A Note from the Interim Executive Director

BOB GUTOWSKI, Interim Executive Director and Director of Education and Visitor Experience

It is April as I write this note. We have just announced the appointment of William (Bill) Cullina as the F. Otto Haas Executive Director of the Morris Arboretum, effective July 8, 2019. Bill comes to the Morris Arboretum from Coastal Maine Botanical Gardens where he has served as its President and CEO since 2011 and led the development and funding of a comprehensive 20-year master plan. He is well known as an author and lecturer, and highly respected for his accomplishments and character.

Bill will be welcomed by an amazing community of engaged and dedicated Arboretum members, colleagues, volunteers, and staff. The Morris Arboretum today is relevant, financially sound, program-strong, highly regarded, and much loved. Bill is familiar with the institution and is eager to meet our community, learn more about the many current strengths and opportunities for productive change with our audience, our collections, and our research and education programs. Bill tells us, “I am thrilled and honored to be joining the Morris Arboretum as its executive director. It is truly a once in a lifetime opportunity, and I am deeply grateful to the board and University for selecting me as the next leader of this great institution. I cannot wait to get started!”

As Bill embarks on his new leadership role, he embraces an institution with major historic preservation projects underway and a capital campaign making great strides. The Rose Garden is undergoing a major renovation. Seven Arches is undergoing restoration of its historic structure along with stormwater management improvements. Out on a Limb will celebrate its 10th anniversary with an endowment that assures it will continue to engage and delight many generations, young and old, with the tree canopy experience.

Clearly, we have grown significantly in implementing a plan for the Morris Arboretum that was first envisioned by John and Lydia Morris. Begun by the Botany Department of the University of Pennsylvania, this plan was renewed with the leadership of F. Otto Haas and the directorships of Dr. William M. Klein, Jr. and Paul W. Meyer. We are eagerly anticipating the Arboretum’s next chapter under Bill Cullina’s direction.

He becomes a steward of an important historic public garden and vital educational institution with a compelling purpose. We can expect that he will be, as John Morris hoped, “a worthy steward” to plan, cultivate, and grow the Arboretum to serve and inform an even greater community. Please join us in welcoming Bill to the Morris Arboretum and the Philadelphia community.
A Fitting Farewell

On Sunday, March 31, 2019, more than 300 Arboretum friends, members, and staff gathered to pay tribute to Paul W. Meyer’s 43-year legacy. The event included remarks by Ellen Nalle Hass, Chair of Morris Arboretum’s Advisory Board of Managers; Carole Haas Gravagno, Board Member; and Marie Witt, Vice President, Business Services, University of Pennsylvania. Robert Gutowski, Director of Education and Visitor Experience at the Arboretum presented Paul with a resolution dedicating the Arboretum’s main entrance drive as “Paul W. Meyer Drive.” Longtime Arboretum friend Radclyffe “Mike” Thompson and Billy Handy, both members of The Orpheus Club of Philadelphia, performed a moving rendition of Louis Armstrong’s “What a Wonderful World.” The Morris Arboretum is especially thankful to Springside Chestnut Hill Academy for offering their beautiful campus for this momentous occasion.

everGREEN
Campaign Update
Rising to the Challenge

In September 2018, Executive Director Paul W. Meyer informed the Arboretum community that he would be retiring in spring 2019. Shortly thereafter, a longtime Arboretum board member issued a $1 million challenge pledge to the everGREEN campaign in honor of Paul’s service. The challenge was clear: Arboretum supporters were asked to contribute matching funds for efforts articulated in the campaign’s “Cultivating the Garden” priority area. “Cultivating the Garden” comprises those efforts that serve to enhance the Arboretum’s magnificent gardens and historic features. It includes endowment funds for historic preservation and facility maintenance, as well as refurbishment funds for iconic features such as the Rose Garden and the Fernery. Within six months, generous supporters, with gifts both large and small, had matched the challenge grant two to one, generating more than $2 million, in addition to the initial $1 million challenge pledge. These contributions to the campaign will help the Arboretum continue to “cultivate the garden,” a most fitting tribute to Paul, who is forever credited with the near total physical transformation of the Arboretum during his 43-year tenure.

Watch Us Grow

- Cultivate the Garden
- Lead Research Initiatives
- Improve Public Access and Inclusion

Campaign Goal

$36 MILLION

$26+ MILLION

Raised as of April 15, 2019

everGREEN
Strengthen Our Roots, Ensure Our Growth

SEASONS SUMMER 2019

2 MORRIS ARBORETUM
Fundraising Success for the Rose Garden and Fernery

For several years—even prior to the launch of the Ever Green campaign—the Arboretum has been conducting a quiet fundraising effort to support the completion of the perimeter project in the Rose Garden as well as for the replacement of the heating system in the Dorrance H. Hamilton Fernery.

The framework of the Ever Green campaign has helped to convey the urgency of these two critical projects and the response from donors has been swift. As of February 2019, nearly all of the funds needed for the Rose Garden and the Fernery projects have been raised.

In the current fiscal year alone, more than $300,000 was raised for the Rose Garden perimeter project while more than $200,000 was raised for the Fernery heating project. These funds, in addition to the many gifts received in earlier years, have made it possible for the Arboretum to officially “kick off” work on these two important initiatives.

The Arboretum is grateful to its friends and donors who have made gifts both large and small to ensure that these iconic experiences remain among the vanguard of visitor destinations at the Arboretum.

Rose Garden Improvements

In 2016, the first phase of the Rose Garden perimeter project was completed, which included installing the upper and side (accessible) gates and replacing most of the deer fence that runs through the boxwood and conifer screens. The current, much larger phase includes fencing the remaining boundary of the Rose Garden, from the accessible entrance to the Summer Cottage, along the whole lower edge to the Fernery entrance.

From the side entrance to the Summer Cottage, standard deer fencing matching the existing style will be added. At the Summer Cottage, an improved set of steps and an enlarged bluestone paved area will make this a more welcoming and useful gathering area. Along the lower edge of the garden, an attractive deer fence will be constructed, integrated into a low seat wall. At the center steps, a pair of tri-fold gates will be added to maintain the 30-foot opening and long view along the main axis of the garden. Finally, at the west corner, another matching gate will be added.

These improvements will allow a variety of roses and other deer-susceptible plants to continue to be planted, while improving the aesthetics and functionality of the perimeter.

Promoting Access and Inclusion and Creating a New Generation of Garden Advocates

The impact of even one visit to the Arboretum can be profound, especially for children who have never had access to safe, green spaces. Recent research confirms that green settings promote happiness, well-being, better health, and greater success in school. For these reasons and more, increasing public access and inclusion are among the most important aims of the Ever Green campaign. Toward this end, recent gifts to the Arboretum have helped to establish the Education Endowment Fund for Underserved Children. This endowment will provide a stable and ongoing source of financial support enabling the Arboretum to admit greater numbers of Title 1 and similarly underserved school groups to the Arboretum free of charge. In addition, this fund will also help to support transportation costs—one of the most significant barriers to fuller Arboretum access—for schools who simply cannot afford the cost of buses.

The Arboretum continues to solicit gifts for this special endowment which will ultimately help to double visitation rates from underserved schools. If you would like more information on how you can help to support school visitation programs, please contact Mira Zergani, Director of Development at mzergani@upenn.edu or (215) 247-5777 ext. 102.
Patrick Dougherty’s *Loop de Loop*

For three weeks in March, artist Patrick Dougherty worked with Arboretum staff and volunteers to create a whimsical, site-specific sculpture in the Madeleine Burcher Sculpture Garden. The piece, named *Loop de Loop*, is already a visitor favorite and is reminiscent of a roller coaster with its numerous spirals and switchbacks. The maze-like structure contains light-filled tunnels that connect nearly a dozen “rooms.” The sculpture was created using hundreds of willow sticks including purple willow (*Salix purpurea*) and Miyabe willow (*Salix myriabeanus*) transported from upstate New York.

For the past three decades, Patrick Dougherty has combined his love of nature with his skills as a carpenter, creating nearly 300 unique sculptures. Utilizing primitive techniques of building, Patrick uses sticks as construction materials, recognizing them as a renewable and resource which everyone can relate to. The piece will remain in place for as long as it lasts in the natural environment, anticipated to be two years. The exhibit is supported by the Madeleine K. Butcher Fine Arts Endowment.

Out on a Limb Celebrates 10 Years

Since it opened to the public in 2009, Out on a Limb – a Tree Adventure exhibit has quite literally transformed the Morris Arboretum. From its very inception, its purpose was to offer families and visitors of all ages the opportunity to interact with nature in new ways.

Out on a Limb has achieved everything that was envisioned—and more. It has been one of the leading factors in the Arboretum’s rise in membership and visitation since its opening and it has won multiple awards for design and ingenuity.

Out on a Limb was designed as part of the Tree Adventure exhibit, which included additional interpretative elements and activities. Over the past ten years, many of these activities were so successful that it became time to retire them in favor of new elements. This summer, a new listening station will be added to Out on a Limb to enable visitors to “hear” the sounds of nature from the tree canopy. New interpretative panels in the garden will be installed, and an associated “Guide to Tree Adventure” will help families explore the garden in a fun and interactive way. There will also be a new temperature station at the springhouse showing how trees “cool” the environment with larger, easier to see temperature readouts. These updates, along with others, will ensure that the next ten years will be just as successful in sharing how amazing and important trees are to us and our world.

The Arboretum is indebted to Jane and Leonard Korman for their leadership and vision in making this exhibit a reality. They committed themselves fully to the project as lead donors for its construction, and created an endowment to support the ongoing preservation of the structure. An additional gift from the Korman Family Foundation in 2015 ensured that Out on a Limb will continue to be enjoyed by future generations of Arboretum visitors.
ne of the results of multiple years of plant exploration is the opportunity to find connections in unexpected places. I have been fortunate to travel together on expeditions throughout the United States and Asia. In the fall of 2018, our collaboration continued with an expedition to the island of Honshu, Japan, joined by Steve Schneider (Arnold Arboretum), Todd Roussaville (Polly Hill Arboretum), and Mineaki Arzawa and Tatsuhiko Shibano (Utsunomia University).

Not only did this two-week expedition allow us to visit six locations where we made 58 collections of 55 different taxa, but more importantly, we gained a deeper understanding of the lessons of biogeography by observing closely-related and similar-looking disjunct species, far from their nearest relatives.

An extraordinary aspect of this expedition was observing and collecting species that are closely related to ones that we had seen across China and throughout the U.S. It was fascinating to get first-hand experience with a trio of species, having previously seen the Japanese counterparts only in cultivation.

The expedition initially focused on Nikko National Park, located about three hours north of Tokyo, and on our third day in the field, we came across forked viburnum (Viburnum faxata) growing along the edge of Lake Yuno. With it were massive trees of Japanese arborvitae (Thuja standishii) and ibu false arborvitae (Thujaopsis dolabrata), along with thicker of bright-barked Japanese clethra (Clethraadena). Most of the viburnum’s wide, rounded leaves had heavy insect feeding damage, giving it the Japanese common name of mashikari ("always eaten by insects"). Despite this, the growth habit and leaf shape instantly reminded us of two other viburnums seen thousands of miles away: the eastern North American hobblebush (V. lentoides), and the Chinese counterpart viburnum, V. synonymale. I had first seen the American species in the Smoky Mountains in 2002 and the Chinese one on a 2005 expedition to Gansu Province.

Throughout this expedition, we made a number of other collections of Japanese species that have familiar North American relatives. There are many examples of the North America-Asia pairings, but fewer examples of the North America-Europe-Asia sets of species. An example of the latter occurrence is beech (Fagus), with the familiar American beech (F. grandifolia) of eastern forests, the majestic cultivated European beech (F. sylvatica), and several less horticulturally known Chinese and Japanese species. While collecting at Lake Yuno, we encountered Japanese beech (F. crenata) growing on a small bluff above the lake.

A few days later, we encountered another impressive beech, Fagus japonica, with a height of some 75 feet, at the University of Tokyo Forestry Department Research Station, in Chichibu (west of Tokyo). In the understorey were groves of Japanese pieris (Pieris japonica) and Japanese clethra, and a population of Japanese Stewartia (Stewartia pseudocamellia) perched on a steep hillside, elongated and stretching for light among the competing trees. These species are among the most ornamental and desirable of the numerous plants that have come to our gardens from Japan. Seeing them together provided an opportunity to understand their growing requirements, while simultaneously appreciating their beautiful natural arrangements. A choice garden plant, Japanese stewartia is known for its exfoliating bark, large white flowers, and rich autumn leaf colors.

In contrast to the species diversity of Enkianthus, we made two horticulturally and botanically interesting collections at Wakayama—the wheel tree (Trochodendron aralioides) and Japanese umbrella pine (Sciadopitys verticillata). Both of these are worthwhile as garden curiosities, but they are taxonomically isolated, so it was fascinating to see these evolutionary “orphans” juxtaposed with those that are species rich with close relatives in both Asia and North America.

If seeing is believing, then this collecting trip to Japan certainly brought me true horticultural religion. The cultural and botanical experiences on these expeditions are priceless; and the ability to see plants growing in their natural environment provides a deeper understanding of their horticultural needs, which we can translate into growing them at the Arboretum.
Botany for Beginners -Part III (The Basics of Flowers)

PAMELA OLSHEFSKI, Curatorial Assistant

For centuries, humans have been intoxicated by the beauty of flowers. From poetry, to music and artwork, flowers play an enormous role in our lives. To quote Hans Christian Anderson, “Just living is not enough...one must have sunshine, freedom, and a little flower.”

In botany, angiosperms (flowering plants) are the largest and most diverse group in the plant kingdom. Angiosperms produce seeds enclosed in the ovary of a flower. Flowers play an important role in the botany of plants and are how plants are classified into families.

So now that you have learned how to identify different shapes of leaves in lesson 1 (Seasons, Fall 2018), and how to identify the difference of some common conifers (gymnosperms) in lesson 2 (Seasons, Winter/Spring 2019), it’s time to tackle the all-important lesson of flowers.

We will break down the parts of the flower into four whorls. Each whorl moves from the outermost layer of the flower to the innermost layer. Observing the differences in number, shape, and color of these four parts will help to identify what type of flowering plant you have.

- **Whorl one** is the outermost protective layer of a flower. This layer is known as the calyx and is made up of sepals. In many flowers the sepals are small, green, and almost leaf-like in appearance. However, in the case of some plants like *Cornus florida* (flowering dogwood), the sepals are very showy and often mistaken for petals.
- **Whorl two** is the inner layer known as the corolla. The corolla is made up of the petals of the flower. The flower petals are often showy, colorful, and ranging in size. Petals are a flower’s way of attracting pollinators to the plant.
- **Whorl three** is the inner layer made up of the stamens. The stamens contain pollen and are considered the male reproductive flower part. The stamen is made up of the stalk, known as a filament, and the top, known as the anther. The anther is the pollen-bearing source.
- **Whorl four** is the innermost whorl of the flower. It is known as the pistil which is the female reproductive flower organ. This complex organ typically consists of the stigma, style, and the ovary.

Illustrations by Andikó, Courtesy University of Pennsylvania Press

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Catching Up on Tree Care

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

At the risk of stating the obvious, as an arboretum, our primary function is to serve as a museum of plants that focuses on trees and shrubs. And, as curator, my role is to oversee the composition, care, and use of these living collections. Of the 11,985 accessioned plants throughout the Arboretum (not including those in the greenhouse), 4,127 of these are classified as trees, ranging from small, recently-planted seedlings, to vigorous teenage and maturing trees, all the way to our impressive veteran specimens. Of these 4,127 trees, 63% have been planted since 1980 and approximately 50% of them have been planted in the past 25 years.

As a museum, our tree collection is insured, and based on a valuation that we conducted in 2013, they have a total estimated value of $25 million, making them one of the top assets of the Arboretum. As with any asset, they require care as they age, and it is the gap between our existing resources and our overall maintenance needs that is the deferred maintenance for tree care. As an example, if we were able to spend 1% of the total value annually on the care of this collection, then we should be spending $250,000 each year on tree care. The good news is that we have a full-time staff member plus an intern, and we are also able to contract out for arboriculture work throughout the year. This budget, however, is significantly less than $250,000, so as our annual maintenance budget lags, the deferred maintenance continues to accumulate.

Even though we are able to perform a tree work in-house and with the help of contractors, there is still a backlog of work that needs to be completed. Our next step is to put a value on this backlog of deferred work. We currently have a proposal to assess all of the trees in the collection by first, measuring the sizes of all of the trees and developing a ranking based on the potential hazard that they pose, and then estimating tree longevity and developing maintenance recommendations. We will need to raise funds to complete this two-phased assessment, and once these are secured, we can move to develop a comprehensive tree management plan.

Simultaneously, we are advancing our veteran tree care work, in other words, focusing on the management of our signature specimens. The loss of the Bender oak and slow decline of the Engler beech served as a wake-up call to carefully monitor our existing veteran trees. A step towards this was an arborist “round-table” in January, during which a group of internal and external experts came up with recommendations for our 12 top trees. Based on this, we are moving ahead with work on seven of them and plan to continue the round-table process next year.

Our tree collection is the foundation of the Arboretum and is a fundamental aspect of our mission. It is essential to preserve, maintain, and grow our collection in order to achieve the goals of research, horticulture, and education. With continued efforts to focus and improve our arboriculture we can ensure that this resource continues for future generations.
Growing the Garden Railway

Since 1998, the Garden Railway has been a favorite at the Arboretum and a mainstay for summer and holiday visitation. While visitors to the exhibit can’t miss the trains and buildings made of natural materials, the surrounding landscape is often overlooked. This carefully maintained space isn’t merely a backdrop for the trains and buildings, but a unique and special garden unto itself.

Chief Horticulturist Vince Marrocco has been overseeing this garden since 2015 when Horticulture Section Leader Iana Turner retired. The area includes a mixture of annuals, perennials, and woody plants, all carefully placed to complement the buildings and tracks. When he first took over the site, Vince saw an opportunity to take the landscape in a different direction and envisioned integrating the buildings into the garden in a more naturalistic way. While the buildings (which have been created by the firm Applied Imagination since the exhibit’s inception) are works of art, Vince aimed to shift some of the focus to the surrounding gardens. Planting in this area involves “miniscaping,” or using plants that are in scale with the miniature buildings.

Some sources sell plants specifically for this purpose, while sometimes dwarf varieties of common plants are used. Observant visitors may notice a groundcover of creeping thyme in front of one of the buildings that creates the illusion of a lawn. Finding sources for these “tiny plants” can be challenging, and just like in your own backyard, the plants often perform too well, growing beyond their intended scale. Plants are pruned often or have to be replaced when they outgrow the space.

All of these plantings are sited to complement the village of miniature Philadelphia-inspired buildings that are augmented each summer with seasonally themed buildings (this year’s theme is Great American Lighthouses). Over the years, many of the original buildings that had been consistently maintained reached the point where they needed to be replaced. Thanks to generous funding from donors, new versions of several houses have been purchased and installed. Applied Imagination returns each spring with the season’s themed buildings and assists in setting up the display as well as with maintaining the tracks, bridges, and trestles.

While Vince also gets help from interns and volunteers, he likes to install each of the buildings himself. He mounts each building onto a wood base, leveling it into the ground, while using various rocks and stones to stabilize each building until it is perfect.

In addition to being used for stabilizing buildings, rocks and stones of various sizes serve as accent pieces and help create the appearance of a natural landscape. Vince maintains that it is this attention to detail that makes the display so special, all the way down to the rocks—and he should know. His fascination with rocks began when he helped rebuild a rock wall at the Royal Horticultural Society in London in 1990. When Applied Imagination first installed the exhibit in 1998, they gathered rocks and stones found around the Arboretum when creating the display. Since then, Vince has painstakingly reorganized the garden, for instance, gathering all the red shale he could find and using it to create a more realistic, natural-looking tunnel. The replica of the Arboretum’s Fernery is now surrounded by grouping of orange quartz which Vince used to create consistency in color and angles.

So on your next visit to the Garden Railway, take a moment to appreciate this meticulously maintained landscape, from the tiny plants, “meadows” and “lawns,” all the way down to the rocks. As Vince pointed out, “Often when we plant a tree, we think ‘This is going to be beautiful in 10 years.’ The Garden Railway landscape though, is one area in the Arboretum where we strive for instant gratification.” It’s safe to say that visitors are never disappointed.

The World According to Vince Marrocco

While serving as Chief Horticulturist and maintaining the Garden Railway is a full-time job in itself, Vince Marrocco is also the Arboretum’s rosarian, overseeing the design, planting, and care of the rose garden. Vince first came to the Arboretum as an intern in 1989. After a stint at Pepsi in New York in the early ’90s, he returned to the Arboretum in 1993 as a Horticulture Section Leader.

He was named rosarian in 2015, and at the same time assumed responsibility for the Garden Railway. Having watched the rose garden evolve over time, he was excited to manage this iconic Arboretum landscape. In the 1990s, a mixed planting scheme was introduced to provide more visual interest when the roses were not actively blooming. Roses planted at that time were chosen primarily for their disease-resistance and low maintenance characteristics. The downside was that most of the roses lacked fragrance. Today, with advances in propagation, more roses are being produced that are both disease-resistant and fragrant. “I want visitors to know that they are in the rose garden even with their eyes closed,” Vince says.

After more than 26 years on the job, maybe it’s his humor and sharp wit that keep Vince going, but he says he loves it more than ever. “I am so lucky to work in this beautiful place.” He laughs when asked what his favorite part of his job is. “Believe it or not, I love to edge. A garden with a beautiful, crisp edge hides the imperfections within the bed.”

In addition to being a Horticulture Section Leader, Vince has served as the Arboretum’s rosarian, overseeing the design, planting, and care of the rose garden. He is highly respected for his attention to detail and his ability to create a beautiful, natural-looking display. His dedication to the Garden Railway and the rose garden has earned him a place as one of the most respected horticulturists in the field.

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“Vince has made great strides in raising the level of horticulture in the Rose Garden and the Garden Railway. He is remarkably hard-working and the quality of horticulture and his attention to detail are evident in the level of presentation he brings to these highly visited garden areas.”

— Anthony Aiello, The Gayle E. Maloney Director of Horticulture and Curator

PHOTO: PAUL W. MEYER
The Morris Arboretum's mission has always championed staff development and encouraged and supported opportunities for staff to grow. There are two endowments that fund staff development, and a robust program that enables individuals across departments to pursue their professional goals. Staff have opportunities to attend conferences and symposia, seek higher education, and participate in plant collecting, staff exchanges, and international travel.

Many staff have achieved their graduate degrees at Penn while working full-time. Three current horticulturists have received, or are working towards, their Masters of Environmental Studies. While the Arboretum’s endowments do not fund these endeavors, the tuition benefit offered through the University of Pennsylvania is a valuable resource for all staff.

Staff in the Horticulture Department are encouraged to pursue plant collecting as one way of realizing the Arboretum's research goals. In 2017, Chief Horticulturist Vince Marrocco collected plants in Azerbaijan. More recently, the McCauley Natural Areas Horticulturist Jess Slade went to North Carolina on a plant collecting trip, joining representatives from a number of other institutions, including Longwood, Mr. Cuba, and Natural Lands. Plant collecting is an incredible way to see native plants in their habitats and create collections to add to the Arboretum’s portfolio.

The Morris Arboretum also supports staff exchanges and travel opportunities for staff and foreign colleagues alike. Botanical Scientist Cindy Skema will be traveling this summer to complete work researching the evolutionary history and systematics of an understudied group of tropical plants, the Dombeyioidae (a subfamily of Malvaceae). The Arboretum is funding her travels to Paris to work at the natural history museum (Muséum National d’Histoire Naturelle) with her colleague Dr. Timothée Le Péchon of Meise Botanic Garden. Cindy will maximize her collaboration to develop new research skills, particularly new lab techniques, which she'll apply to the work on the flora of Pennsylvania.

Assistant Director of Continuing Education & Penn Student Outreach Bryan Thompson-Novak benefited from professional development through a combination of funding from Morris Arboretum and the Chaunceyder Scholarship (of which he was a recipient in 2018). He completed a week-long executive education course in 2018 at the Kellogg School of Management at Northwestern University, where he learned about data analytics. In April he visited Oxford, Cambridge, the Royal Horticultural Society, and the Royal Botanic Gardens, Kew. He’s planning to parlay this knowledge and utilize it at the Morris Arboretum.

Lastly, several horticulture staff have benefited from a staff exchange program the Morris Arboretum has with Windsor Great Park, The Royal Landscape Exchange is a reciprocal staff exchange between the Arboretum and the Royal Landscape in Windsor, England. Now in its 7th year, the exchange allows horticulturists and staff from both institutions to travel and work alongside each other, study plant collections, share information and histories, learn about different tools and techniques, and immerse in another culture, climate, and landscape. Louise Clarke was the first horticulturist from the Morris Arboretum to go in 2012, after which I went in 2014, and most recently Jess Slade went in 2018. For me, it was a paradigm shift learning their management practices, planting methods, and immersing in another culture.

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Travels like these are important ways of staying abreast of advances in the field. There is much to be gained from an exchange with another institution. Sharing knowledge is key, both for Arboretum staff to share what they’ve learned, and for disseminating the wealth of knowledge that the Morris Arboretum has with other institutions. These opportunities are about branching out, gaining perspective, and recharging one’s batteries in order to bring that energy back to the Arboretum.
**GrowingMinds**

**Fun, Engaging Classes for Kids!**

**Insect Investigators (Ages 6–10)**

Saturday, July 20, 11:30 a.m.–1:30 p.m.

Members: $25, Non-members: $30

People who study insects are known as “entomologists” and the work they do is very important to people and the environment. Join us as we learn what it means to be an entomologist, what tools they use, and how to identify some of our insect friends at the Arboretum. This class will begin with a classroom session followed by hands-on insect exploration in the natural areas of the Arboretum. Please have your children dress in clothing appropriate for hiking in potentially wet and muddy areas. Long pants are suggested. Feel free to bring your own butterfly nets if you have them!

**BioEYES: Your Watershed, Your Backyard (Ages 7–12)**

Saturday, July 27, 10:30 a.m.–12:30 p.m.

Members: $30, Non-members: $35

Come learn about your local watershed and the basic principles of environmental science in the Arboretum. In this class, kids will participate in a citizen science study of water quality via water chemistry testing and observations of zebrafish embryos, a model organism used in current research. BioEYES is a non-profit partner of the University of Pennsylvania which provides K through 12 students hands-on, inquiry-based learning in fun and engaging ways using zebrafish and STEM curriculum. Please have children dress for outdoor hiking on trails and wet areas. Parents should park in the meadow to the left of the entrance kiosk. The instructor will check in students and lead them to the wetlands area.

**Art Explorations in Nature (Ages 3–5)**

Four Thursdays, August 1, 8, 15, 22, 10:30–11:30 a.m.

Members: $85, Non-members: $100

Encourage your child to engage with the outdoors through discovery and creativity in this four-week art series. We will observe the natural world, find joy in the process, and create nature-inspired art. From painting to printing to constructing, children will experiment with a variety of natural materials to develop self-expression and fine motor skills. Each session will include a brief exploration of the Arboretum, a story or an introduction to the weekly theme, and time for making their own art.

**Exploring Butterflies and Moths**

Saturday, August 3, 10:00–11:30 a.m.

Members: $25, Non-members: $30

Families can join naturalist Pam Newitt for a morning of deep exploration. After learning about this fascinating and beautiful group of insects, we will head outdoors to observe and catch some of these jewels that feed on the flowers of the Morris Arboretum. All butterflies and moths caught will be released unharmed. Please dress for the weather: a hat, sunscreen, and insect repellent are suggested. Feel free to bring your own butterfly nets if you have them!
Where Will Your Card Take You This Summer?

Your Morris Arboretum membership card can take you places far beyond our garden gates. With your valid membership card you can receive free or discounted admission to more than 320 gardens across North America through the American Horticultural Society’s Reciprocal Gardens Program (RAP). For a complete listing of participating organizations visit: ahsgardening.org/gardening-programs/rap. If you wish to have a hard copy of the RAP Directory, they are available for purchase at The Shop for just $2.

The guidelines below are taken directly from the American Horticultural Society’s website to help you plan a visit to a participating garden:

- We recommend that you call all gardens prior to your visit. Some gardens have exclusions for special events or exhibits, or if you live within 90 miles of the garden*, etc. Each garden has its own unique admissions policies and hours of operation.
- Remember that the institutions you visit rely on admissions and donations to maintain their collections and gardens for all to enjoy. Please support them by visiting their gift shop or making a contribution.
- *The 90-mile exclusion allows gardens to exclude members of other gardens within 90 miles of their location from receiving their reciprocal benefit(s). Please contact the garden you plan to visit to inquire about this guideline.

Tributes & Memorial Gifts

The Morris Arboretum is grateful to the following donors who made tribute and memorial gifts between November 1, 2018 and March 31, 2019.

In recent months there have been an extraordinary number of gifts made in honor of Paul W. Meyer upon his retirement. Thank you to the many members and friends who have paid tribute to Paul with a contribution. In order to present a complete list, donors will be acknowledged in a future issue of Seasons.

In honor of Larry Arrigale’s 60th Birthday
Lawrence M. Arrigale & Thomas H. Keel
Miriam & Brian Boland

In honor of Henry Cecil
Lee Laden
In honor of Sandra Clapham
Robert Clapham

In memory of Priscilla Kate Colasu
Julian & Frank Pondo

In honor of Harriet Day
The Wonderful Women Who Walk
In honor of Susan & Moe Feldman
Donna Gannia
Suzannah McQuillan
Anonymous

In memory of John J. Gatti
Sabina Gatti
In memory of George Z. Heimbach
Philip Greenwald

In memory of Mary Randall Hopkins
Barbara & John Dundon
Patricia Fischer
Donna Hecker
Sarah H. Kierzkowski
Tracey Miles
Candace B. Richards
Deborah Schaf
Anna Cose Toogood

In memory of Diane Krogle
Jodi Harris & Wayne Gammon

In memory of Oliver Biddle
Lee Laden
In memory of Elizabeth Bates Gagné
Breenan
Pamela & W. Roderick Gagné

In memory of Peter Buttenwieser
Terry Marek
In memory of Judith Campbell
Lee Laden

In honor of Lavina B. Carroll
J. Douglas Carroll
In memory of Evelyn Sholtes Kritchewsky
Amy Campbell
William Kratzke

In memory of Charles W. Lake
Maryallas Atkinson
Brian Dvorak

Cecilia & Thomas Friend
Diane & Charles Gross
William Jacobs

Theresa Kuth & family
John V. McGrory
Constance Mueller
Gretchen Pohrero

In memory of Joan F. McCrean
James C. McCrean

In memory of Juan N. McCue-Berger
Linda D. Berger

In memory of Joyce Munro
The Outdoor Gardeners

In memory of Linda Match
Wonderful Women Who Walk
In memory of Susan W. Peck
Nancy & George Peck

In memory of Lucille Roland
Sharon & J. Christopher Miller

In memory of Joan Kates Colan
Robert Clapham

In honor of Sandra Clapham
Lee Laden
In memory of John J. Gatti
Sabina Gatti
Anonymous

In memory of Joan F. McCracken
Gretchen Pohrero

In memory of Joan F. McCracken
Gretchen Pohrero

In memory of Susan W. Peck
Nancy & George Peck

In memory of Lucille Roland
Sharon & J. Christopher Miller

In memory of Oliver Richard Rothman
Lee Laden
In memory of Oliver Richard Rothman
Lee Laden

In memory of Donald Scales
Donna Hecker

In honor of Helen Stephen
Sandra Stephen
In memory of James Francis Wallace
Lee Laden
† Decedent

June 7, 2019
Moonlight & Roses

It’s not too late to reserve a space at the most popular garden party of the year! Moonlight & Rose, the Morris Arboretum’s annual fundraising gala, begins with cocktails and hors d’oeuvres in the Rose Garden at 6:00 p.m., followed by dinner and dancing in the fabulous moonlit tent. The Morris Arboretum is delighted to honor Mary and Richard Graham and The Haverford Trust Company at this year’s event. Sarah Salmon and Sally Gendler are co-chairing, along with Edith R. Dixon as honorary chair. Reservations are limited and space is very limited.

Register no later than May 29. Visit morrisarboretumgala.org for more information.

The Shop for just $2.
**JUNE**

**Early Bird Openings Saturdays & Sundays, 8:00 a.m.**
Start your day with an early morning visit to Morris Arboretum. The garden opens at 8:00 a.m. on Saturdays and Sundays through September.

**Saturday Morning Live Tour: Small Trees for Small Spaces Saturday, June 1, 11:00 a.m.**
Join a guided walking tour to learn more about the Arboretum’s smaller specimen trees that make a big impact. These trees have many special features, such as interesting form, spectacular bark, and great flower and leaf color. Find one that will pop! in your garden.

**Sunday Regularly Scheduled Tours Sundays, April–October, 11:00 a.m.**
Meet a knowledgeable guide outside the Shop/Widener for a unique tour of the Arboretum. Tours will be designed around the interests of the attendees. No reservations are required.

**Late Night Wednesdays**
Garden open until 8:00 p.m., June-August.

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**Organic Gardens Small Tour**
Saturday, June 1, 10:30–11:00 a.m.
Join us for a walk and engaging reading sessions with local librarians. Each session is tailored to the changing seasons and complements the natural setting of the Arboretum. Storytime is held outdoors in nice weather, at the Outdoor Children’s Classroom, next to the Widener Visitor Center. In the case of inclement weather, Storytime is held in the side tent or classroom at the Visitor Center.

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**JULY**

**Late Night Wednesdays**
See June for details.

**Early Bird Openings Saturdays & Sundays, 8:00 a.m.**
See June for details.

**Saturday Morning Live Tour: Hidden Gems Saturday, July 6, 11:00 a.m.**
Join knowledgeable guides for an all new walking tour highlighting garden features not often discovered on an average visit. These garden gems include a combination of structures, sculptures, spaces, trees, and vistas. Tours begin at Widener Visitor Center.

**Summer Evening Sculpture Tour Wednesday, June 12, 6:30–7:30 p.m.**
Join an experienced guide to discover fine examples of public art that complement the Arboretum’s landscape and plant collection. Tours begin at Widener Visitor Center.

**Founders’ Summer Ice Cream Social Thursday, July 11, 6:30–8:30 p.m.**
Celebrate the birthday of Arboretum founder, John Morris, with ice cream, music, and merriment. Enjoy the a cappella stylings of the Late Entry Barbershop Quartet. Refreshments included with ticket price. Member adults $5, member children (3-17) $2; non-member adults $19, non-member children $10. Visit morrisarboretum.org for tickets.

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**AUGUST**

**Summer Evening Hidden Gems Tour**
Saturday, July 13 & Sunday, July 14
Look for your favorite train characters among the whole steam engine gang from Sodor as they take over the railway for the weekend.

**Saturday, August 3, 11:00 a.m.**
Saturday Morning Live Tour: Hidden Gems
See June for details.

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**SEPTEMBER**

**Early Bird Openings Saturdays & Sundays, 8:00 a.m.**
See June for details.

**Thomas the Tank Engine & Friends at the Garden Railway Saturday, September 7 & Sunday, September 8**
See July 13 for more information.

**Saturday Morning Live Tour: Great Trees Saturday, September 7, 11:00 a.m.**
Stay cool under the canopy of some of the greatest trees at the Arboretum. Tours begin at Widener Visitor Center.

**Sunday Regularly Scheduled Tours Sundays, April–October, 11:00 a.m.**
See June for details.

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**MORE Hidden Gems Tour Saturday, September 28, 1:00–4:00 p.m.**
See July 13 for more information.

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**Korean Culture Day Saturday, September 28, 1:00–4:00 p.m.**
Celebrate traditional and modern Korean culture through music, food sampling, and garden tours that highlight Korea’s native plants.
Visit The Shop this Summer

Who doesn’t love a good microbe? The Shop is full of icky, slimy, colorful treasures that provide learning while also having fun! Cuddle up to a giant plush mosquito, complete with zipped pouches of disease and fever that this cute guy would like to share with you. You won’t forget that bug repellent next time, will you?

Did you ever make a rainbow with the solar system? You can now. Local Philly company TWEE created a beautiful box of the solar system made from chalk for more learning fun!

There are also grow kits, bug abodes, nature magnifiers, slime, jars of ick, growing crystals, and so much more! Pick up a book full of outdoor and indoor ideas to quell those end of summer “I’m bored!” chants.

Even summer showers won’t keep you inside because the kids will be singing in the rain while hoisting one of the many fun umbrellas available in The Shop. We even have an umbrella that changes color when it gets wet! So stop in The Shop on your next visit for everything cool for summer!