMpunk finery and submit your photo to our Instagram fashion contest.

Insider Art Show & Sale
Sunday, June 19, 11am-4pm
Bloomfield Farm
Come enjoy the original art and craft works of Morris Arboretum’s talented staff and members. Pick up a Father’s Day or graduation gift, or maybe just something special for yourself. Held on the grounds of historic Bloomfield Farm, visitors will also have the opportunity to observe demonstrations at Springfield Mills from 1-4pm.

Grist Mill Demonstration Day
at Bloomfield Farm
Sunday, June 19, 1-4pm
Historic Springfield Mills at Morris Arboretum is restored and stone-grinding corn for meal and flour. Come explore revolutionary technology, local history, and a beautiful setting along the Wissahickon Creek. Guided tours will be available.

Small Trees Tour
Saturday, June 25, 11am
See June 11 for details.

In the Quiet
Saturday & Sunday, June 25 & 26
Performances at 11am & 1pm
Experience the Squirrel Scramble like never before. Come see the new site-specific performance piece local dancer and choreographer Jenny Roe Sawyer has created for Out on a Limb.

Commonwealth Classic Theater presents Tartuffe
Wednesday, July 13, 6:30pm
Enjoy summer outdoor theatre as the Commonwealth Classic Theatre Company presents Molière’s classic comedy, Tartuffe. This event is free for members. After 4pm, admission is “pay what you will.”

Thomas the Tank Engine & Friends at the Garden Railway
Saturday & Sunday, August 13 & 14
See July 16 for more information.

Grist Mill Demonstration Day at Bloomfield Farm
Sunday, August 21, 1-4pm
See June 19 for more information.

Circus Week at the Garden Railway
Saturday, August 27 through Monday, September 5
See July 2 for details.

Korean Culture Connection
Saturday, September 17, 11am-3pm
Celebrate traditional and modern Korean culture with music, tours, and hands-on activities. Guides will lead an exploration of the Korean plants in the Arboretum’s 92-acre botanical collection.

Grandparents Day
Sunday, September 11, 10am-5pm
On National Grandparents Day, kids who bring a grandparent to the Arboretum (BYOG) will receive $4 off admission, making youth admission $5.

Korean Culture Connection
Saturday, September 17, 11am-3pm
Celebrate traditional and modern Korean culture with music, tours, and hands-on activities. Guides will lead an exploration of the Korean plants in the Arboretum’s 92-acre botanical collection.

Grist Mill Demonstration Day at Bloomfield Farm
Sunday, September 18, 1-4pm
See June 19 for more information.
Discovering Connections to Science

LESLIE CRANE, Development Communications Associate

A year ago, when asked to tell the story of her earliest involvement with the Morris Arboretum, Kimberly Freeman would have told a pretty familiar story. She and her family live in Chestnut Hill, and several years ago, when her children were very young, they became members here. Over the next few years, the Freemans visited the Arboretum frequently, and it quickly became a favorite destination of her three children—especially her oldest son, who is showing signs of a budding interest in botany. It wasn’t until recently, when her involvement with the Arboretum began to deepen, that she discovered connections to the garden which began further back than she realized.

Kimberly Freeman was working as a scientist for SmithKline Beecham at the time. She helped develop the anti-cancer drug Topotecan with information garnered from this collaboration. Camptotheca biomass was possible.

At a Collectors Circle event this past fall, Kimberly had a chance to speak with the Arboretum’s Executive Director, Paul Meyer. Their conversation turned to Kimberly’s career in oncology, and Paul shared a story about a partnership the Arboretum had with the international pharmaceutical group, SmithKline Beecham, in the late 80s and early 90s. During those years, SmithKline Beecham was conducting research on Camptotheca acuminata—also known as the happy tree or tree-of-life—contains the chemical compound camptothecin that was showing promising results in the treatment of certain types of cancer. In collaboration with SmithKline Beecham, the Arboretum’s botanical science staff agreed to study the trees and report back on both propagation and production efforts. This allowed SmithKline Beecham to focus on the pharmacological research, while Arboretum staff ensured that production of adequate camptotheca biomass was possible.

Kimberly Freeman continues to work in oncology, and is passionate about bringing cancer medicines to patients who need them. She wants to work closely with the Arboretum to see if there is a way to partner her love of oncology with the passion she has for the Arboretum. Members, we love hearing about your experiences at the Arboretum! If you have a story to share, contact Leslie Crane, Development Communications Associate by phone at (215) 247-5777 ext. 152, or via email at lcrane@upenn.edu.

Morris Arboretum Interns Present 2016 Projects

A Proactive Pest Control Calendar and Rearing Beneficial Insects
Victoria Bolden, Martha S. Miller Endowed Urban Forestry Intern
Victoria and the greenhouse staff are working to proactively control greenhouse pests with biological methods. Releasing beneficial insects is not enough—timing and methods of release matter!

Garden Redesign of Mezzanine/Terrace Lawn
Maya Czulewicz, Charles S. Holman Endowed Rose & Flower Garden Intern
This highly trafficked, underplanted passageway garden has great potential. Maya plans to use plants to increase the elegance of the space, clarify pathway options, and invite visitors to linger and enjoy the westward vista of the Sculpture Garden.

To Speak for the Trees: A Self-Guided Tour Exploring Arboriculture Practices at the Morris Arboretum
Josh Best, Walter W. Root Endowed Arborist Intern
Josh’s goal is to create an online resource allowing Arboretum visitors to explore and discover management efforts that have been made to protect and preserve Arboretum trees. He wants to foster an understanding of why certain practices are crucial to the preservation of healthy trees.

Groff Memorial Park Meadow Design and Management Plan
Trish Kemper, Martha S. Miller Endowed Urban Forestry Intern
Trish is creating an environmentally sensitive design for a two-acre meadow addition to a four-acre public woodland park in New Holland, PA. The meadow will consist of warm season grasses and perennials that are native to Lancaster. The project also includes an organic management plan, as a municipal well is located in the middle of the park.

Groundcover Restoration in the Michaux Quercetum
Willa Rowan, Hay Honey Farm Endowed Natural Lands Intern
Willa is testing different methods for the removal of poison ivy and other invasive species in this area located on the Arboretum’s Bloomfield Farm property. The removal will make space available to reseed the area with a diverse mix of native groundcover and herbaceous plants.

A lasting effect on the Arboretum. Below are the projects presented by this year’s class:

Matrix Planting Redesign
Paige Ida, Alice & J. Landon Pennoock, Jr. Endowed Horticulture Intern
Paige is redesigning the herbaceous plantings in the Arboretum parking lot based on matrix plantings. Phase I of the design has been planted, and the implementation of other designs will follow.

Fostering Family Engagement at the Arboretum
Pilar Rivera, McLean Contributionship Endowed Education Intern
Pilar’s project will encourage families to connect with their natural surroundings and one another through sensory engagement. She has been designing content for a digital Arboretum app with questions and activities that promote open discussion.
What brings you to the garden? A love of plants? Learning about the historic landscape? Or perhaps enjoying time with family and friends? This summer, the Arboretum will offer several opportunities to enhance your enjoyment through a series of new web-based tools that will invite visitors to engage more deeply with the Arboretum’s collection, its history, and with one another.

### Then and Now for History Buffs

History buffs will enjoy looking back in time using the *Then and Now* experience. This tool invites visitors to see select garden locations as captured in history, contrasted with contemporary images of the same spot. Each featured location has an accompanying audio recording which places the location in historical context. See Lydia Morris (circa 1920) at the spot we call Lydia’s seat today, and watch the blue pool fill with azure water as you pull the contemporary image over the black and white past, all while learning about the important siting of this special spot in the garden.

### Family Experience

Family groups with children ages 6-8 years old will have fun with an experience we’ve developed just for them. Plant science lessons, coupled with animal-inspired movement cues will prompt families to work together to explore the connections between plants and animals. Imagine scampering like a squirrel to explore the role acorns serve in providing food.

### Tours and Garden-Inspired Creative Expressions

Perhaps seeing the Arboretum through a new perspective would provide a fresh appreciation of the grounds? If so, take one of our mobile tours; one highlights the Arboretum’s native trees, and another will feature original works inspired by, and created for, the Arboretum.

These experiences will all be accessible from the Arboretum’s mobile site on your smartphone or tablet. Later this summer, Wi-Fi hotspots will be installed to help connect you with these opportunities while you explore the grounds. You can also make use of these tools when planning your visit by checking them out on the Arboretum’s website from a desktop computer.

### Collection Connection

With the Arboretum’s new interpretive tools, visitors will be able to search for a favorite plant on their phones or tablets. Results will include a map of all garden locations of the plant and information about it. In many cases, photos taken throughout the year will show how the plant changes with the seasons.

You may be familiar with the Arboretum’s beloved katsura-tree, but did you know that there are actually four *Cercidiphyllum japonicum* in the Arboretum’s collection? Here is an example of how Collection Connection will help you to find them all.

### Cercidiphyllum japonicum

**katsura-tree**

- **Family:** Cercidiphyllaceae (Cercidiphyllum Family)
- **Range:** W. China, Japan
- **Habit:** Tree
- **Flowers:** In April

**Description:** An imposing tree in its habitat, to 30 m high, normally a multistemmed tree. In cultivation only half as high or shorter, bark deeply furrowed, peeling in long strips, crown broadly pyramidal, young twigs red-brown, glossy, glabrous, new growth colored, leaves oval to broad rounded, base usually heart or less cordate, 6 cm long, creame margin, bluish-green above, whitish blue-green beneath; flowers appearing just before the leaves; carmine red, April-May; fruits 15-20 mm long, indirectly curved at the tip, with a short stalk, seed brown.

**Find other plants like this:** *CERCIDIPHYLLUM (KATSURA-TREE)*

### Location Map for Cercidiphyllum japonicum

**katsura-tree**

- **Map Help:**
  - Find the plants
  - Show larger map
- **Location:**
  1. 1932-0595*A* 1932 F19
  2. 1932-0589*A* 1932 J20
  3. 1984-184*B* 1984 D17

Illustration: Todd Miyashiro
Summer Classes

Digital Garden Photography: Seeing, Composing, and Creating the Image
Saturday, June 11, 9:30 a.m. – 1:00 p.m.
Members: $54, Non-members: $60
This workshop is all about using your eyes, mind, and camera to capture either extended or fleeting moments in your personal landscapes. They may be your gardens, vignettes from your travels, and/or simple records of favorite plants. This class, led by Robert E. Lyons, Professor Emeritus at the University of Delaware, is example-driven, and provides understandable information to create aesthetically pleasing and pragmatic images. This talk is primarily relevant for beginners/advanced beginners, and will include a one-hour lecture, one hour of shooting on grounds, and a final hour of reviewing selected images. Participants should be very familiar with the operation of their own camera, and are encouraged to bring their personal devices (laptop, iPad, etc.) if they have one, to facilitate image downloading.

Butterfly Walk
Tuesday, June 21, 10 a.m. – 12 noon (Raindate: Thu., June 23)
Members: $25, Non-members: $30
Welcome summer with naturalist Kris Soffa by exploring the Arboretum’s wildflower meadows and wetlands in search of butterflies. During the walk you will learn fascinating facts about butterfly behavior and learn the host plants required by various butterfly caterpillars for food. This class is for adults and children 10 years and older.

Art Explorations in Nature (Ages 3–5)
Four Thursdays: July 7, 14, 21, 28, 10:30–11:30 a.m.
Members: $85, Non-members: $100
Let’s create art inspired by nature! This four-week series will engage kids in discovery and creativity. They will observe the natural world, explore different art materials, and make connections. Each session will include a walk through the Arboretum, a story or an introduction to an artist’s work, and time for making art. Get ready to draw, paint, print, build, and play!

Garden Railway - Awaken the Senses

The incredible beauty of summer nights at the Morris Arboretum is open to all individuals, but will focus on how UAVs can be used to facilitate image downloading.

Yoga in the Garden: Ten Enchanted Evenings
Ten Tuesdays: May 31, June 7, 14, 21, 28, July 12, 19, 26, Aug. 2, 9, 7–8:15 p.m.
Members: $180 for ten sessions, $100 for five
Non-members: $200 for ten sessions, $120 for five
Walk-ins for a single session $25, cash and checks only
The incredible beauty of summer nights at the Morris Arboretum provides the backdrop for this unique opportunity to study inspirational Vinyasa (flow style) yoga led by Jennifer Schelter, one of Philadelphia’s premier yoga teachers. Participants learn the basics of yoga: breathing, mindfulness meditation, balance, strength, flexibility, core awareness, and deep relaxation surrounded by the Arboretum’s peaceful ambiance. All are welcome, including beginners. Please bring a yoga mat and wear comfortable clothes.

Drones for the Landscape Professional
Saturday, June 11 (Raindate: Saturday, June 18), 1–4 p.m.
Members: $40, Non-members: $45
Unmanned Aerial Vehicles (UAVs), commonly called drones, are changing many industries. In this class, Dave Tavani, freelance videographer and photographer, will navigate the basics of what it takes to get up and running with a UAV system to capture aerial photographs or record video. Topics covered will include safety, necessary equipment, and regulations. The workshop will also include a short outdoor demonstration at the Arboretum. This class is open to all individuals, but will focus on how UAVs can be used by landscape professionals.

Annual Report Corrections
1. Collectors Circle donor Lee Laden was inadvertently omitted from the Annual Report for fiscal year 2015. We apologize for the error and thank her for her generosity.
2. The following endowment was misspelled and should have read: The Steven Laden Marketing Endowment.

Moonlight & Roses Presented by The Haverford Trust Company

KRISTEN CASALENUOVO, Development & Special Events Coordinator
It’s not too late to reserve a space at the most popular garden party of the year! Moonlight & Roses presented by The Haverford Trust Company will take place on Friday, June 3, beginning with cocktails and hors d’oeuvres in the Rose Garden at 6pm, followed by dinner and dancing in the fabulous moonlit tent. Elizabeth Salata and Joann Lytle are co-chairing this year’s event, and the Morris Arboretum is delighted to recognize longtime friend and supporter Edith R. Dixon as the 2016 Moonlight & Roses honoree. Reservations are required and space is very limited. To register, visit www.morrisarboretumgala.org or contact Kristen Casalenuovo at (215) 247-5777 ext. 418 or kcasal@upenn.edu no later than May 27th.

Welcome summer with naturalist Kris Soffa by exploring the Arboretum’s wildflower meadows and wetlands in search of butterflies. During the walk you will learn fascinating facts about butterfly behavior and learn the host plants required by various butterfly caterpillars for food. This class is for adults and children 10 years and older.
Connections Beyond Our Garden:
Talks on People, Plants and Place

What do an award winning, bestselling author, a nationally recognized artist, and a renowned astronomer and educator have in common? They will all be our speakers this fall. If you’ve never attended one of these lectures, you will be captivated as the selected speakers carry you into their worlds of the arts, humanities, sciences, exploration and sustainability.

A reception follows each presentation. Reservations and payment are required in advance as space is limited. The cost is $15 for members and $20 for non-members. To register, visit https://online.morrisarboretum.org/classes, or call (215) 247-5777, ext. 125. Lectures are held at the Widener Visitor Center at Morris Arboretum unless otherwise noted. Look for information on more upcoming lectures at www.morrisarboretum.org.

“The Intersection of Art & the Environment”
Diane Burko
Wednesday, October 5, 2pm

Diane Burko focuses on monumental geological phenomenon. For 40 years, she has been painting and photographing dramatic landscapes from the ground and from the air, including the Grand Canyon, volcanoes, the Wissahickon, and now glaciers. Her current work reflects expeditions to the three largest ice fields in the world found in Greenland, Antarctica and Patagonia. Burko has evolved from an artist who created images about the beauty of the earth, to someone who uses her art to help us understand that our resources are not unlimited, and our planet requires as much nurturing from us as we do from it. Her widely exhibited works can be found in numerous public and private collections across the country.

Andrea Wulf vividly brings the story of Alexander von Humboldt, this last polymath back to life, taking us on a fantastic voyage in his footsteps and his ideas as they go on to revolutionize science, conservation and preservation, nature writing, politics, art and the theory of evolution. She reintroduces us to a lost hero of science and the forgotten father of environmentalism, showing us why understanding his vision of the world has become more necessary today than ever before.

Wulf is the author of five books, including The Brother Gardeners and Founding Gardeners. The Invention of Nature won the 2015 Costa Biography Award, the 2016 LA Times Book Prize for Science & Technology, and was selected as one of the New York Times “10 Best Books of 2015.” Wulf is a three-time fellow of the International Center for Jefferson Studies at Monticello and lectures widely in the US and UK.

This lecture is being presented in partnership with the Ambler Theater, and will be held at their location at 108 East Butler Avenue, Ambler, PA.

Coming Later This Year:
“The Greening of Space: Trees on Other Planets?” Derrick Pitts, Hon.D Chief Astronomer, Franklin Institute
Wednesday, December 7, 2pm

Lectures are supported in part by the Klein Lecture Endowment given in memory of Dr. William M. Klein who served from 1977-1990 as the Arboretum’s first full-time director, the Laura L. Barnes Lecture Endowment of The Philadelphia Foundation, given in memory of Laura Barnes by students and alumni of her school of horticulture, and the Byron Lukens Lecture Endowment, given in memory of educator and Arboretum volunteer, Byron Lukens and his wife Elizabeth.

Shop Local - Shop Often

Expand your understanding, appreciation, and passion for the natural world with our diverse collection of books.

We’ve got guides on plants, birds, insects, and stars. With pocket guide in hand, you can search our Owls of North America, or the Trees and Wildflowers of Pennsylvania. If you want to learn about gardening, we’ve got you covered; try Plant a Tree, Epic Tomatoes, or The Grumpy Gardener’s Handbook. Or if you want to eat some of what you’ve planted, pick up Edible Front Yard, or Eat Your Roses.

Since no one yet has learned how to control the weather, we have plenty of books for those rainy days for both you and the kids. You can pretend you’re outside by immersing yourself in Outstanding Gardens of the World, The Gardener’s Garden, or Seeing Seeds. And for the kids, we’ve got a more whimsical selection; Kid’s Outdoor Adventure, 448 Great Things to Do Before You Grow Up, or Tiny Tiny Toady.

Stop in The Shop on your next visit and take your time browsing for something interesting. And remember, buying from the Shop at Morris Arboretum supports our mission of connecting people, plants, and place.

Travel with Morris Arboretum:
Springtime in Sicily
March 23–31, 2017

At the crossroads of the Mediterranean, Sicily has a fascinating history, having been invaded by the Greeks, Romans, Normans and Spaniards, all of whom have influenced its culture and character. Warm spring weather brings Sicily alive with color. Join Arboretum Director of Horticulture and Curator Anthony Aiello on this tour, where you will visit a combination of natural areas, gardens, and cultural sites, not to mention sample the wonderful food of the island. If you are interested in learning more about this trip, contact Tony at (215) 247-5777 ext. 137.
Get Outside and Learn! - Discover Butterflies

Fun Facts about Butterflies:

• Did you know that butterflies taste with their feet?
• Butterflies don’t actually eat, they get nourishment from liquids - primarily nectar from flowers.
• While they are less efficient than bees, butterflies are still important pollinators.
• There are approximately 20,000 species of butterflies in the world!

Color the picture and see how many different butterflies you can spot on your next visit to the Arboretum!
Late Night Wednesdays
Open until 8pm Every Wednesday, June-August

A waken your senses this summer with special Wednesday evening programming. This five-week series will feature events that will have you see, smell, touch, taste, and listen to experience the Arboretum in new ways. Bring a picnic and take a mid-week break in the garden.

A Taste of Summer: Real Food Sweet Treats with Bold Flavor
Wednesday, July 20, 6-7:30pm
Join food and wellness educator Lauren Nixon for a demonstration that will help to place real, plant-powered food at the forefront of your mealtime experience. Participants will utilize local, seasonal fruit to create inspired sweet treats in under 15 minutes that don’t require a stove!

Performer Geoff Hansplant
Wednesday, July 27, 6-7:30pm
Singer songwriter Geoff Hansplant returns to the Arboretum for a show blending original material with classics from the country blues genre. It’s foot-stompin’ music with a philosopher’s touch.

Simon’s Absence
Wednesday, August 3, 6-7:30pm
Come listen as this talented group of North Ridge Music School students performs a repertoire of jazz and Latin music.

Scents of the Arboretum
Wednesday, August 10, 6-7:30pm
Lori Regan, local essential oil distiller and owner of Shine Essential Oils, will share her knowledge on distilling local trees and plants for health and well-being. Essential oils from trees at the Arboretum will be featured.

In Touch
Wednesday, August 17, 6-7:30pm
Dancer and choreographer Jenny Roe Sawyer will use simple movement exercises to explore nature. Discover how touch profoundly affects our physical, mental, and emotional experiences of connecting with each other and the natural world.