A Note from the Executive Director

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

Awakening the Senses

This autumn, after a thorough process of planning and development, a series of online, interactive guides and resources is available to enrich the Arboretum visitor experience. These tools, collectively titled *Awakening the Senses*, increase access and understanding of the Arboretum’s features and plant collections as never before.

They can be accessed at home to better plan a visit, or can be used while at the Arboretum with mobile devices. A new series of Wi-Fi hot spots will provide internet access in the Arboretum’s most heavily visited areas.

As a former curator, perhaps my favorite tool is the “Collection Connection.” This tool gives access to the Arboretum’s plant accession records and electronic mapping system. For example, visitors who want to learn more about the *Metasequoia* accession in the arboretum’s most heavily visited areas.

Those with broader interests can search, for example, *Acer* (maple) and see what species are represented by the Arboretum’s 160 accessions, and where they can be found. This will be useful not only to casual visitors, but also to staff, volunteers, and researchers. This is the first time our plant collections database is so widely and easily accessible.

Tour maps with images. Visitors can slide seamlessly between the old photo and the new to see how the Arboretum has changed, yet remained the same. This electronic time capsule has already elicited many “wows” from test audiences.

Families will especially enjoy the interactive children’s guide called “Arboretum Adventure.” This series of activities introduces children to plant science while they explore the Arboretum, guided by whimsical illustrations by cartoonist Todd Miyashiro.

Developing these programs required a huge team effort, with contributions from technical, creative, and curatorial experts. Leading this effort has been Stacey Kutish, who had formerly been with Swarthmore College and most recently completed a Masters in Museum Studies at the University of the Arts. *Awakening the Senses* has been supported by The Pew Center for Arts & Heritage. We owe a great debt to all who helped make this possible.

I invite you to explore these learning opportunities while visiting the Arboretum, or from your home computer. Try to find your favorite plants or features. Please let us know how these tools work for you and what suggestions you might have to improve navigation and content.

Paul W. Meyer

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*Morris Arboretum of the University of Pennsylvania*

**Publications**

To receive this publication, simply add morrisarboretum.org to your list of accepted senders or features. Please let us know how these tools work for you and what suggestions you might have to improve navigation and content.

[awakeningthesenses@morrismuseum.org](mailto:awakeningthesenses@morrismuseum.org) // [members@morrisarboretum.org](mailto:members@morrisarboretum.org)

**Back Issues**

Inquiries concerning back issues, missing issues, or subscriptions should be addressed to the editor.

**Contact**

For details contact the Rentals Team at (215) 247-5777, ext. 158.

**Horticulture Display, Public and Professional Education, and Botanical and Horticultural Research**

The Morris Arboretum of the University of Pennsylvania is an educational institution that promotes an understanding of the important relationships between plants, people, and place.

*Christine Pape, Editor*

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**Visit the Arboretum**

*100 East Northwestern Avenue, Philadelphia, PA*

**Visitor Entrance**

Sat/Sun, 10am–5pm (April–Oct.)

Wed, 10am–8pm (June, July, August)

**Information**

(215) 247-5777, ext. 158.

http://www.morrisarboretum.org

[Cover photo: Paul W. Meyer](mailto:Cover photo: Paul W. Meyer)
Explorar! ACLAMO Summer Bridge Program

The Morris Arboretum and the ACLAMO Family Center of Norristown have been exploring ways in which these two organizations might work together to strengthen Montgomery County’s at-risk children’s educational outcomes. The Explorar! ACLAMO 2016 Summer Bridge Program was designed to address this critically important issue. ACLAMO stands for Accion Comunal Latinoamericana de Montgomery County, or the Latin American Action Committee of Montgomery County. ACLAMO Family Centers is a charitable, non-profit organization that provides educational programs, social services and health access to Latino and other low income residents by empowering them to succeed and become productive members of society.

This six-week program was a summer pilot project that provided in-depth outdoor learning opportunities at the Morris Arboretum for approximately 90 English language learner (ELL) children who will enter first through ninth grades this fall, and who are currently enrolled in the ACLAMO Family Center of Norristown. The program utilized a STEAM-based educational approach, using lessons that integrated Science, Technology, Engineering, the arts, and Math to motivate this select group of young learners.

The Morris Arboretum’s education philosophy is that “children learn best when they can get their hands dirty!” The Explorar! ACLAMO Summer Bridge Program offered children a wide range of experiential opportunities that follow this philosophy—from studying trees and planting seeds, to exploring historic Springfield Mills and building simple machines, to collecting water samples in the wetlands, to writing poetry and creating sculptures inspired by the environment.

This new partnership was made possible with a lead grant of $10,000 from the Wells Fargo Foundation for educational enrichment. During the check presentation, Paul W. Meyer, the F. Otto Haas Executive Director of the Arboretum, said, “We are tremendously grateful for the Wells Fargo Foundation’s recognition of the importance of this project in enhancing the lives of our region’s most vulnerable population—our children. The commitment and support of Wells Fargo and its team members to our community serve as an inspiration to all of us.” With a shared commitment to the enrichment of educational opportunities for children from throughout southeastern Pennsylvania, the Raynier Institute & Foundation and the Dolfinger-McMahon Foundation also made significant grants to seed this pilot project.

The Morris Arboretum expresses its deepest appreciation to all of these funders, as well as the individual donors who made possible the Explorar! ACLAMO Summer Bridge Program through their extraordinary generosity.

New Board Chair Named

The Morris Arboretum’s Advisory Board of Managers elected Ellen Nalle Hass as its Chair for 2016-2017. Ellen has been a Board member for 14 years and has served on the Development, Board Development, and Moonlight & Roses committees, as well as on the Capital Campaign cabinet.

As a near neighbor, she and her husband Jay, and children Charlotte, Johnny, and Robert delight in The Morris Arboretum as a historic public garden, an educational institution, and a place for contemplative thought.

While still learning every day about the living collections, Ellen brings to the Board an understanding of fundraising and outreach from her previous job in major gifts at Springside Chestnut Hill Academy.

Ellen looks forward to continuing the Arboretum’s mission by helping lead and support its focus on environmental education, research, outreach, and horticultural display. She is inspired by naturalist Edward O. Wilson who says that “Nature holds the key to our aesthetic, intellectual, cognitive and even spiritual satisfaction.”

Corporate, Foundation and Government Funding Updates

The Morris Arboretum of the University of Pennsylvania receives tremendous philanthropic support from a wide array of individuals and organizations in order to accomplish its mission of “promoting an understanding of the relationship between plants, people, and place.” The Arboretum gratefully acknowledges recent contributions from the following funders whose generosity strengthens the work of this historic Philadelphia public garden and center for education.

General Operating Support

The Morris Arboretum is honored to be a 2016 recipient of a $14,771 grant, designated for general operating support, through the Philadelphia Cultural Fund. The Arboretum would also like to express its gratitude to Mayor Jim Kenney and the City Council for recognizing the value of the City of Philadelphia’s arts and cultural organizations through their continued support of the Philadelphia Cultural Fund.

The Christian R. & Mary F. Lindback Foundation also awarded the Arboretum a $3,000 general operating grant over three years, designated to provide unrestricted annual support for the Arboretum’s work and mission.

Garden Revitalization

The Marshall-Reynolds Foundation, known for its commitment to environmental conservation, has awarded an extraordinary $30,000 grant designated for the preservation of the Arboretum’s extensive Natural Areas, which comprise more than one-third of the public garden. Included in this project are seasonal staffing, an engineering assessment and recommendations for Paper Mill Run streambank modifications that incorporate both storm water control and habitat preservation, and the installation of new interpretive signage in the Natural Areas to increase learning opportunities for Arboretum visitors.

The Philadelphia Cultural Fund

The arboretum is an educational, horticultural and cultural institution that belongs to all of us.” With a shared commitment to environmental education, research, outreach, and horticultural display, Ellen has been a Board member for 14 years and has served on the Development, Board Development, and Moonlight & Roses committees, as well as on the Capital Campaign cabinet.

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“it is a tremendous honor to serve the board and Arboretum in this way as our family sees ourselves as stewards of this incredible habitat.”

-Ellen Hass
Experiencing the Arboretum Anew

STACEY KUTISH, Digital Interpretation Strategist

As Paul Meyer shared in his director’s letter, Awakening the Senses has arrived in the gardens, providing opportunities to seek the Collection Connection for plants of interest; take tours that will engage plant lovers, history buffs, and those seeking creative inspiration; and engage in plant science exploration while scampering, bouncing, and buzzing about the grounds on the Arboretum Adventure.

The Arboretum community has been wonderfully supportive of the Awakening the Senses project which is exploring the potential for interpretive innovation in the gardens. There has just been one lingering question that arises whenever I speak with a group about the project: “Why would we want people engaging with their phones in the garden?”

It is an important question to ask. One which, as a garden lover myself, I’ve thought about quite a bit. However, through research, reflection, and experience, I’ve come to embrace technology as a means of storytelling. Our primary goal remains to connect people to the collection, not their phones.

By embracing technology as an interpretive tool, we are able to provide access to new audiences. All of the Awakening the Senses projects are available on a desktop computer, as well as on a mobile device. This means that people planning a visit, or those who live too far away to make the trip, can get a richer sense of what they might find here. Horticultural enthusiasts around the world can search and learn from our collection records.

Online tools enable us to better support visitors. Our volunteer guides and staff are amazing and deeply committed, but they can’t be on hand to serve every visitor. New tours provide additional information to visitors who otherwise wouldn’t have a chance to be led about the gardens. And with ongoing support from the guides, we can imagine offering additional online tours in the future. It is exciting to think about visitors having their questions answered by our site, rather than turning elsewhere.

The Awakening the Senses projects also reflect what we have learned from our audience. In interviews with visitors, we learned that 84% of them carried smartphones with them in the garden. Mobile tours, information on the website, and social media posts were all popular ways by which visitors wanted to connect with information about the Arboretum. The history of the grounds and details about plants were areas of particular interest to visitors. In response, we developed content that responds to their interests. We’ve been able to explore the potential technology-based interpretation has to serve our arboretum and our plants through this project. With the support of The Pew Center for Arts & Heritage, we have been able to explore the potential for interpretive innovation in the gardens.

Returning to our primary goal, we aimed to connect visitors with compelling stories about the Arboretum and our plants through this project. With the support of The Pew Center for Arts & Heritage, we have been able to explore the potential technology-based interpretation has to serve our visitors, whether they are checking us out on the web, orienting themselves before a visit, or if they want to make use of the phone they are carrying in their pocket while walking the grounds. On your next visit, I encourage you to go to our website and explore the opportunities that Awakening the Senses provides for experiencing the Arboretum anew.

Faces of the Arboretum

LESLIE CRANE, Development Communications Associate

It all started with a gift of membership…

Shortly after their oldest son Shane was born, nature-lovers Greg and MaryAnne Monaghan were given a Gift of Membership to the Morris Arboretum. That first year, the new parents enjoyed walking the garden paths together with Shane tucked into his stroller.

As Shane grew older, and their second son Dylan was born, the Monaghans began to visit more frequently. Packing a lunch and meeting up with friends became a favorite way to spend the day.

Over the past decade, the family has explored every corner of the Arboretum’s gardens. They have meditated on the rocks by the stream, conjured up tales of witches in Seven Arches, decorated pumpkins during Fall Festival, experienced traditional Taiko drumming at the Japanese Cherry Blossom Festival, taken shelter from the cold winter weather in the Log Cabin—and of course spent many hours enjoying the trains in the Garden Railway.

The Monaghans enjoy the gardens year-round, and see themselves remaining members for many years to come.

This simple gift given to them years ago has blossomed into a lifetime of memories for the Monaghan family. Consider giving a Gift of Membership this holiday season!

Give the Gift of Membership

This holiday season treat family and friends to a gift that benefits them for an entire year - a Morris Arboretum membership! The garden and programs change throughout the seasons, so each visit offers something new. Your gift recipient will also receive discounts on educational courses taught by Arboretum experts and receive reciprocal admission privileges to more than 300 gardens nationwide.

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

VISIT – Stop by the Visitor Center to make your purchase. Temporary membership cards will be issued and you’ll receive signature Morris Arboretum packaging along with a free gift (while supplies last). And, while you are in the Shop, use your 10% member discount to purchase other holiday gifts (discount is not applicable towards membership purchases).

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

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

To ensure your gift membership materials are received by December 24, online and phone orders must be received by December 16.
Over the past year and a half, the historic section of the Arboretum known as Compton has undergone many transformations. These enhancements were envisioned in an effort to further engage visitors through varied styles of classic and progressive garden design. If you have been to the Arboretum recently, you’ve seen these changes taking shape. Whether you have been captivated by the Victorian inspired planters adorning the terrace at the Visitor Center or drawn to our new parking lot planting display, these changes have been hard to ignore.

Adjacent to the Pennock is the Gayle E. Maloney Garden. This “sister” garden to the Pennock Garden is often thought of as part of the same garden since they are so close proximally. These two gardens, along with the Orange balustrade, form a garden axis that has been an integral part of the Arboretum since the Morrises’ time. After the Pennock Garden installation was complete, the Maloney Garden went to the drafting table for an epic redesign. Since this garden lies between two other major Arboretum gardens, the concept of the potential these transformations can have on our visitors through varied styles of classic and progressive garden design was to combine elements of both to redefine the historic axis.

The design for the Maloney Garden was completed in late February 2016. This design also had the helpful hands of one of our interns, Lauren Weeks. Lauren had never designed a garden before, yet she became an instrumental part in the conceptualization of the new face of the Maloney Garden. The design style that was used to transform this garden is known as combination planting. This style utilizes perennial plants that work effectively in unison to produce an outstanding display. Choosing the right combinations of plants can be tricky, but when selected properly, they yield a fantastic display which is difficult to rival by most other styles of design.

The Alice & J. Liddon Pennock Flower Walk has become a great example of the potential these transformations can have on our staff, our visitors and our members. This garden was redesigned in late May 2015 by myself and our Horticulture intern at the time, Lauren Weeks. Lauren never designed a garden before, yet she became an instrumental part in the conceptualization of the new face of the Pennock Garden. The design style that was used to transform this garden is known as combination planting. This style utilizes perennial plants that work effectively in unison to produce an outstanding display. Choosing the right combinations of plants can be tricky, but when selected properly, they yield a fantastic display which is difficult to rival by most other styles of design.

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Become an Arboretum Guide

Every wish you could spend more time at the Morris Arboretum? Three days a week for the month of March, we are offering training on how to become a guide in our year-round tour program for school groups (and adults). Once you’re a guide, you’ll find it’s fun and rewarding and a great escape destination for an hour a week. Here is your opportunity to pass on your love of nature, year-round, among the ever-changing gardens.

For information on dates and times, please contact Liza Hawley at ehawley@upenn.edu or (215) 247-5777 x 128. Registration must be received by January 31.

Mini Munchers Make a Difference

LOUISE CLARKE, Horticulturist and Bloomfield Farm Section Leader

Bucolic Bloomfield Farm hosted Curley, Moe, Cinnamon, and Spice this summer as part of former Natural Lands intern Willa Rowan’s project. Made possible by an internal Penn Green Fund grant, the goal was to clear meadow that had become choked with poison ivy, oriental bittersweet, wineberry, and more. Green Goats, owned by Larry Cihanek of Rhinebeck, New York, provided the goats who grazed a fenced one-acre paddock this summer. Other strategies Willa tested as part of her project included chemical herbicides, mechanical (hand) removal of poison ivy, and repeated, timed mowings.

Our cloven-hoofed mini-munchers nibbled through the tender growing tips of many plants, and the shaded areas of their enclosure showed the most noticeable results. As the goats themselves were shorter than the vegetation, it was sometimes difficult to spot them. After grazing for a while, they rested under shady oaks and regurgitated their cud, aiding digestion. All four were very friendly, having been bottle-raised on Larry’s farm. They seemed to enjoy their daily visits from the horticulture staff, lining up for behind-the-ears scratching, petting, and the opportunity to tug at dangling keys or gloves.

In early August, Larry sent reinforcements—a squad of seven adults who could more quickly consume the invasive plants, and they immediately set to work upon arrival. With the team then eleven strong, results were noticeable. As the goats eat plants down to the soil, their efforts made it easier to manage the reclaimed meadow. Since they won’t be visiting us again, our future strategy will include more frequent mowings of the grazed area to prevent unwanted plants from re-establishing. The friendly, four-legged herbivores allowed the farm to manage a weedy area in an ecologically friendly way without using costly herbicides, while also reducing staff time and labor.

Summer Adventure Camp

When we think of summer, many images come to mind. For us here at the Morris Arboretum, summer is a time when we celebrate nature, sprout new friendships, and make sweet summer memories. This year, our budding camper scientists and nature artists walked miles together—exploring the Arboretum’s lush gardens, historic features, and hidden treasures.

Campers cooled off with water fun, conducted lots of experiments during Mad Science Mayhem Week, tapped into their inner Monet during arts weeks, and discovered the furry, feathery, scaly and fuzzy animals that live at the Morris Arboretum. The Summer Adventure Camp program continues to grow each year. Likewise, we look forward to seeing how all of our campers have grown when they return next year! Make plans to join us. Online registration will open in late January 2017.

Garden Railway Enhancements

This summer, the Garden Railway exhibit got a ‘facelift,’ garden style. New miniature plantings were incorporated into the intricate design of magical world surrounding the buildings, six of the historic buildings were recreated to scale, and a replica of the iconic Philadelphia Museum of Art was added to the permanent collection, along with the popular Waterworks building (along the Schuylkill), and the Fisher Fine Arts Library at the University of Pennsylvania. The summer theme of Awaken the Senses carried over to the railway site with five undersea vignettes that required peeking through peepholes to see the sea creatures.

For train aficionados, a scale model of the New York Central “Hudson” steam locomotive 5343, assembled in 1934, was added to the tracks. Built on a 4-6-4 frame (4 leading wheels, 6 drive wheels, 4 trailing wheels) this replica represents the last engine produced before the NY Central went to the streamlined version of the Hudson known as the 20th Century Limited.

Visitors of all ages continue to be thrilled by the Garden Railway, which is supported, in part, through the generosity of Gwen and Ed Asplundh, and gifts given in memory of Joe Shuttleworth.
Managers of properties with large lawn areas are often opting out of their weekly mow regime and allowing grasses to grow tall, with just a single annual mowing in the winter. This management regime saves energy, enhances rainwater infiltration, and enriches habitat. Over time, some wildflowers like goldenrod and Queen Anne’s lace, will naturalize on their own, while others will have to be planted.

For many years, I have managed two small meadows near my home with just one winter mowing and careful periodic removal of the most aggressive weeds, such as poison ivy. This weed removal can be done by hand or with the careful, judicious use of herbicides.

Also, I have been successful in adding divisions of tough, robust native perennials taken from my cottage gardens into my meadows. The varieties I select are tall and strong enough to compete with the unmown lawn grasses, and have bold, showy flowers that visually carry for a distance. Most of these plants are also great for pollinators like butterflies, moths, and various bees.

Typically, I divide the perennials from my garden in late fall or early spring. I then plant them within two-foot circles in the meadow which I have either sprayed earlier with herbicide or peeled off the turf with a spade. I tend to favor planting large clumps, to give the plants a head start in competing with the grasses. In the fall, I will often under plant with daffodils to provide early spring color.

In addition to showy, flowering perennials, I have also added dramatic native grasses like Panicum virgatum (switchgrass) and Schizachyrium scoparium (little bluestem). These are beautiful all summer long, and add form and texture to the winter meadow.

Once established, meadows are relatively low maintenance, but they do require a watchful eye. Weeds like Canada thistle, poison ivy and other woody invaders will quickly take over unless they are controlled early.

On the following page are a few of my most successful and reliable meadow favorites:

**Rudbeckia ‘Herbstsonne’ (Autumn Sun black-eyed Susan)**: This native species (pictured opposite page, top) grows to be six feet tall, and blooms from early July through frost if moisture is adequate. It is a good cut flower, and cutting encourages additional late blooms. A mass planting of these grows along the Arboretum’s main driveway near the entrance.

**Eupatorium purpureum (Joe Pye weed)**: Joe Pye weed (pictured top left and below right) is a very architectural plant, growing to more than seven feet tall. Its whirled leaves create a pagoda-like appearance, and its flowers, which occur in mid to late summer, are a bumblebee and butterfly favorite. Shorter cultivars like ‘Little Joe’ are also an option, especially for smaller spaces. This plant can be seen in the wetlands and near the stone bridge at the Swan Pond.

**Helianthus spp. (perennial sunflowers)**: There are many late summer flowering perennial sunflowers (pictured at left). Their flowers are typically much smaller and more profuse than the ubiquitous tall, annual sunflower, Helianthus annuus. My favorite is Helianthus angustifolius (swamp sunflower) whose brilliant sunny yellow flowers are prominent from mid-September through early October.

**Panicum virgatum (switchgrass)**: This clump-forming native grass (pictured below left) can grow to be six feet tall and equally wide. Many new cultivars are coming on the market, some with more compact stature and others, like ‘Heavy Metal’, have silvery-blue summer leaves. They are exquisite textural plants in the winter, especially on a frosty morning.

These are just of few of my successes. I encourage you to try a few of your own ideas.
Moonlight & Roses
presented by
THE HAVERFORD TRUST COMPANY

Moonlight & Roses presented by The Haverford Trust Company took place on Friday, June 3 with 480 guests in attendance. The rain stayed away and guests enjoyed a beautiful cocktail reception in the Rose Garden and savored dinner in the clear-top tent. Total revenue raised from this year’s event was $289,000, with all net proceeds supporting the Arboretum’s operations.

- Event co-chair Joann Lytle, Honoree Edith Dixon, Debra Rodgers, Paul Meyer, Ellin Dixon Miller, event co-chair Elizabeth Salata
- John and Gay Binswanger
- Jenny Rose Carey, Alice Burt, Sarah Lodge
- Leonard and Jane Korman, David and Linda Paskin
- Advisory Board Chair Jane Alavi with husband, Abbas
- Ellie Hanson, Andy and Amanda Cobb, Nanny Gifford
- Rosaleen Parsons, Ellin Dixon Miller, Ellen Hass, Cynthia Orr
- Guests of The Haverford Trust Company
- Brittney Goggin, Brendan McCabe, Lauren and Teddy Coleman
- Kathy Norris, Charles Ingersoll, Ellie Penneman

Photos: Mark Stehle
**November**

5 Winter Wellness Walks

**November 26**

6 Holiday Garden Railway Grand Opening

3 Winter Wellness Walks

**December**

2 Friday Night Lights

26 Holiday Garden Railway

22 Lecture: “GMOS: The Science, the Hope and the Real World”

**January**

7 Winter Wellness Walks

10 Conifer Tour

25 Holiday Garden Railway Display

26 Holiday Garden Railway Grand Opening

3 Winter Wellness Walks

**February**

7 Lecture: “Will We Find Trees on Other Planets?”

10 Conifer Tour

**October**

1 Garden Discovery Series: “Does your Nose Know?”

8 Small Trees Tour

5 Lecture: “The Intersection of Art and the Environment”

10 Conifer Tour

13 Garden Discovery Series: “Out into the Garden”

20 Garden Discovery Series: “Trees on Other Planets?”

20 Garden Discovery Series: “Fall into the Garden”

26 Winter Garden Railway

**November**

5 Winter Wellness Walks

8 Small Trees Tour

16 Bloomfield Farm Day

22 Bloomfield Farm Day

16 Bloomfield Farm Day

**December**

2 Friday Night Lights

5 Conifer Tour

7 Winter Wellness Walks

10 Conifer Tour

22 Lecture: “GMOS: The Science, the Hope and the Real World”
Photos: Amanda DeLeo

Curious about Conifers? bundle up and join knowledgeable guides for a special walking tour highlighting a selection of the wonderful specimens of conifers at Morris arboretum. These notable specimens provide multi-seasonal interest with an array of forms, foliage, bark, and of course, cones! Tours start at 2:00 p.m. on Saturdays, November 12 and 26, December 10, January 14, and 28. Don’t miss out on this opportunity to satisfy your curiosity and enhance your knowledge about this wonderful group of trees.

CHRISTOPHER DORMAN, Assistant Director for Visitor Services & Hospitality

He already has a closet full of ties and buys all his own golf balls. Plus, getting him another gift card just won’t show how much you care.

She bakes her own goodies and someone already took your great idea and got her tickets to the concert next week.

So what do you do for these beloved, if somewhat difficult-to-shop-for people? Pop into the Shop at Morris Arboretum, where you can find something for everyone on your gift-giving list, all while being able to pat yourself on the back for supporting an organization with a mission you believe in.

He may not need another tie, but he’ll be wowed when you give him a watch made out of wood. She doesn’t realize it yet, but some Morris Arboretum honey will go perfectly with those delicious biscuits she makes.

Keeping with our mission to connect people, place and plants, you’ll find a variety of items related to nature, the outdoors, and plants. Whether you want to get the kids outside to explore, nurture your friend’s gardening habit, or find something for the host of the party you are going to this Friday, we have you covered.

So the next time someone on your gift list has you stumped, stop in to see us. We would love to show you our locally crafted goods, our newest beeswax products, our great selection of books for adults and kids, and that wooden watch you’ve heard so much about.

The Shop at Morris Arboretum

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 the 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 new areas of focus in education or research. This year, the Arboretum welcomed interns from all over the U.S. Pictured from left to right are:

- Tess Adgie—The Charles S. Holman endowed Rose and Flower Garden Intern
- Emma Brown—The Martha S. Miller endowed Urban Forestry Intern
- Bess Trout—The Hay Honey Farm Endowed Natural Lands Intern
- Erin Holliman—The Alice & J. Liddon Pennock Jr. Endowed Horticulture Intern
- Alexandra Correia—The McLean Contributionship Endowed Education Intern
- Trista Crook—The Eli Kirk Price Endowed Flora of Pennsylvania Intern
- Anna Eisemann—The John J. Willaman & Martha Haas Valentine endowed Plant Protection Intern
- Jehane Samaha—The Martha J. Wallace endowed Plant Propagation Intern
- Kevin Brown—The Walter W. Root endowed Arborist Intern

Conifers Tour

Photos: Paul Meyer

A healthy tree canopy can conserve energy and reduce air pollution and storm water runoff. Join us on Thursday, October 13 from 8:30 a.m.-5 p.m. at Haverford College in Haverford, PA at our Tree Canopy Conference. We will look at tree canopy preservation and reduction both nationally and locally, and consider some of the greatest threats communities are facing as they try to preserve tree canopy cover. This conference carries 6 CEUs for ISA certified arborists. The cost is $125, which includes lunch and breaks.

On January 19 and 20, 2017, the 28th annual Winter Landscape Design Symposium will be held at Montgomery County Community College in Blue Bell, PA. This in-depth examination of the state of the art of naturalistic landscape design will include speakers representing a diverse and accomplished group of designers, horticulturists, ecologists, and artists in an interactive and informal setting. Continuing education units for landscape architects will be available. More information is available at morrisarboretum.org.

These events are appropriate for landscape professionals as well as tree and native landscape enthusiasts. For more information visit morrisarboretum.org, call (215) 247-5777, ext. 125, or e-mail jlm@upenn.edu.

Conferences and Symposia

Photos: Amanda DeLeo

Healthy tree canopy can conserve energy and reduce air pollution and storm water runoff. Join us on Thursday, October 13 from 8:30 a.m.-5 p.m. at Haverford College in Haverford, PA at our Tree Canopy Conference. We will look at tree canopy preservation and reduction both nationally and locally, and consider some of the greatest threats communities are facing as they try to preserve tree canopy cover. This conference carries 6 CEUs for ISA certified arborists. The cost is $125, which includes lunch and breaks.

On January 19 and 20, 2017, the 28th annual Winter Landscape Design Symposium will be held at Montgomery County Community College in Blue Bell, PA. This in-depth examination of the state of the art of naturalistic landscape design will include speakers representing a diverse and accomplished group of designers, horticulturists, ecologists, and artists in an interactive and informal setting. Continuing education units for landscape architects will be available. More information is available at morrisarboretum.org.

These events are appropriate for landscape professionals as well as tree and native landscape enthusiasts. For more information visit morrisarboretum.org, call (215) 247-5777, ext. 125, or e-mail jlm@upenn.edu.
This fall and winter, the Morris Arboretum is offering more captivating lectures designed to take you on fabulous journeys into the worlds the arts, humanities, sciences, exploration and sustainability. A reception follows each presentation. Reservations and payment are required in advance as space is limited. The cost is $15 for members and $20 for non-members. To register, visit https://online.morrisarboretum.org/classes, or call (215) 247-5777, ext. 125. Lectures are held at the Widener Visitor Center at Morris Arboretum unless otherwise noted.

**The Intersection of Art & the Environment**  
Diane Burko  
Wednesday, October 5, 2pm  
Focusing on monumental geological phenomena, Diane has been painting and photographing dramatic landscapes from the ground and from the air for 40 years, evolving as an artist into someone who uses her art to help us understand that our resources are not unlimited.

**The Invention of Nature: Alexander von Humboldt’s New World**  
Andrea Wulf  
Wednesday, November 9, 2pm  
NY Times bestselling author Andrea Wulf will take us on a fantastic voyage in the footsteps of naturalist and explorer Alexander von Humboldt and show us why the vision of this forgotten father of environmentalism has become more necessary today than ever before. This lecture is being presented in partnership with the Ambler Theater, and will be held at their location at 108 East Butler Avenue, Ambler, PA.

**The Greening of Space: Trees on Other Planets?**  
Derrick Pitts, Hon.D Chief Astronomer, Franklin Institute  
Wednesday, December 7, 2pm  
Sometime, after hundreds of light years of travel, could we actually arrive at a very familiar place with trees, grass, lakes, streams, and oxygen? Derrick Pitts tackles what we really know about the universe, what we think we know, and what questions astronomers would most like to answer.

**GMOs: The Science, the Hope and the Real World**  
Dr. Andrew Binns, Biology Professor, University of Pennsylvania  
Sunday, January 22, 2pm  
Dr. Binns will provide a brief summary of the science behind GMO production and ‘conventional’ breeding, discuss the positives and negatives from these two approaches, and examine how political and economic discourse affects decision making in relation to the utilization of these technologies.

**The Critical Role of Plants in the Urban Landscape**  
Dr. Ari Novy, Executive Director, U.S. Botanic Garden, Washington, D.C.  
Sunday, February 19, 2pm  
In this lecture, Dr. Ari Novy (pictured at right) will explore the use of ecology and agriculture to teach people about the importance of plants. Learn what Dr. Novy and the staff at the U.S. Botanic Garden have done to teach the public about the aesthetic, cultural, economic, therapeutic, and ecological importance of plants to the well-being of humankind.

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

Fall classes are in full swing! Learn something new, see the garden in new ways, and meet new people. For a complete course brochure visit https://online.morrisarboretum.org/classes, or call (215) 247-5777, ext. 125.

**Backyard Birds: How to Successfully Attract Birds to Your Home**  
Saturday, October 8, 1-3pm  
Members: $25, non-members: $30  
Having an up-close look at birds and their habits can be fun and educational. Discover some of the birds you can expect to see in your yard as cooler weather sets in. You will also learn some bird feeding basics such as feeder types and seed varieties, specifics on bird habits and preferences, as well as a preference chart to bring home with you.

**Last Chance Café: The Secret Life of a Goldenrod Field**  
Sunday, October 9, 1-2:30pm  
Members: $30, non-members: $35  
Goldenrod fields, the villains in thousands of allergy-relief commercials, are a critically important ecosystem for millions of butterflies, bugs, and birds—the last chance for life-saving pollen and nectar before the long winter sets in. On a walk through the Arboretum’s stunning goldenrod field, naturalist Mike Weilbacher will share the wonderful life histories of the many species we’ll find there—monarch butterflies, bumblebees, praying mantises, peacock flies, assassin bugs, and the plants themselves—asters, goldenrods, milkweeds, and thistles.

**Introducing the Gardeners of Compton**  
Tuesday, October 18, 6:30-8pm  
Members: $25, non-members: $30  
Come and meet some of the gardeners during the “Estate Years” when the century was young, and the Arboretum was known as Compton. John T. Morris and his sister Lydia, original owners of the Morris Arboretum, always wanted a botanical school and it appears they had one when Frank Gould was Head Gardener from 1898 to 1919. Dr. Joyce Munro, author and former dean at Chestnut Hill College, will introduce us to Mr. Gould, whose career included positions at prominent estates in England and Massachusetts. Then she will take us on a virtual tour of the astonishing estates the “under gardeners” moved to on their climb up to the Head Gardener ladder. Listen for famous names and recognizable places as we trace the gardeners’ journeys to estates near and far. We will conclude with a toast to these unsung gardeners, several of whom were skilled in viticulture.

**Making Sense of Latin Names**  
Wednesday, October 19, 6:30-8pm  
Members: $25, non-members: $30  
Latin names are great for helping gardeners and horticulturists discuss specific plants. Unlike the common name, the Latin name is unique to each plant. Scientific Latin plant names help describe both the “genus” and “species” of plants in order to better categorize them and avoid confusion caused by the often contradictory and multiple common names an individual plant may have. Join John Kasan and Joshua Darfler and learn more about Latin plant names, how proper nomenclature works, and why it changes.

**Best Bulbs for Your Spring Garden**  
Tuesday, October 25, 7-8:30pm  
Members: $25, non-members: $30  
Fall is the time for planting bulbs to create a colorful display in the spring. From small, winter-flowering snowdrops to large and colorful tulips, bulbs offer a huge choice of flowers, and can be used in borders, containers, or naturalized in the lawn. Julie will cover a wide variety of bulbs and their bloom time throughout the season. She will review planting techniques, bulb culture, and provide tips on care. Learn about must-have bulbs for your spring garden!
Fall Leaf Fun - Can you help predict fall color?

<table>
<thead>
<tr>
<th>If we have...</th>
<th>Then we’ll get...</th>
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<tbody>
<tr>
<td>Moist summer, good autumn conditions</td>
<td>Good fall color</td>
</tr>
<tr>
<td>Sunny autumn days with cool nights</td>
<td>More oranges and reds, vivid colors!</td>
</tr>
<tr>
<td>Frequent cloudy autumn days</td>
<td>More yellows, less intense reds and oranges</td>
</tr>
<tr>
<td>Severe drought in summer and fall</td>
<td>Early leaf drop, shorter season of color, more browns</td>
</tr>
<tr>
<td>Hard Freeze</td>
<td>Premature leaf drop, shortened season</td>
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Come to the Arboretum (or look in your own backyard) to find the leaves below. Use colored pencils or markers to color what you see!

Art Explorations in Nature (Ages 3-5)
Four Thursdays: October 13, 20, 27, and November 3, 10:30 - 11:30 a.m.
Members: $85, non-members: $100
Let's create art inspired by nature! This four-week series will engage kids in discovery and creativity. We will observe our natural world, explore different art materials, and make connections. Each session will include a walk through the Arboretum, a story or an introduction to an artist's work, and time for making art. Get ready to draw, paint, print, build, and play!

Kids' Holiday Centerpiece
Sunday, December 18, 11am–12:30pm
Members: $35, non-members: $40
Design a beautiful fresh flower and evergreen centerpiece to use on your family’s holiday table or to give as a gift. Working with fresh evergreens is fragrant and festive, and you will learn about fresh flower arranging as you produce your unique creation. To make it extra special you can add a candle, pine cones, ribbons, and flowers. Your finished arrangement will last for a minimum of two weeks. Success is guaranteed! This enjoyable and educational workshop is for kids from six to twelve years old. Bring a box to take home your creation.
Friday Night Lights at the Garden Railway

December 2, 9, 16, 23, & 30, 4:30-7:30pm

Don’t miss these delightful evenings that have become an Aboretum favorite! The magic of the holidays comes alive as thousands of sparkling lights adorn the tracks, and jolly trains chug around the festively decorated buildings. Snacks and light fare will be available at the Compton Café. This is a ticketed event. Tickets will be available via Ticket Leap beginning November 1. To purchase tickets go to http://bit.ly/MAhgr.

Photo: Mark Stehle