

Morris Arboretum classes



Continuing Education
Spring 2015

GROWING MINDS

Nature Yoga for Families
Tree Time Theatre

CULINARY ADVENTURES

Beer Tasting

HORTICULTURE

Gardening for Planet Earth
Rose Pruning Basics

HEALTH AND WELLNESS

Mindfulness Meditation

CREATIVE EXPRESSIONS

Hypertufa Trough



Morris Arboretum
UNIVERSITY of PENNSYLVANIA

Official arboretum of the Commonwealth of Pennsylvania

become a member and save

All Membership Levels Include:

- **FREE** unlimited general admission for a 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** or discounted admission to special events.
- **SHOP FIRST at our Plant Sale, plus 1 FREE bonus plant.**
- **RECIPROCAL ADMISSION** privileges to more than 300 gardens.
- *Seasons* newsletter.
- *E-Newsletter*, keeps you up-to-date on all our events.
- Morris Arboretum automobile decal.

General Memberships

Individual - 2 free passes*

\$65 (1 Year Membership)

\$120 (2 Year Membership - Save \$10) 4 free passes*

- Admits one named adult.

Dual - 2 free passes*

\$80 (1 Year Membership)

\$150 (2 Year Membership - Save \$10) 4 free passes*

- Admits two named adults.

Family - 2 free passes*

\$100 (1 Year Membership)

\$190 (2 Year Membership - Save \$10) 4 free passes*

- Admits up to two named adults and their children 18 and under (or up to 4 grandchildren).

Premier Memberships

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

Beech \$125 - 4 free passes*

\$240 (2 Year Membership - Save \$10) 8 free passes*

Members enjoy all the general benefits, plus

- Invitation to the Holiday Garden Railway Evening.
- Child Care Provider Benefit.

Chestnut \$175 - 6 free passes*

Members enjoy all the benefits of Beech, plus

- **BRING 2 FRIENDS** – Show your membership card and get free admission for two additional guests every time you visit the Arboretum.
- Attend the Plant Sale Preview.

Holly \$250 - 8 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) and Laurel (\$1,000) membership levels. Please call (215) 247-5777, ext. 151 for details or visit our website.

RENEW OR JOIN NOW ONLINE AT

www.morrisarboretum.org. Benefit from "last year" pricing by joining online or by phone at (215) 247-5777 ext. 151 by February 15, 2015.

*\$14 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: _____

morris arboretum

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 Alliance 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, \$8 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.

Cover image and image this page by Paul Meyer



at a glance

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7	9 a.m.	Plant Diagnostics: It's not CSI!	32
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18	10 a.m.	Winter Tree Identification.....	22
18	7 p.m.	Creating Beautiful Landscapes under Mature Trees.....	24
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at a glance

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25	12:30 p.m.	Look Before You Landscape	25
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11	10 a.m.	Visit a Nurseryman's Private Garden	30
13	10 a.m.	Mini Radiant Yoga Retreat: Inspiring Mindfulness in Motion	11
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27	10 a.m.	Hydrangea Heaven: Class and Garden Tour	21
July			
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17	8:30 a.m.	Woody Plant Conference	24

become an education volunteer

- ❖ 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.

Orientation and Way Finding: Discover secret places and special trees.

Arboretum History: Find out about the Morrises and how we honor their vision today.

Botany Basics: Learn about photosynthesis and pollination and why we can't live without them.

Tours: Find out how we encourage an on-going commitment to taking care of the environment.

Discover your inner teacher: Learn how to put all your knowledge to use

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

Tuesday, Thursday and Saturday afternoons in March.

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culinary adventures

Cooking with Pan Sauces

Josh Hunter

*Morris Arboretum Chef and Owner of
Company's Coming*

Take your dishes from average to amazing with a pan sauce! Classic French techniques will be demystified in this demonstration where you will learn how to add depth of flavor with the art of deglazing, beurre blanc, and more. In this class students will learn how to prepare pan seared scallops with beurre noisette, halibut with lemon dill beurre blanc, chicken with brandy mustard cream sauce, and pan seared tournados of beef with a merlot pan reduction. You will go home with the knowledge to make a variety of timeless sauces that will help you take a meal from weeknight simple to dinner party ready.

Saturday, March 14

1—3 p.m.

Members: \$30

Non-members: \$35

Register Now ➤

Summer Desserts Workshop

Josh Hunter

*Morris Arboretum Chef and Owner of
Company's Coming*

Get ready for the coming heat of summer by learning how to make refreshing and surprisingly simple desserts. Learn how to prepare and blind bake a tart shell. This process will prepare the tart shell for various fillings such as a classic lemon tart or fruit tart. Then we will prepare for those days that are simply too hot to do any baking! Learn how to make a decadent chocolate mousse and then take it to the next level by learning how to stabilize the mousse with gelatin to make bavarois, also known as Bavarian cream, with raspberry puree. Samples will be available at the end of the demonstration.

Sunday, April 26

1—3 p.m.

Members: \$30

Non-members: \$35

Register Now ➤

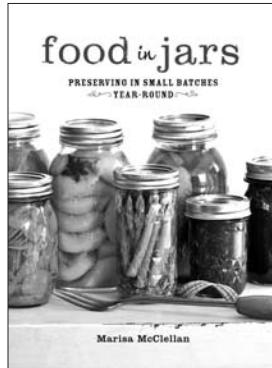
culinary adventures

Preserving Strawberries with Honey and Pomona's Pectin

Marisa McClellan

Author of "Food in Jars"

Join local food blogger and cookbook author for a class on how to preserve with seasonal fruit and honey. Marissa will demonstrate



how to make a batch of strawberry jam, using just local berries, honey, lemon juice, and Pomona's Pectin. Whether you are a seasoned canner or entirely new to food

preservation, there will be something useful in this class for you. All attendees will go home with the recipe and a small jar of jam made in class that day. **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, May 16
10 a.m.—12 noon

Members: \$40
Non-members: \$45

Register Now >

Beer Tasting

Bob Fauteux

National Sales Manager, Weyerbacher Brewing Company

Join us for a delicious night of merrymaking with Weyerbacher Brewing Company, based in nearby Easton, Pennsylvania. We will sample five beers from Weyerbacher that represent the breadth of styles and richness in flavor the brewery has to offer. Enjoy and learn more about their wildly popular and award winning Belgian-style triple, *Merry Monks*. Then take this unique opportunity to be among the first

to try a brand new, soon to be released, tart style beer. These brews will be paired with complementary food designed to play off of the flavors of the beer, from refreshingly light to full bodied and complex. Bring your friends and explore a world of unique and exciting beer!

Wednesday, May 20
6:30—8:30 p.m.

Members: \$50
Non-members: \$55

Register Now >

Savory Summer Soups and Salads

Pam Williams

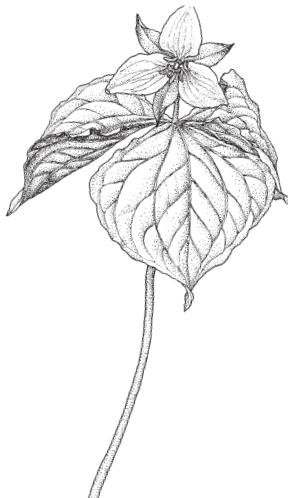
Professional Chef and Owner, Serving Thyme, Inc.

Learn to make fresh salads and soups that are anything but ordinary. In this demonstration Pam Williams will combine the season's freshest veggies and herbs for the perfect warm-weather supper that tastes fantastic and is good for you as well. The class will end with a sampling of Pam's creations. You can watch her demonstrations, taste the results, and get recipes to take home.

Thursday, May 28
12 noon—2 p.m.

Members: \$30
Non-members: \$35

Register Now >



behind the scenes

Behind the Scenes Research: Sex Evolution in Plants

Dr. Cindy Skema

Botanical Scientist, Morris Arboretum

For a complete description, see page 22.

Thursday, February 12

7—8 p.m.

Member: \$20

Non-member: \$25

Register Now >

An Inside Look at the Witchhazel Collection

Anthony 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. Native witchhazels provide color in the late fall while Asian witchhazels bloom in late winter to early spring. Many of the Asian witchhazels were introduced into this country during the last half of the 19th Century. Their discovery is intertwined with the early exploration of Japan and China. 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, February 21

10 a.m.—12 noon

Members: \$30

Non-members: \$35

Register Now >



The Morris Legacy: Art Museum Collections and the Waterworks

Anthony Aiello

*The Gayle E. Maloney Director of
Horticulture, Morris Arboretum*

For a complete description, see page 28.

Thursday, March 27

9:15 a.m.—3:00 p.m.

Member: \$90

Non-member: \$95

Register Now >

Behind the Scenes at the American Philosophical Society's Jefferson Exhibit

The American Philosophical Society is the nation's oldest learned society, founded by Benjamin Franklin in 1743. On this trip to Center City, we will see APS's current exhibit, *Jefferson, Science, and Exploration* and take a behind the scenes tour of the Library to see some of their vast and historic collections that complement this exhibit. Thomas Jefferson is best known as the author of the Declaration of Independence and as the third president of the United States. What is not so well known is his lifelong passion for science. His expansive interests ranged from paleontology to botany to climate science. *Jefferson, Science, and Exploration* highlights objects from the APS collections that place Jefferson within the scientific community of his time, including his portable polygraph, bones of a mammoth excavated in 1806, and natural history watercolors by William Bartram and Titian Ramsey Peale. **We will meet at the Arboretum and take a small bus. Park your car in the meadow to the left of the entrance kiosk.**

Tuesday, May 12

9 a.m.—12:45 p.m.

Members: \$45

Non-members: \$50

Register Now >

behind the scenes



Greenhouse and Propagation Tour

Shelley Dillard

Propagator, Morris Arboretum

Go behind the scenes with Arboretum Propagator, Shelley Dillard for an early spring tour of the greenhouse and propagation areas at the Morris Arboretum. This tour will include a look into greenhouses and the Dorrance H. Hamilton Fernery. Don't miss your chance to come inside these busy buildings that are usually closed to the public, and hear about some of the special plants propagated for both display and research purposes. Shelley will share the history of the Fernery, stories of propagation successes and failures, and maybe even give you a sneak peak at new upcoming projects. **Check in at the Visitors Center, walk to the Greenhouse.**

Saturday, March 28

10:30 a.m.—12 noon

Members: \$25

Non-members: \$30

Register Now ➤

Behind the Scenes: The Morris Arboretum Archives

Leslie Morris-Smith

Archivist, Morris Arboretum

In a class led by Arboretum Archivist, Leslie Morris-Smith, we will explore the history of the Arboretum through its archives and artifacts. Ledgers, diaries, maps, letters, and even Lydia Morris's cookbook provide us

with insights into life at the Arboretum one hundred years ago. For the last 25 years, items from the early days of the estate and its occupants, as well as items from throughout the Arboretum's history, have been collected and conserved. Now they are catalogued, organized, and used by Arboretum staff and researchers. Learn how, in addition to the founders, John and Lydia Morris, the Arboretum was also shaped by a whole host of employees--from Arboretum directors to gardeners and botanists--who have made it the institution we know today. Leslie, in this hour-long overview, will also talk about interesting recent projects in the archives.

Wednesday, April 29

7—8 p.m.

Members: \$20

Non-members: \$25

Register Now ➤

Full Moon Garden Stroll

Bob Gutowski

Director of Public Programs, Morris Arboretum

Take this rare opportunity to visit the Arboretum after hours as twilight comes and passes into night. Stroll the Arboretum, go out on the tree canopy, and enjoy the garden in the glow of the full moon. Arboretum educator, gardener, naturalist, and historian Bob Gutowski will be your guide and share his stories. We will gaze at the moon and the sky, observe the plants and creatures, relieve the day's stress, and celebrate the sights, scents, and sensations of twilight as seasons change and the full moon rises in a beautiful place. After the walk we will head into the Arboretum Visitors Center for refreshments.

Please dress for the weather. Meet at the Arboretum's Visitor Center.

Monday, May 4

7—9 p.m.

Members: \$25

Non-members: \$30

Register Now ➤

health and wellness

Make-Your-Own Tonic Workshop – Spring Cleaning for the Body!

Paula Billig

Herbal Counselor, Paula's Herbals

This is the perfect time of year to mix up a spring tonic to toast the Spring Equinox. Tonics have been traditionally used at this time of year for centuries, to help the body 'wake up' from the lethargy of winter and prepare for hard work once again. In this fun spring tonics workshop, you will make a delicious Angelica elixir to take home and learn the two main purposes for this herbal medicinal tonic – to either enhance digestion and elimination (think "spring cleaning" for the body) or enhance the immune system.

Sunday, February 22

1—3 p.m.

Members: \$35

Non-members: \$40

Register Now >

Walking Mindfulness Meditation

Sara Trohaugh

Yoga Instructor and Owner, Restorative Bodywork

Mindfulness meditation is a form of meditation designed to develop the skills of deep listening to our inner and outer experiences with acceptance, patience, and compassion. Mindfulness guides us to become more aware of thoughts and the sensory world: of what we are hearing, feeling, smelling, and experiencing through the body in the present moment, either inside or outside of ourselves. Amidst the beautiful setting of the Arboretum, this class will guide us to use mindfulness mediation practices to enjoy the beautiful surroundings of nature and be fully present with ourselves as we stroll through the Arboretum. **Please wear**

comfortable walking shoes and dress for the weather.

Four Wednesdays: April 8, 15, 22, 29
1—2 p.m.

Members: \$75

Non-members: \$80

Register Now >

Gentle Yoga in Nature

Sara Trohaugh

Yoga Instructor and Owner, Restorative Bodywork

Yoga is an ancient practice designed to unite body, mind, and spirit, guiding us toward a better understanding of our inner and outer selves. Amidst the beautiful setting of the Arboretum, we will explore the basics of yoga. This class is for beginners and experienced yogis alike. Enjoy a nourishing practice of poses designed to improve flexibility and balance, as well as meditation and breathing techniques for stress reduction and enhanced vitality. Sara will offer skilled individual attention, supporting participants to most fully and safely enjoy the benefits of yoga. Class will be held outside weather permitting.

**Please bring a yoga mat and wear
comfortable layered clothing.**

Four Wednesdays: May 6, 13, 20, 27
10—11:15 a.m.

Members: \$75

Non-members: \$80

Register Now >



health and wellness

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 TM Level 1, no previous experience is needed. Al Smith has more than 200 hours of teacher training from the Institute of Integral Qigong and Tai Chi.

Please wear loose-fitting clothing to the class.

**Four Thursdays: May 28, June 4, 11, 18
10—11 a.m.**

Members: \$75

Non-members: \$80

Register Now >

Tai Chi 2: Beyond the Basics

Al Smith

Practitioner Member, National Qigong Association

The healing art of Tai Chi welcomes you. This ancient Chinese tradition has been portrayed as a “moving meditation.” A whole body experience, it will focus on movement, stillness, breath, and balance. Level 2 will add forms to those of the Tai Chi Easy Sequence practiced in Level 1. A unique Chinese form known as “The Swimming Dragon” will be offered. The practicing of this beautiful exercise will increase the production of chi and enhance its circulation throughout the body. This class will build on what you learned in Tai Chi in the Garden.

PREREQUISITE: Tai Chi Easy Level 1 or some Tai Chi/Chi Kung experience. Please wear loose-fitting clothing to the class.

**Four Thursdays: May 28, June 4, 11, 18
11:30 a.m.—12:30 p.m.**

Members: \$75

Non-members: \$80

Register Now >

Yoga in the Garden: Ten Enchanted Evenings

Jennifer Schelter

Founder, Mindful Strategies for Living and The Radiant Retreat®

www.jenniferschelter.com

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 physical ease, balance and flexibility, reduction in stress and anxiety, increased energy, calm rejuvenation, inspiration, gratitude, laughter, fun, and community. All are welcome including beginners. **Please bring a yoga mat and wear comfortable clothes.**

Ten Tuesdays: June 2, 9, 16, 23, 30, July 7, 14, 21, 28, August 4

7—8:15 p.m.

Rain Make-up Date: Tuesday, August 11

*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 >

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Spring Courses 2015 at the Morris Arboretum

health and wellness

Mini Radiant Yoga Retreat: Inspiring Mindfulness in Motion

Jennifer Schelter

Founder, *Mindful Strategies for Living and The Radiant Retreat®*
www.jenniferschelter.com

Give yourself time to unplug and re-focus. Immerse yourself in a conversation of self-care, joy, connection, creativity and fulfillment. This mini-retreat provides the space, safety, and the instructor's over 17 years of professional expertise to explore, create, and focus on your body, mind, and spirit. Experience the beauty of the Morris Arboretum while sharing the best practices of wellbeing and rejuvenation including Vinyasa yoga, mindfulness meditation, creative visualization, Pranayama, stress reduction techniques, journal writing, and self-study. People with all levels of experience will enjoy this mini version of Jennifer Schelter's signature inspirational and rejuvenating Radiant Retreat to Tulum, Mexico. The benefits include revitalization, inspiration, physical flexibility, strength, balance, fun, calm, and a positive and nurturing mindset. **Please bring a yoga mat, journal, pen, towel, and water.** Lunch is included.

Saturday, June 13

10 a.m.—2 p.m.

Raindate: Saturday, June 20

Members: \$75

Non-members: \$85

Register Now >



Yoga Out on a Limb

Jennifer Schelter

Founder, Mindful Strategies for Living and The Radiant Retreat®
www.jenniferschelter.com

Experience trees as you never have before... 50 feet up at eye level with leaves and birds. Join us for four 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 ease, balance and flexibility, reduction in stress and anxiety, increased energy, calm rejuvenation, inspiration, gratitude, laughter, fun, and community. The joy of *Out on a Limb* is like attending 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.

Four Sundays: June 14, July 12, August 9 and September 13
8:30—10 a.m.

Members: \$75

Non-members: \$80

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

Register Now >

Stroller Strides®

Jacqueline Walsh

Certified Stroller Strides and Fit4Baby Instructor

Exercise class for moms and babies. For a complete description see page 13.

Every Wednesday and Friday, starting April 8
10—11:00 a.m.

*Members and Non-members: \$18 per class
Pre-registration required by 8am the day of each class.*

Register Now >



Growing Minds at Morris Arboretum is a program series for kids and families that inspire a sense of wonder about the natural world within the beautiful setting of the Morris Arboretum. 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. Take a look and sign up for these programs that are certain to be enriching, fun, and memorable!

FOR PARENT/CAREGIVER & CHILD

All Around This World Music Series (Ages 2-4)

Melanie Hsu

Music Educator

All Around This World is a unique, interactive music program that encourages children and their families to explore the world by enjoying great global melodies, rhythms, and movement. In every class, kids and their parents/caregivers will sing, dance, and explore countries and cultures, “traveling” around the globe region by region during the course of the series. Class size is limited to the first 12 registrants.

Session I- Five Fridays: February 27, March 6, 13, 20, 27

**Session II- Five Fridays: April 10, 17, 24, May 1, 8
10:30—11:15 a.m.**

Members: \$100 for each five-week session

Non-members: \$125 for each five-week session

Members: \$180 for both sessions (I and II)

Non-members: \$200 for both sessions (I and II)

Register Now ➤

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 weather. Class size is limited to the first 15 registrants.

Our most popular children's series! Sign up for one or both sessions – each class is a new adventure!

Session I- Six Mondays: March 23, 30, April 6, 13, 20, 27

**Session II- Six Mondays: May 4, 11, 18, 25, June 1, 8
10:30—11:30 a.m.**

Members: \$120 for each six-week session

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

Members: \$220 for both sessions (I and II)

Non-members: \$280 for both sessions (I and II)

Register Now ➤



Stroller Strides®

Jacqueline Walsh

Certified Stroller Strides and Fit4Baby Instructor

This popular fitness class returns to Morris Arboretum this spring, with expanded dates! Stroller Strides® is a total fitness program that moms can do with their babies – it includes power walking, strength-training intervals, and body toning exercises using exercise tubing, the stroller, and the environment. Taught by a certified and specially trained instructor, it is a great workout for any level of exerciser. Stroller Strides instructors weave songs and activities into the routine designed to entertain and engage baby, while moms are led through a series of exercises specific to her role as mom. You must be at least six weeks post-partum to participate in this series. Classes are shine-only – registrants will be notified in case of cancellations.

Every Wednesday and Friday, starting April 8

10—11:00 a.m.

*Members and Non-members: \$18 per class
Pre-registration required by 8am the day of each class.*

Register Now >

AFTER SCHOOL CLASSES

Kids Click! Nature Photography Workshop (Ages 8-11 and 12-15)

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. 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.

**Session I (Ages 8-11) - Four Thursdays:
April 9, 16, 23, 30**

**Session II (Ages 12-15) - Four Wednesdays: April 8, 15, 22, 29
4—5:30 p.m.**

*Members: \$85 for each four-week session
Non-members: \$100 for each four-week session.*

Register Now >

WEEKEND CLASSES

How Does Nature Inspire You? Kids' Art Series (Ages 6-9)

Jennifer Liebert

Museum Educator

In this four-week series, we will look to nature, grand and small, for creative inspiration. We will walk through the gardens of Morris Arboretum to observe and draw from nature and art and then go inside to print, build, and design! We will use things found in nature and recyclable goods to create puppets that help us understand why recycling is so important to our community and environment. We will explore the Arboretum's artwork, and see how it inspires our own work. We will examine patterns in nature and make stamps, too!

Each class will include exciting nature studies and fun art activities taught in a friendly and supportive environment. All supplies are



provided. Come dressed for the weather and fun!

Four Saturdays: March 7, 14, 21, 28
1—2:45 p.m.

Members: \$100
Non-members: \$110

Register Now >

welcoming environment under the tree canopy of our unique outdoor children's classroom.

Four Saturdays: April 25, May 2, 9, 16
10:30—11:30 a.m.

Members: \$80
Non-members: \$100

Register Now >

Nature Sleuths (Ages 5-7)

Pam Newitt

Educator and Founder, Nature By The Yard
Spring is a wonderful time for children to explore the great outdoors and develop their intellectual curiosity while having fun in nature! Join us for a close look at trees, birds, and other wildlife that call the Morris Arboretum home. Each session will focus on a particular topic of the natural world, delving into how it fits into the Arboretum's web of life. One week we may get up-close and personal with spring wildflowers, while another week we may learn about trees as the canopy closes and shades the forest floor; 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.

Four Sundays: April 12, 19, 26, May 3
2—3 p.m.

Members: \$80
Non-members: \$100

Register Now >



Tree Time Theatre (Ages 5-10)

Steve Seyfried

Founder and Managing Director, Family Stages

Join us for a *tree-rific* four-week interactive theatre program this spring! Over the four weeks, children will create an original play developing characters and story lines based on the flora and fauna of the Morris Arboretum. The final session ends with a performance by the children for family and friends. This acting series builds children's confidence and creativity in a warm and

NatureYoga for Families (Ages 5-10)

Deirdre Vezirov Kilkenny

Certified yoga instructor, Springboard Studio

Join us for a yoga practice in the beautiful outdoors, as we explore poses with a nature theme. We will have fun with partner yoga, songs and even a yoga game or two, and will finish with sweet savasana. Strengthen your connection to your Inner Nature, as well as deepen your family bond, while enjoying special access to the Arboretum before visiting hours!

Three Sundays: May 17, June 28, and July 19
9—10 a.m.

Members: \$60 for all three weeks (includes 1 adult and up to 2 kids)

Non-members: \$75 for all three weeks (includes 1 adult and up to 2 kids)

\$5 for each additional person per class session-

Walk-ins: \$25 per session, cash or check only.

Register Now >

Growing Minds

Mini-Morris Players (Ages 5—10)

Steve Seyfried

Founder and Managing Director, Family Stages

In this fun-filled theatre program, children will help history come alive at Morris Arboretum! On the very grounds he developed with his sister, Lydia, John Morris (played by a costumed theatre educator) will tell the fascinating stories of his and Lydia's adventurous travels where they gathered many of the exotic plants and trees that now grace the grounds. As John spins his 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 John Morris at 6:30 p.m. Over the next hour the children 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 a 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.**

**Four Wednesdays: July 8, 15, 22, 29
6:30—7:45pm**

Members: \$80

Non-members: \$100

Register Now ➤



creative expressions

New Trends Designing in Glass: Fun Tricks for Loose Flowers

Cheryl Wilks

Floral Educator, Florist and Owner of Flowers on Location

Cut flowers may be a wonderful bounty from our gardens or even from the grocery store, but what do you do with them when you bring them indoors? This class will show you the many tricks of the trade to arrange flowers so that they will look their very best. You will learn techniques such as gridding and stuffing, and florist gel will be demonstrated. The elements of design will be covered in depth. Cheryl Wilks has been a guest lecturer at the

Philadelphia Flower Show for many years, so she really knows her stuff!

Please bring a box to take home your creation. All materials are provided by the instructor.

**Saturday, March 7
10 a.m.—12 noon**

Members: \$45

Non-members: \$50

Register Now ➤

Ikebana Flower Arranging

Janet Solomon

Professor, Ikenobo School

Ikebana is the Japanese art of flower arranging. Its fundamental inspiration comes from

creative expressions

nature. In contrast to the Western approach to flower arranging, which favors a mass of flowers, Ikebana emphasizes simplicity of design and using line, space, and texture to create balanced, harmonious arrangements. It involves discipline and knowledge of rules and forms. Learn the rich symbolism and fundamentals of this graceful traditional Japanese art form and gain a lifetime skill for distinctive floral design as you create a different arrangement each week to take home and enjoy. **Please bring garden clippers, a pint-sized margarine container, a kenzan or pin holder, and a low-flat-bottomed round or rectangular container (an eight-inch cake pan will do).** Bring a box to take home your arrangements.

**Two Sundays: March 22, 29
1—3 p.m.**

Members: \$65
Non-members: \$72

Register Now >

Handmade Paper Bowls

Winnie Radolan

Papermaker, Artist, Educator

Create personal and unique “paper vessels” by using hand-cast paper pulp and including your own mementos. We will use clear plastic bowls with high sides as molds. Learn to decorate your colorful paper vessels with flat inclusions. Your vessel can commemorate

a special occasion or simply be a handsome receptacle for your special collections of shells, dried plant materials, or other knick-knacks. No experience is necessary for this meditative process. Bring some flat treasures to collage onto the outside of your vessel. Examples are stamps, feathers, embroidery thread, string, old foreign paper money, old letters, maps, sheet music, etc., basically any interesting 2D item that won’t rust or bleed color.

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, March 28
12:30—3:30 p.m.**

Members: \$45
Non-members: \$50

Register Now >

Green Roof Nest Box Workshop

Louise Clarke

Horticulturist, Morris Arboretum

Join Morris Arboretum’s green roof horticulturist, Louise Clarke, to construct and plant a green roof nest box that you can take home! Each student will customize an untreated pine, Peterson-style bird box roof to accept a colorful mixture of hardy, low growing, low maintenance sedums



creative expressions

that will bloom in yellow, white, and pink. An introduction to green roof benefits, maintenance for your nest box, tips on attracting birds, and mounting your verdant, bird-friendly nest box are discussed. Your potential nesters will enjoy a home that is cooler and its roof will provide a convenient place for perching. **Please wear work clothes and bring garden/work gloves if desired, as well as a #1 Phillips head screwdriver.** 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 4

1—3 p.m.

Members: \$55

Non-members: \$65

Register Now 

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 techniques to make easy bouquets, corsages, and boutonnieres. This special one-day intensive class is a demo along with hands-on designing. You will work with a colorful selection of flowers to master new design mechanics. You will leave with lots of new skills and ideas. **The class fee includes everything. Bring a box to take home finished pieces and a bag lunch and drink.**

Saturday, April 11

9:30 a.m.—2:30 p.m.

Members: \$85

Non-members: \$95

Register Now 

Resin Casting with Natural Materials

Jenny Lauer

Rose Garden Intern, Morris Arboretum

Would you like to create a beautiful necklace, pendant, or paperweight with your favorite dried flower or leaf? Try resin casting! By encasing natural materials in resin, you can preserve your favorite flora as a smooth, glassy pendant that will last a lifetime. Personalize your creation with transparent dyes, tiny photographs, glitter, and more. Learn the techniques for mixing epoxy and hardeners, choosing different molds, and creating unique jewelry with your own found natural objects. Participants will be able to keep whichever mold they choose. **Please bring a box to bring your resin-filled mold home, as it will need to sit overnight to harden before you attach the clasp.** Bring your own small, dried plant material or photographs to craft with; or choose from a collection of tiny leaves, ferns, and flower petals available. The class includes the clasp or finding but not the necklace chain.

Sunday, April 12

1—2:30 p.m.

Members: \$30

Non-members: \$35

Register Now 

Garden Chair Building Workshop

Dan Benarcik

Horticulturist, Chanticleer

The chair you build in this workshop will be perfect in your garden and give you years of enjoyment. Dan first fell in love with this chair on a trip to Wave Hill because of its simplicity, elegance, and comfort. He has been building, refining, and enjoying it for nearly 20 years. The chair is constructed of red cedar for superior weather resistance. Students attending this workshop will each build and take home their own chair. No carpentry skills are required. The class

creative expressions



includes all jigs and drill bits for quick and accurate building, all adhesive, sandpaper, and hardware.

Bring one fully charged cordless drill/screwdriver and extra battery or charger. Be prepared to take home your chair; truck and vans make it super simple, backseats of most cars will accommodate one chair. Roof racks, bike racks, etc. can work too as long as there is tie-down cord or straps. The class meets 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.

Sunday, May 17

1—4 p.m.

Members: \$215

Non-members: \$225

Register Now ➤

Hypertufa Trough Workshop

Louise Clarke

Horticulturist, Morris Arboretum

Anna Bower

Natural Lands Intern, Morris Arboretum

For a complete description, see page 21.

Saturday, May 30

10 a.m.—12 noon

Members: \$45

Non-members: \$50

Register Now ➤

The Art of Japanese Ink Painting

Allison Zito

Artist and Teacher

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, May 30

10:30 a.m.—12:30 p.m.

Members: \$30

Non-members: \$35

Register Now ➤

Impressionist Painting

Allison Zito

Artist and Teacher

Vibrance and energy shimmer on the canvas of the impressionist painter. Working in an intuitive manner, they captured in color and rhythm the spontaneity of the moment. It was a time of change, a time of new ideas and innovation. These innovations took the impressionists outdoors to paint in the open air. The impressionist artists developed a kind of painterly short hand, using visible brush strokes to recreate the fleeting qualities of light

Horticulture

as it danced across the natural world. In this class, we will discuss the impressionist artists. Everyone will be encouraged to develop their own personal intuitive style of painting. Like the impressionists, we will paint in the open air, with the breathtaking gardens of the Morris Arboretum as our own personal Giverny. (In the event of inclement weather we will paint indoors, from great works of the Impressionists.) **Come to class dressed to paint. All supplies are provided.**

Sunday, June 7
12:30—2:30 p.m.

Members: \$30
Non-members: \$35

Register Now >

Due to the individual attention, class size is limited. Meet at the Vistors Center.

Saturday, March 14
9:30 a.m.—12:30 p.m.

Members: \$35
Non-members: \$40

Register Now >

Weeds at Our Feet

Rachel Mackow

Co-owner, Wild Ridge Plants

The edges of our paths, gardens, and lawns are home to resilient plants. Dandelion, plantain, violets, and others are often rogued out by hand or with pesticides, though they have traditional uses as food and medicinal remedies. Many of our weeds also serve an ecological role in the garden – providing nectar, pollen, and habitat for wildlife including pollinators, birds, spiders, and salamanders. This hour-long presentation by Rachel Mackow will weave together the ecology of common native and non-native plants with their modern and historical uses. Learn which common weeds host butterflies, which are high in healthy fats, and where to find the plant called “nature’s bandage”.

Saturday, March 21
1—2 p.m.

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

Register Now >



Rose Pruning Basics

Lucy Dinsmore

Horticulturist, Morris Arboretum

Early spring is the time to get your roses ready for a season full of blooms. This class is held outdoors in the Rose Garden, and will provide an overview of spring rose care including pruning, planting, transplanting, fertilizing, and disease prevention. A pruning demonstration will follow, and then you'll have the opportunity to test your skills on our roses. Consulting rosarians from the Philadelphia Rose Society will also be available for one-on-one guidance and to answer your questions. **Be sure to dress warmly, bring your hand pruners and gardening gloves, and be prepared to get your knees dirty.**

Gardening for Planet Earth: 10 Ways That You Can Make a Difference

Marc Radell

Penn State Master Gardener

Climate change. Vanishing species. Polluted water. The list of environmental problems today seems endless. But there is hope, gardeners, and some of it rests with you! Over the last few decades, suburban development has replaced agriculture and open space as the largest class of land use in the Delaware Valley. This means that the welfare of the environment is largely in the hands of you,

Horticulture

the homeowner. This class will address eco-friendly gardening from two perspectives: 1) what the most serious environmental issues are today and how we gardeners can help mitigate the damage; and 2) what common gardening practices cause the most harm to the environment and how we can change them. We shall cover in detail 10 gardening practices that you can implement to make a difference in protecting the environment and many other “bonus” tips based on the instructor’s experience as an environmental professional and Master Gardener.

Tuesday, April 7
7—9 p.m.

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

Register Now >

Pruning for the Homeowner

Vince Marrocco
Chief Horticulturist, Morris Arboretum

Learn how you can skillfully prune shrubs and small trees to achieve a pleasing natural shape and abundant flowering. In this evening lecture and Saturday workshop, 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 techniques for larger, older trees. It will also cover naturalistic pruning techniques for creating attractive hedges and methods for reducing overgrown shrubbery. This class meets twice. **Please bring hand pruners and a small pruning saw to the Saturday session.**

Wednesday, April 8
7—9 p.m. and
Saturday, April 11
10 a.m.—12 noon

Members: \$50
Non-members: \$55

Register Now >

The Magnificent Trees of Spring: Cherries, Magnolias, and Dogwoods

Anthony S. Aiello

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

April in the Delaware Valley brings an explosion of colorful flowering trees. Discover the diversity of the most ornamental of these – magnolias, cherries, and flowering dogwoods. In this class we will explore the Arboretum’s extensive collections of these trees, looking at the sequence of flowering and learning how to identify and grow them in your home landscape. **This class will be held outside so dress for the weather.**

Friday, April 17
10 a.m.—12 noon

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

Register Now >



Daylilies: The Perfect Perennial

Dave Guleke

President, Delaware Valley Daylily Society

Daylilies are sometimes referred to as the perfect perennial. Different varieties can bloom from late spring to fall and are available in many different colors, shapes, and sizes. They survive well with little care in a wide range of landscapes with different climates, soil, and light conditions. If you don’t already

Horticulture

have daylilies, you are missing out. Come learn more from local daylily expert, Dave Guleke about why these plants are so popular and how to best use them in your landscape. Dave even has a daylily named after him!

Saturday, April 18

1—2:30 p.m.

Members: \$25

Non-members: \$30

Register Now >



Hypertufa Trough Workshop

Louise Clarke

Horticulturist, Morris Arboretum

Anna Bower

Natural Lands Intern, Morris Arboretum

Join Arboretum staff for a delightfully messy, hands-on hypertufa trough-making workshop. Hypertufa is a lightweight, porous concrete mixture made from Portland cement, peat, and perlite that mimics tufa rock. Your small, weatherproof container will welcome plants that like well-drained conditions such as sedums, hens and chicks, and rock garden plants. Ideal for those with limited space, troughs can be planted as miniature gardens or to display choice specimens. Your instructors will provide individual attention and step-by-step instructions from mixing to molding to aftercare. Please bring a small cardboard box no larger than 8" x 10" x 5" deep to use as the

form. Also bring a plastic grocery bag, a pair of sturdy kitchen-type rubber gloves (mandatory) for working with the cement mixture, and a board or piece of plywood large enough to transport your trough home for final curing. Wear clothing that you won't mind getting dirty. **We will meet at the Horticulture Center 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, May 30

10 a.m.—12 noon

Members: \$45

Non-members: \$50

Register Now >

Hydrangea Heaven: Class and Garden Tour

Nina Schneider

Garden Designer

For the amateur or experienced gardener with a small or large garden, no single genus provides as much variety in form and color for summer bloom as hydrangea. While offering the benefits of low maintenance, this vast group of shrubs can provide winter interest in the peeling bark of the oak leaf hydrangea, spring color in the earliest bloomer, *H. bretschneideri* (no relation) and a rainbow of floral display throughout the entire summer and into September with *H. involucrata*. We will review all of them, large and small, sun and shade lovers, native and Asian; how to propagate them and how to prune for vigor and bloom. Meet at the Arboretum. Our morning will start with an overview of the whole genus, followed by a tour of the Arboretum's collection and concluding with a tour of the instructor's garden in nearby Chestnut Hill, directions provided, to see many more with an emphasis on right plant for the right place and where to get them.

Saturday, June 27

10 a.m.—1 p.m.

Members: \$40

Non-members: \$45

Register Now >

Behind the Scenes Research: Sex Evolution in Plants

Dr. Cindy Skema

Botanical Scientist, Morris Arboretum

Dioecy, the condition in plants where male individuals are separate from female individuals, is rare in the Plant Kingdom, but has evolved repeatedly in independent lineages. This lecture will discuss both the similarities and differences in these evolutionary shifts, and possible selective pressures related to them. Dr. Skema will share with us her current research on a case study of the evolution of dioecy in ribbonwood (*Plagianthus*), a mallow endemic to New Zealand. Anatomical and genetic data of floral development in ribbonwood will be presented, and explained for a lay audience, as a means to show how and when males stop being females and vice versa in this interesting plant system. Botany novices and geeks alike are welcome!

Thursday, February 12
7—8 p.m.

Member: \$20

Non-members: \$25

Register Now >



Winter Tree Identification

Tim Block

The John J. Willaman Director of Botany,
Morris Arboretum

And you thought that all trees look alike in winter! Learn to see both the obvious as well as the more subtle characteristics that make winter identification interesting. The class will begin indoors with a lecture introducing essential identification techniques and a review of important winter characteristics such as bud morphology, habit, leaf and bundle scars, bark, and fruit. The group will then move outside for a stroll through the Arboretum to put your knowledge to work. **Dress for the weather.**

Wednesday, March 18
10 a.m.—12 noon

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

Register Now >

The Rose Family

Dr. Ann Rhoads

Retired Director of Botany, Morris
Arboretum

In the Pennsylvania flora, the Rose Family is made up of 28 genera (144 species) of woody and herbaceous plants. Growth form ranges from canopy trees in the forest to common wildflowers of fields and woods. The Rose Family is important to wildlife through the processes of pollination and seed dispersal. It also includes important fruit and ornamental crops. In Pennsylvania the family includes one federally listed threatened species and 23 or 24 (1 with 2 varieties) that are tracked by the Pennsylvania Natural Heritage Program. The Rose Family is a well-defined unit that holds up to recent molecular studies. We will try to understand what holds the family together as well as the characteristics that allow us to recognize individual genera and species. **Please bring your lunch and something to drink.**

Tuesday, April 14
10 a.m.—2 p.m.

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

Register Now >

botany

Fungi and Plants: A Love-Hate Relationship

Jacob Golan

Plant Protection Intern, Morris Arboretum

Fungi are some of the most overlooked organisms, despite making up 25% of the world's biomass, being a major workhorse in most functioning ecosystems, and having an estimated 1.5 to 5 million species on Earth. Fungi are also remarkable for their interconnectedness with other life forms, from beneficial symbioses to deadly pathogen attacks. This lecture will focus on the interrelationships between fungi and plants by exploring the unique natural history and ecology of fungi. We will discover how fungi are present in our everyday life, from issues in sustainable agriculture to renewable energy and even home gardening.

Tuesday, April 28

7—8 p.m.

Members: \$20

Non-members: \$25

Register Now ➤

23

Spring Botany at Hickory Run State Park

Tim Block

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

Listed as one of the '20 Must-See State Parks' by the Pennsylvania Department of Conservation and Natural Resources, Hickory Run State Park is a gem to those who enjoy scenic views. This 15,990 acre park is nestled in the Pocono foothills of Carbon County and hosts a wide variety of natural resources and geologic interest, including the Boulder Field that has been deemed a National Natural Landmark. Join us as we explore these unique geologic features, learn how they came to be, and investigate their relationship with the botanical landscape. **Meet at the Morris Arboretum. We will travel by van. Park in the meadow to the left of the entrance kiosk. Bring sunscreen, bug repellent, water, and lunch. Please wear sturdy shoes or boots for walking over uneven surfaces.**

Tuesday, May 19

8 a.m.—5 p.m.

Members: \$75

Non-members: \$80

Register Now ➤



special seminar

Woody Plant Conference

Mark your calendars for the 18th 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. Some of the featured speakers include:

- ✿ Rebecca McMackin, Director of Horticulture at Brooklyn Bridge Park
- ✿ Pandora Young, Senior Gardener, Longwood Gardens
- ✿ Jim Chatfield, Extension Horticulturist, Ohio State University

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 17
8:30 a.m.—4:30 p.m.

landscape design

Creating Beautiful Landscapes under Mature Trees

Harriet Cramer

Garden Designer and Writer

Learn how you can create and sustain a lush, healthy, and beautiful landscape in the shade of mature trees. In this class we will examine one of the most common, yet most challenging of all landscape situations. Limited light, compacted soil, intense competition for nutrients, and less than ideal air circulation—these are only some of the obstacles to creating a beautiful garden under large, old trees. We will discuss how to successfully deal with these obstacles while ensuring that the plants you are planting under the trees will remain vibrant and healthy. You will learn what you need to do before you plant, the diversity of herbaceous and woody plants and bulbs that you can use, and the ongoing care needed

to ensure that your shady garden remains attractive for many years to come.

Wednesday, March 18
7—8:30 p.m.

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

Register Now 

The Mixed Border for All Seasons

Eva Monheim

Horticulture Instructor, Temple University

If you always wanted to create a beautiful flower border, this course is for you! A border that provides color throughout the seasons enlivens the heart and soul. From spring to fall and even through the winter, the mixed border can be a colorful array of textures, shapes, and forms. In creating beautifully designed borders you will discover your own palette of plants that echoes your character and desires for beauty. Eva will cover design

landscape design

basics, share tips on planning for a sequence of color, and discuss plant combinations that work well together. She will inspire you with examples of borders from Europe, the U.S. and Canada to provide a global perspective. To help you plan a border that will thrive in our climate she will discuss great native plants and dependable non-natives and how to use them most effectively.

Thursday, April 9
7—8:30 p.m.

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

Register Now >

Look Before You Landscape

Charles P. Mazza

Former Horticulture Educator, Brooklyn Botanic Garden and Cornell Cooperative Extension

Landscaping doesn't start with design. It starts by carefully observing, measuring, calculating, and testing to discover characteristics of the property. Factoring in the results of those discoveries leads to a more sustainable landscape where plantings match the site's characteristics. Learn how to conduct a step-by-step evaluation or assessment of the site. This class is ideal for new home owners or those planning to expand a landscape into new areas of their property, whether they are experienced gardeners or novices. Included in the class is the helpful reference book: *Site Assessment for Better Gardens and Landscapes*, written by the class instructor. Class time is devoted to understanding and resolving issues that can be challenging in a landscape, as well as indoor and outdoor hands-on activities.

Saturday, April 25
12:30—3 p.m.

Members: \$45
Non-members: \$50

Register Now >

Great Native Plants For Your Landscape

Pam Morris Olshefski

Curatorial Assistant, Morris Arboretum

From *Amelanchier* to *verbena*, there are many great native plants you can use to enhance your garden. In this illustrated lecture and walk through the Arboretum you will learn about many good choices, the conditions they require to grow, and how to successfully work them into your landscape. Pam will focus on woody and perennial plants that provide seasonal interest with attractive flowers, fruit, and bark texture. She will discuss good native plant cultivars that have been bred for appealing garden traits, such as compact size, abundant flowers, and fruit. This class will include a walk through the Arboretum looking at native plants and considering how to use them in the landscape.

Saturday, June 6
1—3 p.m.

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

Register Now >



calling all birders

Your Yard Is for the Birds

Ruth Pfeffer

Expert Birder and Trip Leader

Learn how to identify backyard birds and get tips on how to attract them. With an illustrated lecture Ruth will highlight birds in our area and the time of year you can expect to see them. She will consider birds that frequent our yards throughout the year as well as migrating birds and those of conservation concern. Using close-up pictures Ruth will help you sharpen your identification skills. She will discuss the basic elements birds require to live including food, water, shelter, and places to raise their young and she will highlight a variety of native plants that create desirable habitat. After the lecture, weather permitting, we will go outside in the Arboretum to observe birds and discuss their diverse habitat requirements. **Bring binoculars.**

Saturday, March 21

8—11 a.m.

Members: \$25

Non-members: \$30

Register Now >

Birding in the Wissahickon: Evening Owl Walk

Keith Russell

*Audubon Urban Important Bird Area
Coordinator*

Eastern screech-owls and great horned owls are resident species in many parts of Philadelphia including the Wissahickon Creek. But these nocturnal species are difficult to find during the day. During this walk we will search for calling eastern screech-owls, which occur fairly often in the Wissahickon, and hopefully get to see a few individuals as well. And since March is mating season for great horned owls and American woodcocks we will have an excellent chance of hearing these species and perhaps several others. **Bring a flashlight if you would like and binoculars. We will meet at the Houston Playground.**

Directions to Houston Playground: From the Arboretum, turn left onto Northwestern

Avenue to Germantown Avenue; turn left and go $\frac{1}{2}$ mile up the hill to W. Bells Mill Road. Turn right on W. Bells Mill, cross Forbidden Drive and follow to first left at Lykens Lane. Go 0.2 miles to Manatawna Avenue and turn left. Take the 1st right onto Wissahickon Avenue. Cross Clyde and turn left onto Grakyn Lane (one-way street). Park along Grakyn and meet in front of the Houston Playground pavilion.

Saturday March 28

7:30—9 p.m.

Members: \$20

Non-members: \$25

Register Now >

Green Roof Nest Box Workshop

Louise Clarke

Horticulturist, Morris Arboretum

For a complete description, please see page 16.

Saturday, April 4

1—3 p.m.

Members: \$55

Non-members: \$65

Register Now >

Birding at the Arboretum: The Wetlands and Tree Canopy

Keith Russell

*Audubon Urban Important Bird Area
Coordinator*

Join Keith as we explore some of the hotspots for birds at the Morris Arboretum. We will visit the Arboretum's natural areas including wetlands, meadows, and the woodlands along the Wissahickon Creek. These areas provide great habitat for a wide variety of birds year-round. We will see resident birds as well as migrating warblers, thrushes, vireos and other songbirds. We will also have a chance to look for birds on the tree canopy exhibit, *Out on a Limb*, which provides a great vantage point for viewing birds at treetop level. This session is for beginning or experienced bird watchers. Keith will supply field guides.

calling all birders

Bring your binoculars. Park in the meadow next to the Arboretum entrance kiosk.

**Saturday, May 2
8—11 a.m.**

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

Register Now >

Philadelphia Birding Hotspot: Tacony Creek Park

Keith Russell

Audubon Urban Important Bird Area Coordinator

Join us for a morning of birding at Tacony Creek Park – one of Philadelphia's lesser known birding hotspots. We will see migrating birds as well as birds that nest in the Park. Located in Philadelphia, Tacony Creek Park contains 302 acres, half of which is designated as natural lands. The Park has been a focal point for invasive species removal and native tree and shrub plantings, all of which has helped to increase the bird population. The park is part of a wildlife corridor that provides good habitat for migrating birds. Keith will provide field guides. **Meet at the Arboretum. We will travel by small bus. Park in the meadow to the left of the entrance kiosk.**

Bring your binoculars.

**Saturday, May 16
7:45—11:45 a.m.**

Members: \$40
Non-members: \$45

Register Now >

Houston Meadows: A Unique Bird Habitat

Keith Russell

Audubon Urban Important Bird Area Coordinator

According to Keith Russell, "It is hard to believe that you are in the city in Houston Meadows!" We will spend the morning exploring and discovering the Meadow's breeding bird species such as field sparrows,

orchard orioles, eastern bluebirds, and perhaps rarities such as blue grosbeak or yellow-breasted chat. Houston Meadows, which is very close to the Arboretum in the Wissahickon section of Fairmount Park, is a unique open meadow. This type of habitat is rapidly disappearing in urban areas and it is great to have it nearby. Thanks to Keith, funding was secured for this important grassland where birds and native plants are now abundant. We will meet at the Houston Meadows playground.

Bring binoculars. Meet at the Houston Playground.

Directions to Houston Playground: From the Arboretum, turn left onto Northwestern Avenue to Germantown Avenue; turn left and go $\frac{1}{2}$ mile up the hill to W. Bells Mill Road. Turn right on W. Bells Mill, cross Forbidden Drive and follow to first left at Lykens Lane. Go 0.2 miles to Manatawna Avenue and turn left. Take the 1st right onto Wissahickon Avenue. Cross Clyde and turn left onto Grakyn Lane (one-way street). Park along Grakyn and meet in front of the Houston Playground pavilion.

**Saturday, June 6
8—11 a.m.**

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

Register Now >



The Morris Legacy: Art Museum Collections and the Waterworks

Anthony Aiello

*The Gayle E. Maloney Director of Horticulture,
Morris Arboretum*

Along with creating the Morris Arboretum, John and Lydia Morris were benefactors to many cultural institutions. One of these was the Philadelphia Museum of Art, where John and Lydia are considered among the earliest and leading benefactors. The best known of their gifts is their treasured collection of 18th century Philadelphia furniture, but they also donated pottery, glassware, and sculpture, from their world travels, not to mention the family home, Cedar Grove. Members of a distinguished Philadelphia family, much of John and Lydia's wealth came from their family business, I. P. Morris & Company, among the nation's leaders in iron manufacturing, supplying engine and infrastructure components. Their company built much of the equipment used in the Philadelphia Water Works. Join us on a private tour of the Morris objects in the Philadelphia Museum of Art. The tour will focus on objects in the American art galleries, but we will also view items on display elsewhere in the Museum. Following lunch at Granite Hill, the Museum's premier restaurant, we will visit the Water Works to tour this fascinating piece of Philadelphia history and gain an understanding of the Morris contribution to Philadelphia's manufacturing past. **Meet at the Morris Arboretum. Park in the meadow to the left of the entrance road. We will travel by small bus. Lunch and admission for two exclusive tours are included in the cost of the trip.**

**Friday, March 27
9 a.m.—3 p.m.**

*Members: \$90
Non-members: \$95*

Register Now ➤

John Heinz National Wildlife Refuge and Fort Mifflin

Bob Gutowski

Public Programs Director

Join us as we visit two nationally significant Philadelphia sites. We will explore the 1,000-acre John Heinz Wildlife Refuge at Tinicum and learn about the important role the refuge plays in providing wildlife habitat. Despite its urban location, birdwatchers have recorded over 300 species in the Refuge. As we stroll through the refuge we will see a variety of ducks, raptors, and resident birds and may even see a bald eagle that has been nesting at the Refuge. After a picnic lunch at the refuge we will visit Fort Mifflin, a National Historic Landmark, one of the only remaining intact Revolutionary War battlefields and the only fort in Philadelphia. During the Revolution, the valiant efforts of the men at Fort Mifflin held the mighty British Navy at bay providing George Washington and his troops time to arrive safely at Valley Forge. **We will travel by small bus. Park in the meadow to the left of the entrance kiosk. Picnic lunch is included. Bring binoculars or you can borrow a pair at the Refuge.**

**Wednesday, April 22
9 a.m.—3:30 p.m.**

*Members: \$75
Non-members: \$80*

Register Now ➤

Behind the Scenes at the American Philosophical Society's Jefferson Exhibit

For a complete description, see page 7.

**Tuesday, May 12
9 a.m.—12:45 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 16

1—3 p.m.

Members: \$25

Non-members: \$30

Register Now >

Paxson Hill Farm Garden Trip

On this trip we will visit Paxson Hill Farm, a 10-acre private estate garden and nursery in beautiful Solebury, Pennsylvania. This Bucks County garden features a pair of 330-foot double perennial borders, a formal parterre garden with a knot garden, and a weeping Tupelo tunnel. There is also a yellow garden and an intimate courting garden. We will have a guided tour with the garden's owner, plantsman, Bruce Gangawar. We will have lunch at the garden and have the opportunity to shop in the greenhouse and nursery that features a diverse offering of unusual specimens not commonly found at the average garden center. **We will meet at**

the Arboretum and travel by small bus. Park in the meadow to the left of the entrance kiosk. Lunch is included.

Thursday, May 21

9 a.m.—3 p.m.

Members: \$80

Non-members: \$85

Register Now >

Fascinating Philadelphia: The Ryerss Museum

Leslie Morris-Smith

Archivist, Morris Arboretum

On this trip we will visit Burholme mansion, which houses the Ryerss Museum. Burholme was built in 1859 as the summer retreat of Joseph Waln Ryerss, a descendant of Nicholas Waln, one of the original settlers to come to Philadelphia with William Penn. Joseph's business involved trade with China, Japan, and England and he became an avid collector of objects from the Orient. His son Robert, a Quaker in the Victorian era, continued collecting after his father's death. Located in Burholme Park, the Ryerss Museum has an extraordinary and eclectic collection that includes generations of family heirlooms, paintings, sculpture, decorative art, and a vast array of Asian art and artifacts. The opulent home was given to the City of Philadelphia in 1905 and opened as a museum under the Fairmount Park Commission in 1910. New galleries were added in 1923 to display a substantial amount of art and artifacts from many countries, including a large number from China, Japan, and India. **Meet at the Arboretum. Park in the meadow to the left of the entrance kiosk. We will have a picnic lunch, included in the cost of the trip, after our visit.**

Friday, May 29

9:30 a.m.—1:30 p.m.

Members: \$50

Non-members: \$55

Register Now >

Visit a Nurseryman's Private Garden

Michael Colibraro

Co-owner, Colibraro Landscaping & Nursery, Inc.

This trip will take us to the garden of nurseryman Michael Colibraro, located in nearby Willow Grove. In this cosmopolitan garden that incorporates plants from around the world and takes advantage of every square foot, scale is important and the imagination flourishes. Garden rooms divide the space and stone and wooden details blend together with plants to create a garden that is truly a work of art. Michael's garden is an extraordinary landscape in a small space and contains many great ideas for urban and suburban gardeners.

A highlight of the visit is to have a tour of the garden with its creator, Michael Colibraro, a knowledgeable and enthusiastic plantsman. **A picnic lunch will be provided. We will leave from the Arboretum in a small bus. Park in the meadow next to the entrance kiosk.**

Thursday, June 11

10 a.m.—1 p.m.

Members: \$50

Non-members: \$55

Register Now 

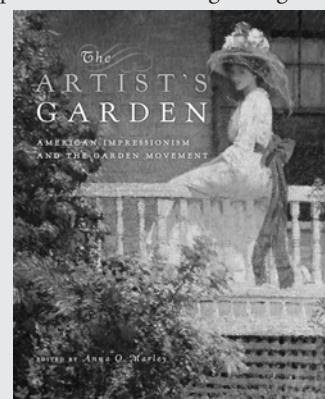
endowed lecture series

The Artist's Garden: American Impressionism and the Garden Movement, 1887-1920

Anna O. Marley

Curator of Historical American Art, Pennsylvania Academy of the Fine Arts

This talk will highlight the Pennsylvania Academy of the Fine Art's upcoming exhibition, *The Artist's Garden*, which intertwines stories of American artists, Impressionism, and the growing popularity of gardening as a middle-class leisure pursuit at the turn of the 20th century. Anna O. Marley is a nationally-recognized authority on American art and material culture from the colonial era to 1945. She holds a B.A. in Art History from Vassar College, an M.A. in Museum Studies from the University of Southern California and a Ph.D. from the University of Delaware. A reception with refreshments follows the lecture. This lecture is free to members or with garden admission. Reservations are required and space is limited. Sign up online at online.morrisarboretum.org/classes/endowed lectures or call (215) 247-5777, ext. 125. *The Klein Endowed Lecture is presented annually in memory of Dr. William M. Klein, who served as the first full-time director of the Morris Arboretum from 1977-1990.*



Sunday, March 15

2 p.m.

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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 jlm@upenn.edu. The ISA category codes for CEUs are as follows: Science=S, Practice=P, Management=M.

Contemporary Tree Appraisal

David Hucker

Registered Consulting Arborist

Join us as we 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, David Hucker, has over 35 years of experience as an arborist in southeastern Pennsylvania and is a member of the Council of Tree and Landscape Appraisers. **This course carries 5.75 CEUs for ISA certified arborists. (S=1, P=2.75, M=2)**

Tuesday, February 17

9 a.m.—4 p.m.

*Fee: \$135
(includes lunch)*

Register Now >

The Future of Arboriculture in a Changing World

Dr. Neil Hendrickson

*Director, 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 5.75 CEUs for ISA certified arborists. (S=1.75, P=2, M=2)**

Thursday, February 26

9 a.m.—4 p.m.

*Fee: \$135
(includes lunch)*

Register Now >



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New Methods of Tree Analysis

Dr. Jerry Bond

Principal Consultant, Urban Forest Analytics

Join us as we host Dr. Jerry Bond, a leading expert in tree health and structure, as we explore the process of performing a systematic in-the-field tree evaluation. Using published protocols, we will go through a step-by-step process of assessing a tree's biologic health, structural integrity, and the interactions between the two. Wind loading factors that can lead to tree failure will also be explored.

This course carries 4.75 CEUs for ISA certified arborists. (S=2, P=1.75, M=1)

**Monday March 2
9 a.m.—3 p.m.**

Register Now >

Fee: \$125 (includes lunch)

Plant Diagnostics: It's not CSI!

Dr. John Ball

Professor, South Dakota State University

"What is wrong with my tree?" is probably the most common question posed to arborists and other landscape professionals. The first problem is that there is rarely just one reason for a tree's decline and the second problem is that homeowner may be one of those reasons! This seminar will go step-by-step through the diagnostic process. Participants will learn the most common symptoms associated with abiotic agents and those more commonly tied to insects and plant pathogens. We will also explore how to investigate what has happened in the plant's past that may be predisposing factors in its decline. Another key topic for the day will be how to interact with clients so we can come up with the best options for them and their trees. In addition to teaching arboriculture, Dr. Ball instructs EMT and rock climbing courses. His research interests include tree worker safety. He previously

managed tree care companies in the Midwest and East.

This course carries 5.75 CEUs for ISA certified arborists. (S=2.75, P=1.5, M=1.5)

**Saturday, March 7
9 a.m.—4 p.m.**

Register Now >

Fee: \$125 (includes break and lunch)

Tree Canopy Conference: Preserving Trees in Our Communities

A healthy tree canopy provides important ecosystem services including air pollution removal, storm water runoff reduction, and building energy conservation. Abundant tree canopy provides habitat for wildlife and also has a positive impact on human mental health and well-being, community cohesion, and economic stimuli. In this conference we will look at tree canopy preservation and reduction both nationally and locally, and consider some of the greatest challenges communities are facing as they try to preserve canopy cover. Topics covered include:

- Insect and Disease Threats
- Tree Planting Ordinances
- Tree Pit Planting: Size and Soil
- Tree Tenders: A Successful Tree Planting Program
- New Tree Introductions and Heritage Trees

This conference will be held in Stokes Hall at Haverford College in Haverford, PA and carries 7 CEUs for ISA certified arborists. (S=2, P=2, M=3).

**Tuesday, March 10
8:30 a.m.—5 p.m.**

Register Now >

Fee: \$125 (includes breaks and lunch)

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Sonic Tomography: Non-Invasive Tree Investigation

John Wickes

President, Ira Wickes Tree Care

One of the more interesting tools for allowing arborists to image the internal structure of a tree is the sonic tomogram. This is a device that uses sound waves to create a 3D screen image of a cavity or a disconformity in the trunk of a tree without using any drilling methods or tools. John Wickes of Ira Wickes Tree Care in Spring Valley, New York, is one of the few American distributors of this instrument and he is well versed in its use and application. We will review all current techniques of investigation including use of the resistograph.

This course carries 3 CEUs for ISA certified arborists. (S=1, P=1, M=1)

**Monday, March 16
9 a.m.—12:00 noon**

Register Now >

Fee: \$90 (lunch not included)

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

Vince Marrocco

Chief 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 4.5 CEUs for ISA certified arborists. (S=1, P=3, M=0.5)

**Thursday, March 19 Register Now >
9:30 a.m.—3 p.m.**

Raindate: Friday, March 20

Fee: \$120 (includes lunch)

Crane Operator Licensing: CIC Certification Testing & Training

The Crane Safety Institute and Cranes 101

3-day course and certification exam for small to medium sized mobile hydraulic cranes

As of September 26, 2014, OSHA instituted a series of new regulations regarding the operation of cranes. These regulations, which will become mandatory in 2017, will require all crane owners and operators to become certified. This will have a profound effect on arborists who offer tree removal with a crane as part of their services. Compliance involves completion of a training program that is administered by a licensed training company and the successful passing of a written exam and a field demonstration of skills. The Crane Safety Institute and Cranes 101 of Boston, Massachusetts, are a certified training company that uses Crane Institute Certification (CIC) protocols and will administer a three day-course in mobile hydraulic crane operation that will lead to certification upon passing the test on the final day. Students are expected to arrive having studied the training material that will be provided in advance.

We will meet at



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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. This course carries 14 CEUs for ISA certified arborists. (S=1, P=10.5, M=2.5)

Wednesday, Thursday, Friday

March 25, 26, 27

9 a.m.—4 p.m.

Register Now >

Fee : \$1,695 (includes lunch)

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 grounds staff, 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. 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. This course carries 17.25 CEUs for ISA certified arborists. (S=0, P=17.25, M=0)

Wednesday, Thursday, Friday

April 8, 9, 10

9 a.m.—4 p.m.

Register Now >

Fee: \$525 (includes lunch)

Advancing Your Climbing Skills: Pruning, Rigging, and Removal with a Crane

Zac Shechtman

Owner, Shechtman Tree Care

Rob Thigpen

Foreman, Shechtman Tree Care and ISA Penn-Del Chapter Climbing Champion

This class, taught by experienced professionals, consists of three days of training in advanced arboricultural techniques. Instruction will cover the theory and practice of large tree pruning, including a component on tree physiology, structural pruning, and the latest ANSI standard. Each student will have an opportunity for hands-on experience using proper rigging techniques to safely lower wood from a standing trunk. Safe felling techniques and proper use of the latest equipment, as well as the critical knots involved will be demonstrated. The last day of this course will consist of instruction and demonstration of the safe use of a truck mounted crane for tree removal. Emphasis will be given to site selection, weight calculation, load distribution, and safe cutting techniques. Each student will receive a copy of *How to Fell a Tree* by Jeff Jepson, a book with step-by-step methods for taking down a tree, and a copy of the ANSI Z133.1 standards.

We will meet at the Horticulture Center 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. This course carries 17.25 CEUs for ISA certified arborists (S=2, P=13, M=2.25)

Wednesday, Thursday, Friday April 15,

16, 17

9 a.m.—4 p.m.

Register Now >

Fee: \$525 (includes lunches)

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Single Rope Techniques

Rob Thigpen

*Foreman, Shechtman Tree Care and ISA
Penn-Del Chapter Climbing Champion*

Climbing techniques for arborists have advanced significantly in the last 20 years, with the adaptation of practices that were first developed by rock climbers and cave explorers. These techniques have made tree climbing easier and safer, and have brought a greater degree of professionalism to arboriculture. The use of throw balls to advance the lead into the tree canopy has introduced the use of a single line as a means of ascension into a tree rather than the more traditional double line technique. The use of one line in climbing is known as Single Rope Technique (SRT) and has become a skill that has proved invaluable to many working arborists. Please join us for a day with one of the masters of SRT, Rob Thigpen of Shechtman Tree Experts. This course will include some in-the-tree climbing, and is open only to arborists with field experience.

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. This course carries 11.5 CEUs for ISA certified arborists
(S=.75, P=10, M=.75)**

Thursday, Friday

April 23, 24

9 a.m.—4 p.m.

Register Now ➤

Fee: \$285 (includes lunch)

Introductory Tree Climbing For Women

Rachel Brudzinski

*Arborist, New York Botanical Garden and
ISA Michigan Tree Climbing Female State
Champion, 2012*

Women can be talented, successful climbers even in a field traditionally dominated by men. This course, taught by ISA state champion tree climber, Rachel Brudzinski, will demonstrate climbing techniques especially geared to female climbers. It will also provide a basic understanding of tree biology that is so critical for practicing arborists. The class will focus on teaching women with a passion for arboriculture how to create and maintain a safe working environment, develop fundamental arboricultural skills, and learn the professional techniques necessary to develop an approach for climbing a tree. You will learn some of the latest professional tree climbing advancements and you will have the opportunity to participate in supervised in-tree climbing. This class will give you the chance to experience trees in a whole new light. Novice to advanced women

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climbers are welcome. Wear long pants and comfortable, hard soled shoes. If you have regulation climbing gear including a rope, harness, hardhat with chin strap, and eye protection, please bring it. You may also want to bring gloves.

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. This course carries 5.75 CEUs for ISA certified arborists. (S=1, P=4, M=.75)

Saturday, May 30 Register Now >

9 a.m.—4 p.m.

Raindate: Saturday, June 6

Fee: \$125 (includes lunch)

Advancing Your Climbing Skills For Women

Rachel Brudzinski

Arborist, New York Botanical Garden and ISA Michigan Tree Climbing Female State Champion, 2012

This course is designed for intermediate to advanced female climbers seeking to experience a deeper understanding of innovative arboriculture techniques. Students will learn essential knots, daily gear maintenance, and safety regulations mandated for climbing arborists. During the course, students will

have a minimum of six hours of personal in-tree climbing instruction. This class will focus on climbing skills and various ascension and positioning techniques meant to further your comfort within the canopy. Prerequisite: Students must have previously taken Introductory Tree Climbing for Women, or have a minimum of 30 hours of in-tree experience. (Students can register for both Intro. and Advanced courses in the same weekend.) Please wear appropriate clothing, including long sleeves, flexible and durable pants, and high ankle/light weight footwear. If you have regulation climbing gear including a rope, harness, hardhat with chin strap, and eye protection, please bring it. You may also want to bring gloves. **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. This course carries 6 CEUs for ISA certified arborists (S=0, P=6, M=0)**

Sunday, May 31 Register Now >

9 a.m.—4 p.m.

Raindate: Sunday, June 7

Fee: \$125 (includes lunch)

Mt. Airy Learning Tree

Mt. Airy Learning Tree proudly partners with Morris Arboretum in support of community learning for all ages.



Mt. Airy Learning Tree
6601 Greene Street
Philadelphia, PA 19119
215-843-6333

Explore our class offerings:
mtairylearningtree.org

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 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.

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.

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. There will be a \$5 processing fee associated with refunds. The Arboretum reserves the right to cancel any program if necessary. Refunds take approximately three to four 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.

Give the Gift of a Morris Arboretum Class!

Are you looking for a unique birthday or gift idea? Morris Arboretum now offers class gift certificates! For more information or to purchase, call (215) 247-5777, ext. 125.

registration form

Please make membership and course payments separately.

To register online, visit <https://online.morrisarboretum.org/classes>.

To register by mail, send this form along with check payable to the "Morris Arboretum" to:

Education Department
Morris Arboretum
100 East Northwestern Avenue
Philadelphia, PA 19118-2697



To register by phone, have your credit card ready.

Call the Education Dept. (215) 247-5777, ext. 125.

Payment Information

Name _____

Address

Phone

- Member Non-member
 My check or money order payable to the Morris Arboretum is enclosed

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Permit No. 1417



100 East Northwestern Avenue
Philadelphia, PA 19118

Look inside.....

Health and Wellness Classes at Morris Arboretum

Take time from your busy schedule for exercise in the garden. The beauty of the Morris Arboretum provides a perfect backdrop to relax, relieve stress, and get energized. Classes offered this spring include:

- Walking Mindfulness Meditation
- Yoga classes throughout the season for all levels
- Tai Chi - Beginner and Intermediate
- Make-Your-Own Tonic:
- Spring Cleaning for the Body
- Stroller Strides

Return Service Requested

Connect with us!



classes



The Morris Arboretum is proud to print on FSC® (Forest Stewardship Council®) certified paper, which supports the growth of responsible forest management worldwide through its international standards.