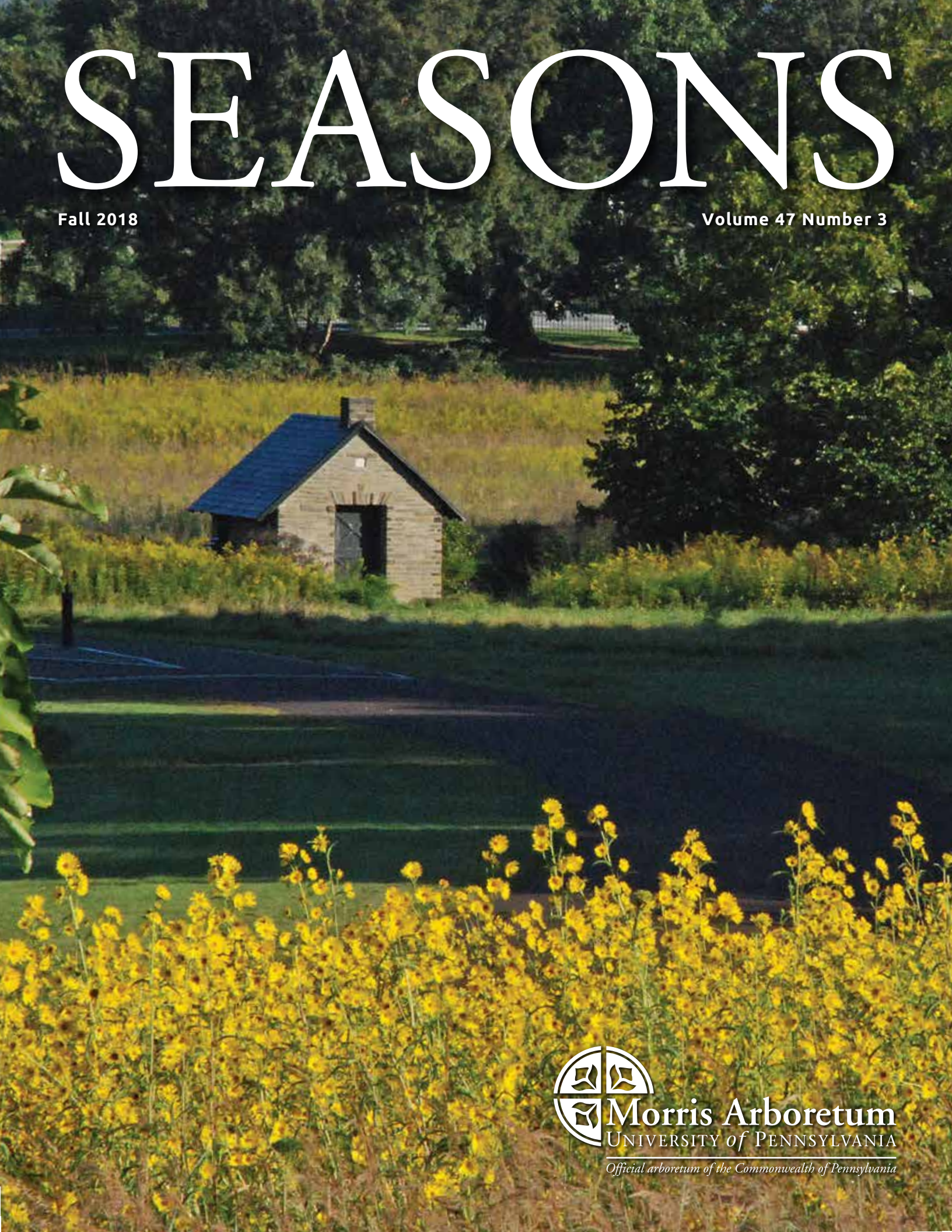


SEASONS

Fall 2018

Volume 47 Number 3



Morris Arboretum
UNIVERSITY of PENNSYLVANIA

Official arboretum of the Commonwealth of Pennsylvania

A Note from the Executive Director

The Arboretum as Part of the Regional Open Space and Trail Network

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

Though the Morris Arboretum is within the city of Philadelphia, visitors often remark about the country feel of the Arboretum. When standing at the site of the former Compton mansion looking to the northwest across the Whitemarsh Valley, treetops predominate the valley, and little development is evident. And yet, the Arboretum is in the middle of the highly-developed southeastern Pennsylvania metropolitan area. This green oasis is the result of the efforts of many community leaders, including John and Lydia Morris, and organizations who have worked tirelessly over 150 years to protect open space in the Wissahickon Watershed.

These open spaces provide beauty and respite from harsh urban environments, and offer wildlife habitat, and protection for our water resources. They contribute substantially to our economic vitality and sense of place. The collective green spaces of the Wissahickon Valley are literally the Central Park of southeastern Pennsylvania. As I bike Forbidden Drive in Fairmount Park, I am struck by the sheer numbers of smiling people enjoying the natural world, getting exercise, and simply spending time with family and friends. The entire Wissahickon Valley is truly an extraordinary urban resource which must be nurtured and protected.

We are also fortunate to live in an area committed to an integrated, regional trail network. Governments, non-profits, and foundations have collaborated to complete more than 300 miles of the envisioned 750-mile regional network. Already, residents from Center City can safely access the Arboretum via the Schuylkill Trail and Forbidden Drive. Planning is now underway to connect the Arboretum to the existing Montgomery County Green Ribbon Trail, connecting us with Fort Washington State Park, and ultimately to the Plymouth Trail at Germantown and Chemical Roads. These trail networks not only provide recreation, but also alternative, sustainable means of transportation. Already, at the Arboretum we see a growing number of visitors arriving by bicycles. As the network is completed, increasing our accessibility to the Montgomery County suburbs, no doubt these numbers will grow.

The business of protecting open space is never done. New opportunities for preservation arise and existing preserved lands must be protected. The recent threats by the Lower Merion School Board to condemn the easement-protected lands at Stoneleigh is an example of how land, even when permanently protected with easements, can be at risk. Stoneleigh, the former estate of John and Chara Haas, is Philadelphia’s newest pubic garden and a key part of the open space network of Montgomery County. It is managed by the Natural Lands. To date, more than 32,000 citizens have signed petitions to urge protection for this new institution, and the Commonwealth of Pennsylvania has responded rapidly to enact new legislation to provide further protections, not only for Stoneleigh, but for eased green spaces throughout the Commonwealth. This outpouring of public support has been encouraging.

As southeastern Pennsylvania becomes more heavily developed, these threats are likely to be more common. Through our educational programs, we must continue to build the understanding that open space is part of the essential permanent infrastructure of our communities, not just land awaiting development. And, in many instances, the “highest and best use” is indeed green open spaces.



Photo: Paul W. Meyer

SEASONS

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Arboretum Rentals

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

e-newsletter

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

Cover photo: Paul W. Meyer

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Contents

- 3 *Ever Green* Campaign Update
- 5 Thompson-Morris Plot Restoration Complete
- 5 Arboretum Welcomes New Board Member
- 6 Planned Giving
- 6 Chanticleer Scholar
- 7 Travel with the Morris Arboretum
- 8 Botany for Beginners
- 9 Preserving Our Tree Canopy
- 10 Three Great Native Trees
- 11 *Moonlight & Roses*
- 13 Arboretum Welcomes New Interns
- 14 Summer Adventure Fun!
- 15 Morris Arboretum Lecture Series
- 16 Conferences and Symposia
- 16 ArbNet Accreditation
- 17 Fall Classes
- 18 Growing Minds
- 18 Scarecrow Walk
- 19 Events
- 21 The Gift of Membership
- 21 Gift Cards Now Available
- 22 Tributes and Memorial Gifts

Photo: Paul W. Meyer



everGREEN Campaign Update

On the evening of April 26, 2018, the Arboretum publicly launched its *Ever Green* campaign with an elegant kickoff dinner and celebration for nearly 200 guests at the Widener Visitor Center. Keynote speaker Katy Moss Warner, President Emeritus of the American Horticultural Society, spoke passionately about the changing role of botanical gardens and arboreta as centers for education and discovery. Guests were also treated to a very special musical performance of selections from the *Morris Arboretum Suite*, composed and performed by Penn alumnus Nicholas Escobar, accompanied by his Penn student orchestra.

The primary goal of the *Ever Green* campaign is to raise \$36 million by June 30, 2021 for an array of priority projects across all areas of the Arboretum’s operations. It is a campaign that is predicated on strengthening a dynamic organization through endowment growth, investment in education and research programs, continued conservation of the living collections, and enhancement of the Arboretum’s stunning gardens, natural landscapes, and historic features.

Ever Green is an “all-in” campaign, which means that all gifts—from the Annual Fund and Membership, to endowment and planned gifts—count toward the campaign totals. With a “quiet phase” that dates back to January 1, 2013, the *Ever Green* campaign has already raised more than \$21 million in gifts and pledges.

For more information about the *Ever Green* campaign, please contact Mira Zergani at (215) 247-5777, extension 102 or via email at mzergani@upenn.edu.



Photo: Mark Stehle

Elie-Antoine Atallah, *Ever Green* campaign co-chair, and Ellen Nalle Hass, chair of Morris Arboretum’s Advisory Board of Managers.

Public Gardens Matter

“These traditional roles of botanic gardens and arboreta [maintaining collections, documentation, research, and education] continue to be the foundation of botanic garden work, and these aren’t dusty old roles. With new technology, environmental changes, broadening demographics, increasing risks to habitats and species survival, each of these traditional roles must rise up to address the needs of today and the future. More than ever, we need our public gardens doing their best scientific work.”

— Katy Moss-Warner, President of America in Bloom and President Emeritus of the American Horticultural Society, speaking about the importance and value of public gardens.



Photo: Mark Stehle

“The *Ever Green* campaign will advance the education and research mission of the Arboretum while helping to preserve and enhance the gardens, plant collections, and historic features.”

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

The Moses Feldman Family Director of Physical Facilities



Photo: Mira Zergani

For decades, the Morris Arboretum has worked carefully to grow its endowment base in order to ensure ongoing fiscal strength and provide stable financial resources for programmatic growth. Among the greatest champions of this cause is Arboretum Emeritus Advisory Board member Moses “Moe” Feldman. It is therefore the Arboretum’s great honor to announce the establishment of the “Moses Feldman Family Director of Physical Facilities.” This new endowment fund, made possible by Moe and his family as part of the *Ever Green* campaign, will support the costs of the Director’s position, thereby making it possible for the Arboretum to grow its physical facilities department which maintains and cares for 30 buildings and many other features across the Arboretum.

Tom Wilson, who has served as the Arboretum’s Director of Physical Facilities since 2013, couldn’t be happier with his new title. “I’ve worked alongside Moe for many years and I am so proud to have my position be affiliated with the Feldman name. He has been a great source of support and inspiration for us all.”

Watch Us Grow

Cultivate the Garden

Lead Research Initiatives

Improve Public Access
and Inclusion

Campaign Goal
\$36 MILLION

\$21+ MILLION
Raised as of July 30th, 2018

everGREEN
Strengthen Our Roots, Ensure Our Growth



Thompson-Morris Plot Restoration Complete

LESLIE CRANE, *Development Communications Associate*



In June, the final phase of the restorations at the Thompson-Morris family plot—the final resting place of Arboretum founders John Thompson Morris and Lydia Thompson Morris, were completed at Laurel Hill Cemetery. This project was made possible through the generosity of Arboretum friend and member James Hill (see related article in *Seasons* Fall 2017).

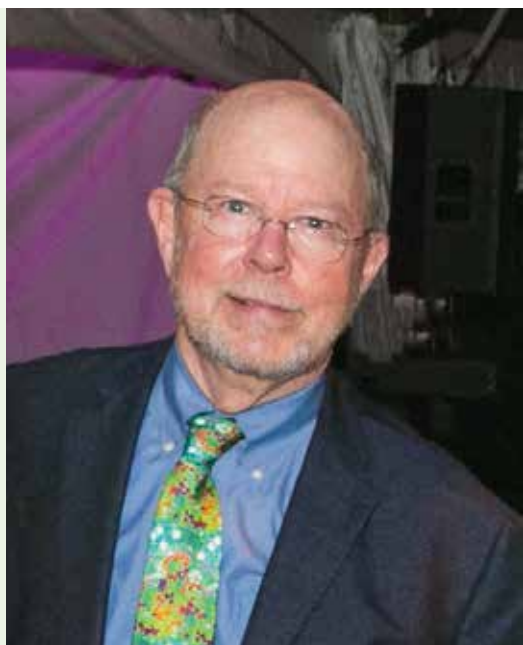
New plantings included trees and shrubs that reflect John and Lydia Morris’s interest in Asian and North American plants. A QUICKFIRE panicle hydrangea (*Hydrangea paniculata* ‘Bulk’, native to Japan and China) was installed, as was a smooth hydrangea (*Hydrangea arborescens*, native to the eastern U.S.). Panicle hydrangea is an old-fashioned Victorian cemetery plant, and the smooth hydrangea was grown from seed that was collected by Anthony Aiello, the Arboretum’s Director of Horticulture, in Arkansas in 2014. The Morrisses would have had both plants in their garden at Compton. *Liriope muscari* (groundcover lilyturf) was also planted.

Nearby, a Yoshino cherry (*Prunus x yedoensis*) and a bur oak (*Quercus macrocarpa*) were planted, again reflecting the East-meets-West theme. To the right of the gravesite, the Yoshino cherry is one that was propagated from an old Morris Arboretum plant dating back to the estate era. John and Lydia travelled to Japan and returned with a great interest in Asian art, plants, and gardens. Farther back from the gravesite the bur oak was added. Native to western Pennsylvania, bur oaks were also planted by John and Lydia; a large one near Gates Hall (the Arboretum’s administration building) was planted in September 1926 by the National Association of Gardeners and was dedicated to John and Lydia Morris and their role in advancing the art of horticulture and gardening in America.

Coordinating the project was Aaron Greenberg, Morris Arboretum’s 2015 *Walter W. Root Endowed Arborist Intern*, who is currently the Arborist/Horticulture Specialist for Laurel Hill Cemetery in Philadelphia and West Laurel Hill Cemetery in Bala Cynwyd. “My internship at the Morris Arboretum was instrumental in determining my current career path,” Greenberg remarks. “Before my internship, I didn’t even really know what an arborist was. I found the internship on the Arboretum’s website, looked into it, and connected with Andrew [Hawkes, Assistant Arborist at the Morris Arboretum].” Greenberg continues, “Through that internship I learned everything. I became a certified arborist; I learned to climb. I learned a ton about tree identification, not only from working with Andrew but from the living collections portion, and just got really into tree care and tree management.”

Arboretum Welcomes New Advisory Board Member

The Morris Arboretum is pleased to welcome Joseph “Jay” Townsend, PhD as the newest member of the Morris Arboretum’s Advisory Board of Managers. Jay is a retired arborist and adjunct instructor in plant and soil science at the University of Delaware where he also completed his doctoral studies. His research concerns the impact urban trees have on human health and safety. Jay is a member of the Arboretum’s Education and Visitor Experience Committee, and for the past two years he has been a contributing sponsor of the Arboretum’s Tree Canopy Conference. He and his wife JoAnn reside in Wawa, PA, where they have restored a 17th century farmhouse and its grounds into a modern office space with historically accurate design.



Planned Giving

Are you
age 70½
or over?

The IRA Charitable Rollover is now permanent!

This incentive allows friends of the Morris Arboretum to transfer up to \$100,000 from their IRA directly to the Arboretum without having to recognize the transfer as income. To qualify, you must be at least age 70½ and have assets in an IRA. Transfers must be made by your plan provider directly to the Morris Arboretum from your IRA account. To learn more, contact Mira Zergani, Director of Development, at (215) 247-5777 ext. 102 or mzergani@upenn.edu.



The Love Temple at the Swan Pond (Photo: Alex Correia-Sareyka)

Support What You Love at the Morris Arboretum!

Beneficiary designations are a smart and easy way to use your retirement plan assets to make a charitable gift to the Arboretum. Simply name “The Trustees of the University of Pennsylvania” as a beneficiary of your account and direct the proceeds to support the Morris Arboretum and those programs and projects that are closest to your heart. You can create a lasting legacy from what might otherwise be the most highly-taxed asset in your estate.

Chanticleer Scholar

CHRISTINE PAPE, *Editor*

Bryan Thompson-Nowak, Assistant Director of Education and Penn Outreach, has been awarded a prestigious Chanticleer Scholarship. Bryan will focus on learning how to improve the Arboretum’s new Point of Sale/Customer Relationship Management system by participating in an intensive course through the Northwestern Kellogg Executive Education Program “Leading with Big Data and Analytics: From Insight to Action.”

In addition, Bryan will be visiting gardens locally and in the UK to learn the best practices of gardens who currently utilize these systems to improve business functionality in an effort to continue to enhance the experiences of Morris Arboretum visitors.



“I’m flattered to have been selected as a Chanticleer Scholar and to have their support to study and travel. I’m especially excited to bring back what I will learn to Morris Arboretum to help ensure that we continue to be a truly world-class garden.”

Exploring Gardens Around the World



Scotland 2018

This past June, Arboretum friends and staff members embarked on a spectacular garden tour of Scotland. While there, they took in the stunning scenery, rich natural history, beautiful gardens, and grand old castles of the Scottish Highlands, the West Coast, and Edinburgh, including Old Allangrange (pictured above) where the group was welcomed by garden designer JJ Gladwin.

Join us in New Zealand! January 11-February 2, 2019

Only a few spots remain for *Gardens, Wine, and Wilderness*—A Tour of New Zealand, January 11 through February 2, 2019. Join Richard Lyon, R.L.A. and Paul W. Meyer, *The F. Otto Haas Executive Director* of Morris Arboretum for a three-week adventure discovering everything both the North and South Islands have to offer.

Tour exquisite private and public gardens of New Zealand. The country's legendary natural beauty is complemented by fine dining and enjoyment of its internationally respected wines. The mystical beauty of Doubtful Sound, the drama of wild New Zealand coastlines and mountain peaks, and the history of the Maori people are all intertwined with culinary experiences.

Only two spaces remain so time is of the essence! For more information or to reserve your space now, please contact Mira Zergani at (215) 247-5777, extension 102 or at mzergani@upenn.edu.



Photos: Paul W. Meyer

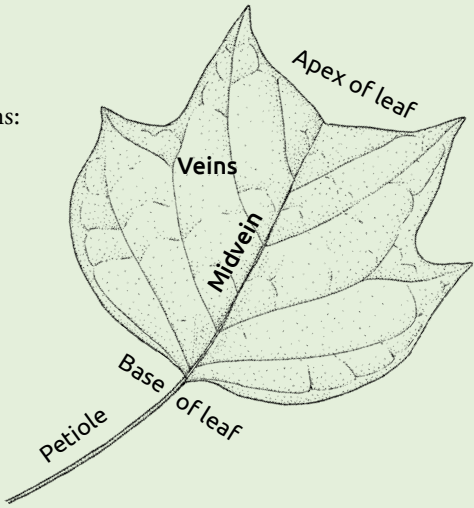
Botany for Beginners

PAMELA OLSHEFSKI, *Curatorial Assistant*

As the season transitions through fall, days grow shorter, the temperatures drop, and trees begin to get ready for winter. Deciduous trees' leaves begin to change color and fall to the ground. As you wander around the Arboretum on your next autumn visit you may come across a wide variety of fallen leaves. You'll notice all kinds of shapes, sizes, and variations. As you begin to study these differences you can use clues to help identify what kind of tree dropped these leaves. This is a good introduction to the study of botany. Become a scientist on your next stroll! This can be a fun family activity or a rewarding solitary adventure.

Learn the basic parts of a leaf:

- Petiole – stem-like stalk of a leaf
- Margin – the boundary of the edge of the leaf. Below are a few types of leaf margins:
 - * Entire – Smooth margin edge
 - * Serrate/dentate – a toothed margin edge
 - * Lobed – having deeply indented margins
- Veins – vascular bundles that provide support and transport of food and water



Simple Leaves vs. Compound leaves – Simple leaves have one leaf on each petiole.

Compound leaves have multiple leaflets on each petiole.

Two common types of compound leaves are palmate and pinnate.

- Palmate (veins radiate from one point)
- Pinnate (leaflets are attached to an extension of the petiole, called the rachis)

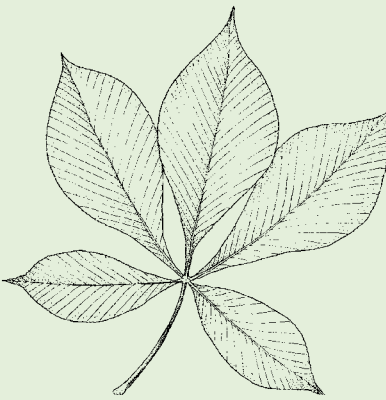
Here are some common leaves you may find on your autumn stroll in the Arboretum.



Acer saccharinum
silver maple
Simple palmate leaf with double serrate margin



Quercus coccinea
scarlet oak
Simple leaf with lobed margin



Aesculus flava
yellow buckeye
Palmately compound leaf with 5 leaflets



Magnolia tripetala
umbrella magnolia
Very large, simple leaf entire margin



Platanus occidentalis
sycamore
Simple palmately veined with lobed leaf margin



Juglans nigra
black walnut
Pinnately compound leaf with 11-23 leaflets



Liquidambar styraciflua
sweetgum
Simple, palmately veined and lobed leaf margin



Liriodendron tulipifera
tulip poplar
Simple, entire four-lobed leaf

Preserving Our Tree Canopy

JASON LUBAR, Associate Director, Urban Forestry

This past spring, many large, mature trees failed because of saturated soil conditions combined with heavy loading from gusting winds and wet snow. Whenever I see this many large old trees fail, I feel profoundly saddened and slightly depressed by the loss of their companionship. These feelings are not remarkable among “green-collar” professionals because while working with or among these trees, we develop a sense of their inherent value and reverence to where many of us see these trees as friends or family members. Their loss is our loss.

Beyond the emotional attachment we form with large trees, there is the concomitant loss of tree-related benefits, which affects everyone. Large trees, with their voluminous canopy, provide a magnitude of benefits compared to their young counterparts. For example, a 2016 study done by one of our former urban forestry interns, Corey Bassett, indicated that one large London planetree at University of Pennsylvania’s Shoemaker Green provides comparable benefits to 220 small or young trees! For this and many other reasons, it is imperative that we advocate and act to preserve our elder trees.

A significant issue to consider when valuing mature trees is risk. Inherently, large trees have much more potential than young/small trees to catastrophically damage targets such as persons or property, especially in urban areas where the likelihood of impact from tree or limb failure is significantly greater than in rural or natural areas. Also, urban trees are generally more stressed and seem to be in constant peril from development, diseases, and pests such as Dutch elm disease, emerald ash borer and, more recently in our area, spotted lantern fly.

Also consider that old trees grow from young ones, so part of valuing our older trees is planning for and planting a diversity of young trees simultaneously as we care for our old ones. Throw in climate change, variable budgets, land classification and owner rights, public/private partnerships—you get the idea; it is a complicated challenge to manage and care for our old trees.

I believe that the pursuit of knowledge and sharing information and experiences is a major foundation of tree management success, and it is part of Morris Arboretum’s mission to provide this foundation to practitioners, politicians, partnerships, and the public. Everyone should advocate for trees.

Fortunately, this information, knowledge sharing, and experience is available at our Tree Canopy Conference at Haverford College in mid-October. The conference is open to all and will provide a wealth of information on germane topics, from Philadelphia’s tree-laden history to the new history being created by practitioners today by growers, educators, and planters. The greater public can benefit by learning how to more powerfully connect with practitioners and by gaining knowledge to effectively influence public action and foster the passion that will lead to wide support of our urban forest. So join me at the Tree Canopy Conference as we take a deeper look into the changing nature of the urban forest and discover some new options and answers for successful canopy management that will benefit everyone, including the living creatures that share our region. See page 16 for more information on the conference.



Photos: Paul W. Meyer and Jason Lubar

Three Great Native Trees

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

There is a trio of native trees that are among my favorites to see in natural areas or cultivated situations. Sweet birch (*Betula lenta*), American hop-hornbeam (*Ostrya virginiana*), and American hornbeam (*Carpinus caroliniana*) are three members of the birch family that are native to the eastern U.S. and can be found throughout Pennsylvania. All of them are valuable as landscape plants, useful in reforestation, and for preservation in existing woodlands.

Sweet birch (pictured top right) is the largest of these three trees, ultimately growing to 60 feet tall. Unlike the better known white-barked birches, sweet birch is also known as black or cherry birch, in reference to its smooth, dark reddish-brown to black bark. The most distinguishing feature of sweet birch is the twigs which have a strong wintergreen smell when scraped or crushed. Historically wintergreen oil was extracted from sweet birch for flavoring and medicine, and birch beer is one of the best-known examples of this use. Sweet birch is a tree of the Appalachian mountains, extending from Maine through Georgia, and into Ohio and Kentucky. In its native habitats it can be found in moist forests, along streams, and on rocky slopes. When moved into cultivated situations, it grows best when given good soils and because of its mature size, it is best grown as a full-sized shade tree. The seasonal highlight of sweet birch is its stunning golden-yellow fall color.

Moving down in scale is the American hop-hornbeam (pictured middle right), which averages between 25 and 40 feet, although it can get taller in the wild. It has a large native range, from Ontario to Minnesota, reaching to the Missouri River and south to Florida and Texas. Hop-hornbeam grows as an understory tree throughout Pennsylvania, occurring in dry rocky slopes. The grayish-brown bark has quiet seasonal interest, with peeling strips that are reminiscent of a well-used cat scratching post. Its hard wood was used for tools, wooden mallets, and other small items. Hop-hornbeam is trouble-free, with yellow fall color. It is best used in naturalized settings or as a small shade tree.

American hornbeam (pictured lower right), also known as musclewood, ironwood, or blue beech, is the smallest of the three, functionally reaching 20 to 30 feet, but also growing much larger in its native habitats. Its native range is similar to hop-hornbeam, but it is not found quite as far west. Musclewood is an easy plant to spot because, as its common names suggest, it has smooth grey bark, with sinewy, muscle-like, very hard wood. It also does well in rich soils as a small shade tree, with fall color that varies from yellow to orange-red. In recent years there have been horticultural selections with superior form and fall color, but these are slower making their way into the market.

All of these trees can be seen at the Arboretum and throughout southeastern Pennsylvania, and each would be a worthy addition to any landscape.

For more information on these and other Pennsylvanian trees, see *Trees of Pennsylvania: A Complete Reference Guide*, by Ann F. Rhoads and Timothy Block.

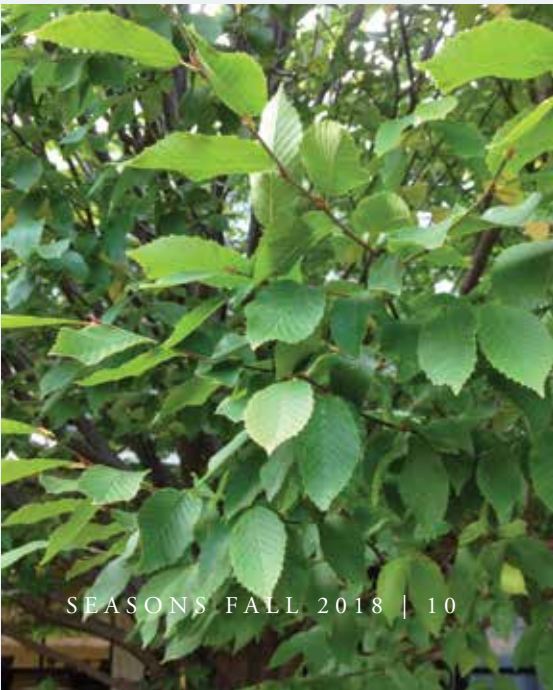


Photo at right: Sherief Saleh



Photos: Mark Stehle



Moonlight & Roses

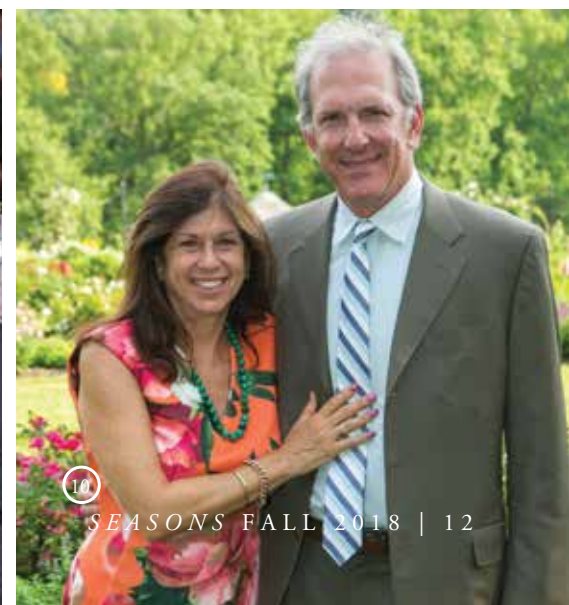
Moonlight & Roses took place on Friday, June 8, 2018 with more than 450 guests in attendance. The evening began with cocktails in the stunning Rose Garden followed by dinner and dancing in the clear-top tent. Total revenue raised from this year's event was \$253,334, with all net proceeds supporting the Arboretum's operations.

- ① Event Chairs Sarah Salmon and Amanda Cobb, Honoree Maysie Starr, Paul Meyer and Debbie Rodgers
- ② Walter and Melissa Greiner
- ③ Jan Lutz, Janet Evans, Christine Dwyer
- ④ Standing: Bart Kaplow, Wilfreta Baugh, Anthony Nelson; Seated: Nina Silverman, Gabrielle Baugh, Thomasina White
- ⑤ Tim Greenwood, Lynn and Chris Gadsden, Kim Frisbie, Sandy Greenwood
- ⑥ Madeleine Reed and Ryan Manucha
- ⑦ Susan Feldman, Elizabeth and John Shober, Jane and Leonard Korman
- ⑧ Richard and Mary Graham
- ⑨ Guests of the University of Pennsylvania, *Business Services Division*
- ⑩ Sally and Stephen Gendler

Photos: Mark Stehle



11 | MORRIS ARBORETUM



SEASONS FALL 2018 | 12



Photo: Jan McFarlan

Arboretum Welcomes New Interns

In June, the Arboretum welcomed a new class of interns for a year-long program of hands-on learning. Working in various departments, they will gain valuable experience while observing the day-to day operations of a world class institution. Their year culminates with the completion of a project, some of which have resulted in the renovation of garden areas or in a new area of focus in education or research. This year, the Arboretum welcomed interns from all over the U.S. Pictured from left to right are:

Micah Christensen, *The Charles S. Holman Endowed Rose and Flower Garden Intern*, graduated from Messiah College with a bachelor's degree in biology. A native of Lansdale, PA, Micah looks forward to gaining hands-on public garden experience while maintaining beautiful areas for visitors to de-stress.

Kristiana Bowman, *The Alice & J. Liddon Pennock, Jr. Endowed Horticulture Intern*, recently graduated from Vassar College with a degree in religious studies and a correlate in Asian studies. Originally from Mountain Top, PA, Kristiana is excited for the opportunity to explore Philadelphia and develop her skills in horticulture.

Vincent Galatolo, *The Martha J. Wallace Endowed Plant Propagation Intern*, is a graduate of Clemson University. He has had a life-long passion for plants and gardening, and hopes he will be able to advance his understanding of woody plant propagation while at the Morris Arboretum.

Amanda Wood, *The Martha S. Miller Endowed Urban Forestry Intern*, graduated from the University of Pennsylvania with a master's degree in environmental resource management. Amanda believes that everyone can work together to improve our environment, and aims to enhance her skills at assessing tree health while at the Arboretum.

Daniel Sax, *The Walter W. Root Endowed Arborist Intern*, is a recent graduate of Haverford College. Daniel is originally from upstate New York and can often found be trekking through the woods in awe of the endless adventure the outdoors offers. He is thrilled to join the Morris Arboretum—a place where everyone is just as enamored with the mysteries of the natural world.

Michael Cranney, *The Hay Honey Farm Endowed Natural Lands Intern*, recently received his master's in environmental studies from the University of Pennsylvania. A Hatboro, PA native and lifelong lover of science and nature, Mike is excited for the opportunity to begin a career of environmental stewardship.

Emily Clark, *The McLean Contributionship Endowed Education Intern*, graduated from Reed College with a degree in environmental studies. A native of Goleta, CA, Emily is a long-term believer that there are certain lessons that can only be learned outside the classroom, and she hopes to share her love of the outdoors with folks young and not-so-young.

Jenny Klimowicz, *The John J. Willaman & Martha Haas Valentine Endowed Plant Protection Intern*, is a graduate of Temple University with a bachelor's degree in horticulture. A Levittown, PA native, Jenny decided to leave her job in digital marketing to pursue a career in horticulture. During her time at Temple, Jenny was very involved in the campus community, including the Pi Alpha Xi Horticulture Honor Society and the Landscape Architecture and Horticulture Association (LAHA).



Photos: Liza Hawley, Chelsea Melvin, Quinn Pape, Tiffany Stahl

Summer Adventure Fun!

TIFFANY STAHL, *Education Program Specialist*

LIZA HAWLEY, *Assistant Director, Visitor Education & Youth Programs*

Little Lightning Bugs and Bloomfield Buddies

This summer, Morris Arboretum's Bloomfield Buddies (ages 6 to 10) and Little Lightning Bugs (ages 4 & 5), spent six weeks of summer fun hiking through wooded trails, releasing magnificent monarch butterflies with children's book author Judith Levicoff, and observing snakes as they warmed their bodies in the sun at the Swan Pond. Campers spied juvenile bald eagles as they soared through the clouds, witnessed a turtle lay her eggs at Bloomfield Farm, danced through sprinklers, and played imaginative games on *Out on a Limb*.



We welcomed special presenters like the Arboretum's *Hay Honey Farm Natural Areas Intern* Samantha Nestory, who explained how she keeps the Arboretum's green roof on Bloomfield Farm looking so beautiful, searched for bluebirds, goldfinches, and swallows with birding expert Ruth Pfeffer, met Tom Stanton and "Cleo" the peregrine falcon, and learned local history through guided presentations by Ted Bell about our very own Springfield Mills. Campers also critically examined parts of a flower using a magnifying lens, dissected owl pellets, created exceptional art projects, and became one with nature through daily yoga sessions.

It was an unforgettable summer filled with fun adventures and new friendships. We hope that the hearts of our campers are filled with as many special memories as ours are here at the Morris Arboretum. We are already counting down the days until our young scientists join us again. See you all in June 2019!

Explorar! Summer Bridge Program at Morris Arboretum

The generous support of Morris Arboretum friends and local foundations enabled the Arboretum to offer another unique summer learning experience for 6th-9th graders from the ACLAMO Family Center in Norristown—the *Explorar!* Summer Bridge program. Now in its third year, the STEAM-based (Science, Technology, Engineering, Art, and Math) program provided six weeks of outdoor fun and exploration at the Arboretum, as well as weekly field trips. This year, the Arboretum hired three former *Explorar!* students as counselors-in-training, and they did an amazing job! The culminating project for the *Explorar!* participants was "Building a Sustainable City," using the information gathered over the summer, especially as they learned about the Arboretum's Platinum LEED-certified Horticulture Center.



Morris Arboretum Lecture Series

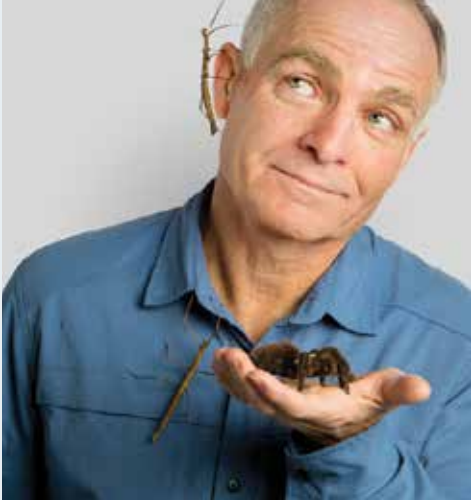
Lectures are \$15 for members and \$20 for non-members. To register, visit bit.ly/MorrisLectures or call (215) 247-5777 ext. 125

What a Warming World Means for Insect 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 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 in 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 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 peer institutions 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.



Conferences and Symposia

The Tree Canopy Conference explores how common tree care practices align with science and provides lessons on how we can become more effective advocates and practitioners. Participate in our conference on Friday, October 19 from 8:15 a.m.–5:00 p.m. at Haverford College in Haverford, PA, where professionals will share their successful tree canopy strategies with us. The cost is \$145, which includes lunch and snack breaks.

The 30th annual Winter Landscape Design Symposium will be held on January 10 and 11, 2019. This two-day symposium, held at Montgomery County Community College in Blue Bell, PA, is an in-depth examination of state-of-the-art naturalistic landscape design. Speakers represent a diverse and accomplished group of designers, horticulturists, ecologists, and artists in an interactive and informal setting. Continuing education units for landscape architects and designers will be available. Brochures will be available in November.

This conference is appropriate for landscape professionals as well as tree and native landscape enthusiasts. For more information, or to request a brochure, visit morrisarboretum.org, call (215) 247-5777, ext. 125, or e-mail jlm@upenn.edu.



Photo: Judy Miller

ArbNet Accreditation

SUSAN CRANE, *Director of Marketing*

The Morris Arboretum has once again been awarded the highest level of accreditation, Level IV, from ArbNet. An Arboretum Accreditation Program, ArbNet is set up to establish and share a widely recognized set of industry standards for the purpose of unifying the arboretum community. Achieving Level IV status makes Morris Arboretum one of only 19 arboreta world-wide to achieve this rank.

ArbNet, which is administered by the Morton Arboretum, is an interactive, collaborative, international community of arboreta and tree-focused professionals. This program facilitates the sharing of knowledge, experience, and other resources

to help arboreta meet their institutional goals and works to raise professional standards. To achieve Level IV accreditation, an arboretum must have the following criteria:

- A scientific and/or conservation staff and capability to collaborate in scientific or conservation activities with other arboreta or organizations related to trees.
- Institutional capacity, stability, and commitment to hold and safeguard plants of collections or conservation value on behalf of the collective interests of the profession.
- Specific participation in collaborative scientific or conservation activities related to trees, such as the North American Plant Collections Consortium or the Global Trees Campaign.
- Specific consideration of a conservation role linked to the Global Trees Campaign (globaltrees.org)

Speaking on behalf of the Morris Arboretum, *The Gayle E. Maloney Director of Horticulture and Curator*, Anthony Aiello said, "This level of certification acknowledges all of the work that we do in botanical and horticultural research and recognizes the significance of our diverse living collection. This collection not only provides interest to visitors throughout the year but is a scientific resource that is used for in-house and external research."



Photo: Paul W. Meyer

Fall Classes



Photo: Claire Sundquist

Fall is here! With more than 90 class offerings there is something for every interest. Come have fun, learn something new, and meet some fellow Arboretum friends. For a complete course brochure visit bit.ly/maclasses or call (215) 247-5777, ext. 125.

Add Fall and Winter Interest to your Garden

Monday, October 1, 7–8:30 p.m.
Members: \$25, non-members: \$30

Come learn ideas and a few new tricks to help create a home garden with four seasons of interest, for you and the wildlife who might be visiting your yard. In fall and winter, texture takes center stage. Discover which plants shine in the colder months. From seed heads to winter bloomers, you can grow something beautiful to look at all year round.

Illustrated Nature Journaling

Wednesday, October 3, 1–3 p.m.
Members: \$30, non-members: \$35

Working within the beautiful setting of Morris Arboretum, discover the art of illustrated journaling. Journaling can be a powerful tool as well as a rewarding hobby.

Make the Most of Climate Change

Wednesday, October 3, 6:30–8:30 p.m.
Members: \$25 non-members: \$30

Warming temperatures and extreme weather affect plant species and related insects that make up our ecosystem. Some species are adapting poorly, while others are responding too well. Invasive plants and pests increasingly threaten our native habitats and trusted garden strategies. This illustrated lecture will emphasize best horticultural practices to defend current plantings, introduce a range of necessary and desirable alternatives, and offer pragmatic suggestions for making the most of our changing climate.

Get Your Garden Ready for Winter

Thursday, October 11, 6:30–8 p.m.
Members: \$25, non-members: \$30

Do you spend every spring cleaning up “winter damage” on your plants? Plants like cherry laurel and rhododendron often struggle through the winter and require additional attention in the fall to prepare them for the cold. Find out what you can do now to prepare your plants for winter and say goodbye to winter damage.

Autumn Dawn Ramble

Sunday, October 14, 6:30–8:30 a.m.
Members: \$25, non-members: \$30

Daybreak is a special time in the Morris Arboretum’s natural lands and gardens. The sounds of wildlife carry in the cool and often misty air. Birds lift from their evening roosts. Late season flowers unfurl their dewy blooms. Expect an overland ramble as we explore what the season and nature offer the early riser. We plan to start at the wetland and ramble for a mile or more. Sunrise is at 7:10 a.m. **Wear good walking shoes and dress for the weather. Meet in the parking lot to the left of the entrance kiosk.**

The School of John Morris’s Dreams

Wednesday, October 17, 4:30–6 p.m.
Members: \$25, Non-members: \$30

We know a good bit about John Thompson Morris, the descendant of a prominent Colonial family of Philadelphia, who rose to the presidency of his father’s firm—the I.P. Morris Iron Works. We know he amassed an extraordinary collection of antiquities from around the world and turned the hilly terrain of Compton into world-class gardens that became the Morris Arboretum. But we know less about the institution he wanted to establish on his own property. Fortunately, from his correspondence and other documents, we can discern what he had in mind for his “institution with a three-fold object.” Join us for an in-depth exploration of The Morris Botanical Garden, School, and Museum.

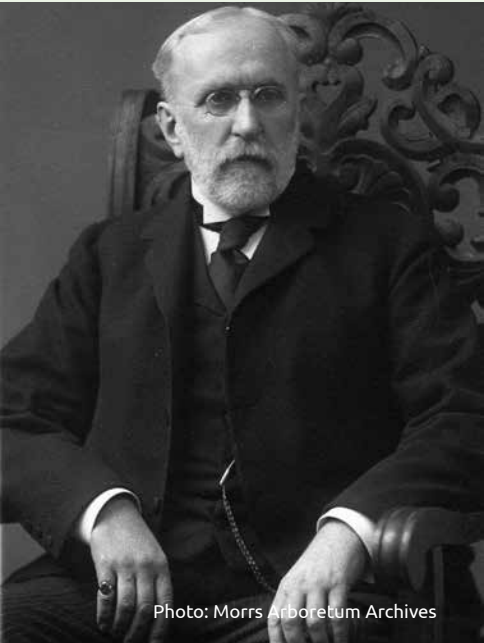


Photo: Morris Arboretum Archives



Adult Members: \$20, Adult non-members: \$25, Child members: \$10, Child non-members: \$15

Join us for a talk that focuses on the wondrous world of bats. We’ll learn about various species, their habitats, behavior, and how we can help them survive. **Participants are encouraged to bring flashlights. Children under the age of 16 should be accompanied by an adult. We will meet at Bloomfield Farm.**

LEGO® Mini Garden

Tuesday, November 6, 1–2 p.m., Members: \$35, non-members: \$40

Join us for a fun, hands-on workshop as we fill shallow planters with soil and live plants and build LEGO® structures to decorate a whimsical garden. All materials will be provided, including a variety of LEGO® bricks and figures.



Children and their caregivers can connect meaningfully with nature through this series of educational programs. Here are a just a few classes that are coming up this fall. Sign up at bit.ly/maclasses or call (215) 247-5777 x125.

Kids Photography Workshop (Ages 8-12)

Five Tuesdays: October 2, 9, 16, 23, 30 – 4–5:30 p.m.

Members for five-week session: \$100, non-members for five-week session: \$130

Kids will learn the basics of lighting, the rule of thirds, color theory, texture, and composition. **Everyone should have their own camera, know how to use it, and make sure that it has been charged before class. Film cameras are welcome. Smartphones are acceptable in cases where a camera is not available.**

Bat Chat: A Nighttime Discovery Walk

Thursday, October 11, 6–7p.m.

Scarecrow Walk 2018

October brings crisper temperatures, leaves crunching underfoot, and the Morris Arboretum Scarecrow Contest!

Back for the 11th year, this contest continues to be a favorite event among guests, attracting more visitors each year. Designers this year are challenged to create a ‘crow in keeping with the theme “A Moment in Time.” More than 30 scarecrows will be on display along the Oak Allée beginning October 6th, all the way through Halloween! Come and vote for your favorite which will help determine the top five prize winners!

Photos: Paul W. Meyer, Susan Crane, Marie Ingegneri



fall events

OCTOBER

Storytime at the Arboretum
*Friday, October 5,
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 case of inclement weather, Storytime is held in the Upper Gallery at the Visitor Center. Online pre-registration is required.

Fall Family Weekend
*Saturday, October 6 & Sunday,
October 7, 10am–3pm*

This weekend of autumn fun has become an annual tradition for many families. Make your own scarecrow, paint a pumpkin, sample different varieties of apples, and more. Weaver’s Way Co-op will be on hand with the season’s best local apple varieties. Some activities have an additional fee.

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 check the website at www.morrisarboretum.org for information or call (215) 247-5777, ext. 0.



Photo: Paul W. Meyer

Scarecrow Walk
*Saturday, October 6 through
Halloween, Wednesday, October 31*

The scarecrows are here! More than 30 scarecrows will be on display along Oak Allée. Come vote for your preferred scarecrow in the theme “A Moment in Time” to determine which ‘crows will be the top five prize winners!

Saturday Morning Live Tour
Saturday, October 6, 11am

Join an experienced guide for a featured tour of the month. Tour begins at Widener Visitor Center. This month’s tour highlights the Arboretum’s sculpture—fine examples of public art that complement the landscape and plant collection.

Nature Play
Saturday, October 7, 11am-3pm

Jump in leaf piles. Dig in the dirt. Discover what’s just out of sight. Nature play is unstructured fun using what’s available; learning to love nature and loving to learn naturally. Stop by anytime. This session will take place at the end of the Oak Allée, near the Three Tubes sculpture.

Lecture - What a Warming World Means for Insect Pest Outbreaks
Wednesday, October 10, 2pm
See page 15 for more information.

Photo at left: Arnold Winkler

Bat Banter: A Nighttime Discovery Walk
Thursday, October 11, 6-7pm

Learn about these nocturnal mammals in Pennsylvania, their habitats, their behavior, and how we can help. On this walk and talk we will observe these mysterious night flying acrobats as they catch their last seasonal meals before hibernating for the winter. *Adults: Members: \$20; Non-members: \$25; Children: members: \$10; Non-members: \$15.*

Dogs and Barks Tour
Saturdays, October 13 & 27, 11am

Join an experienced guide on this fun tour that has nothing to do with our four-legged friends, but rather the beautiful dogwood tree and its bark. The tour also features other trees such as shagbark hickory, paperbark maple, and lace-bark pine with striking bark formations that provide year-round interest. Tours begin at Widener Visitor Center.

Birds of Prey: Live Raptor Session
Sunday, October 20, 2-3pm

See and learn more about live birds of prey. Fall is a wonderful time of year to observe raptors and identify them as they migrate south. Learn about the history of these magnificent birds and today’s conservation efforts to save endangered species such as the peregrine falcon. *Adults: Members: \$20; Non-members: \$25; Children: members: \$10; Non-members: \$15.*

Bloomfield Farm Day/ Insider Art Show & Sale
Sunday, October 21, 12-4pm
Enjoy original art and craft works created by Morris Arboretum’s talented staff and members. There will also be demonstrations, music, food, a few animals, and the final opportunity of the year to tour the Springfield Mills.

Grist Mill Demonstration Day at Bloomfield Farm
Sunday, October 21, 12-4pm
Historic Springfield Mills at Morris Arboretum is restored and stone-grinding corn for meal and flour. Come explore revolutionary technology, local history, and a beautiful setting along the Wissahickon Creek. Guided tours.

NOVEMBER

Storytime at the Arboretum
*Friday, November 2,
10:30-11:15am*
See October 5 for more information.

Winter Wellness Walks
*Saturdays, November through
March, 10:30-11:30am*
Led by an experienced guide, these brisk walks will stick to the paved paths and get your heart rate up. Meet in front of the Widener Visitor Center.

Saturday Morning Live Tour
Saturday, November 3, 11am
See October 6 for more information. This month features native trees that are well suited to local growing conditions and support wildlife.

Lecture - The Living Legacy of George Nakashima
Wednesday, November 7, 2pm
See page 15 for more information.

Holiday Highlights and Winter Greenery Tour
*Saturdays, November 10 & 24,
2pm*
Explore the Arboretum’s collection of hollies and other broadleaf evergreens that enliven the winter landscape with their lush greenery. Tours begin at Widener Visitor Center.

Holiday Garden Railway Opening
*Friday, November 23 (open daily
through Sunday, December 31;
closed Christmas Eve and Day),
10am-4pm*
Come see the Holiday Garden Railway dressed in its wintry finest with twinkling lights and holiday decorations—a delight for both young and old.

DECEMBER

Winter Wellness Walks
*Saturdays, through March,
10:30-11:30am*
See November for more information.

Saturday Morning Live Tour
Saturday, December 1, 11am
See October 6 for more information. Join this month’s tour to view a selection of impressive conifers that provide multi-seasonal interest with an array of forms, foliage, bark, and of course, cones!

Holiday Garden Railway Nights and Premier Members Nights
*Thursday and Friday November
29 & 30 and Fridays and
Saturdays, December 1, 7, 8, 15,
21, 22, 4:30-7:30pm*
See back cover for more information.



Photo: Paul W. Meyer

fall events

Lecture - The National Arboretum’s Impact on the American Landscape
Wednesday, December 5, 2pm
See page 15 for more information.

Storytime at the Arboretum
*Friday, December 7,
10:30-11:15am*
See October 5 for more information.

Holiday Highlights and Winter Greenery Tour
*Saturdays, December 8 & 22,
2pm*
See November 10 for more information.

JANUARY

Winter Wellness Walks
*Saturdays through March, 10:30-
11:30am*
See November for more information.

Holiday Highlights and Winter Greenery Tour
Saturdays, January 12 & 26, 2pm
See November 10 for more information.

The Gift of Membership

Give the gift of membership. A Morris Arboretum membership is a gift that keeps on giving the entire year! Treat your loved ones to a full year of access to our spectacular garden and events. Your gift recipients will also receive discounts on educational courses taught by Arboretum experts and receive reciprocal admission privileges to over 300 gardens nationwide. There are three easy ways for purchasing a gift of membership:

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

PHONE – Reach the membership office directly at 215-247-5777 ext. 205 Monday through Friday 9am-5pm.

VISIT – Stop by the Visitor Center to purchase a gift card which can be redeemed for a membership online by the recipient. See sidebar for more information.

To ensure your gift membership materials are received by December 24, online and phone orders must be received by December 18.



Photo: Amanda DeLeo

Gift Cards

Morris Arboretum Gift Cards are now available! Gift cards may be used for:

- Items in the Shop
- Purchase of a Membership
- Admission
- Classes



Photo: Paul W. Meyer

Tributes & Memorial Gifts

The Morris Arboretum is grateful to the following donors who made tribute and memorial gifts before June 30, 2018.

In memory of Dorothy Albert
Robert Good*

In memory of Louis J. Appell, Jr.
Jody Appell
Powder Mill Foundation

In memory of Kenton L. Bachman
Georg & Janet Simon

In honor of Christine Bamberger
Ruth & Thomas Ferraro

In honor of Spencer Brennen
Cheryl Clearwater & William Brennen

In honor of Sandra L. Clapham
Leigh-Anne & Steve Spokane

In memory of Mary Disston
Sally Rue

In memory of Burton Froom
Alison & Brad Thornton

In honor of Ellen Hass
Ruth & Thomas Ferraro

In memory of Joan F. McCracken
James C. McCracken*

In memory of Delores Quinn
Katherine Kampmann

In memory of Joan S. Root
Susan & Michael Barnello*
Edith R. Dixon*
Sarah Winder Hargrove
Jane C. Keefer
Susan Reynolds

In honor of Maysie Starr
Catherine & Laurence Altman
Vivian & William Gast
Elizabeth & Robert Lukens

In honor of Liz Tyson
Ruth & Thomas Ferraro

In honor of Tom Walker's 90th Birthday
Steve Brown

In memory of Yoon Yulsman
Catherine Byrne
Adam Clark
Amrita Dalal
Ed Dismukes
The Dolfman family
The Garwood family
Engcher Goh
The Lasdon family
Mary Martin
Charlotte Ray
The Schwartz family
Kit & Marjan Voit

*We regret that these donors were not acknowledged in the last issue of *Seasons*.



Photo: Paul W. Meyer

Seasons newsletter is printed on FSC® (Forest Stewardship Council™) certified paper, which supports the growth of responsible forest management worldwide through its international standards.



Photo: Mark Stehle

Holiday Garden Railway Nights

Fridays and Saturdays, December 1, 7, 8, 14, 15, 21, 22, 4:30-7:30 p.m.

Bask in the glow of thousands of sparkling lights at these magical evenings that have become an Arboretum and family tradition. Snacks and light fare will be available at the Compton Café. These are ticketed events that sell out quickly. Timed tickets will be available beginning November 1.

Premier
Member
Benefit

Premier members are invited to enjoy a complimentary evening on either Thursday, November 29 or Friday, November 30. Beech, Chestnut, Holly, Oak, Laurel, and Collectors Circle members will receive an invitation. To make your upgrade today, contact the Membership office at 215-247-5777 ext. 205.