

1 Morris Arboretum classes

Continuing Education
Spring 2013

GROWING MINDS

Kids' Nature Photography

CULINARY ADVENTURES

Tea Tasting and History

BOTANY

Identification of our Spring Flora

HEALTH AND WELLNESS

Meditation and Mindfulness

TRIPS

Grounds for Sculpture

HORTICULTURE

Coming Up Roses!



Morris Arboretum
UNIVERSITY of PENNSYLVANIA

become a member and save

All Membership Levels Include:

- FREE unlimited admission for an entire year.
- Complimentary one-time use guest passes.*
- DISCOUNTS in the Shop, at the Café, and on educational classes and excursions.
- DISCOUNTS at local garden centers and other retailers.
- FREE admission to special events.
- MEMBERS ONLY Plant Sale Day, plus 1 FREE bonus plant.
- RECIPROCAL ADMISSION privileges to over 200 gardens.
- Seasons newsletter.
- E-Newsletter, keeps you up-to-date on all our events.
- Morris Arboretum automobile decal.

General Memberships

Individual

- \$60 (1 Year Membership) 2 free passes*
- \$115 (2 Year Membership ~ Save \$5) 4 free passes*
- Admits one named member.

Dual

- \$75 (1 Year Membership) 2 free passes*
- \$140 (2 Year Membership ~ Save \$10) 4 free passes*
- Admits two named membership cardholders.

Family

- \$90 (1 Year Membership) 2 free passes*
- \$170 (2 Year Membership ~ Save \$10) 4 free passes*
- Admits up to two named membership cardholders and their children 18 and under (or up to 4 grandchildren).

Premier Memberships

Premier Memberships admit up to two named membership cardholders and their children (or up to 4 grandchildren) 18 and under.

Beech \$115 4 free passes*

- \$220 (2 Year Membership ~ Save \$10) 8 free passes*
- Members enjoy all the general benefits, plus
- Invitation to the Holiday Garden Railway Evening.
- Invitation to a reception with an Endowed Lecture Series speaker.

Chestnut \$165 6 free passes*

- Members enjoy all the benefits of Beech, plus
- BRING 2 FRIENDS – Save your guest passes. Show your membership card and get free admission for two additional friends every time you visit the Arboretum.
- Attend the Plant Sale Preview.

Holly \$250 6 free passes*

- Members enjoy all the benefits of Chestnut, plus
- Beautiful full-color calendar.
- Invitations to exclusive Arboretum events for Premier members.
- Additional bonus plant at the Plant Sale (2 total).

Enjoy additional benefits at the Oak (\$500), Laurel (\$1,000) and Katsura (\$2,500) membership levels. Please call for details or visit our website.

RENEW OR JOIN NOW ONLINE AT
www.morrisarboretum.org

**\$16 retail value per pass*

Membership Level _____ ☐ NEW ☐ RENEW (Member ID _____)

Primary Member Name (Mr./Ms./Mrs.) _____

Secondary Member Name _____ # of children _____

(list up to two names for Dual Membership or higher and number of children for Family or higher)

Address _____

City _____ State _____ Zip Code _____

Phone _____ Email _____

Please make membership and course payment separately.

Checks payable to the Morris Arboretum – Membership Dues Enclosed \$ _____

☐ Check ☐ Visa ☐ MasterCard ☐ AmEx ☐ Discover CVC #: _____

Expires: _____

Signature: _____

about the morris arboretum

The Morris Arboretum of the University of Pennsylvania

is an educational institution that promotes an understanding of the important relationships between people and plants. Founded in 1887 as the private estate of John and Lydia Morris, brother and sister, the Arboretum today is an interdisciplinary center that integrates art, science, and the humanities. It is the official arboretum of the Commonwealth of Pennsylvania. It is listed in the National Register of Historic Places and is accredited by the American Association of Museums.

The 167-acre public garden, located in the Chestnut Hill section of Philadelphia, provides an idyllic setting for historical architectural features as well as provides a fine collection of contemporary sculpture. Specialty garden areas include the Rose Garden, Swan Pond, English Park, Asian gardens, meadows, and woodlands.

Over 12,000 labeled woody plants from around the world grow here along with superior plants for urban and community landscapes. The Arboretum provides internships, school tours, adult and professional education, lectures, and other special events.

Come visit us. Admission is \$16 for adults, \$14 for seniors, \$7 for students and children ages 3 to 18 years. It is free to members and children under 3. Special tours for the public are held on Saturdays and Sundays at 2 p.m. Other tours by reservation only; please call (215) 247-5777, ext. 157. The Arboretum is open 10 a.m. – 4 p.m. November to March; 10 a.m. – 5 p.m. on weekends from April to October. It is closed Thanksgiving Day, Christmas Eve, Christmas Day, and New Year's Day. Visit our web site regularly at www.morrisarboretum.org for information on what's happening in the garden.

Please note: Parking adjacent to the Visitor Center is sometimes at full capacity on nice weather weekends. If you visit after noon, you may be required to park at the bottom of the hill and be shuttled into the garden.



Illustrations by Anna Aniško from
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Illustrated Manual*. Used with
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Cover image by Judy Miller

at a glance

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at a glance

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23	8:30 a.m.	Yoga <i>Out on a Limb</i>	8

visitor education volunteer training

- ✿ Play a key role at the Arboretum by welcoming visitors and leading tours.
- ✿ Meet Arboretum staff; attend workshops, lectures, and field trips.
- ✿ Enthusiasm and an interest in the environment are all you need!

No matter what your background, you can become a great education volunteer, making a positive contribution to the Arboretum and the community at large.

All volunteers are encouraged to take all the classes, but Hospitality volunteers, interested exclusively in “welcoming” roles, are only required to attend the first week.



Week 1 – *History and the Arboretum as an organization; orientation tours to help you understand these subjects and get a feel for the Arboretum grounds*

Week 2 – *Botany from crown to roots and the tours that will help you learn and teach these concepts*

Week 3 – *Water Features, Sculpture, and Architectural Features of the Arboretum*

For an application form or more information, please contact Liza Hawley, Visitor Education Coordinator, at efhawley@upenn.edu or 215- 247-5777 ext. 128.

Monday and Wednesday evenings and Saturday afternoons in March.

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culinary adventures

Tea Tasting and History

Pam McLaughlin

Owner of The Hill Tea Bar in Chestnut Hill

Tea is the second most consumed beverage in the world after water. The tea phenomenon began in the mountains of southwest China over 5,000 years ago and finally reached the U.S. in the 1600's. Follow the journey of tea through five countries and enjoy tasting eight specialty teas associated with those regions of the world. Learn about the four varieties of tea made from the *Camellia sinensis* plant: green, oolong, black, and white tea. We will discuss the invention of the tea bag and iced

tea, and learn about the spy who stole China's tea secrets. Appreciating the health benefits of tea is a relatively new trend in the U.S. but in 800 AD Lu Yu, the Chinese tea scholar, described tea as a cure for aching limbs, constipation, headaches, and depression. Pam McLaughlin started her own tea business in 2007. She holds an MBA and a level two certification from the Tea Institute of the U.S.A.

Sunday, March 10

1 – 3 p.m.

Members: \$35

Non-members: \$40

Register Now >

culinary adventures

Brewing: An Introduction to Beer Making

Josh Hunter

Chef and Owner of the Terrace Street Bistro and Company's Coming Catering

In this class you will learn the basics of brewing and we will make a batch of beer together. Beer, with its great variety of flavors ranging from light pilsners to dark stouts, is a very versatile drink. It is less pretentious than wine and complements many foods very well. The process of brewing; turning grains, water, yeast, and hops into beer is not that complicated. Josh will provide expert instruction so you can understand the process, and there will be a variety of different beers for you to taste. Learn useful tips so you can start brewing at home.

Sunday, April 14

1 – 3 p.m.

Members: \$30

Non-members: \$35

Register Now >

Pesto Making Workshop

Pam Williams

Professional Chef and Owner, Serving Thyme, Inc.

Pesto is a sauce made by pounding or crushing several ingredients. It originated in northern Italy and traditionally consists of garlic, basil, and nuts blended with olive oil and cheese. You will learn how to make this traditional basil-based pesto called pesto genovese. You will also learn how to make several variations with different ingredients that include cilantro, rosemary, and sorrel. You will have the opportunity to taste pestos and decide which ones you like best. Pam will share tips for how to creatively serve pesto as well as the best ways to store it including effective freezing techniques.

Thursday, May 16

10 a.m. – 12 noon

Members: \$35

Non-members: \$40

Register Now >

Edible Native Plants

Anna Wik

Landscape Architect, Pennsylvania Horticultural Society

Many of us love to munch on blackberries and raspberries, but did you know you can also make a caffeinated beverage out of Yaupon holly, jam out of serviceberry, and snack on the pods of honey locust? Many of our most treasured native plants were used by Native Americans and early settlers as nourishing food, and can still provide for us today. Learn to appreciate our native edibles in this informal guided walk. We will identify and discuss historical and current uses for several native herbs, shrubs, and trees. After the walk we will come back and sip some wild crafted tea and a snack made from edible natives.

Saturday, June 1

1 – 3 p.m.

Members: \$25

Non-members: \$30

Register Now >

Introduction to Canning

Marisa McClellan

Author of "Food in Jars"

Canning is a great way to preserve food you harvest from your garden or buy at the local market. Are you curious about canning but worried about the safety implications? Philadelphia-based canning teacher, blogger, and cookbook author Marisa McClellan will walk you through the basics of boiling water bath canning and set your fears to rest. The class will include information on food safety, best canning practices, and recommendations on how to store your newly canned goods, as well as provide plenty of time to ask all of your questions. Each student will take home a jar of the strawberry vanilla jam we make together in the class, as well as a copy of the recipe.

Saturday, June 15

10 a.m. – 12 noon

Members: \$40

Non-members: \$45

Register Now >

health and wellness

I can still do it! Adaptive Gardening Techniques

Marsha Stamm Gayl

Registered Horticultural Therapist

Are you finding yourself losing interest in your garden because of some physical ailments? Would you like to explore different ways that you can still enjoy your garden? This class will discuss adaptive gardening techniques and evaluate garden tools, from the right pruner to use, to the specialty adaptive tools that are available to help you garden the way you used to. You will also learn proper body mechanics while gardening, as well as how to create a universal barrier-free garden design for any population. **There will be a hands-on portion of this class, so please dress comfortably.**

Saturday, April 6
10 – 11:30 a.m.

Members: \$25
Non-members: \$30

Register Now >

Tai Chi in the Garden

Al Smith

Practitioner Member, National Qigong Association

Do you want to reduce stress, quiet down, move in a slow, balanced way, and cultivate energy? In the beautiful outdoor setting of the Morris Arboretum we will share in the practice of the healing art of Tai Chi. Tai Chi is an

ancient Chinese tradition that today is practiced as a graceful form of exercise. It involves a series of movements performed in a slow, focused manner accompanied by deep breathing. Often described as meditation in motion, Tai Chi promotes serenity through gentle, flowing movements. We will begin with Tai Chi Easy™ Level 1, no previous experience is needed. Al Smith has over 200 hours of teacher training from the Institute of Integral Qigong and Tai Chi. **Please wear loose-fitting clothing to the class.**

Four Wednesdays: May 1, 8, 15, 22
10 – 11 a.m.

Raindate, Wednesday, May 29

Members: \$75
Non-members: \$90

Register Now >

Introduction to Meditation and Mindfulness

Jen McGown

Owner, One Yoga Philly

Join us for an exploration and journey into the practice of mindfulness meditation. Together we will explore the presence of breath to help us tune in to our body and mind, surrounded by the magical setting of the Arboretum after-hours. Meditation is beneficial to us for so many reasons – it improves health by lowering blood pressure and strengthening the immune system, and promotes general well-being by reducing stress and increasing serotonin levels. During our four sessions together, we will explore mindfulness-based meditation through body scans, seated meditation, and expanded awareness, developing a mindful and present state of being. If you are seeking to connect with your inner-most self and live in the now, join us for this transformational series.

Four Tuesdays: May 7, 14, 21, 28
6:30 – 7:30 p.m.

Members: \$75
Non-members: \$90

Register Now >



Do It Yourself Natural Summer Skin Care

Tiffany Cheng

Education Assistant, Morris Arboretum

Ward off bugs, treat itchy bites, and prevent your skin from peeling this summer – the natural way! In this class you will learn about natural and affordable ways to keep your skin healthy. Tiffany will demonstrate how to make these natural treatments, and you will get to make your own natural mosquito and tick repellent with essential oils and free of DEET and other chemicals. We will talk about the beneficial properties of each essential oil and ingredient. Participants will take home their own bottle of repellent along with easy instructions to make all of the treatments at home. **Materials included.**

Saturday, May 18
1 – 2:30 p.m.

Members: \$28

Non-members: \$32

Register Now >

Yoga in the Garden: Ten Enchanted Evenings

Jennifer Schelter

Founder, Optimal Wellness and Mindfulness-Based Tools for Living

The incredible beauty of summer nights at the Morris Arboretum provides the backdrop for this unique opportunity to study inspirational Vinyasa (flow style) yoga led by Jennifer Schelter, one of Philadelphia's premier yoga teachers. Participants learn the basics of yoga: breathing, mindfulness meditation, balance, strength, flexibility, core awareness, and deep relaxation surrounded by the Arboretum's peaceful ambiance. Close your eyes and take a deep breath. Inhale the sweet smell of flowers, and feel your skin aglow with the setting sun. Benefits include a reduction in stress and anxiety, increased calm, peace of mind, revitalization, meaning and purpose, inspiration, gratitude, laughter, grace, and community. All are welcome including

beginners. **Please bring a yoga mat and wear comfortable clothes.**

Ten Tuesdays: June 4, 11, 18, 25, July 2, 9, 16, 23, 30, August 6
7 – 8:15 p.m.

Members: \$180 for ten sessions, \$100 for five

Non-members: \$200 for ten sessions,

\$120 for five

Walk-ins for a single session \$25, cash and checks only

Register Now >

Yoga Out on a Limb

Jennifer Schelter

Founder, Optimal Wellness and Mindfulness-Based Tools for Living

Experience trees as you never have before... 50 feet up at eye level with leaves and birds. Join us for three extraordinary early morning outdoor yoga retreat-like sessions held on the Arboretum's thrilling tree canopy, *Out on a Limb*. Jennifer Schelter, one of Philadelphia's premier yoga instructors, offers Vinyasa yoga for all levels. The yoga practice includes breathing, mindfulness meditation, balance, strength, flexibility, core awareness, and deep relaxation surrounded by the sky and trees. Benefits include a reduction in stress and anxiety, increased calm, peace of mind, revitalization, meaning and purpose, inspiration, gratitude, laughter, grace and community. The transformational joy of *Out on a Limb* is like a retreat to an exotic and beautiful forest or jungle, in your own back yard! **Bring a yoga mat (or 2) and towel to accommodate the structure surface. Class size limited to the first 30 arrivals. To check on a weather cancellation please call 215-247-5777, ext. 156.**

Three Sundays: June 23, July 21, August 4
8:30 – 10 a.m.

Members: \$60

Non-members: \$65

Walk-ins: \$25 per session, cash and checks only

Register Now >

Growing Minds at Morris Arboretum is a new program series for kids and families aimed to inspire a sense of wonder about the natural world within the beautiful setting of the Morris Arboretum.

Formerly known as ***Fun for Kids and Families***, the classes represented in this section offer children and their caregivers the opportunity to connect meaningfully with nature, through a wide variety of creative and educational programs. Some of these classes are great old standards, while others are brand-new offerings. Take a look and sign your child up for these programs that are certain to be enriching, fun, and memorable!

FOR TODDLERS

Seeds to Sprouts, Spring Adventures! (Ages 2-4)

Pam Newitt

Educator and Founder, Nature By The Yard

Is your toddler a budding naturalist? Join us this spring for a series of outdoor adventures designed to introduce children and their caregivers to the wonders of the natural world! Each session will include guided exploration through the Arboretum and a craft to take home. Children must be walking and accompanied by an adult. Please dress for the outdoors. Class size is limited to the first 15 registrants.

Due to its popularity last fall, we have expanded the program to include two six-week sessions – sign up for one or both!

Six Mondays: March 11, 18, 25,

April 1, 8, 15

10:30 – 11:15 a.m.

or

Six Mondays: April 29, May 6, 13, 20,

June 3, 10 (no session, Memorial Day)

10:30 – 11:15 a.m.

Members: \$120 for
each six-week session

Non-members: \$150 for each six-week session

Register Now >

AFTER-SCHOOL PROGRAMS

Sprouts to Saplings, Spring Explorers (Ages 5-7)

Pam Newitt

Educator and Founder, Nature By The Yard

Nature is bursting to life in the spring. Join us for a close look at flowers, trees, birds, and other wildlife that call the Morris Arboretum home. Each after-school session will focus on a particular topic of the natural world and how it fits into the ecology of the site. After a brief discussion of the day's topic, we will head outdoors to explore the Arboretum's diverse resources. We may use binoculars to watch migrating birds, follow the progress of budding trees, or discover the relationship between insects and flowers; all within the safe confines of the Arboretum's trails. Then back inside, we will create a take-home art project related to our outdoor adventure.

**Six Tuesdays: April 2, 9, 16, 23, 30, May 7
4 – 5 p.m.**

Members: \$120

Non-members: \$150

Register Now >

Nature Photography Workshop (Ages 8-12)

Kim Soles

Photographer and Founder, Indigo Nature Arts

This four-week photography workshop offers kids the opportunity to get out in nature, be creative, and have fun while capturing the beautiful landscape of Morris Arboretum during springtime! A lifelong photographer, Kim Soles will share her experience with photographing the natural world, while encouraging the young photographers to find his or her own way. Children will learn tips and techniques to hone their photography skills, concentrating on close-ups, textures, color, and landscape concepts. During the last

session, students will have the opportunity to critique and celebrate their classmates' work. Rain dates will be offered in case of inclement weather. Children must have their own camera, know how to use it, and make sure that it has been charged before arriving to class. Film cameras are welcome.

**Four Thursdays: April 18, 25, May 2, 9
4 – 5:30 p.m.**

Members: \$85

Non-members: \$100

Register Now >

ON WEEKENDS

Insect-Inspired Art: Big Bugs Art Series (Ages 6-12)

Allison Zito

Artist and Teacher, Harcum College

Insects make up the largest classification of animals on our planet. Though small in stature and misunderstood by many, they are an integral part of the web of life; life as we know it could not exist without them. The Morris Arboretum is bringing the importance of insects to the forefront and displaying them in enormous proportions with the work of Dave Rogers' *Big Bugs* exhibit this spring. In this four-week art series, we will take inspiration from the beauty of the Arboretum and this monumental exhibit. We will learn about different cultures with their myths and reverence for the insect world. Each week we will draw on location. We will visit the *Big Bugs* sculptures, the pollinator's garden, or other magical locations at the Arboretum. Then, filled with inspiration we will go back to the classroom to paint, create sculptures, and learn the art of metal embossing. **All supplies are included. Come dressed for the weather and to paint.**

**Four Sundays: April 14, 21, 28, May 5
1 – 2:45 p.m.**

Members: \$85

Non-members: \$100

Register Now >

PERFORMING ARTS

Mini-Morris Players (Ages 5-10)

Steve Seyfried

Founder and Managing Director, Family Stages

In this fun-filled six-week theatre program, children will help history come alive at Morris Arboretum!

On the very grounds they developed, John and Lydia Morris (played by two costumed theatre educators) tell the fascinating stories of their adventurous travels where they gathered many of the exotic plants and trees that now grace the grounds. As John and Lydia spin their tales, the children join in the story! With simple props and costumes the young performers become the trees, shrubs, flowers, streams, and animals, acting out the creation of the Morris Arboretum.

The children meet the Morris at 6:30 p.m. Over the next hour they learn their parts in a unique and interactive story. At 7:30 p.m. there is a performance for the families. The activities will take place at different locations. On some Thursdays, the Mini-Morris Players will perform at the Fernery, as that story is told. On other evenings they will be at the Rose Garden, the Swan Pond, or other scenic spots.

This improvisational program builds children's confidence and creativity, and is marvelous way to enjoy a summer evening on the enchanting grounds of the Arboretum!

While the children are engaged in the program, parents and grandparents are invited to relax and take a stroll through the gardens.

Two, three-week sessions, sign up for one or both:

Session 1 – Thursdays: June 13, 20, 27

Session 2 – Thursdays: July 11, 18, 25

6:30 – 7:45 p.m.

Members: \$120 for both sessions,

\$70 for one session

Non-members: \$150

for both sessions,

\$85 for one session

Register Now >

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creative expressions

Wedding Flower Design Workshop

Cheryl Wilks

Floral Educator, Florist, and Owner of Flowers on Location

Just in time for spring weddings and special events, learn how to make beautiful easy bouquets, corsages, and boutonnieres. This special one day intensive class is a lecture along with hands-on designing. You will work with a colorful selection of fresh and artificial flowers to master floral mechanics. **The class includes all of the flowers and supplies.**

Bring a box to take home all of your design work and instructional handouts – bring a bag lunch and drink. You will leave with lots of new skills and ideas.

Saturday, March 23

10 a.m. – 3:30 p.m.

Members: \$85

Non-members: \$95

Register Now >

Spring Centerpiece – A “New Twist” with Fresh Flowers

Cheryl Wilks

Floral Educator, Florist and Owner of Flowers on Location

Work with twigs and branches to design a more interesting arrangement for the table. Building armatures and arches are easy, and add so much interest to an arrangement. Learn easy ways to put together flowers for that professional look. Along with your decorative container, you will choose from a colorful assortment of fresh flowers and greens, and accessories like birds and butterflies. **Everything is included. Bring a low, oblong box to transport your beautiful centerpiece home or to give as a gift.**

Tuesday, March 26

6:30 – 9 p.m.

Members: \$50

Non-members: \$55

Register Now >



Sample from previous ink painting class

The Art of Japanese Ink Painting

Allison Zito

Artist and Teacher, Harcum College

Sumi-e is the art of Japanese ink painting, a noble and time honored pursuit of the scholar. This craft teaches much more than the art of ink painting. The techniques we will learn to paint bamboo are the basic strokes used to create all forms of Japanese ink painting. The art is in the touch of the brush stroke, the quality of the line, appreciation of the natural world, and the beauty in asymmetry. **All supplies are provided. Come to class dressed to paint.**

Saturday, April 6

1 – 3 p.m.

Members: \$30

Non-members: \$35

Register Now >

Art Imitates Life: Stunning Nature Photography

Lauren S. Poster

Professional Photographer and Ph.D. student, Rutgers University

The wonders and beauty of nature are often difficult to capture in a photograph. Learn to see the world through the eyes of a photographer and make images that will

creative expressions

forever capture this beauty! In this course, learn how to improve your photographic skills through a variety of techniques and instruction that unveil some of the most useful tricks of the trade. An evening classroom session will provide background information on the basic concepts of photography as well as techniques commonly used in nature photography. An outdoor session will follow in which we put these practices and techniques to use in the field.

Bring your camera. This class meets twice.

Tuesday, April 9

7 – 9 p.m.

and

Sunday, April 14

1 – 3 p.m.

Members: \$55

Non-members: \$60

Register Now >

Spring Plein Air Painting

Allison Zito

Artist and Teacher, Harcum College

This class focuses on outdoor painting at the Arboretum, with attention to natural light and spectacular vistas. Springtime signals a reawakening with the warmth and sunlight beckoning nature's renaissance. Birds are singing, trees are in bloom, and the earth is cloaked in spring's early green. We will discuss color and composition and the works of great masters. Students will be encouraged to develop their own personal expression. We will paint on canvas board with quick drying acrylic paint. **All supplies are provided. Come to class dressed for the weather and to paint.**

Saturday, May 18

1 – 3 p.m.

Members: \$30

Non-members: \$35

Register Now >

Zentangle® Art Workshop, Beginner & Intermediate

Terri Greenberg

Certified Zentangle Teacher

When you engage in the art of Zentangle, patterns become evident everywhere! Zentangle returns to the Morris Arboretum with new patterns to explore. Deepen your appreciation and understanding of this relaxing and meditative art form or begin your creative journey into the world of Zentangle. Those who have attended workshops before will find something new to discover; those who haven't yet experienced the creative peace that is Zentangle will find this workshop a great place to start. **All materials are provided.**

Saturday, May 4

10 a.m. – 1 p.m.

Members: \$35

Non-members: \$40

Register Now >



Zentangle Art



An Inside Look at the Witchhazel Collection

Anthony S. Aiello

The Gayle E. Maloney Director of Horticulture and Curator, Morris Arboretum

Join us as we tour the Arboretum's outstanding collection of witchhazels with Curator Tony Aiello. The beautiful and fragrant floral display of witchhazels is a welcome sight during the bleak winter months when little else is in flower. Witchhazels bloom for at least five months of the year, starting with our local native in the late fall and continuing into the spring with another native type and the Asian witchhazels. Tony will describe the different kinds of Asian and North American witchhazels in cultivation and explain why they are such terrific additions to the home landscape.

Dress for the weather as we plan to take a walk to see some of the witchhazels in the Arboretum collection.

**Saturday, March 2
1 – 3 p.m.**

Members: \$25
Non-members: \$30

Register Now >

Vegetables and Annuals from Seed

Shelley Dillard

Plant Propagator, Morris Arboretum

Vegetable gardening is booming! So many folks have jumped on the bandwagon to grow their own. Buying vegetables and annuals as small plants can not only be expensive, but it can also be hard to find exactly what varieties you want. This class will teach students how to grow seeds so that they can get a jump start on spring.

Simple strategies that will increase success will be demonstrated, as well as timing sowing dates, and sources for seed. It is SO easy! This is a class that will inspire you. The class takes place in the Arboretum Greenhouse. Class size is limited so sign up early. **Check in at the Visitor Center.**

**Saturday, March 2
10 a.m. – 12 noon**

Members: \$25
Non-members: \$30

Register Now >

Coming up Roses!

Lucy Dinsmore

Rosarian, Morris Arboretum

Heather Schmidt

Rose Garden Intern, Morris Arboretum

Early spring is the time to get your roses ready for a season full of blooms. If you are curious about spring pruning, want some one-on-one guidance, or are new to rose gardening, join us for an informative spring rose care workshop. We will provide an overview of pruning, planting, transplanting, fertilizing, and composting. We will then walk to the Rose Garden for a pruning demonstration. You will have the opportunity to do some hands-on pruning and learn pruning techniques that you can apply to your own roses. **Be sure to dress warmly, bring your hand pruners and gardening gloves, and be prepared to get your knees dirty. Due to the individual attention, class size is limited.**

**Saturday, March 9
10 a.m. – 12 noon**

Members: \$25
Non-members: \$30

Register Now >



American Idols: Native Plants to Love

Catherine Renzi

Owner, Yellow Springs Farm Native Plant Nursery

Are you curious about native plants? In this class you will have the chance to learn about great native plants that you might want to try in your garden. Native plants have become popular because they require less maintenance. They do not need watering (except during establishment), chemical pesticides and fertilizers, or frequent cutting back. They also attract wildlife like songbirds and butterflies. This is your chance to fall in love with new plant species and find out why native plants are important for local gardens and gardeners.

Saturday, March 16

10 a.m. – 12 noon

Members: \$25

Non-members: \$30

Register Now >

Backyard Beekeeping for Beginners

Jim Bobb

Beekeeper and Chairman, Eastern Apicultural Society

Beekeeping and gardening go hand in hand, yet raising honeybees can be intimidating to beginners. Jim Bobb will explain how he got started and how you can too. Learn about the best location for your hive, the equipment you will need to get started, where to get bees, several methods for harvesting wax and honey, and how to avoid some common pitfalls. Jim will walk you through a beekeeper's typical first year so you know what to expect, and he will tell you what local resources are available to help you succeed. Start planning now so you're ready for bees in early spring! Plenty of time will be allotted for discussion, so bring your questions. Jim maintains the hives at Morris Arboretum and at many other local gardens.

Saturday, March 16, 1 – 3 p.m.

Members: \$25

Non-members: \$30

Register Now >

Pruning for Glorious Trees and Shrubs

Iana Turner

Horticulturist, Morris Arboretum

Learn how you can skillfully prune shrubs and small trees to achieve a pleasing natural shape and abundant flowering. In this course you will have the opportunity to see demonstrations designed to help you master pruning concepts and gain confidence. The course will cover formative pruning for young trees and proper pruning practices for larger, older trees. It will also cover naturalistic pruning techniques for creating attractive hedges and methods for reducing overgrown shrubs. **Please bring hand pruners and a small pruning saw to the Saturday session. This class meets twice.**

Tuesday, March 19

7 – 9 p.m.

and

Saturday, March 23

10 a.m. – 12 noon

Members: \$50

Non-members: \$55

Register Now >

Three Seasons of Outrageous Color from Perennials

Kerry Ann Mendez

Garden Designer and Owner of Perennially Yours

Discover spectacular perennials for sun and shade that will brighten your landscape from spring through fall. Many newer varieties will be featured. As one perennial stops blooming, it 'passes the baton' to the next 'winner'. Helpful garden care tips and shortcuts to maximize color and reduce maintenance will also be covered.

Friday, March 22

10 – 11:30 a.m.

Members: \$25

Non-members: \$30

Register Now >

Great Hardy Native Ferns

Gregg Tepper

Director of Horticulture, Mt. Cuba Center

Join horticulturist and fern enthusiast Gregg Tepper for a fascinating and informative lecture on some of our best native ferns for the garden. Gregg will discuss native fern identification, growth habits, as well as culture, and point out the many redeeming qualities that make ferns a pleasure to grow and show in the garden. Gregg studied horticulture at the University of Delaware and has been a native plant enthusiast for over 25 years having lectured extensively in the U.S. as well as at Kew Gardens and Wisley in England.

Wednesday, March 27
7 – 8 p.m.

Members: \$20
Non-members: \$25

Register Now >

Native Plant Container Gardening

Marcia Tate

Native Plants and Habitat Gardens Educator

Interested in attracting birds, butterflies, and beneficial insects to your garden but short on space or time? In this creative and ecologically-minded workshop, you will learn techniques for designing a native plant container garden suited to your specific micro-climate. You will get lots of easy, take-home tips and helpful tools to assemble a healthy habitat using low maintenance native plants for sun or shade. Color, form, texture, and placement are a few of the topics covered in this four season approach to creating unique focal points in your landscape that are environmentally friendly too. Marcia's beautiful photographs and container planting demonstration will inspire you to express your own personal garden style.

Saturday, May 18
10 a.m. – 12 noon

Members: \$25
Non-members: \$30

Register Now >

Rhododendrons for Your Landscape

Karel Bernady

Greater Philadelphia Chapter of the American Rhododendron Society

Rhododendrons are among the most popular flowering shrubs in this area. However, they do have some special requirements that must be met to insure good health. In this class you will learn what a rhododendron is and how to choose plants that will do well in our area. Selecting the best site that has the conditions rhododendrons need in order to succeed will be covered. We will also consider how to care for them once they are planted and the basics of pruning both young and mature plants.

Saturday, May 18
10 – 11:30 a.m.

Members: \$25
Non-members: \$30

Register Now >



Poisonous and Injurious Plants

Dr. Tim Block

The John J. Willaman Director of Botany, Morris Arboretum

Are plants out to get us? Learn more about the relatively few plant species that are truly dangerous to humans. This class will introduce you to some of the plants in our flora that can cause poisoning, hallucinations, dermatitis, or other problems if ingested or handled. We will also discuss rumors, urban legends, and other exaggerated fears of plants and the natural world. You don't need to be afraid to go into the woods!

Wednesday, April 10

7 – 9 p.m.

Members: \$25

Non-members: \$30

Register Now >

Identification of our Spring Flora

Dr. Tim Block

The John J. Willaman Director of Botany, Morris Arboretum

The purpose of this class is to teach participants the skills needed to identify our spring flowering plants, both native and introduced. You will learn to carefully observe critical features of plants, practice identification using dichotomous keys, and gain exposure to botanical terms important for identifying plants. **Our primary text will be *The Plants of Pennsylvania: An Illustrated Manual* (2nd ed.) by Rhoads and Block. You will need a magnifier or hand lens and a small metric ruler.**

4 Tuesdays:

April 16, 23, 30 and May 7

10 a.m. – 1 p.m.

Members: \$160

Non-members: \$180

Register Now >

Spring Botany at Mariton Wildlife Sanctuary

Ann Rhoads

Retired Senior Botanist, Morris Arboretum

Tom Block

Director of Botany, Morris Arboretum

Native plant lovers will enjoy this trip to Mariton Wildlife Sanctuary, a 200-acre preserve located near Easton, Pennsylvania. This property, the former home of Mary and Tony Guerrero, is now administered by the Natural Lands Trust. It is perched on the steep slopes of Bougher Hill overlooking the scenic Delaware River. The site includes rocky forested slopes dominated by oaks and several ridgetop meadows that feature native grasses. We are hoping to see a variety of blooming wildflowers. We will be welcomed by preserve manager, Tim Burris, who has managed the site for over 20 years. The site's meadows are mowed in winter and some, which have been purposely left unmowed for a number of years, provide a good lesson in succession. **Wear good walking shoes. We will walk on trails ranging from old woods roads to narrow rocky trails. We will travel by small bus leaving from the Arboretum. Park your car in the meadow next to the entrance kiosk. Bring your lunch and something to drink.**

Wednesday, April 24

8:30 a.m. – 3:30 p.m.

Members: \$65

Non-members: \$75

Register Now >

A Walk Among the Mosses

Keith Bowman

Moss Ecologist

On this trip we will explore the moss community found in the understory of a deciduous forest. We will visit the Natural Lands Trust's Fulshaw-Craig Preserve located near Sumneytown in upper Montgomery County. On our journey we will meet many of the mosses and liverworts that can be found

botany

on a moist roadside bank, on boulders, logs, tree bases, and in streamside habitats. We will identify the mosses and liverworts with a focus on the key features and the relation of those features to the ecology and biology of the mosses and liverworts. The 300-acre Preserve is very special because it is perhaps the best remaining example of an intact, relatively undisturbed forest in southeastern Pennsylvania. **We will meet at the Arboretum and travel by small bus. Park in the meadow next to the entrance kiosk. Bring your lunch and something to drink.**

Friday, May 17

9 a.m. – 2:30 p.m.

Members: \$65

Non-members: \$75

Register Now >

The Botany of Fruit

Dr. Tim Block

*The John J. Willaman Director of Botany,
Morris Arboretum*

In this class we will talk about the various structural origins of the edible things we call “fruit.” We will discuss how and why these structures evolved and how our modern cultivated varieties came to be. You will be surprised to learn that some things we call “fruit” are not fruit in the botanical sense. You will also enjoy tasting both the common and exotic “fruits” that have enriched human culture and enhanced the world’s meals for centuries.

Thursday, May 23

10 a.m. – 1 p.m.

Members: \$40

Non-members: \$45

Register Now >

17

landscape design series

In order to promote a wider knowledge of landscape theory and practice, the Morris Arboretum offers a Landscape Design Series. Instructors provide participants with a well-rounded curriculum focusing on home landscape design. The Arboretum will award a Certificate of Completion to participants who finish the prescribed series consisting of four required core courses and six elective courses. For more information, please call the Education Department at (215) 247-5777, ext. 156. If you are interested in enrolling in the Landscape Design Series, please check the box on your registration form. Note: Students not enrolled in the Certificate Series may take Landscape Design classes individually.

Planting Design for the Home Landscape

Core Course

John Shandra

Registered Landscape Architect

The aesthetic and practical considerations associated with selecting plants for landscape planting designs will be considered in this five-session course. Topics include: site analysis, developing functional diagrams, setting landscape priorities, and considerations of color,

form, and texture in the garden. We will discuss a variety of trees, shrubs, and groundcovers, emphasizing their uses in the landscape. If they wish, students may develop their own design for review with the instructor at the end of each class. **The class meets five times.**

Five Wednesdays: March 20, 27,

April 3, 10, 17

7 – 9 p.m.

Members: \$120

Non-members: \$150

Register Now >

landscape design series

Landscape Design Studio

Core Course

Peter Godfrey, Jr.

Landscape Architect/Planner

In this course students will develop a conceptual design for a residential garden. Brief lectures each week will cover: client relationships, site analysis, concept development, graphic communication techniques, landscape material including plants and hardscape construction, and conceptual design. A majority of the course will be devoted to studio work and gaining a basic understanding of the design process. Individual design critiques will be given to students as their work progresses. No previous drawing or design work is necessary. **The class meets five times.**

**Five Thursdays: March 14, 21, 28,
April 4, 11
7 – 9:30 p.m.**

Members: \$170

Non-members: \$190

Register Now >

Creating Stunning English Gardens with Yankee Practicality

Elective

Kerry Mendez

Garden Designer and Owner of Perennially Yours

Learn great design tips and plant combinations from the gardens of Adrian Bloom, an award-winning garden designer and author from Dis, England. This illustrated lecture features a collection of inspiring photographs taken while Kerry stayed at Bressingham Manor, a bed and breakfast in the heart of Adrian's magnificent seven acres of gardens. The lecture focuses on perennials, shrubs, bulbs, grasses, conifers, and annuals hardy for the Northeast, as well as design concepts you can use in your garden.

**Thursday, March 21
7 – 8:30 p.m.**

Members: \$25

Non-members: \$30

Register Now >

Perennial Gardening in the Shade

Elective

Harriet Cramer

Garden Designer and Writer

Shade in the garden is an opportunity, not an obstacle. This lecture will focus on designing and managing a shady site so that it is interesting and beautiful throughout the year. The emphasis will be on choosing the right perennials for the right spot. Do you have light, partial, or full shade? How does this change from season to season and over the years, and how does the quantity and quality of light affect what grows well? Which shade-loving perennials demand moist soil and which are able to thrive in dry, compacted soil beneath mature trees? What should you do to create the best possible cultural conditions? The lecture will, above all, convince you to stop apologizing for your shady garden and enable you to make the most of it.

**Thursday, March 28
7 – 8:30 p.m.**

Members: \$25

Non-members: \$30

Register Now >



landscape design series

Food for Thought: Connecting Landscapes and Foodscapes

Elective

Catherine Renzi

Owner, Yellow Springs Farm Native Plant Nursery

With the current interest in eating locally-grown foods and the increase in farmers markets in our region, it is surprising that we often still don't really know where local food comes from. Is it from the farms in Lancaster or under hoopouses in our neighborhood? If we think about edibles with an open mind, we can find food sources everywhere and learn more about the edible plant species Native Americans enjoyed, but have since become overlooked. We will explore the unexpected benefits of integrating plants that provide food with ornamental species. We will consider the effects of growing food on our water, soil, air quality – and on the quality of life for humans and critters of all kinds – birds, insects, and mammals. Instead of creating spaces that just sustain, we will learn how to create systems that are regenerative to the earth, the community, and people.

Saturday, April 6
1 – 3 p.m.

Members: \$25

Non-members: \$30

Register Now >

Planting for the Long Term: Talk and Garden Visit

Elective

Michael Martin Mills

Former President, Greater Philadelphia Chapter, American Rhododendron Society

A collection of mature trees and shrubs is so alluring – but developing one requires knowledge and patience. Too many gardeners (including the instructor) have made misjudgments that become evident at the 15- or 20-year mark, at which point there's no going back. Michael Martin Mills began with two-thirds of an acre in 1985;

once virtually empty, it is now crammed. For the last six years he has been planting an additional 1½ acres, with two decades' experience and knowledge of both plants and conditions. Meet at Morris Arboretum for Part 1, an informal hour-long illustrated talk; then carpool 12 minutes to Michael's Mount Airy garden to see an abundant collection of woodies (including more than 100 rhododendrons) and learn many tips about siting and planting for the long term. This class is perfect for homeowners just starting out. Come prepared to take notes on many desirable and less common cultivars.

Saturday, April 20
10 a.m. – 1 p.m.

Members: \$40

Non-members: \$45

Register Now >

Rain Gardens: Sustainable Solutions

Elective

Louise Clarke

Horticulturist, Morris Arboretum

Rain gardens are an excellent way to absorb rainwater runoff from roofs, driveways, sidewalks, and lawns so that it can soak into the ground. Learn how to add rain gardens to the landscape where they will be effective. See examples of rain gardens and suitable native plants. Native plants are recommended for rain gardens because they generally do not require fertilizer and are more tolerant of local climate, soil, and water conditions. We will also cover selecting and preparing a site, determining the size of the garden, choosing native plant species appropriate for conditions, and using rain barrels together with rain gardens. **We will meet at Bloomfield Farm. Look for the paved road across Northwestern Avenue from the public garden entrance. Park in the lot and follow the signs to the Horticulture Center.**

Saturday, April 27
10 a.m. – 12 noon

Members: \$25

Non-members: \$30

Register Now >

special seminars

Gardening with History: Planning and Practice

Our part of the country is particularly rich in garden heritage sites. The focus of this conference, held at Morris Arboretum, is to renew awareness and appreciation of historic gardens in the Delaware Valley as cultural resources worth exploring and stewarding. We will explore historic gardens with an emphasis on how we interpret them, care for, and plan for them today. The conference will provide an opportunity for connection and information sharing among historic garden practitioners and enthusiasts. The Keynote Speaker is Peter Hatch, Director of Horticulture at Monticello. Speakers will address topics such as adaptive reuse, gardening with a mission, interpreting our gardens, and sustaining our gardens' relevance to the community. **For a complete brochure contact 215-246-5777, ext 125 or jl原因@upenn.edu.**

Thursday, May 30

Woody Plant Conference

Mark your calendars for the 16th annual Woody Plant Conference at Swarthmore College. This popular day-long conference focuses on great woody plants for the Mid-Atlantic states and how to use them in the landscape. The conference is co-sponsored by Morris Arboretum, Chanticleer, Longwood Gardens, the Pennsylvania Horticultural Society, the Scott Arboretum of Swarthmore College, and Tyler Arboretum. The conference is geared to landscape professionals and avid amateur gardeners. Continuing education units (CEUs) for PA and NJ landscape architects and International Society of Arboriculture certified arborists will be available. **Brochures will be available in May from Longwood Gardens at 610-388-1000, ext. 506.**

Friday, July 19

Invasive Plant Conference: Paths to Restoration Success

Invasive exotic species are an ever increasing threat to the world's biological diversity. This is a problem we all face since our quality of life depends on the health of our natural resources. In this ninth Mid-Atlantic conference attendees will not only obtain useful background on the issues surrounding this biological problem but will also learn about: mapping invasives, biocontrol, herbicides, and planning for restoration. **The Conference will be held at the National Conservation Training Center in Shepherdstown, West Virginia. For a complete brochure contact 215-247-5777, ext 125 or jl原因@upenn.edu.**

Wednesday, July 31 and
Thursday, August 1



calling all birders

Shark River Birding Adventure

Ruth Pfeffer

Expert Birder and Trip Leader

Shark River near Belmar, New Jersey is a great place for winter birding for waterfowl. Our trip includes visits to a variety of water habitats including Shark River Inlet, several lakes, freshwater ponds and the Atlantic Ocean, all great sites for bird watching. Our target birds are both diving and dabbling ducks found in the protected inland waters. They include brant, canvasbacks, American wigeons, mergansers, ruddy ducks and perhaps common goldeneyes and loons. We hope to see northern gannet, a large white bird with black wingtips and a long bluish bill, diving for food in the ocean. **Dress for the weather as it is always colder near the ocean. Bring your lunch and something to drink. We will meet at the Widener Center, park in the parking lot above Widener, and travel by small bus.**

Friday, February 22
8 a.m. – 4 p.m.

Members: \$80
Non-members: \$90

Register Now >

Birding at Middle Creek Wildlife Management Area

Ruth Pfeffer

Expert Birder and Trip Leader

Middle Creek Wildlife Management Area is over 6,000 acres and a great place for early spring birding. It has been designated as a Globally Significant Important Bird Area because it annually hosts a large percentage of the continent's population of snow geese and tundra swans and provides critically important habitat for migrating birds. A 400-acre shallow lake and 70 acres of ponds and dikes have been constructed as a marshy habitat for waterfowl. During the winter, abundant rodent populations in the fields attract hawks and owls. Other species at this site include wood duck, black duck, blue-winged teal, northern

shoveler, hooded merganser, bufflehead, ruddy duck, gadwall, coot, and wigeon. Surrounding agricultural fields support grassland birds, including grasshopper sparrows and bobolinks.

Dress for the weather. Bring binoculars, your lunch, and something to drink. We will leave from the Arboretum. Park in the meadow next to the entrance kiosk. We will travel by small bus.

Wednesday, March 6
8 a.m. – 4 p.m.

Members: \$80
Non-members: \$90

Register Now >

Birding at Duke Farms

Ruth Pfeffer

Expert Birder and Trip Leader

Located on 2,740 acres in Hillsborough, New Jersey, Duke Farms was one of the first sites designated by New Jersey Audubon as an Important Bird Area (IBA). 231 species of birds have been observed at Duke Farms. The property contains approximately 1,100 acres of grasslands and agricultural lands, 950 acres of woodlands, 400 acres of flood plain habitat, two miles along the Raritan River and 72 acres of open water spread across nine lakes. This mix of habitat types provides an oasis for birds in a highly-developed region of New Jersey. Extensive native meadows and grasslands at Duke Farms support impressive numbers of state-threatened grasshopper sparrows, Savannah sparrows, and bobolinks. **Bring binoculars, your lunch, and something to drink. We will leave from the Arboretum. Park in the meadow next to the entrance kiosk. We will travel by small bus.**

Thursday, April 25
7:45 a.m. – 4:30 p.m.

Members: \$80
Non-members: \$90

Register Now >

calling all birders

Birding Adventures at the Morris Arboretum

Ruth Pfeffer

Expert Birder and Trip Leader

Join in the fun of birding at the beautiful Morris Arboretum. We will casually meander through some of the Arboretum's best birding habitats from the wetlands and meadows to woodlands and stream-side paths. Birders of all levels of experience are welcome. We hope to see hawks, migrating songbirds, sparrows, eastern bluebirds, and birds that live in our area year-round. Ruth will bring a spotting scope for good views. **Bring binoculars. Loaner binoculars will be available.**

Saturday, April 27
8 – 11 a.m.

Members: \$25

Non-members: \$30

Register Now >

Birding at the Norristown Farm Park

Ruth Pfeffer

Expert Birder and Trip Leader

One of the most unique parks in the Pennsylvania state park system, the Norristown Farm Park is a working farm in continuous use since colonial times. Located close to the Arboretum, just north of

Norristown, the 690-acre park provides great habitat diversity for birding with over 170 species recorded. We will focus on birding at the Park's newly established wetlands but will also visit other habitats including woods, wetlands, agricultural fields, and the floodplain along a stream. **Bring Binoculars. We will meet at Norristown Farm Park's Visitors Center. There is currently one vehicle entrance into the park, located at the intersection of Germantown Pike and North Wales Road. At the intersection of Germantown Pike and North Wales/Barley Sheaf Road, make a left onto Barley Sheaf. Stay right to enter the park.**

Saturday, May 4
8 a.m. – 11 a.m.

Members: \$25

Non-members: \$30

Register Now >

Ithaca, New York Birding Adventure

Ruth Pfeffer

Expert Birder and Trip Leader

We will head north for a birding adventure in Ithaca, New York, located at the base of beautiful Lake Cayuga. Our three-day visit has a variety of stops. A highlight will be a behind-the-scenes tour of the Cornell Lab of Ornithology, a world leader in the study,



calling all birders

appreciation, and conservation of birds. We will also explore Cornell's Sapsucker Woods, a 230-acre sanctuary of forests, ponds, and ferny swamps where more than 200 bird species have been recorded. Other stops on our trip include Robert Treman State Park, a rugged gorge that features beautiful cascading waterfalls, and Cornell Plantations, which contains a wide range of native and cultivated varieties of trees and shrubs in a 150-acre pastoral setting. We will visit the Museum of the Earth that provides the unique opportunity to explore our world through a mix of natural history displays, interactive science features, and art exhibitions. We will have dinner at the famous Moosewood Restaurant and Agava, a farm-to-table restaurant in a restored train station. **The trip includes van transportation, hotel, and an expert guide. Meals are not included. We will meet at the Morris Arboretum to leave. Park in the meadow next to the kiosk. A "what to bring" list will be supplied.**

**Sunday, Monday, Tuesday,
May 5, 6, and 7
Depart: Sunday, 7:45 a.m.
Return: Tuesday, 5 p.m.**

*Members: double occupancy \$310,
single occupancy \$410
Non-members:
double occupancy \$410,
single occupancy \$490*

Register Now >

Birding at the Stroud Preserve

Ruth Pfeffer
Expert Birder and Trip Leader

The Stroud Preserve is creeks and ponds, fields and meadows, and woodlands as far as the eye can see. Over 120 bird species have been observed at Stroud. Special birds that we hope to see are bobolinks and meadowlarks. Others that we are likely to see are bluebirds, towhees, belted kingfishers, woodpeckers, various warblers, and other spring migrants. Located in Chester County, near West Chester, this 574-acre preserve is used for research,

education, and wildlife preservation. This rolling mosaic of once-pastured grasslands, working farmlands, and woodlands has nearly nine miles of unpaved trails. It also serves as a unique site for research by the Stroud Water Research Center, one of the premier stream research labs in North America. **Dress for the weather. Bring binoculars, your lunch, and something to drink. We will leave from the Arboretum. Park in the meadow next to the entrance kiosk. We will travel by small bus.**

**Wednesday, May 15
7:45 a.m. – 2 p.m.**

*Members: \$60
Non-members: \$65*

Register Now >

Birding at Peace Valley Nature Center

Ruth Pfeffer
Expert Birder and Trip Leader

Beginning and experienced birders are welcome on a birding adventure to Peace Valley Nature Center in nearby Doylestown. A great place to go birding, Peace Valley has as its centerpiece beautiful Lake Galena and offers trails that wind through varied habitats including woods and meadows. More than 250 species of birds have been sighted at Peace Valley, including cardinals, woodpeckers, finches, titmice, sparrows, as well as osprey, cormorants, kingfishers, and a variety of ducks. Ruth will lead the group and help you improve your spotting skills. Her enthusiasm is contagious. **Bring binoculars and dress for the weather. We will meet at the Peace Valley Nature Center, Visitor Center, 170 North Chapman Road, Doylestown, PA 18901.**

**Saturday, June 9
8 – 11 a.m.**

*Members: \$25
Non-members: \$30*

Register Now >

Trip Cancellation Policy: Requests for refunds for a trip must be received by phone at least five business days before the trip date. Please call (215) 247-5777, ext. 125.

Riverfront Landscapes on the Delaware

Nicole Juday

Writer and Horticulturist

Horticulturist and garden writer Nicole Juday will lead this tour, which stops at two historic riverfront estates on the Delaware, dating from the Golden Age of Philadelphia horticulture. Located in the far Northeast, Glen Foerd dates from 1850. Extensive gardens, still partially intact, were installed in the early 20th century. Just over the border in Bucks County, we will visit the even older estate, Andalusia, which is still privately owned. The gardens include many specimens of venerable trees and formal rose beds. These landscapes and their unspoiled waterfront views give visitors a glimpse of a nearly forgotten era of gardening. **We will meet at the Arboretum and travel by bus. Park in the meadow next to the entrance kiosk. The trip costs includes lunch.**

**Thursday, April 18
9 a.m. – 4 p.m.**

Members: \$80

Non-members: \$85

Register Now >

History and Plant Collections in our own Backyard: Visit the Highlands and Riband Arboretum

Bob Gutowski

Arboretum Historian and Director of Public Programs, Morris Arboretum

This trip to two local sites brings together an historic garden and a fascinating plant collection. Join historian Bob Gutowski as we first visit the Highlands Mansion and Gardens, a 44-acre historic site with a late 18th century Georgian mansion and a 2-acre

formal garden. Surrounded by massive stone walls, the landscape offers a beautiful example of an early 20th century estate garden. The Riband Arboretum, is a private, four-acre arboretum featuring more than 50 plant species collected over 30 years. The collection is notable for its interest throughout the seasons and for the thoughtful arrangement of plants. The site also includes a beautiful, naturalistic meadow. Among the excellent specimens in this personal pleasure ground are a small-leaved katsura, mature *Parrotia* and several beech cultivars. This is a rare treat for the tree enthusiast and an inspiring example of possibilities and passion. **We will meet at the Arboretum and travel by small bus. Park in the meadow next to the entrance kiosk.**

**Thursday, May 2
9 a.m. – 12:30 p.m.**

Members: \$45

Non-Members: \$50

Register Now >

Architecture and Landscape of Chestnut Hill: A Walking Tour

Barry Jeffries

Landscape Architect and Morris Arboretum Guide

Join us for a tour of the unique landscape and historic architecture of the St. Martin's area of Chestnut Hill. Adjacent to the natural treasures of the Wissahickon Valley, this community continues to be blessed with many uniquely designed areas with historic homes and gardens, earning it the title of Philadelphia's "Garden Suburb." There are fascinating connections that exist between the history and development of the St. Martin's area, landscape gardening, and the Morris Arboretum. We will examine this community's rich architectural and landscape design legacy

that has contributed to making this a very desirable suburban enclave in the Philadelphia area. **Meet in front of the Chestnut Hill Academy parking lot at 500 West Willow Grove Avenue.**

Saturday, May 4

1 – 3 p.m.

Members: \$25

Non-members: \$30

Register Now >

A Trip Back in Time: History and Horticulture in Germantown

Bob Gutowski

Arboretum Historian and Director of Public Programs, Morris Arboretum

On this trip we will go back in time and explore two historic Germantown homes. We will start with Wyck, the home for over 300 years of the prominent Wistar-Haines family. We will tour the architecturally innovative home of this Quaker family whose members were leaders in Philadelphia business and philanthropy. Roses are a highlight of the garden, as Wyck has the oldest rose garden in the U.S. that follows the original design plan. The staff horticulturist will take us on a tour of the garden when the fragrant, old fashioned roses are in bloom. We will also see the perennial gardens, fruit trees, extensive vegetable, and herb gardens. Next we will visit the nearby Deshler-Morris House, an historic mansion also called the Germantown White House, that was the scene of fighting in the Battle of Germantown. It is the oldest surviving presidential residence, having twice sheltered George Washington during his term of office. This site, which is filled with colonial history and administered by the National Park Service, also has a garden that we will visit. **We will meet at the Morris Arboretum and travel by small bus. Park in the meadow next to the entrance kiosk.**

Tuesday, May 14

9 a.m. – 1:15 p.m.

Members: \$45

Non-members: \$50

Register Now >

The Wonders of the Wissahickon: A Walking Tour Along Scenic Forbidden Drive

Ken LeRoy

Certified Arborist Representative, John B. Ward Tree Experts

We will start our guided walking tour at historic Rittenhouse Town, an early industrial community along the banks of the Monoshone Creek and the site of the first paper mill in British North America. From there we will walk about three miles on fairly flat terrain along Forbidden Drive. Ken will share his knowledge of the plants, trees, and geology found in the park as well as the history of the area. The Wissahickon Section of Fairmount Park has a fascinating history from the early days of the Lenni Lenape to recent years and the ongoing efforts to preserve the historic structures and open space along it. **Please bring your lunch and something to drink. We will meet at the Arboretum and travel by small bus. Wear good walking shoes and please park in the meadow next to the entrance kiosk.**

Saturday, May 18

10 a.m. – 3 p.m.

Members: \$55

Non-Members: \$60

Register Now >

A Trip to the Grounds for Sculpture

Come with us to the Grounds for Sculpture in Hamilton, New Jersey, a 35-acre indoor and outdoor museum of contemporary sculpture by internationally renowned artists who work in a wide range of media from bronze and steel to stone and concrete. The site, about an hour's drive from the Arboretum, is beautifully landscaped with interesting and sometimes whimsical design ideas that become the settings for the pieces of sculpture, some on a monumental scale. After a morning guided tour, we will have a gourmet box lunch and

then you can spend the afternoon exploring the garden on your own. **We will travel by bus from the Arboretum. Park in the meadow next to the Kiosk. The trip costs include lunch at the GFS café.**

Tuesday, June 4
8:45 a.m. – 3 p.m.

Members: \$95

Non-members: \$110

Register Now >

Wild Urban Plants of the Northeast

Ken LeRoy

Certified Arborist Representative, John B.

Ward Tree Experts

Join us for this plant hunting adventure with horticulturist Ken LeRoy to see some of the plants that spontaneously grow in urban and suburban areas. Tough growing conditions in our cities and towns may seem unwelcoming to vegetation; however, there are many plants that manage to grow in sidewalk cracks and roadside medians, flourish along chain link fences and railroad tracks, and line the banks of streams and rivers. On their own and free of charge, these plants provide ecological services including temperature reduction, oxygen

production, carbon storage, food and habitat for wildlife, pollution mitigation, and erosion control on slopes. Rather than vilifying such plants as weeds, it is important to notice, recognize, and appreciate their contribution to the quality of urban life. The idea for this trip is based on the book “Wild Urban Plants of the Northeast” by Peter Del Tredici, a botanist at the Arnold Arboretum. It is available in the Morris Arboretum Shop. Our exploration will take us along the Schuylkill River Trail in Norristown. This recreational path starts in Center City Philadelphia, runs along the Schuylkill River, and winds through Conshohocken and Norristown. **Please bring your lunch and something to drink. We will meet at the Morris Arboretum and travel by small bus. Park in the meadow next to the entrance kiosk. Bring your lunch and something to drink. If you would like to meet at the Norristown Train Station please let us know by contacting 215-247-5777, ext. 125.**

Saturday, June 15
10 a.m. – 3 p.m.

Members: \$55

Non-members: \$60

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International Society of Arboriculture Continuing Education Units

The Arboretum's professional training courses carry International Society of Arboriculture Continuing Education Units. If you are an ISA certified arborist and need to maintain certification by taking 30 credits over a three-year period, you may want to sign up for classes at the Arboretum. If you have questions about this, please contact Jan McFarlan, (215) 247-5777, ext. 156 or jlmc@upenn.edu.

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Contemporary Tree Appraisal

David Hucker

Registered Consulting Arborist

Join us for a day-long seminar that will explore the history and process of valuing and appraising trees. The process of assigning a value to a tree has changed dramatically over the past several years. We will approach the new methods being developed and describe the issues involved in the process. There will be classroom and in-the-field appraisal exercises, so bring a calculator. Our instructor is David Hucker, Registered Consulting Arborist #388. Mr. Hucker has over 35 years of experience as an arborist in southeastern Pennsylvania and was past president and chairman of the board for Historic Bartram's Garden. He is also a member of the Council of Tree and Landscape Appraisers. **This course carries 5.5 CEUs for ISA certified arborists.**

Friday, February 15
9 a.m. – 4 p.m.

Fee: \$135
(includes lunch)

Register Now >

Soil Ecosystems for Landscape Planting

Dr. John Swallow

Director of Environmental Sciences, Pine and Swallow Environmental

In this class we will discuss the interconnection between soil ecosystems and the physical and chemical characteristics of soil, the challenges of providing horticultural soil for urban projects, and essential quality control procedures for constructing the built-landscape. Students will gain an understanding of manufactured soil blends, the soil marketplace, and creation of soil profiles that mimic undisturbed natural landscapes. After this talk, you will have newfound awe for what you might have thought was just "dirt." John Swallow, Ph.D., is Director of Environmental Sciences and a principal and founder of Pine & Swallow Environmental. He has provided

science-based technical consulting expertise to public and private clients for the design and construction of landscape development projects for more than 30 years. **This course carries 5.5 CEUs for ISA certified arborists and 6 CEUs for PA landscape architects.**

Friday, February 22
9 a.m. – 4 p.m.

Fee: \$135
(includes lunch)

Class Cancelled

Understanding Trees as Complex Biological Systems

David Tukey

Neighborhood Coordinator, West Mt. Airy Street Tree Planting

Trees are dynamic systems of complex, interrelated biological processes. The better we understand those processes, the better we as arborists can promote tree health, beauty, and longevity. After covering the basics of tree anatomy and biology, this workshop will consider a series of questions about how a tree accomplishes various tasks such as growth, nutrient transport and defense against decay, as well as impacts of tree care such as pruning and fertilizing. Along the way, we will explore findings from recent research and areas where science is less clear about how a tree functions. The information will have practical implications for arborists, both new and seasoned, while also enabling them to better explain their recommendations to clients.

This course carries 5.5 CEUs for ISA certified arborists.

Monday, March 4
9 a.m. – 4 p.m.

Fee: \$135
(includes lunch)

Register Now >



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The Life of Soil

Dr. Elaine Ingham

Chief Scientist, Rodale Institute

In this day-long seminar Dr. Ingham will review the soil food web and the role that each organism plays in healthy soil. Participants will gain knowledge of the important role bacteria and mycorrhizal fungi play in soil chemistry and you will learn how compost and compost teas can be used to improve our soils and the health of the plants that grow in them. Dr. Ingham is a soil biology researcher, founder of Soil Food Web, Inc., and the author of the USDA's Soil Biology Primer. She is recognized as a world leader in soil microbiology. **This course carries 5.5 CEUs for ISA certified arborists and 6 CEUs for PA landscape architects.**

Friday, March 15

9 a.m. – 4 p.m.

Fee: \$135

(includes lunch)

Register Now >

Pruning Shrubs for Maximum Health and Beauty: A Hands-on Class

Iana Turner

Horticulturist, Morris Arboretum

Shrubs require special pruning techniques. Learn when to prune for maximum bloom and fruit set, and how to rejuvenate overgrown flowering shrubs. We will review techniques for maintaining a thick, vigorous hedge. After the morning lecture and demonstration, the afternoon will feature supervised, hands-on pruning. **Please bring pruning tools for the afternoon session. This course carries 5 CEUs for ISA certified arborists.**

Wednesday, March 20

Rain date: Friday, March 29

9 a.m. – 3:30 p.m.

Fee: \$125

(includes lunch)

Register Now >

Introductory Tree Climbing

Zac Shechtman

Owner, Shechtman Tree Care

Rob Thigpen

Foreman, Shechtman Tree Care and ISA

Penn-Del Chapter Climbing Champion

This class provides an introduction to tree climbing and features the opportunity to have supervised climbing instruction in trees. It is ideal for tree companies looking to advance promising groundsmen, or gardeners and landscapers looking to get off the ground. Effective methods for climbing trees will be demonstrated by instructors and practiced by students. Safety rules will be reviewed and stressed. Students will learn how to tie critical knots regularly used by arborists. Included in the fee, each student will receive a copy of *The Tree Climbers Companion*, by Jeff Jepson, a great resource for climbers. **Bring an arborist's rope and saddle, a hard hat, gloves, safety glasses, and insect repellent to the class. Wear boots, long pants, and dress for the weather. This course carries 16.5 CEUs for ISA certified arborists. We will meet at Bloomfield Farm. Look for the paved road across Northwestern Avenue from the public garden entrance. Park in the lot and follow the signs to the Horticulture Center.**

Wednesday, Thursday, Friday

March 20, 21, 22

Fee: \$525

(includes lunch)

Register Now >

Conservation Arboriculture: Lessons from Kew Gardens

Tony Kirkham

Head of the Arboretum and Horticultural

Services, Royal Botanic Gardens, Kew

Conservation arboriculture is an approach to tree care practice that has received an increasing amount of attention in recent years. It emphasizes the preservation of ancient and aged trees not only for aesthetics but as reservoirs of biodiversity in the form of insects and microbial life that inhabit them and become the building blocks of a healthy

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ecosystem. The wisdom of saving “veteran” trees as habitat and arks of biodiversity becomes apparent when arboriculture is thought of in this way. Deadwood removal becomes less important in our pruning priorities and ecosystem function becomes the priority. There are many parallels with ecological landscaping that focuses on native plant usage, water conservation, control of invasives, and preservation of biodiversity. Arborists from the United Kingdom and Kew Gardens in particular have been on the forefront of this movement and Tony’s experiences will be particularly insightful. **This course carries 5.5 CEUs for ISA certified arborists.**

Monday, March 25, 9 a.m. – 4 p.m.

Fee: \$135
(includes lunch)

Class Cancelled

The Future of Arboriculture in a Changing World

Dr. Neil Hendrickson

Director of the Northeast Research Labs, R.A. Bartlett Tree Expert Co.

Dr. Hendrickson will present an overview of past and current arboricultural practices and how they are evolving in light of current research on environmental stress. He will focus on the role trees play in our environment and the associated threats arising from the environmental changes like global warming that we are currently experiencing. He will help us to understand how we can continue to preserve the health and beauty of trees that are such a critical component of a sustainable, biologically diverse landscape. Dr. Hendrickson, who received his Ph.D. from the Yale School of Forestry, is nationally recognized as an expert arborist. He conducts research and provides technical support for Bartlett throughout the U.S. and internationally. **This course carries 5.5 CEUs for ISA certified arborists.**

Friday, March 29, 9 a.m. – 4 p.m.

Fee: \$135
(includes lunch)

Register Now >

Wood Utilization and Value Recovery Workshop

Brian Knox

Administrator, Urban Hardwood Recovery Project

In anticipation of the loss of large numbers of ash trees throughout the U.S. due to emerald ash borer, utilization of this valuable wood has become an important issue. Brian will share some of his discoveries in a morning lecture and an afternoon field component using a portable mill. This training will help urban foresters and tree professionals build the skills necessary to make informed decisions about how they can use these cut trees to their highest use in any given market and how to find and create higher uses and better markets. It builds on the success of the Hardwood Value Improvement Project (HVIP), a USDA Forest Service Wood Education and Research Center project that trained municipal arborist to in maximize the use of their wood by-products. **This course carries 5.5 CEUs for ISA certified arborists.**

Wednesday, April 3, 9 a.m. – 4 p.m.

Fee: \$125
(includes lunch)

Register Now >

Native Wildflower Meadows: Let's Get Real

Larry Weaner

Principal, Larry Weaner Landscape Design Associates

Demand for native meadows, particularly as an alternative to lawn, is increasing and yet few types of landscape plantings are more misunderstood than the native wildflower meadow, with many failures resulting from inadequate planning and the use of poorly adapted plants. Far better results can be obtained when the plants and processes used reflect the ecological character of our naturally occurring meadow communities. More than one-year wonders, meadows modeled on these ecosystems can provide long-term, easily managed landscapes that

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Photo by Larry Weaner

harbor a myriad of wildlife and provide color and texture throughout the year. In this all-day, in-depth workshop, Larry Weaner will discuss the design, implementation, and management of native meadows, using a series of case studies featuring large and small-scale meadows as well as projects ranging in age from initial establishment to over ten years in existence. He will also illustrate how garden design principles can be used in the meadow for subtle visual effect and to create graceful transitions to more formal garden areas. Larry Weaner has been creating native landscapes since 1977. He founded Larry Weaner Landscape Associates in 1982 and has gained a national reputation for combining ecological restoration with the traditions of garden design. **This course carries 5.5 CEUs for ISA certified arborists and 6 CEUs for PA landscape architects.**

Friday, April 12, 9 a.m. – 4 p.m.

*Fee: \$135
(including lunch)*

Register Now >

Up By Roots: Healthy Soils and Trees in the Built Environment

James Urban

FASLA and author, "Up By Roots"

Landscape architects and other site designers make decisions that impact soil, often with little understanding of critical scientific principles. In his book "Up By Roots", James Urban, FASLA, presents fundamental

soil principles and solutions to urban soil problems in a manner designed for people with little to no soils training using common language and a distillation of complex soil principles. This workshop will begin with an introduction of the three basic soil properties, physical, chemical, and biological and how they interrelate and support plant growth. The differences between urban and natural soil will be explained and soil assessment methods for both undisturbed and disturbed urban soil will be taught. The workshop will conclude with basic solutions to common urban soil problems. **This course carries 5.5 CEUs for ISA certified arborists and 6 CEUs for PA landscape architects.**

Wednesday, April 17, 9 a.m. – 4 p.m.

*Fee: \$135
(including lunch)*

Register Now >

New Field Techniques for Tree Evaluation

Jerry Bond

Consulting Urban Forester, Urban Forestry LLC

Jerry will explain new field protocols for obtaining quick and reliable estimates of tree condition and tree load potential. The morning session will examine an estimating method that uses six defined parameters to determine tree condition. This method will then be practiced in an outdoor exercise. After lunch, we will consider tree load, a topic important for risk assessment. Participants will learn an easy technique to determine the load potential for trees and their parts. An outdoor exercise will put this knowledge into practice and will be followed by a discussion of actual case studies. Jerry Bond, Ph.D., is a consulting urban forester with Urban Forestry LLC. **This course carries 5.5 CEUs for ISA certified arborists.**

Friday, April 19, 9 a.m. – 4 p.m.

*Fee: \$135
(includes lunch)*

Register Now >

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Spring Courses 2013 at the Morris Arboretum

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Identification and Use of Shrubs in the Landscape

Diana K. Weiner

Restoration Manager, Friends of High School Park

Shrubs are an integral part of any successful landscape. But often landscape professionals plant only common varieties. This course will help you add to the palette of shrubs that you currently recommend to clients. The focus will be on shrubs that grow well in this area. Students will learn shrub identification skills through an indoor illustrated lecture and an

outdoor lab session in the living collection of the Arboretum where you will see examples of many of these species. We will discuss their cultural requirements, seasons of interest, and how to successfully use them in the landscape. Consideration will be given to how to best combine shrubs to create communities of plants that are self-sustaining. **This course carries 5.5 CEUs for ISA certified arborists and 6 CEUs for PA landscape architects.**

Friday, May 17, 9 a.m. – 4 p.m.

*Fee: \$135
(including lunch)*

Register Now >

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endowed lecture series

In addition to the classes listed in this course brochure you might also be interested in the Morris Arboretum Endowed Lecture Series. This series is free for members. For non-members these lectures are free with Arboretum admission. A reception with refreshments is featured at each lecture.

Tales of Compton and Bloomfield: Exploring Morris Arboretum History

Lukens Endowed Lecture

Bob Gutowski

Director of Public Programs, Morris Arboretum

The Morris Arboretum of the University of Pennsylvania was once Compton, the summer home and country estate of John and Lydia Morris. The vision and legacy of these sibling founders of the Arboretum spans 125 years. Who were these “worthy stewards?” What do we know about the

landscape and its residents before Compton?

In exploring these questions we encounter the lives of colonist, farmer, soldier, miller, miner, teacher, and apprentice. We visit the hills of Kobe and of Crefeld and speak of porter and pteridomania. The Morris Arboretum is listed on the National Register of Historic Places as an excellent example of eclectic American Victorian landscape. Bob Gutowski, Director of Public Programs and our garden historian will share some images, stories and insights of the people, place, and times that shaped the Arboretum of today.

**Sunday, January 27
2 p.m.**

endowed lecture series

Japanese Flowering Cherries: A 100 Year-Long Love Affair

Klein Endowed Lecture

Anthony S. Aiello

The Gayle E. Maloney Director of Horticulture and Curator, Morris Arboretum

2012 marked the 100th anniversary of the planting of the famous flowering cherries surrounding the Tidal Basin in Washington, D.C. Flowering cherries have long been a captivating presence in Japan and throughout the U.S. since their introduction 100 years ago. Although the Tidal Basin plantings seem like a single instance in time, the interest in flowering cherries in the early 1900s was widespread and these plants came into the U.S. through a number of different sources. Along with the famous plantings in Washington, there is a long history of growing flowering cherries in Philadelphia. In this lecture, Tony Aiello will discuss the introduction of flowering cherries into the U. S. and will focus on their history in Philadelphia. Along with his interest in the history of cultivation of flowering cherries, Tony has been using the Arboretum's cherry collection as a model for preserving our horticultural heritage and at the same time providing best practices of veteran tree care. He has been working with other botanic gardens in the Northeast to identify, propagate, and share rare varieties of flowering cherries.

Sunday, February 24
2 p.m.

Register Now >

A Botanist in a Botanic Garden: Field and Laboratory Adventures

Barnes Endowed Lecture

Dr. Susan Pell

Director of Science, Brooklyn Botanic Garden

People often marvel at the idea of scientists working at public gardens and arboreta. Why are they there? What are they doing? Come on a botanical journey around the globe and through the lab as I show you some of the research I have conducted at two gardens in New York City. As a laboratory manager at The New York Botanical Garden and Director of Science at Brooklyn Botanic Garden, I have had numerous opportunities to participate in international field expeditions and to conduct molecular research on a diversity of topics from cashews to lilacs. In this lecture, I will share some stories from my adventures and talk about the role of botany in public gardens.

Sunday, March 24
2 p.m.

Register Now >



general class information

The Morris Arboretum is located in the Chestnut Hill section of Philadelphia. For further information or directions, call (215) 247-5777 or check the Arboretum website at www.morrisarboretum.org.

The Green Choice

We need your input. In the interest of sustainability, if you would like to opt out of receiving our course brochure, please e-mail us at education@morrisarboretum.org with the subject line, "Opt out." We always offer the fall course brochure on our website under the Education tab.

Location of Classes

All classes will be held at the George D. Widener Visitor Center unless otherwise noted. Parking areas may be reached by entering the Arboretum off of Northwestern Avenue. Students should arrive at least ten minutes before the start of the class to allow time to check in.

If you are a person with a disability and require an accommodation to participate in classes, please contact Jan McFarlan at (215) 247-5777, ext. 156 Monday through Friday, to discuss the accommodation. For people who use TTY, please call PA Relay at 1-800-654-5984.

Refund and Cancellation Policy

In order to receive a refund for a class you must call (215) 247-5777, ext. 125 at least two business days before the class start date. When withdrawing from a trip, you must call the Arboretum five business days in advance of the trip. The Arboretum reserves the right to cancel any program if necessary. Refunds take approximately 3 to 4 weeks to process. There will be no refunds after a class begins.

Weather Information

In case of inclement weather conditions on the day of your class, please call the Education Department, (215) 247-5777, ext. 156, for information on possible cancellation or rescheduling of the class.



☐ My check or money order payable to the Morris Arboretum is enclosed.

David Rogers'

BIG BUGS, BIG FUN!



Big Bugs will spring to life all over the Morris Arboretum on April 1st and they'll stick around all summer long.

Check the website for bug-inspired classes and activities this spring and summer.

- Summer Adventure Camp — Make summer camp friends, both “bug” and small
- Insect-Inspired Art: Big Bugs Art Series for Kids
- Scurry on in to The Shop for fun bug books and toys



Morris Arboretum
UNIVERSITY of PENNSYLVANIA

Official arboretum of the Commonwealth of Pennsylvania

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