Arboretum Launches Ever Green Campaign

In April, the Morris Arboretum publicly launched a new fundraising campaign—Ever Green. This campaign has been designed to enhance the care of the gardens, historic features, and living collections, to improve both intellectual and physical access to the garden and, most important, to advance teaching and plant science initiatives.

The Ever Green Campaign will strengthen the financial foundations of the Arboretum while ensuring that past gains are protected and future progress propelled. The quiet phase of the campaign has been underway, and already more than $20 million has been raised toward the $36 million goal. For example, The Moses Feldman Family Foundation has established an endowed chair for the the Director of Facilities, which will help in preserving and caring for the Arboretum’s historic facilities. And this past spring, the Log Cabin, which is more than a century old, received a major renewal through a gift made in memory of George Brantz by his family.

Looking forward, plans are in place for improvements to the Rose Garden. Similarly, the heat distribution system in the Arboretum’s exquisite Fernery is in need of replacement. While both of these areas received major renovations more than 20 years ago in the mid-1990s, further renewal is now needed.

The Morris Arboretum is so much more than its gardens and structures. These facilities provide the setting for the education and research programs central to our mission. However, the Ever Green Campaign will also help to advance these programs. For example, a major renewal through a gift made in memory of George Brantz by his family.

Another important campaign goal is to provide broader, public access to the garden via public transportation, and plans for a new facility would be just steps from SEPTA bus stops, and would also provide easy access to those living in neighborhoods nearby.

And finally, successfully completing the Ever Green Campaign will ready the Arboretum to advance planning for an Education and Research Center at Bloomsfield Farm. The Arboretum is desperately short on space for classrooms, laboratories, a library and a herbarium, and this new facility would be essential to both current and future programming.

As I look across the Arboretum’s arc of progress over the past 40 years, we have held a long range vision while defining incremental steps to achieve that vision. The Ever Green Campaign continues in this tradition as it will preserve past achievements while achieving the Arboretum forward toward larger, visionary goals. Every gift to the Arboretum, both large and small, counts toward our campaign goal. Please join me and other Arboretum leaders in advancing this ambitious agenda.
Experience *Time in the Garden*

Time is the essence of gardening and the natural world. Whether counting tree rings or planting seeds, the passage of time marks the life of the garden. This summer, experience *Time in the Garden* in new and different ways as the Morris Arboretum presents an indoor and outdoor exhibit. Talented artists were invited to submit ideas and samples of their work, and 18 artists were then selected for their unique and inspiring interpretation of the theme.

Many pieces were created specifically for the exhibit. Visitors will see a variety of works including beautiful ceramic tiles made for outdoor display, garden sculptures made with recycled parts, interesting works in metal, and cast stone oversized leaves.

Inside, at the Upper Gallery of the Widener Visitor Center, six artists, including two photographers and four painters, will exhibit their work, each bringing a distinctive, personal perspective to the *Time in the Garden* theme.

How Do Plants Tell Time?

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

Plants of all shapes, sizes, and types have remarkable mechanisms that have evolved to tell time, and a quick look around the garden provides many examples. The best-known example is tree rings, those annual concentric accumulations of wood that allow for easy understanding of the age of a tree and the growing conditions during its life. Growth rings may vary from year to year depending on light, temperature, rainfall, and length of the growing season. A branch of botanical study known as dendrochronology examines historical patterns of climate change through growth rings of trees. By looking at the change in a long-lived species, you can gain an understanding of environmental patterns over the life of an individual or group of trees.

The duration of a plant’s lifespan has enormous horticultural implications. Annuals complete their full life cycle from germination to seed production in only one year. Think of garden fruits and vegetables such as tomatoes, zucchinis, and watermelons, or annual flowers such as marigolds, cosmos, and morning glories.

One of the most fascinating groups of plants are biennials, those that take two growing seasons to flower and complete their life cycle. In the first year, they produce leaves, a short stem, and send down roots, before going dormant and flowering in their second season. That rosette of leaves you see on your foxglove or hollyhock seedlings this year will send out a flowering stem next year.

The most familiar garden plants are generally perennials, those that last for many years, flowering and fruiting each year. We generally think of perennials as herbaceous plants—think of irises, asters, daylilies, bleeding hearts, and a host of others—but trees and shrubs are also perennials. One of the most fascinating aspects of flowering perennials is their seasonality. Although the specific date of flowering for any species can vary among years, there is generally a reliable sequence based on day length and temperature. For instance, vernal witchhazels (*Hamamelis vernalis*) are the first to bloom in the winter, followed by the hybrid and Chinese witchhazels (*H. x intermedia* and *H. mollis*, respectively). As spring ensues, there is a familiar progression among the showy spring-flowering trees such as dogwoods (*Cornus*), magnolias (*Magnolia*), crabapples (*Malus*), and flowering cherries (*Prunus*). Flowering cherries provide a perfect example of the interplay between biological and environmental conditions, and if you have ever tried to visit Washington D.C. to see the flowering cherries, then you understand how bedeviling it can be to get the timing exactly right.

We shouldn’t forget autumn color in deciduous plants, and the sequence that it follows, again based on a combination of biological and environmental factors, with temperature and day length playing roles. Again, the timing can vary among years, but there is a sequence to fall color. As early as the end of August, I begin to see the first hints of color among the flowering dogwoods (*Cornus florida*), followed by the progression of sugar and red maples, oaks, and finally Japanese maples brightening things in early November.

Many of the sequences and changes that plants undergo throughout the year provide their own rhythms, and although you may not be able to set your watch by them, you can almost always turn the page of the calendar based on their timing.
What Time is It?

DIR. TIMOTHY BLOCK, Director of Botany

What does sugar have to do with telling time? A plant can give you the answer to that question! It may not be quite that simple, but plants do have a way to sense the time of day. Plant scientists at the University of Cambridge have shown that plants, like humans and other animals, have circadian clocks to regulate daily rhythms of behavior and metabolism, and sugar concentration is the key.

Plants turn carbon dioxide and water into sugars by capturing light energy in the process of photosynthesis, and it turns out that those sugars are a key part of how plants keep track of the time of day. As you would expect, the rate of photosynthesis varies greatly throughout a 24-hour period. Although plant metabolism doesn’t stop at night, photosynthesis does. In the morning when light becomes available, photosynthesis increases until the peak of sugar production is reached four to eight hours after dawn.

The actual regulation of circadian rhythms in plants is accomplished by expression of a gene called PRR7 (Pseudo-Response Regulator 7), but the expression of PRR7 is controlled by the concentration of sugars in plant cells. By depriving plants of carbon dioxide so photosynthesis could not proceed, the researchers at Cambridge were able to show that circadian rhythms in the plants could be maintained by adding sugars to the growth medium, even when the plants are grown in complete dark.

Since proper resonance between a plant’s internal clock and the external light-dark cycle is necessary for optimal growth, it was shown that plants, like humans and other animals, have circadian clocks to regulate daily rhythms of behavior and metabolism, and sugar concentration is the key.

References:

Time in the Garden with John and Lydia Morris

A board member and garden historian, Elizabeth McLean stated in the May-June 1987 Morris Arboretum newsletter, John and Lydia Morris’ summer home, Compton, “has been described as a perfect example of the Victorian landscape garden.” Much of the sibling’s time in the garden was spent building and maintaining these Victorian elements for their own personal enjoyment and for the horticultural information gained and shared.

By all accounts, John Morris was the garden architect, directing his many concepts by hiring companies and personnel to create the buildings and themed gardens throughout the estate. One of his first construction endeavors was the greenhouse, built in 1894 by Hitchings & Co. Unfortunately, it burned down three months later while the first head gardener, Patrick Finnerghy was in charge. John replaced both—a new greenhouse within three months and a new head gardener, Conrad Ohnemuller, in 1895. This hire lasted two years when Ohnemuller resigned and John made arrangements for a new head gardener, Frank Gould, who held the position until he retired in 1919.

John and Lydia were traveling extensively at this time, exploring Europe, India and Asia. These journeys abroad, especially in the newly opened eastern world, influenced their garden aesthetic as evidenced by the plants and gardens put into place after their trips.

Back at Compton, John continued his innovative work in the garden. A well-known plantsman, he bought a label-making machine to map and label his trees and shrubs. He also hired the Japanese landscape architect, Y. Muto. The Hill and Water Garden, 1905, and the Japanese Overlook, 1912, were created “to the suggestion” of John Morris by Muto. As written by E.C. Jellett, in his 1914 book, Germantown Gardens and Gardeners, Compton was referred to as a “Japanese garden of the highest type and among local gardens it is first.”

John died in 1915, and his passing brought about changes to the garden. Lydia’s philosophy of gardening—the beauty versus the scientific—as relayed by Margaret Medlar, the daughter of the fourth head gardener, John Tonkin, was different from her brother’s. Medlar recounted that she believed Frank Gould left the job because he did not appreciate Lydia’s point of view as he did Mr. Morris’. Medlar went on, “As William Russell,” Lydia’s secretary, “says, she wanted a lady’s garden and that’s all she wanted.”
In March, Executive Director Paul Meyer received the 2018 Arthur Hoyt Scott Medal for his outstanding national contributions to the science and the art of gardening. The Scott Medal and Award was established in 1929. Paul was lauded for transforming the Morris Arboretum into an internationally acclaimed garden, multiplying its visitation, putting it on solid financial footing, creating its internship program, and developing its plant exploration program.

In presenting the award, Bill Thomas, Executive Director of Chanticleer and 2017 Scott Medal Recipient (pictured above with Claire Sawyers, Director of the Scott Arboretum of Swarthmore College), deemed Paul “horticultural royalty” and truly deserving of this crown. “Throughout his 40-year career, Paul has made outstanding regional, national, and global contributions to the science and art of gardening. Paul has led the renaissance of the Morris Arboretum of the University of Pennsylvania, making it an internationally significant institution known for its collections, aesthetics, education, and research. He has promoted collaboration and cooperation among international as well as local organizations, he is a world leader in plant exploration, and has been instrumental in preserving open space,” Thomas said.

In receiving this prestigious award, Paul pointed to others who share the credit. “This recognition would not be possible without the hard work of the Arboretum’s staff, board, and volunteers whose invaluable contributions enable Morris Arboretum to fulfill its role as a premier public garden.”

John and Lydia Morris originally built the log cabin as a garden retreat in 1908. They used it to entertain friends, and Lydia spent many hours on the porch enjoying the stream and woodlands. With its river-stone cobble chimney, the cabin is similar in style to those often built in the Adirondacks. The building was cool in the summer, and provided the warmth of a fireplace in the winter. Today, the serene location with its adjacent babbling brook continues to delight visitors, but the shady, damp environment can result in faster than normal deterioration to the structure.

This spring, many deteriorating logs, especially on the lower courses and around the perimeter of the deck were replaced using Canada hemlock that was harvested in northern Michigan. The work was completed by Intensified Wood Restorations of Munising, MI, a firm that specializes in environmentally friendly log home restorations. Previous renovations were completed in the mid-1990s, but more extensive work was needed this time. Additional renovations including a new interior floor and new exterior railings will be completed this summer.

This restoration is generously supported by Joan N. Brantz in loving memory of her husband, George M. Brantz (pictured below).

"People need as much care and attention as plants. Paul masterfully provides leadership, support, and example, and does it with generosity, grace, and good humor." — Peter del Tredici, The Arnold Arboretum of Harvard University and 1999 Scott Medal Recipient

"Paul led the way with [the Morris Arboretum’s] LEED Platinum Certified Horticulture Center featuring geothermal wells, a green roof, solar energy, water cisterns, and recycled materials. While moving forward with so much innovation, Paul has also respected the rich history and past of the Morris Arboretum.” — Holly Shimizu, Emeritus Executive Director of the US Botanic Gardens

"Paul seems happiest when sharing his knowledge with others. Clearly, it’s in his bones.” — Patrice Sutton, Assistant to the Director
MAM Project Update

ANNE BARBER, Research Project Coordinator

The Mid-Atlantic Megalopolis (MAM) Project has entered its second year of funding from the National Science Foundation. This project aims to digitize herbarium specimens as a means to better characterize the Mid-Atlantic flora and understand how it has changed with urban growth. This year, we’ve added a 12th partner, the Penn State Herbarium, which has already begun contributing some of the 64,000 records they aim to add to our online database, bringing our expected project total to more than 800,000 records. Their records will add data for the flora of central Pennsylvania and the Susquehanna Valley, filling a hole in our growing body of knowledge of the flora from the greater Mid-Atlantic area.

Last February, we invited volunteers to celebrate Charles Darwin’s birthday with trivia, cake, and record transcription. This event further engaged the community in citizen science and strengthened the relationship between project staff and volunteers. To date, volunteers have transcribed at least 50,000 records for the project—a contribution for which we are so grateful and very excited about. We’re looking forward to continued volunteer engagement for the remainder of the grant. (If you are interested in joining our volunteer team, please contact me at annebar@upenn.edu.) One memorable trivia question from the event is shown below. See if you can think of the right answer.

Which of the following is not the title of a book written by Charles Darwin?

a. The Formation of Vegetable Mould, through the Action of Worms
b. The Descent of Man, and Selection in Relation to Sex
c. Consanguinity, and the Breeding of Rabbits
d. The Expression of the Emotions in Man and Animals

This summer, I will be traveling to New Zealand to present at the 33rd Annual Society for the Preservation of Natural History Collections (SPNHC). This year will be the first joint meeting between SPNHC and Biodiversity Information Standards (TDWG), bringing together expertise in natural history collections management and biodiversity informatics. The meeting will be held at the University of Otago and the Otago Museum in Dunedin. I will present findings from the MAM Project’s development of new imaging standards that will benefit an international community of herbarium digitization professionals. I’m honored to represent the Morris Arboretum at this conference.

Overall in the project, we are about halfway finished with imaging and about a third of the way finished with transcription. During our first year, we encountered some challenging technical difficulties that put us a bit behind schedule. However, we’ve been making considerable progress since then and have been fortunate to have some really incredible team members that continue to push the project forward. (P.S. The correct answer to the quiz question is d.)

Champion Transcriber Receives Gift for Effort

After completing the online transcription of more than 35,000 herbarium specimen records, Ann Rhoads, retired Morris Arboretum botanist, was given a copy of Andrea Wulf’s Founding Gardeners as a gift of thanks from Cindy Skema, lead principal investigator of the MAM Project and Morris Arboretum botanist.

Photo: Paul W. Meyer
Morris Arboretum
A source of research and renewal that benefits our community and our world

Morris Arboretum is a leader among botanical gardens—as the comprehensive source of information on Pennsylvania plants, as a player in the effort to digitize the documentation of flora worldwide, and as a sensitively maintained oasis reflecting a healthy natural world. The Arboretum is an economic driver and cultural center, with programming that engages children, students, professionals, and Greater Philadelphia as a whole.

Ever Green will help us to preserve and enhance the Arboretum, broaden access to all of our resources, and support the expansion of our botanical and horticultural research efforts, which will continue to shed light on changes to the environment.

campaign PRIORITIES

Cultivate the Garden

to preserve historic Arboretum features, tend the living collection, and enhance visitor amenities.

Lead Research Initiatives

with endowment funds that support the professional, scientific study of plants, modernize record-keeping, and grow understanding of environmental changes and their impacts on the world.

Improve Public Access and Inclusion

with a pedestrian entrance on Germantown Avenue, expanded outreach, educational programs for underserved students, and the establishment of a named endowment for the Director of Education and Visitor Experience.

“A gift to the Morris Arboretum supports research and education that touches preschools, K-8 and high schools, colleges, and environmental professionals—which in turn enhances our entire community and beyond.”

— Paul W. Meyer, the F. Otto Haas Executive Director, Morris Arboretum

MORRIS ARBORETUM BY THE NUMBERS

13,000+
TREE & PLANT SPECIMENS

5,000+
school children visit annually

Plants from
34 COUNTRIES
represented in the living collection

140,000+
visitors each year

92 Acres
of beautiful public gardens

Leading efforts to digitize
700,000 plant specimens from the Mid-Atlantic urban corridor

everGREEN

Strengthen Our Roots, Ensure Our Growth
exemplary RESEARCH

The Arboretum recognizes the urgency of understanding biological processes at work in plants in an urbanizing environment. The Arboretum leads the Mid-Atlantic Megalopolis Project, a multi-state, multi-institutional effort, funded by the National Science Foundation, to digitize more than 700,000 herbarium specimens from 11 universities, state agencies, arboreta, museums, and botanical gardens in the northern corridor from New York to Washington, D.C. The resulting data will lead to unique opportunities to study the impacts of urbanization on mid-Atlantic flora.

exemplary OUTREACH

For school field trips, few destinations can rival the lasting impact of a visit to the Arboretum. And for children with little access to green spaces and scarce resources in their schools and communities, the Arboretum can be pure magic. New efforts to provide free access—including transportation and materials to visiting Title I school groups and Explore—the Arboretum’s signature summer youth outreach program for underserved children grades 6-9—help to extend the Arboretum’s resources to children from across the region who might otherwise have limited access to the kinds of experiences the Arboretum offers.

exemplary EXPERIENCES

The Arboretum’s Natural Lands— including the woodlands, wetlands, riparian areas, and meadows— comprise more than 40 acres of the Arboretum. These areas serve as exhibits and models for sustainable care and wise use of these kinds of habitats in urbanized areas. This unique ecosystem includes a diverse collection of native plant species and a variety of native animals including fox, turtles, frogs, fish, and innumerable species of migrating birds.

What brought you to the Arboretum?

During my time as a student at Temple University where I earned a BS in Horticulture, I had a number of experiences that led me to my current role as Senior Associate Director of Development. I was the Planning and Design Intern at Longwood Gardens, and there I had unique opportunities to see the inner workings of public garden administration. I found it energizing to see individuals from many work units come together to meet a goal, and I knew I wanted to serve on a team where I could be one of the players. I enjoy hands-on horticulture, but I wanted my professional work to focus on the people. While I was still a student, I also interned in the development office at Temple University Ambler. I had found a career path that could link my love of horticulture with my desire to connect with people who share this interest! When I was nearing graduation, the stars aligned and I was hired by the Morris Arboretum to coordinate Moonlight & Roses and provide general support to the Development Office. I feel so fortunate that my role within the organization has been able to grow as the Arboretum has grown over the years.

What is your favorite part of the job?

The people—I feel so privileged to know so many wonderful people through my role at the Arboretum. Early in my career I had the pleasure of meeting the late horticulture volunteer, Loretta Seidl. She fought cancer for many years while she was a volunteer, and during the weeks when she did not have the physical strength to work, her fellow volunteers would set-up a lawn chair so she did not miss out on the social time and camaraderie each Wednesday morning. Her sharing this story affirmed for me that the Morris Arboretum is made up of a very special group of people.

What is your favorite event?

My favorite event of the year is our annual Plant Sale. It is like the Arboretum’s version of Homecoming. Staff, volunteers, members, and friends all come together to prepare for the growing season. It’s social. It’s celebratory. This recent Plant Sale was my 16th! In 2003, I had my first day of work with the Morris Arboretum during the Plant Sale, so it is always a special anniversary for me.

New Membership Cards

The Morris Arboretum has adopted new software that enables us to scan your membership card at the front entrance gate and in the Shop. With this change, new membership cards have been issued to our members that joined or renewed before the new cards were implemented. If you have not received new cards or have any questions, please contact the Membership Office directly at members@morrisarboretum.org or (215) 247-5777 ext. 205, Monday-Friday, 9am-5pm.

Also, during the summer months many take to the road and travel near and far to visit other gardens. As a member of the Morris Arboretum, you receive reciprocal admission benefits to more than 300 gardens across North America through the American Horticultural Society’s Reciprocal Admissions Program. To learn more, visit www.ahsgardening.org/gardening-programs/rap or purchase a printed directory in the Shop at the Morris Arboretum.
Summer classes are in full swing! Learn a new skill, broaden your horizon, and keep your mind engaged. We have something for every interest and age group. For a complete course brochure visit https://online.morrisarboretum.org/classes, or call (215) 247-5777, ext. 125.

Yoga in the Garden - Ten Enchanted Evenings
Ten Tuesdays: May 22, 29, June 5, 12, 19, 26, July 10, 17, 24, 31, 7:00-8:15pm
Members: $180 for 10 sessions, $100 for five
Non-members: $200 for 10 sessions, $120 for five
Walk-ins for single session: $25, cash or check only

The incredible beauty of summer nights at the Arboretum provides the backdrop for this unique opportunity to learn the basics of yoga: breathing, mindfulness meditation, balance, strength, flexibility, core awareness, and deep relaxation surrounded by the garden’s peaceful ambiance. All are welcome, including beginners. Please bring a yoga mat and wear comfortable clothes. Refunds will only be given five business days before the first session of the course. No class or attendee substitutions are permitted. Meet at the Visitor Center.

Digital Photography: A Perspective for Beginners
Saturday, June 16, 9:30am-12:00pm
Members: $54, Non-members: $60
This example-driven class provides understandable and useful information to create images for framing, teaching, and personal enjoyment. We will focus on considerations of prevailing light, elements of photographic composition, and developing your personal style. The class consists of one hour of classroom lecture, one hour of shooting outdoors, and a final hour for an open class review of selected class images. While this class is intended for beginning photographers, students MUST know how to operate their personal cameras. Students should also bring a personal device to download images for class review (e.g. laptop, tablet, etc.).

Leaf Casting in Concrete
Saturday, July 14, 10:00am-12:00pm
Members: $50, Non-members: $55
A piece of sculpture adds a whimsical accent to any garden. Learn how to turn a live leaf into stone and add year-round interest to that perfect nook in your garden during this two-hour workshop. Concrete leaves make great bird baths, stepping stones, or even wall art. Bring your favorite leaf—perhaps a hosta, rhubarb, or magnolia. If you don’t have access to leaves, we will have several available. Fee includes all materials to make one large or two small leaf sculptures. Dress for getting messy. We will meet in the barn at Bloomfield Farm. Look for the paved road across Northwestern Avenue from the public garden entrance. Park in the lot and look for the red barn on your left.

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This example-driven class provides understandable and useful information to create images for framing, teaching, and personal enjoyment. We will focus on considerations of prevailing light, elements of photographic composition, and developing your personal style. The class consists of one hour of classroom lecture, one hour of shooting outdoors, and a final hour for an open class review of selected class images. While this class is intended for beginning photographers, students MUST know how to operate their personal cameras. Students should also bring a personal device to download images for class review (e.g. laptop, tablet, etc.).

Art Explorations in Nature (Ages 3–5)
Four Thursdays, July 5, 12, 19, 26, 1:00-3:00pm
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 introduction to the weekly theme, and time for making their own art. Parents are welcome, but do not have to stay.

Planting a Miniature Hosta Container
Saturday, June 16, 10:00am-12:00pm
Members: $50, Non-members: $55
Enjoy planting your own colorful and long-lasting container garden using specially selected miniature hostas. These hostas can have the same great characteristics as larger hostas, but their tiny size makes them more versatile. Learn how to design and maintain a small garden, then plant your own unique container, perfect for a shady patio or back porch. We will meet in the barn at Bloomfield Farm. Look for the paved road across from the main public garden entrance on Northwestern Avenue. Park in the lot and look for the red barn on your left.

Family Overnight at Bloomfield Farm
Friday, June 15 to Saturday, June 16, arrive after dinner at 6:00pm
Friday, Depart by 10:30am Saturday
Members: $80, Non-members: $90
Enjoy an overnight getaway with family and friends at Morris Arboretum’s Bloomfield Farm. Arrive after dinner or with a picnic on Friday evening (no cooking please). Bring all that you need for camping: tent, sleeping bag and pad, flashlight, folding chair, camp stories, etc. Pitch your tent by historic Springfield Mills, enjoy a communal camp fire, and toast marshmallows. There will be an evening nature walk led by Arboretum staff. Fireflies are expected in the meadows. Take a break from your routine without going far from home. On Saturday morning, breakfast will be provided. You may want to bring your binoculars. The price is per tent with a limit of four people per tent. Registration is limited to ten tents. Bloomfield Farm is located on East Northwestern Avenue directly opposite from the Morris Arboretum's public garden entrance.
It’s not too late to reserve a space at the most popular garden party of the year! Moonlight & Roses, Morris Arboretum’s annual fundraising gala, begins with cocktails and hors d’oeuvres in the Rose Garden at 6pm, followed by dinner and dancing in the fabulous moonlit tent. The Morris Arboretum is delighted to recognize longtime friend and supporter Maysie Starr as the 2018 Moonlight & Roses honoree. Amanda Cobb and Sarah Salmon are co-chairing this year’s event, which takes place on Friday, June 8, 2018. Reservations are required and space is very limited. For more information and to register, visit www.morrisarboretumgala.org no later than May 25.

Morris Arboretum Lecture Series

Lectures are $15 for members and $20 for non-members. To register, visit morrisarboretum.org/classes or call (215) 247-5777 ext. 125

What a Warming World Means for Pest Outbreaks
Wednesday, October 10 at 2pm

How does global warming affect us and other creatures on earth? Join internationally recognized expert Mike Raupp as he reviews evidence for and possible causes of climate change. See how warmer temperatures alter the geographic ranges of insect pests, their seasonal life cycles, and interactions among plants, animals that eat plants, and their natural enemies. Learn about invasive species and urban heat islands. An entomology professor at the University of Maryland and Science Channel Expert, Mike has more than 250 publications and has made more than 1,200 presentations on the ecology and management of insects and mites. His most recent book, 26 Things that Bug Me introduces youngsters to the wonders of insects and natural history, while Managing Insect and Mites on Woody Landscape Plants is a standard for the arboricultural industry.

The Lukens Endowed Lecture is presented annually in memory of educator and Arboretum volunteer Byron Lukens and his wife, Elizabeth.

The National Arboretum’s Impact on the American Landscape (rescheduled from March 2018)
Wednesday, December 5 at 2pm

Join us for an engaging lecture with Dr. Richard Olsen, Director of the U.S. National Arboretum. One of the world’s premier woody plant research facilities and public gardens, the National Arboretum has developed superior plants through genetic improvement, evaluation, and selection, thereby contributing to diverse and sustainable American landscapes. Learn about its valuable collections, its important collaborations with peers such as Morris Arboretum, and how exciting new ventures will continue to expand the relevance and impact of the National Arboretum.

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.

The Barnes Endowed Lecture will be held at the Ambler Theater, 108 E. Butler Ave, Ambler, PA. The cost is $15 for members and $20 for non-members.

Moonlight & Roses
June 8, 2018

Morris Arboretum’s Garden Railway opens for the summer season on Saturday, May 26, Memorial Day weekend. This year marks the 20th anniversary of the exhibit and the 2018 theme, appropriately, is Time in the Garden. Come and see a Grandfather ‘Mouse’ Clock reminiscent of the kids nursery rhyme “Hickory, Dickory, Dock,” delight in finding a Giant Rabbit with a Watch Fob who is late to return to the book Alice in Wonderland, and discover an hourglass sculpture, a sundial, and many other time-related creations. A miniature world with a quarter-mile track running through it, the Garden Railway features loops and tunnels, bridges and trestles and miniature buildings that are all created entirely of natural materials, each meticulously detailed with leaves, bark, vines, and twigs. The trains will be open daily through Labor Day, Monday, September 3, and then on weekends only through Monday, October 8.

The Garden Railway is supported in part, through the generosity of Gwen and Ed Asplundh and by a gift given in memory of Joe Shuttleworth.

The Living Legacy of George Nakashima
Wednesday, November 7 at 2pm

Born in 1905, George Nakashima was an American woodworker, architect, and furniture maker based in nearby New Hope, Pennsylvania. He was a leader in 20th century furniture design and one of the fathers of the American craft movement. Since his death, his daughter, Mira Nakashima, has continued to define her father’s legacy. In this lecture, Mira will provide an overview of George Nakashima’s life before woodworking, and discuss the processes involved in envisioning and creating a piece of furniture. Mira was born in Seattle, Washington in 1942, incarcerated with her family at Minidoka on the Idaho Desert, and moved to New Hope in 1943. She graduated from Harvard University and received a Master’s degree in Architecture from Waseda University in Tokyo.

The Barnes Endowed Lecture is presented annually in memory of Laura L. Barnes, founder of The Barnes Foundation Arboretum. This lecture will be held at the Ambler Theater, 108 E. Butler, Ave., Ambler, PA. The cost is $15 for members and $20 for non-members.

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Join us for an engaging lecture with Dr. Richard Olsen, Director of the U.S. National Arboretum. One of the world’s premier woody plant research facilities and public gardens, the National Arboretum has developed superior plants through genetic improvement, evaluation, and selection, thereby contributing to diverse and sustainable American landscapes. Learn about its valuable collections, its important collaborations with peers such as Morris Arboretum, and how exciting new ventures will continue to expand the relevance and impact of the National Arboretum.

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.

The Barnes Endowed Lecture will be held at the Ambler Theater, 108 E. Butler Ave, Ambler, PA. The cost is $15 for members and $20 for non-members.
J oan & Stanley Root – A Story of Family

Since its founding by siblings John and Lydia Morris, one of the Morris Arboretum’s greatest strengths is that it is a place where families like to gather. While in the garden, you might see a young mother walking with her baby in a stroller, parents playing hide & seek with their children in the Metasequoia grove, or a grandparent birdwatching with their grandchildren in the wetlands. Special Arboretum events throughout the year—whether it is the annual Fall Festival, the Holiday Garden Railway, Arbor Day, or the Plant Sale weekend—offer families opportunities to create traditions and enjoy “the beautiful land of life” together.

Joan and Stanley Root were among the many Morris Arboretum members who, during the course of thirty years, nurtured their family through time together in the garden. When their son, Walter, died unexpectedly, they created a living legacy in his memory through the establishment of the Walter J. Root Arborist Intern Endowment. Through this gift, more than thirty-three young women and men have served as arboriculture interns and received graduate horticulture education as part of their Morris Arboretum internship. In turn, the Roots gained a whole new “family by affection” as Joan and Stanley made a point of befriending each Root Arborist Intern at the beginning of each academic year.

As they moved into their retirement years, the Roots also invited their adult children—daughter Louise and son Henry—to become acquainted with the Root interns. When Stanley died in the summer of 2015, Louise and Henry made sure to continue the family tradition of trips to the Arboretum with Joan where they would enjoy the presentation by the current Root intern, followed by a meal together, and a cart tour through the garden.

The Morris Arboretum community was deeply saddened to learn of Joan Schimpf Root’s death in January of 2018. However, as the Arboretum community mourns the passing of both Stanley and Joan, we continue to celebrate their remarkable lives—as Arboretum friends, volunteers, and family to generations of Arboretum members, staff, and students. And we rejoice that their devotion to the Morris Arboretum lives on through the Walter J. Root Arborist Intern Endowment, and through their children and grandchildren: Louise, Scott, Scott Jr., and George Melby, and Henry, Marilyn, Christopher, and Sterling Root.

“Rejoice with your family in the beautiful land of life.”

~ Albert Einstein

Tributes & Memorial Gifts

The Morris Arboretum is grateful to the following individuals who made tribute and memorial gifts between November 1, 2017 and March 31, 2018.

In honor of Lee Laden
Drew Laden

In memory of Elizabeth “Betty” Adair
Cathie & John Hoban

In memory of Mac Borie
Annette B. Congdon

In memory of Mary Dixon
Martha Ballard

In memory of Dorothea “Dorie” Greenwald
Philip Greenwald

In memory of George Heinbach
Anonymous

In memory of Christopher M. Kroger
Eugenia Warnock & Joseph Siedlarz

In memory of Lucille Roland
Sharon & J. Christopher Miller

In memory of Joan S. Root
Mary S. Ashmead

In memory of Joan S. Root
Bethesda Country Club Blue A Team

In memory of John K. Binswanger
Earle K. Borman Jr.

In memory of Joan S. Root
Emilie R. Bregy

In memory of Joan S. Root
Elizabeth & Henry S. Cecil

In memory of Joan S. Root
Madelyn Elaine Curtin

In memory of Joan S. Root
Samuel S. M. DaBois

In memory of Joan S. Root
Susan & Robert Emmer

In memory of Joan S. Root
Margaret W. Everson

In memory of Joan S. Root
Felice Fischer

In memory of Joan S. Root
Nancy & William Giles

In memory of Joan S. Root
Hannah L. Henderson

In memory of Joan S. Root
Sandor A. Horrocks

In memory of Joan S. Root
Ruth & Richard Howarth

In memory of Joan S. Root
Thomas Hyndman

In memory of Joan S. Root
Sally R. Johnston

In memory of Joan S. Root
Victoria Le Vine

In memory of Joan S. Root
M.J. & Frank Loughran

In memory of Joan S. Root
Marianne & William Melbene

In memory of Joan S. Root
Jean & Edward Melby

In memory of Joan S. Root
Monica & Jeffrey Melby

In memory of Lucille Roland
Sharon & J. Christopher Miller

In memory of Lucille Roland
Sondra & Daryl Nickel

In memory of Lucille Roland
Sarah H. Norris

In memory of Lucille Roland
Ruth Van Sciver Peckmann

In memory of Lucille Roland
Teres & Thomas Platten

In memory of Lucille Roland
Debra L. Rodgers & Paul W. Meyer

In memory of Lucille Roland
Dorothy & Edwin Sheffield

In memory of Lucille Roland
Barbara & Jay L. Swallen

In memory of Lucille Roland
Linda & Greg Vaniscak

In memory of Lucille Roland
Christine J. Washington

In memory of Lucille Roland
Leslie & Stephen Weisser

In memory of Lucille Roland
Beth Somers Stutzman

In memory of Lucille Roland
In memory of Fred Wietecha
Melissa Starkey
**Summer Events**

**June**

**Early Bird Openings**

Saturdays & Sundays, 8am

Start your day with an early morning visit to Morris Arboretum. The garden opens at 8am Saturdays and Sundays from May-September. Members, non-members, walkers, amateur photographers, birders, and everyone in between are invited to find the shining dew on more than 12,000 labeled plants in the Arboretum’s living collection.

**Storytime at the Arboretum**

Friday, June 1, 10:30-11:15am

Join us for fun 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.

**Nature Play**

Saturday, June 2, 11am-3pm

Climb on fallen tree trunks. Jump in water and see what floats. Look for seeds and pods of all kinds. This session will take place below the Oak Allée. past the Three Tubes sculpture.

**Saturday Morning Live Tour**

Saturday, June 2, 11am

Join an experienced guide for a featured tour of the month. Tours begin at the Widener Visitor Center. This month’s tour will discover Hidden Gems at the Morris Arboretum.

**The Sonnets of Shakespeare presented by Darrel Walters**

Wednesday, June 6, 7pm

Join author and retired educator Dr. Darrel Walters for a revealing exploration of Shakespeare. This presentation will highlight the bard’s elegant and surprising use of language. A selection of his sonnets will also be read in a way that listeners are sure to understand and appreciate.

**Moonlight & Roses**

Friday, June 8, 6pm – 11pm

See page 17 for more information.

**Commonwealth Classic Theatre**

Friday, July 6, 10:30-11:15am

See June for details.

**Circus Week at the Garden Railway**

Saturday, July 7 & Sunday, July 8

Join an experienced guide for a featured tour of the month. Tours begin at Widener Visitor Center. This month’s tour will discover Great Trees at the Morris Arboretum.

**The Tank Engine & Friends at the Garden Railway**

Saturday, July 14 & Sunday, July 15

Look for your favorite train characters among the whole steam engine gang from Sodor as they take over the railway for the weekend.

**Circus Week at the Garden Railway**

Saturday, July 28 & Sunday, July 29

Listen for the call of the ringmaster as you watch the colorful railroad cars bring the “Big Top” to the garden.

**Circus Week at the Garden Railway**

Saturday, August 4 & Sunday, August 5

See June 2 for more information.

**Nature Play**

Saturday, July 7, 11am-3pm

See June 2 for more information. This session will take place below the Oak Allée, past the Three Tubes sculpture.

**Saturday Morning Live Tour**

Saturday, July 7, 11am

Join an experienced guide for a featured tour of the month. Tours begin at Widener Visitor Center. This month’s tour will discover Hidden Gems at the Morris Arboretum.

**Nature Play**

Saturday, July 7, 11am-3pm

See June 2 for more information. This session will take place below the Oak Allée, past the Three Tubes sculpture.

**Circus Week at the Garden Railway**

Saturday, July 28 & Sunday, July 29

Look for your favorite train characters among the whole steam engine gang from Sodor as they take over the railway for the weekend.

**Grist Mill Demonstration Day at Bloomfield Farm**

Sunday, August 19, 1-4pm

See June 17 for more information.

**Nature Play**

Saturday, September 1, 11am-3pm

See June 2 for more information. Build shelters with branches. Weave baskets with vines. See what’s wriggling under stumps. This session will take place at the lower entrance to the woodland trail, above the wetlands. You may park in the meadow by the kiosk or walk down from the café.

**Saturday Morning Live Tour**

Saturday, September 1, 11am

Join an experienced guide for a featured tour of the month. Tours begin at Widener Visitor Center. This month’s tour will discover Water Features at the Morris Arboretum.

**Grist Mill Demonstration Day at Bloomfield Farm**

Saturday, September 1, 11am

Come visit the Garden Railway and see Thomas & Friends take over the tracks.

**Early Bird Openings**

Saturday, September 1, 11am

See June for details.

**Nature Play**

Saturday, September 1, 11am

See June 2 for more information. Build shelters with branches. Weave baskets with vines. See what’s wriggling under stumps. This session will take place at the lower entrance to the woodland trail, above the wetlands. You may park in the meadow by the kiosk or walk down from the café.

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**Saturday Morning Live Tour**

Saturday, August 4, 11am

Join an experienced guide for a featured tour of the month. Tours begin at Widener Visitor Center. This month’s tour will discover Water Features at the Morris Arboretum.

**Autumn Equinox**

Saturday, Sept 22, 12pm

Join us for a short yoga practice in the garden to celebrate the autumnal equinox. Led by an instructor from Balance Chestnut Hill, this is a great activity for old and young alike and is especially geared toward grandparents and their grandchildren.

**Admission**

Adults (18-64yrs) $19

Senior (65+ yrs.) $17

Children (3-17yrs) $10

Members FREE

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

In the event of inclement weather, please visit www.morrisarboretum.org for information or call (215) 247-5777, ext. 0.
Did You Know About Extended Hours this Summer?

Early Bird Saturdays and Sundays – Garden opens at 8am (May – Sept.)

Through September, take your wake-up walk at Morris Arboretum. Relish the quiet of the garden as the new day begins and sunlight filters through the trees. Watch as more than 12,000 labeled plants in the Arboretum’s living collection slowly greet the morning and search for the sun. Observe birds as they take flight and begin their hunt for nourishment. Capture and savor the beauty of first light digitally or with your naked eye. Please note, the Garden Railway will open at 10am on Early Bird Saturdays and Sundays.

Late Night Wednesdays – Garden open until 8pm (June – August)

Summer evenings are special at Morris Arboretum. Escape the heat of the day and experience the cooling power of trees. Enjoy the evening garden light and watch the sun slowly tuck itself away for the night. Pack a picnic dinner, take a stroll, or just delight in the sounds of chirping crickets and the magical lighting of the fireflies.

Photos: Paul W. Meyer