The Morris Arboretum of the University of Pennsylvania is an historic public garden and educational institution. It promotes an understanding of the relationship between plants, people, and place through programs that integrate science, art, and the humanities. The Arboretum conducts four major activities: education, research, outreach, and horticultural display. As the official Arboretum of the Commonwealth of Pennsylvania, the Morris Arboretum of the University of Pennsylvania provides research and outreach services to state agencies, community institutions and to citizens of Pennsylvania and beyond.

Information:  
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www.morrisarboretum.org  
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Volunteer  
Jennie Ciborowski, Editor

Contributors: Joan Kober, Joyce Munro, Deitra Arena, Lorraine Bucci, and all of the Morris Arboretum interns.

Questions, comments, and submissions can be directed to the editor at edintern@morrisarboretum.org or mailed to the Arboretum Attn: Education Intern.

Photos: Jennie Ciborowski, unless otherwise stated

Cover Photo: *Hamamelis x intermedia* ‘Rubin’ buds are bursting open at the Arboretum.

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*Cover Photo: Hamamelis x intermedia ‘Rubin’ buds are bursting open at the Arboretum.*

*Crocus chrysanthus*  
snow crocus

*Ardea herodias*  
great blue heron
If you take a walk around the Arboretum you will notice that spring is getting nearer with every step. Snowdrops, hellebores, and winter aconites are bursting through the soil and dappling the melting winter landscape with bursts of color. Signs of spring allow us to breathe a breath of fresh air and while I am not fully convinced that winter is over I welcome the thought of warmer weather. As the temperatures slowly shift upward I am most looking forward to leaf and flower buds bursting open in the coming months.

Prior to coming to the Arboretum I had never really given much thought to a bud. I knew they were an important part of the plant serving the role of protecting delicate material from adverse weather conditions, but had never taken the time to really analyze them. I have come to learn that buds can provide a great deal of winter interest in the Arboretum. Both herbaceous and woody plants produce buds in all shapes and sizes. These buds will burst forth in the coming months becoming new leaves or flowers and I admire the promise of life they bring to the environment. Make sure you catch a glimpse of the changing seasons at Morris Arboretum and look to the buds for the arrival of spring.

Best Wishes,
Jennie Ciborowski
The McLean Contributionship
Endowed Education Intern
I think you will all agree with me that winter is a perfect time to enjoy both the beauty of conifers and the wonder of nature at its most elemental level. It is also an ideal time to clean out closets as you never know what treasures you will find in your personal archives. I found an interesting article on Victorian Etiquette compiled by former intern Lindsey Weikel. I hope you enjoy some highlights of what it was like to actually live in the time of John and Lydia.

**Basic Rules of Etiquette**
- Remember that, valuable as is the gift of speech, silence is often more valuable
- Learn to say kind and pleasant things when opportunity offers
- Never make yourself the hero of your own story

**Etiquette of Conversation**
- Recollect that the object of conversation is to entertain and amuse
- Do not always commence a conversation by an allusion to the weather
- Do not use language that will bring the blush to any person

**Etiquette When Visiting**
- Do not introduce politics, religion or weighty topics for conversation when making calls
- Do not, if a gentleman, seat yourself upon the sofa beside the hostess, unless invited to do so

**Language of Flowers**
- The first “Flower Dictionary” was written by Mme. Charlotte de la tour in 1818 and it was entitled *Le Language des Fleurs*. A Victorian woman named Miss Corruthers of Inverness wrote another book on the subject in 1879. This book has become the standard of flower symbolism.
- Flowers were used for much more than their beauty during the Victorian Era as each flower had a special meaning - this is a good example of one of the clever ways that people circumvented the complicated social rules that governed every aspect of their lives. Some examples include: azalea (temperance), daisy (innocence), holly (foresight), lavender (distrust), ivy (fidelity), lily (purity), marigold (sorrow), oak (hospitality), rhododendron (danger), rose (simplicity), violet (faithfulness) and zinnia (thoughts of absent friends)

Spring is just around the corner – looking forward to meeting all of you in the garden soon and don’t forget to use perfect garden etiquette!!

Joan Kober

Compiled from the *Essential Handbook of Victorian Etiquette* by Thomas Hills
Volunteer Workshops and Opportunities

Introducing a Volunteers’ Book Club:

*Lab Girl* by Hope Jahren

Friday, March 2nd | 1:00 p.m. | Gates Hall Conference Room


This fascinating, well-written memoir will engage and invite you along on Hope’s journey to become (and prosper as) a scientist. Her personal frankness in meeting challenges is inspirational, and she delivers the message with her own spirited voice and personality. *Lab Girl* is sure to spark thoughtful conversations throughout the community.

Geobiologist Hope Jahren has spent her life studying trees, flowers, seeds, and soil. *Lab Girl* is her revelatory treatise on plant life - but it is also a celebration of the lifelong curiosity, humility, and passion that drive every scientist. Warm, luminous, compulsively readable, *Lab Girl* vividly demonstrates the mountains that we can move when love and work come together.

For additional information, or if you are interested in a monthly volunteer’s book club, please contact Deitra Arena at deitraarena@gmail.com or 610-716-9720.

*Lab Girl* photo credit: Penguin Random House
Volunteer Workshops and Opportunities

Winter Witchhazel Walk

**Saturdays, March 3rd & 10th | 2:00 p.m. | Widener Terrace**

The Winter Witchhazel tour is returning for another season! The Morris Arboretum witchhazel collection is one of the largest in the country. Join this wonderful tour to learn more about these fascinating winter-blooming shrubs that add surprising bursts of color and fragrance to the winter landscape. Enhance your guiding repertoire with some fun facts about different species and cultivars of varying blooming times, color, and fragrance.

Spring Guiding Sign-Up

Lisa Bailey has e-mailed guides to sign up for Spring guiding. Please select your primary and alternate guiding days for the upcoming season. Remember to hold your primary day two weeks out before setting other appointments (vacations and illness excluded, of course).

Lisa can be reached at BaileyL@upenn.edu

Thanks to every one of you for the wonderful experiences you provide to our student and adult groups!
Volunteer Workshops and Opportunities

Scott Arboretum Spring Celebration

Sunday, March 18th | 4:00 p.m. | Lang Performing Arts Center - Swarthmore College

Join us to hear Paul W. Meyer, the 2018 recipient of the Scott Medal and Award, speak about his passion for horticulture, commitment to sustainability, and exploration of the world in search of good garden plants. A champagne toast and hor d’oeuvers will follow the presentation. Please register either by phone at (610) 328-8025 or click here for online registration. Parking for this event will be very limited, please consider carpooling or using public transportation.

English Park Workshop

Tuesday, March 20th | 11:00 a.m. | Classroom

Dating from 1912 and restored beginning in the 1970's, English Park contains significant collections of maples, witchhazels, dogwoods, cherries, and stewartias. The plants in this section span a full century of collecting, starting with the Morrices and continuing to the present day. Join Kate Deregibus, English Park Horticulturist, Section Leader and Swankeeper, as she highlights the English Park in the 21st Century. Meet at the Upper Gallery and, if weather permits, we will walk to the English Park.
Volunteer Workshops and Opportunities

Visit the Garden of Jenny Rose Carey
Senior Director at PHS’s Meadowbrook Farm

Monday, April 16th | 9:15 a.m. - 1:15 p.m.

This visit is timed to highlight the spring ephemerals in the shade garden, a tie in with Jenny’s recent book ‘Glorious Shade’, which will be available for sale ($25 cash or check) and signing. Come learn the names, growth habits, propagation, and soil requirements for a wide variety of plants during her talk and ‘Show-n-Tell’ in the Carriage House. Secondly, it is a chance to see the collection of historic daffodils - bred prior to 1940 that Jenny has collected - an A-Y of named cultivars.

Van transportation and carpools will leave from the Arboretum at 9:15 a.m. Please sign up via the Team Up calendar or contact Lisa Bailey at baileyl@upenn.edu if you are having trouble with Team Up. Dress appropriately for the weather with garden footwear and bring your own lunch, drinks will be provided. This event will take place under cover in Jenny’s Carriage House which has seating for approximately 36 people. A suggested donation of $5 per person is requested to support the gardens and interns of PHS’s Meadowbrook Farm.

Arbor Week Sign-Ups

Share your love and knowledge of trees with children during our annual Arbor Week Program. We are in need of volunteers for a variety of activities throughout the week of April 23rd - 27th. Sign up via the Team Up calendar, and feel free to volunteer for more than one time slot!
Intern Presentations

Wednesday, March 14th | 12:30 - 2:30 p.m. | Upper Gallery

Trees for the Future: Horticulture and Forestry in a Changing Climate
Max Paschall, The Walter W. Root Endowed Arborist Intern
Climate change threatens to wreak environmental havoc in the coming years, but there are ways to proactively mitigate its effects in our own backyards. Max will explore the idea of assisted migration and provide practical tools that anyone can use to increase biodiversity and create resilient plantings, especially in the context of Morris Arboretum and Philadelphia’s urban forest.

The Historical Phytogeography of Cirsium arvense, an Invasive Species in Pennsylvania
Janet Mansaray, The Eli Kirk Price Endowed Flora of PA Intern
There is limited research on the distribution Cirsium arvense (Canada thistle) in Pennsylvania. It is important to study the spread of C. arvense throughout time to gain better insight on habitat preference and feasibility of eradication. Using herbarium records from as early as the mid-1800s, Janet has generated distribution maps to see if there are shifts in habitat preference. In addition, the data will provide an overview of the expansion of the species from its relative introduction into Pennsylvania to its current localities.

Index of Invasiveness on Cultivars of Acer palmatum
Wayne is looking at different cultivars of Acer palmatum, the Japanese maple, to see if any of them have tendencies to be more invasive than others. Japanese maple seedlings have been found throughout the natural areas of the Arboretum as well as naturalized individuals in the Wissahickon Valley Park and the woodlands around the United States National Arboretum in D.C.. Wayne is working to produce a list of recommendations to limit the spread of seedlings by identifying cultivars with lower seed production and/or viability.
What is a Tree Worth? An Appraisal of the University of Pennsylvania’s Campus Tree Population

*Eric Moore, The Martha S. Miller and Rusty Miller Endowed Urban Forestry Intern*

For this project, Eric will be assigning a monetary value to the University of Pennsylvania’s population of approximately 6,700 campus trees. Using methods employed by the Council of Tree and Landscape Appraisers, Eric will determine replacement costs for trees among various size classes. Collectively, this information will serve to: reduce loss of campus trees through preservation and maintenance, establish and enforce rigorous tree protection protocols, and educate and inform parties involved in construction about the value of trees.

Evaluation and Interpretation of Roses in the Rose Garden

*Erin Conley, The Charles S. Holman Endowed Rose and Flower Garden Intern*

This project aims to add rose qualities to the existing database for use by future employees and rosarians to better be able to evaluate roses. The historical significance of specific roses will also be interpreted with the end result of the information being available to the public. This will allow the evaluation of the roses to be determined based on both performance and historical significance.

Fernery Interpretation Redesign: Highlighting Morris Arboretum’s Collection

*Jennie Ciborowski, The McLean Contributionship Endowed Education Intern*

Jennie is updating the outdated signs that currently reside in the Fernery Plaza. New panels with updated design, content, and graphics will be installed. These interpretive panels will discuss the highlights of the Morris Arboretum Collection and follow a plant’s journey at the Morris Arboretum through acquisition, propagation, production, and distribution.
Intern Presentations

Wednesday, April 11th | 12:30 - 2:30 p.m. | Upper Gallery

Insect Community Study of the Intensive Green Roof
Sam Nestory, The Hay Honey Farm Endowed Natural Lands Intern
Green roofs can be important habitat in urban ecosystems, especially for small wildlife like insects. Sam is evaluating the insect biodiversity on Bloomfield Farm’s intensive green roof, focusing on a few important groups. Based on her findings, she will make planting and management suggestions to improve the function and diversity of the insect community.

Developing a Treatment Protocol for Greenhouse Thrips (Heliothrips haemorrhoidalis) for the Morris Arboretum’s Greenhouse Complex
Amanda Quadrel, The John J. Willaman & Martha Haas Valentine Endowed Plant Protection Intern
At the Morris Arboretum, the greenhouse thrips (Heliothrips haemorrhoidalis) have been one of the most serious pests to plague the greenhouse complex. If left unchecked, the thrips can cause an entire plant to die. Therefore, for this project, the goal is to establish an effective treatment of these thrips to prevent further damage of greenhouse plants.

Garden Railway Foyer Redesign
Jen is creating a new design for the area across from the entrance to the garden railway. This is a highly trafficked area, so one of the goals is to increase the grass area for visitors to step off or pull strollers off the road. Additionally, the planting scheme will aim to be cohesive and low maintenance with four seasons of interest.
As early as the first century, the ancient Greeks used rose oil to cure ills and treat soreness, aches, and inflammations. In modern times, rose oil is used in aromatherapy, applied to the skin as a moisturizer, or added to homemade soaps for its fragrance. The current price of rose oil is between $20 and $30 for a single milliliter to between $115 and $215 for five milliliters. One hundred milliliters of rose oil, the largest container of liquids allowed on an airplane, can cost up to $3,000.

The most common method of producing rose oil is steam distillation. The rose petals are placed inside a chamber where steam is used to break down the constituents containing the desired oils. This steam carries the constituents upward into a condenser where the steam returns to a liquid form. This oil can then be separated and collected.

The highest quality of rose oil in the world is produced in the “Valley of Roses”, a region in Bulgaria that is known for its historical significance in producing rose oil. The mild winters plus plentiful precipitation in May and June produce roses with blooms containing a high percentage of oil. 1 kilogram (2.2 pounds) of rose oil can require between 3,000 and 4,000 kilograms (6,614 and 8,818 pounds) of rose petals. *Rosa* ‘Kazanlik’ is one variety that has been grown to produce rose oil for almost 300 hundred years. A specimen of ‘Kazanlik’ is located in the Morris Arboretum Rose Garden and is still vital in the production of rose oil today.
Tu B’Shevat

Thank you so much for all of the volunteers that helped out with our yearly Tu B’Shevat program at Morris Arboretum and celebrated the Jewish New Year of Trees. Students of all ages had the opportunity to plant birch seedlings, tour the Arboretum, and participate in a game show and roots exhibit. A wonderful time was enjoyed by all involved!
Continuing Education

Flowers 101: Simple, Easy, Spectacular Arrangements
Cheryl Wilks, Floral Educator, Florist, and Owner of Flowers on Location
Sunday, March 18 | 11:00 a.m. - 3:00 p.m.
Spend a relaxing day at the Arboretum learning the tricks of the trade in designing fresh flower arrangements. Arranging flowers is a wonderful way to connect with nature and nurture your creativity. Come out and learn how to arrange loose stems in a vase!
Volunteer price: $70.00

Design Your Own Jewelry
Y’vonne Page-Magnus, Creative Director, Design-Your-Own-Jewelry
Saturday, March 24 | 1:30 - 4:00 p.m.
Design your own beautiful jewelry out of semi-precious stones and fresh water pearls. In this class you will make a pair of earrings, a necklace, and a pendant using basic wire wrapping techniques. Afternoon tea and delicious cupcakes will be served and you will be dressed for the occasion!
Volunteer price: $55.00

Get Outside! Hiking in and Around Philadelphia
Lori Litchman, Author and Hiking Enthusiast
Sunday, March 25 | 1:30 - 2:30 p.m.
Pennsylvania literally means “Penn’s Woods,” and the state offers us so much forest to explore both in and near Philadelphia! Join author and hiking enthusiast Lori Litchman who will talk about her new book, 60 Hikes within 60 Miles: Philadelphia, and share information about the best trails to try both inside city limits and in and around the Delaware Valley.
Volunteer price: $10.00

Beneficial Bugs in your Garden
Samantha Nestory, The Hay Honey Farm Endowed Natural Lands Intern, Morris Arboretum
Tuesday, March 27 | 6:30 - 8:00 p.m.
Did you know that less than 1% of insect species are considered pests? That leaves a lot of room for insects that we can learn to love! In this class, we will learn about the benefits of bugs, and also how to identify and attract them to your garden.
Volunteer price: $13.00

Volunteers who have worked over 30 hours during the past year may take Morris Arboretum classes at a discounted price. Please refer to the Volunteer Price Spreadsheet in the Education Office for a complete list of volunteer class pricing. To sign up for a class please call (215) 247-5777 ext. 125.
**Continuing Education**

Join us for the Morris Arboretum Lecture Series and explore a wide variety of fascinating topics. A reception will follow each lecture. Reservations and payment ($7.50) are required in advance as space is limited. To register please call (215) 247-5777 ext. 125.

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**Collections Breed Success at the National Arboretum**

**Wednesday, March 21st | 2:00 pm**

Dr. Richard T. Olson - Director of the United States National Arboretum

The National Arboretum’s plant breeding and exploration programs have contributed to diverse and sustainable American landscapes. Learn about its collections, its collaborations with peers such as Morris Arboretum, and how exciting new ventures will continue to expand the relevance and impact of the National Arboretum.

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**Brewing and Malting in Early Philadelphia**

**Thursday, April 19th | 7:00 pm**

Rich Wagner - Pennsylvania Brewery Historian

Anthony Morris, ancestor of Arboretum founders, John and Lydia Morris, became Philadelphia’s second brewer in 1687. Philadelphia has a rich history of brewing and once produced more beer than all of the other colonies combined. Get an insider’s look of the city’s earliest breweries in this educational presentation.
From the Archives

by Joyce H. Munro

The year was 1925. The Smithsonian Institution was poised to release the first volume in a new and wholly unique series, North American Wild Flowers, featuring 400 life-size illustrations of flowers by artist/naturalist Mary Vaux Walcott.

This series was apparently of great interest to Lydia Morris because she paid for it before the first volume was released. In fact, Lydia was the eleventh person on the list of patrons, just ahead of names like DuPont, Rockefeller and Carnegie. Only 500 copies of the deluxe edition (five leather and linen bound volumes encased in linen-wrapped boxes with the Smithsonian seal on the cover) were published and the price was $500. For that price, Lydia received not only a life’s worth of delicately sketched wildflowers in a set of luxury books worth keeping on the coffee table, but also Mary’s easy-to-comprehend descriptions of the specimens, with just a smidgen of scientific terminology.

This project wasn’t a frolic in a meadow for Mary. In the Forward, she admitted; “Many of the western sketches were made under trying conditions. Often, on a mountain side or high pass, a fire was necessary to warm stiffened fingers and body. In camp, the diffused light of the white tent was a great handicap, and considerable ingenuity was required to obtain a proper combination of light and shade.” Happily for her original patrons and those of us—95 years later—who are aficionados of her artistry, Mary surmounted those trying conditions.

Interestingly, Lydia’s receipt was signed by Charles Walcott, geologist, Secretary of the Smithsonian . . . and Mary’s husband. There’s another reason Lydia may have invested in Mary’s series—they were first cousins twice removed.

For more on Mary Morris Vaux Walcott—artist, botanist, mountain-climber, Washington DC hostess—read The Life and Times of Mary Vaux Walcott by Marjorie Gelb Jones (Schiffer, 2015).

And you can view all five volumes on Biodiversity Heritage Library here.
Garden Highlights

**Adonis amurensis**
- adonis
- Dawn Redwood Grove

**Helleborus orientalis**
- lenten rose
- Out on a Limb

**Crocus tommasinianus**
- tommy crocus
- Two Lines

**Leucojum vernum**
- spring snowflake
- Log Cabin

**Hamamelis vernalis 'KLMnineteen'**
- AUTUMN EMBERS vernal witchhazel
- Meadow Garden

**Eranthis hyemalis**
- winter aconite
- Near the Greenhouse

**VOLUNTEER**
Upcoming Events

March 2018

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Weekly Volunteer Events

**Wednesdays:** Horticulture Volunteers 8:30 am - 12 noon
**Saturdays and Sundays:** Regular Tour 2:00 - 3:00 pm
**Saturdays:** Winter Wellness Walks 10:30 - 11:30 am
**Sundays:** Winter Wellness Walks 1:00 pm
## Upcoming Events

### April 2018

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