

Tyler Topics

Winter
2016-17



NEWS, PROGRAMS, AND EVENTS OF TYLER ARBORETUM

TylerArboretum

2
Executive
Director's
Message

3
Ice and Snow
Glaciers at
Tyler?

4
Taking Your
Turn with Tyler
Annual Fund Gifts

5
Winter
Events &
Programs

13
Lend-a-Hand

14
Membership
Matters

16
Life Under
the Snow

Executive Director's Message

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Winter at Tyler is our time to reflect on what we have accomplished during the year, as we plan for the next. We spent 2016 building the foundation for growth: Our renovated barn and terraces provide beautiful spaces for new programs, and allow us to extend our education impact from the 9,044 children we currently reach, to 15,000 over the next several years; the Stone House, renovated with the aid of dedicated volunteers, provides a new home for our Education and Public Programs staff, with ample room to grow; we upgraded our technology and systems; and we transitioned 7 part-time staff to full-time, for a total of 16, to better serve our mission, and each of you.

Many have asked me about the goats – were they successful at eradicating our invasive plants in the meadows? The goats have truly munched their way through the saplings, weeds, and vines in their paddocks – although from the evidence I'd say they're not partial to poison ivy because plenty



of that remains. Bread, however, is among their favorite foods! This summer, to move several goats to a new paddock, we gathered our summer campers, gave them each a

hunk of bread, and enticed the goats Pied Piper-like along the Scenic Loop. It was about as organized as you might imagine with 30+ campers from 5 – 8 years old,

leading frisky, bread-loving goats! We learned enough to continue our meadow management experiment next year with Cherry and Garcia, Ace, Fuzzy and Wuzzy, Cinnamon and Spice, and the rest of our friendly and lively goat herd. We'll have more to share on their impact with next spring's meadow growth.

For the summer of 2017 we are rolling out Phase One of an exciting program for high school students. With a mission focused on turning young people into the future champions of the natural world, Tyler will secure its position at the forefront of youth environmental education with a new teen leadership program focused on outdoor education, environmental stewardship and conservation. It is critically important to engage our youth at the time during their lives when they 'take stock' of the values they live by and the kind of world they want to be part of. Exploring alternative perspectives among peers, working hands-on in the environment, and learning to love and respect the natural world will provide the grounding in conservation that can guide them for the rest of their lives.

AND, we are planning a surprise for you next summer – so stay tuned....

We can only do these things with your ongoing support and generosity. I am so grateful for the wisdom, time and financial support of our Tyler community, that sustains this place we all love.

Welcome Maddison Paule



Maddison Paule discovered her passion for plants as a Biology major at Denison University. She followed her passion upon graduation, and came to Philadelphia – America's Garden Capital – on a two-year Hamilton fellowship at Jenkins Arboretum, where she gained experience in all aspects of Public Garden management. While she

loves horticulture and working with plants, she believed the best way for her to contribute to the success of our important horticultural institutions was through a career in fundraising and development. Maddison completed the course in the Fundamentals of Non-Profit Fundraising at Villanova University and gained experience on the Public Events Committee at Jenkins before completing her fellowship. We are delighted to welcome Maddison to our Tyler family as Development

Coordinator, where she works on all aspects of our outreach from events to membership.

Maddison sustains her passion for plants with a container garden at home. Maddison is an avid beekeeper and hopes to set up a hive at Tyler this spring! Her other loves include coffee, of which she is a connoisseur, long distance running, and quiet time in nature. You may find her reading in our hammocks among the maples during lunch!

Ice and Snow

Did Glaciers Shape Tyler's Landscape?

Dr. Laura Guertin, Professor of Earth Sciences at Penn State Brandywine

Throughout geologic time, glaciers have existed and behaved as rivers of ice, sculpting mountains and carving out valleys across our planet. Glaciers form from accumulation of snow that compresses into large, thick, masses of ice – as long as the summer warmth does not generate more melt or evaporation than accumulation. Glaciers occupy about 10 percent of the world's total land area and can be found on every continent except Australia. There are times in Earth's history when ice coverage was more significant, such as during Snowball Earth time (>650 million years ago), when scientists hypothesize that almost the entire planet from pole to pole was covered by glacial ice.

The Ice Age is the most recent glacial period of Earth's history. Between 110,000 and 12,000 years ago, global temperature cooled 9 degrees F and sea level dropped by as much as 400 feet. The weight of the thickened ice along with gravity is what carried the ice masses from higher to lower elevations and across the continents. Not only was there a major glacial advance from the high latitudes, but shorelines were extended much further out on the continental shelf (as much as 60 miles east of the modern-day coast of New Jersey). Ecosystems also were dramatically different. For example, the grasslands of North America were filled with roaming mammoth, mastodon, woolly rhinoceros, giant bison, camels, horses, and other large predators.

There is strong evidence of glaciation in northwest and northeast Pennsylvania,



Roughly 12,000 years ago, a wall of ice up to 3,000 feet dominated the landscape across Lehigh County around what is now Allentown and Bethlehem, PA.

with ice sheets 2,000-to-3,000 feet thick entering from two different directions. However, the Ice Age ice sheets did not reach us in southeast Pennsylvania. Delaware County rocks do not have evidence of glacial scouring, but if you could dive to the bottom of the Delaware River along the length of the Pennsylvania/New Jersey border, you will find sand and gravel outwash deposits from the melting glaciers. In places, these deposits are tens of feet thick.

The glaciers may not have reached Tyler Arboretum, but Tyler was very much a periglacial environment. The climate was much colder than today, and instead of being covered with ice sheets, the ground was covered in

permafrost. Large sections of bedrock and other boulders would have broken apart from a process known as frost riving, where alternate freezing and thawing cycles would have allowed liquid water to fill fractures in rock, then the frozen water would break the rock apart. Have you hiked down to Indian Rock and seen the large boulders in and along the stream? These blocks are pieces of the surrounding bedrock that most likely separated and moved downslope during these glacial periods.

Glaciers continue to flow and shape the landscape in many places today, just as they did back in the Ice Age and other geologic periods of Earth's cooler temperatures. And why should we care about glaciers? Geologists apply the Principle of Uniformitarianism, where "the present is the key to the past." By investigating modern-day glaciers and glacial environments, this helps Earth scientists understand Earth's glacial history and make important predictions for what will happen in the future as Earth's climate continues to change. Our planet is dynamic, and the glaciers will come again – it is not a matter of "if" but "when."

To learn more about the glacial history of Pennsylvania, please visit <http://www.dcnr.state.pa.us/topogeo/field/glacial/index.htm>

For the glacier map of Pennsylvania, go to: http://www.dcnr.state.pa.us/cs/groups/public/documents/document/dcnr_016200.pdf

Thank You for Taking Your Turn for Tyler

Your Annual Fund Gifts Are Giving Back to Gardens and Nature

Your gifts to Tyler's Annual Fund create opportunities for children and adults alike to explore the natural world through Tyler's gardens, woodlands, meadows, trails, and wildlife habitats. In 2015, your Annual Fund gifts reached a record total of \$197,306, up 22% from \$162,091 in 2014. We thank you all!

Your 2015 gifts created critical impact by:

Connecting

- Expanding our hours for visitors with "late night openings" on summer evenings
- Updating our trail map to enhance your Tyler hiking experience
- Adding on-line registration for Tyler's programs and events, giving 24/7 access
- Offering new purchase and donation options at the Visitor Center



With 17 miles of hiking trails, visitors hike on their own or join guided twilight or moonlight hikes or hikes featuring birds, wildflowers, trees, or rhododendrons.

Exploring

- Expanding Summer Camp by 12%, up to 560 campers this year, adding an extra week for Young Naturalists, for 11-13-year-olds, and a brand new camp week, Eco-Adventures, for 13-15-year-olds
- Supporting staff to help 9,044 children discover animals, natural habitats, and diverse ecosystems through school field trips, eco-birthday parties, scouting, and youth and family programs
- Creating the Hive Sponsorship Program, an apprenticeship for select members to expand our honeybee colonies



"I learned how plants grow and what seasons they grow."



- Developing a weekly garden volunteer program to care for our garden display beds
- Continuing to support volunteers who give their time individually and in groups – 262 volunteers gave 11,029 hours, valued at over \$250,000 and equal to 5 ½ full-time staff members

Growing

- Expanding staffing by transitioning staff positions to full-time in Public Programs, Visitor Services, Horticulture, Communications, and Development
- Renovating the Stone House to house our Public Programs staff who are working to expand our excellent environmental education opportunities

Annual Fund: Your Giving Impact

- Caring for our plant collections, natural lands, gardens and historic family homestead
- Teaching visitors about trees, plants, ecosystems, and the animals that inhabit them
- Delighting visitors and members with Tyler's nature experiences, tree houses, and seasonal festivals

We're reaching for \$210,000 for the 2016 Annual Fund.

Take your turn for Tyler with your gift by December 31st to protect and share gardens and nature with our community!

Give online at www.tylerarboretum.org/giving or mail your check in the enclosed Tyler envelope. With questions, please call Maddison Paule at 610-566-9134, ext. 209.

Tyler Events

Winter
2016–17

The Country Gardeners Annual Greens Sale

Saturday, December 3, 9:30 a.m. – 1:30 p.m.

Enjoy a huge selection of beautiful holiday arrangements and trimmings: fresh greens, hand-made wreaths, swags, ornaments, and other natural holiday decorations. The Country Gardeners Annual Greens Sale is held at Tyler's Maintenance Building and run by The Country Gardeners of Lima.

No admission charge to attend the sale.



Pancake Breakfast and Maple Sugaring Celebration

Saturday, February 25, 8 a.m. – 1 p.m.

Snow date: Saturday, March 4

The spirit of winter is alive and well at Tyler as we invite you to bundle up and join us in celebrating with some outdoor fun. Walk through our maple sugaring stations to explore how the tasty topping is turned from sap into syrup. The festivities don't stop there! Satisfy your appetite with our famous all-you-can-eat pancake and sausage breakfast. Rain or shine event, snow date March 4.

Adults \$12, Children (ages 3-12) \$8, Under 3 FREE

New! Purchase your Pancake Breakfast tickets ahead of time – online sales open February 1. Save yourself time the day of the event! Pre-registration not required; tickets will be available for purchase through the Visitor Center at the event.



Tyler Travels

Birding Trip: Barnegat Light

Tuesday, January 10, 7 a.m. – 5 p.m.

Located on the northern tip of Long Beach Island, New Jersey, this state park is a great location for wintering waterfowl such as red-breasted mergansers, common eiders and harlequin ducks, as well as shorebirds and other winter inhabitants.

Join **Sue Lucas** to search along the shore and jetty on this interesting birding adventure. *Transportation, drinks, and snacks provided; bring a bag lunch, binoculars and field guides. Dress for the weather. Hiking shoes are strongly recommended for rocky areas.*

\$60 members, \$75 non-members

Birding Trip: Cape Henlopen

Tuesday, February 21, 7 a.m. – 7 p.m.

Cape Henlopen and the Indian River Inlet offer wonderful winter birding opportunities. Join **Sue Lucas** in search of short-eared owls, long-tailed ducks, horned larks, snow buntings, purple sandpipers, and harlequin ducks.

Transportation, drinks, snacks, and dinner provided; bring a bag lunch, binoculars and field guides. Dress for the weather.

\$85 members, \$95 non-members



Tyler Programs

Gardening and Horticulture

Winter Tree Identification Workshop

FREE FOR MEMBERS!

Saturday, January 21, 1:30 – 3 p.m.

(Inclement weather date: Sunday, January 22)

Join **John Wenderoth** and learn how to identify trees in the winter season using a hand lens to examine the details of leafless twigs. You will also practice using decision-making keys that allow you to identify a tree through a series of questions. These keys are ideal for winter identification after the leaves have fallen, but they also reveal characteristics that aid in identification year-round. This class takes place primarily indoors. Weather permitting, we will move outside to study other features of trees in winter.

FREE with admission. Space is limited!

Developmental Pruning for Young and Small Trees

Saturday, January 28, 1:30 – 3 p.m.

An ideal time to prune young and newly planted trees is during the dormant winter season. Join **Jerry O'Dell**, Tyler's Wister Rhododendron gardener and an ISA Certified Arborist, for this practical workshop that includes theory and hands-on practice to create a specimen tree that will give you years of beauty and shade. Topics include an overview of basic growth habits of trees, assessing the tree structure, and making proper pruning cuts. The primary focus is on deciduous trees but includes brief tips on caring for conifers. *Part of this class is held outdoors – please dress for the weather and bring hand pruners.*

\$20 members, \$25 non-members

Native Plants for Pollinators

Saturday, February 4, 1 – 2:30 p.m.

Join garden coach **Marcia Tate** and discover the buzz about pollinators, why they are beneficial to our gardens, and what you can do to support them in your garden. Learn which low-maintenance native plants are best suited for pollinators in your garden. Explore design ideas with a case study highlighting the transformation from weeds and grass to a beautiful, sustainable garden for pollinators. Come “bee” inspired for spring.

\$30 members, \$35 non-members



Seed Starting for Beginners

Saturday, February 18, 10 a.m. – noon

February might seem early to start thinking about your garden, but it's the perfect time to start seeds indoors. Instructor **Karl Malessa** teaches basic seed starting techniques and introduces you to essential equipment for the process, including heat mats, humidity domes, and fluorescent lamps. Karl also explains which seeds are easiest for beginners to grow and will show flats of his own started seeds.

\$20 members, \$25 non-members

Botanical Arts

Holiday Wreath Workshop

Sunday, December 4, 1 – 3 p.m.

Add creative natural beauty to your holidays this year by making your own holiday wreath. Instructor **Leona Swiacki** guides you through

the process of creating a wreath using evergreens accented with pinecones, berries, and other natural elements. Enjoy your festive creation during the holidays and into the new year. *Please wear work clothes and bring garden shears and light work gloves. All materials provided.*

\$45 members, \$50 non-members



Fresh to Dry Christmas Trees

Saturday, December 10, 10 a.m. – noon

Looking for something unique to make for your holiday decorations? Join instructor **Leona Swiacki** to create your own set of Christmas trees using Styrofoam forms, fresh leaves, pins, and other accents. After the holidays, each tree can be stored and enjoyed for years to come.

\$35 members, \$40 non-members

The Art of Quilling: Snowflakes

Saturday, January 21, 10 a.m. – noon

Discover the lost art of quilling with instructor **Leona Swiacki**. Using paper strips, a quilling tool, and simple directions, learn to roll and shape paper with basic quilling techniques. Add your own creativity and design beautiful snowflakes and stars to accent your winter decor. *Please bring scissors.*

\$25 members, \$30 non-members

Drawing for Botanical Art

Thursdays, February 2, 9 and 16,
10 a.m. – 2 p.m.

Join botanical illustrator **Linda Kneeland** for a 3-week series learning the basics of drawing for botanical art.

Learn how perspective, atmosphere, and toning give life and dimension to your artwork.

All levels are welcome and no previous experience is needed. *Plant material included; a basic supply list will be sent to everyone registered for the class. Feel free to bring a bag lunch.*

Series of three classes: \$145 members, \$160 non-members



Photo Walk: Finding Beauty in the Winter Garden

Saturday, February 18, 1 – 3:30 p.m.
(Inclement weather date: Saturday, March 4)

Let it snow, let it snow, let it snow. But even if it doesn't, we'll still find intriguing subject matter to capture on this leisurely winter photo walk. Join **Chris Lawler** and explore Tyler's meadows and woodlands on a quest for beauty - bark textures, unexpected pops of color, and the gentle nuances of winter light and shadows. Afterwards, gather indoors for warm refreshments and review the day's work. *Please dress for the weather. Perfect for all levels of photographers and camera users (including cell phones).*

\$10 members, \$15 non-members

Nature Studies

Winter Night Hikes

Saturdays, January 14 and February 11,
6 – 7:30 p.m.

With the leaves off many of the trees, winter offers the best views of the Arboretum. Join **Dick Cloud** for a fast-paced hike that includes moderate to steep trails. This is a perfect opportunity for hikers who hate being trapped inside during the winter. *Suitable for teens and adults. Please bring a flashlight and wear appropriate footwear.*



\$10 members, \$15 non-members

Nature Walks and Workshops

FREE for Members; FREE with admission

Winter Bird Walks

Every Wednesday, 8:15 – 10:15 a.m.

Tyler is a wonderful winter haven for non-migratory birds. Explore Tyler's winter landscapes with experienced birders who know all the best places to look. Birders of all experience levels welcome. *Bring bird guides and binoculars if you have them.*

No pre-registration required



Winter Botany Walks

Every Wednesday, 11:15 a.m. – 1:15 p.m.

Tyler is the perfect place to beat the winter blues. There's always something to see here and **Richard Brenner** and **Dick Cloud** are the perfect guides to winter's natural wonders. Learn to recognize plants in their seasonal guise using seed stalks, leaf rosettes, and other clues, and explore Tyler's ever-changing seasonal beauty.

No pre-registration required

Sunday Botany Walks

Sundays, December 11, January 8 and February 12, 1:30 – 3:30 p.m.

There's plenty to see at Tyler, even in the winter. Join **Dick Cloud** for an afternoon walk, and search Tyler's meadows and woodlands for winter beauty.

No pre-registration required

Christmas Bird Count

Saturday, December 17, 5:30 a.m. – noon

Each year between mid-December and early January, thousands of volunteers in North and South America collect data on bird sightings. Tyler invites you to be a part of the tradition. Data gathered during the count is used to assess the health of bird populations and guide conservation action. Join Tyler's experienced birders to search for owls and other nocturnal and dawn birds. After breakfast at a nearby restaurant (on your own), venture out again to look for both common and unusual birds.

Pre-registration required

Beekeeping at Tyler Arboretum

Saturday, February 4, 10 – 11:30 a.m.
(Inclement weather date: Saturday, February 11)

Join Tyler's beekeeper **Paul Strommer** to discover the Arboretum's growing apiary and opportunities to get involved. This program covers beekeeping basics, including necessary equipment and hive management. Learn all about the Arboretum's Hive Sponsorship Program, exclusive for Tyler members and perfect for beginner beekeepers. Turn your interest in honeybees into reality with expert seasonal instruction.



Pre-registration required

Health and Wellness

Winter Medicinal Meanderings Series

Saturdays, January 14, February 11 and March 11, 1 – 3 p.m.

Join **Katelyn Melvin** of *Tooth of the Lion Farm and Apothecary* to investigate winter botany and herbal medicine. The class is in two parts: part one is a medicinal plant walk highlighting aspects of winter plant identification, as well as herbal medicine connections. Part two focuses on medicine-making demonstrations indoors including teas, salves, or tinctures. Each demonstration uses at least one of the plants discussed during the walk. You'll go home with a product sample and the know-how

to make your own kitchen medicine. Please dress for the weather and wear appropriate footwear.

January 14: Herbs and Medicinal Teas

Discover how to identify herbaceous plants in dormancy, as well as their medicinal qualities. Warm up with hot tea and learn about making medicinal teas, herbal tea blending, infusions, and decoctions.



February 11: Deciduous Trees and Medicinal Salves

Focus on the winter identification of medicinal woody plants. Explore using bark, resin, and other plant parts in topical preparations. You will create a medicinal salve from herbs, oil, and beeswax.

March 11: Conifers and Herbal Tincture Making

Investigate the identification of various conifers, as well as their medicinal uses. Learn how to make herbal tinctures, syrups, elixirs, scrubs, vinegars, and more.

Series of three classes: \$65 members, \$80 non-members; Individual class: \$25 members, \$30 non-members

Youth Programs

Toddlers in Nature

Ages 18 mths - 3 years

Wednesdays, 10 – 11 a.m.

Toddlers in Nature programs are for toddlers and their favorite adult. Toddlers are all about exploring their sense of wonder and each program includes a story, exploration, and time in nature.

\$10 members, \$15 non-members
(Fee is for the child only)

Ellie the Evergreen

December 7

Ellie the evergreen tree is sad in the fall when all of the other trees change color, but in winter, she becomes the most beautiful tree in the park. Find out what makes Christmas trees so special and take a hike to see different kinds of evergreens.

First Snow in the Woods

December 14

The animals of the forest are getting ready for the year's first winter storm. Enjoy the wildlife and a walk around outside to search for signs of winter.

Wild Birds

January 4

Many birds do not fly south for the winter, but stay right here, just like we

do. Learn about them in this beautifully illustrated book before heading out to see which ones we can spot.

Tracks in the Snow

January 18

Signs of wildlife can sometimes be easier to see in winter. Follow the adventure of one little girl, then head outside to look for tracks and other signs of animal activity.



NEW!

Featured Series: Nature Celebrations Around the World

All ages

Wednesdays, 10 – 11:30 a.m.

In this series, every class is a party celebrating nature. We'll learn a bit about how the natural world has inspired each holiday, including the food, crafts, games, and customs that make them fun.

Series of four classes: \$50 members, \$70 non-members;
Individual Class: \$15 members, \$20 non-members (Fee is for the child only)

Winter Solstice

December 21

Today is the darkest day of the year, so we'll celebrate the return of the light.

Lohri

January 11

In India, this celebration marks the peak of winter and the annual sugarcane harvest.

Lunar New Year

January 25

Find out why the Chinese celebrate New Year at a different time than we do in the west, and learn why 2017 is the year of the rooster.

Tu B'Shevat

February 8

Jews around the world celebrate this "New Year of the Trees." Come and learn why, what, and how.

Winter Lullaby

February 1

Where do animals go when the weather turns cold? This story explains how different types of creatures seek shelter to survive the winter. Visit Mr. Groundhog's home and guess if he will come out of hibernation early.

I Am a Little Deer

February 15

A young deer describes his life with his mother, from his first wobbly steps, through joining the herd, to beginning to grow antlers. Look at deer fur, bones, and antlers to learn more about these lovely creatures.

Teeny Tiny Trackers

Age 3

Mondays, 10 – 11 a.m.

Teeny Tiny Trackers programs are for 3-year-olds and their favorite adult. Each program includes an indoor lesson with outside time to explore.

*\$10 members, \$15 non-members
(Fee is for the child only)*

Our Winter Birds

December 12

Learn why certain birds stay here, while others migrate or arrive only for the winter. Use binoculars to look for our feathered friends and learn how we can help them during the cold weather.



Winter Seeds

January 9

Many trees and plants still hold their seeds in winter. Let's search and collect some and learn which animals might need them to survive.

Footprints in the Snow

February 13

Even if we don't have snow, we can still look for tracks and traces that our resident critters leave for us, and find out which animals live in Tyler Arboretum.

Garden Sprouts

Ages 4 – 6

Tuesdays, 1 – 2:30 p.m.

Garden Sprouts programs introduce children and their favorite adult to the world of plants and gardening. Each program includes an indoor lesson and an outdoor walk to complement hands-on fun with plants.

*\$10 members, \$15 non-members
(Fee is for the child only)*

Fun with Evergreens

December 13

Romp around the Arboretum and search for pinecones, nuts, and berries. Talk about the trees that make these plant parts and study them with a magnifying glass. Make a glittery snow globe with your treasures to take home.

Fun with Cauliflower

January 17

The middle of winter can seem like a sad time for vegetables, but did you know that cauliflower is one of the most nutritious vegetables you can eat? Learn about this "flower" and make some tasty cauliflower "fried rice."

Fun with Maples

February 21

Bundle up and explore the beautiful winter landscape at Tyler. Learn how to identify a maple tree and play "I Spy a Maple Tree." Tap a tree and talk about how real maple syrup and maple candy are made, and sample some.



Tiny Trackers

Ages 4 – 6

Thursdays, 1 – 2:30 p.m.

Tiny Trackers programs are for children and their favorite adult. Each program includes a lesson and an outdoor activity.

*\$10 members, \$15 non-members
(Fee is for the child only)*

Skeleton Skills

December 15

How many of our skulls and skins can you identify? Compare examples from our collection and learn why these animals look the way they do.

Oh, Deer!

January 26

Did you know the white-tailed deer is the Pennsylvania state animal? White-tailed deer live outside all year long, even in the cold of winter. Discover what makes these animals such great survivors.

For the Love of Birds

February 9

We'll make fun, edible Valentines for our feathered friends and learn what makes birds so special.

Teen Programs

NEW!

Teens Only Camp In

Saturday, February 18, 4:30 p.m. – Sunday, February 19, 10:30 a.m.

Stay overnight at the Arboretum without your parents! Pitch your tent in the newly renovated Barn Loft and camp "in." Explore Tyler at night with an evening hike. Bring your own camping gear. *Please consider the limited indoor Barn space and bring self-supporting tents appropriate for your number of guests. Cabin tents cannot be accommodated. Dinner and breakfast will be provided. Suitable for ages 14-17.*

\$65 members, \$75 non-members

Teen Winter Adventure

Wednesday, December 28, 9 a.m. – 3 p.m.

Reconnect with friends during your day off of school. Take a hike in the natural lands and explore the quiet woods of Tyler in the winter season. Learn important winter woodsmanship skills. *Please pack a lunch. Suitable for ages 14-17.*

\$50 members, \$60 non-members



Family Programs

Grab the kids and come have fun all together at Tyler! Interactive programs let you learn, create, or explore nature and plants. Fee is for each child and each adult.

Gulliver's Giant Games

Saturday, December 10, 6:30 – 8 p.m.

Supersize family game night with our selection of giant games. Play our large-scale, lawn games inside the newly renovated Barn Loft. Get ready for Giant Jenga, Giant Checkers, and Giant Kerplunk! Refreshments will be served. *Suitable for ages 4 and up.*

\$10 members, \$15 non-members

Winter Night Hike

Friday, January 13, 6:30 – 8 p.m.

Hiking under a winter full moon is a magical experience. Learn which animals and birds may be out at night

and look to see if we can spot them. The evening concludes with hot drinks and a snack. Dress warmly and bring a flashlight. *Suitable for ages 5 and up.*

\$10 members, \$15 non-members

Indoor Camp Out

Saturday, January 21, 4:30 p.m. – Sunday, January 22, 10:30 a.m.

Stay overnight at the Arboretum! Pitch your tent in the newly renovated Barn Loft and camp "in." Cook hot dogs and s'mores over a campfire and explore Tyler at night with an evening hike. Bring your own camping gear. Dinner and breakfast will be provided. *Please consider the limited indoor Barn space and bring self-supporting tents appropriate for your number of guests. Cabin tents cannot be accommodated. Suitable for ages 5 and up.*

\$40 members, \$50 non-members

Dads & Daughters Hot Chocolate & Hike

FREE FOR MEMBERS!

Saturday, February 11, 10 – 11:30 a.m.

Young ladies bring your favorite dad, uncle, or friend to this wintry Arboretum adventure. Investigate the different ways animals survive the winter. Learn which clues tell us which animals are still around and what they are doing. Head outside to look for animals at Tyler. Afterwards, warm up with hot chocolate and a special treat. *Suitable for ages 5 and up.*

FREE for members, \$15 non-members



School Day-off Camps

A day of nature exploration and fun is the perfect solution when your child has a day off and you have to work. These easygoing days are filled with discovery, games, crafts, hikes, and projects so engaging the kids won't even know they're learning. Please pack a lunch.

Camps run from 9 a.m. – 3 p.m. \$50 members, \$60 non-members.

Ages 6 – 9

Winter Wonderland

December 28

Explore Tyler's winter wonderland. Learn how plants and animals have adapted to survive long periods of cold temperatures. Examine our evergreen collections and find natural objects to create your own masterpiece.

Art in the Arb

December 29

Use nature as your inspiration for you artistic creations. Spend the day painting, sculpting, and creating works of art to take home.

Skins & Skulls

January 16

See skins, skulls, and specimens. Explore and feel real specimens from the wildlife that live at Tyler and in your own backyard, and learn how they survive in the wild.

Animals in Winter

February 20

Learn about animal adaptations and how they survive the cold. Search for animal hideaways and tracks and spend time participating in the Great Backyard Bird Count!



Ages 14 – 17

Teen Winter Adventure

December 28

Reconnect with friends during your day off of school. Take a hike in the natural lands and explore the quiet woods of Tyler in the winter season. Learn important winter woodsmanship skills.

Tyler

Calendar of Programs & Events

Winter
2016–17

These walks are
ALWAYS FREE
FOR MEMBERS!

Winter Bird Walks* Every Wednesday, 8:15 – 10:15 a.m.

Winter Botany Walks* Every Wednesday, 11:15 a.m. – 1:15 p.m.

Sunday Botany Walks* Dec. 11, Jan. 8 and Feb. 12, 1:30 – 3:30 p.m.

Programs marked with asterisk* are FREE for Tyler Members

December

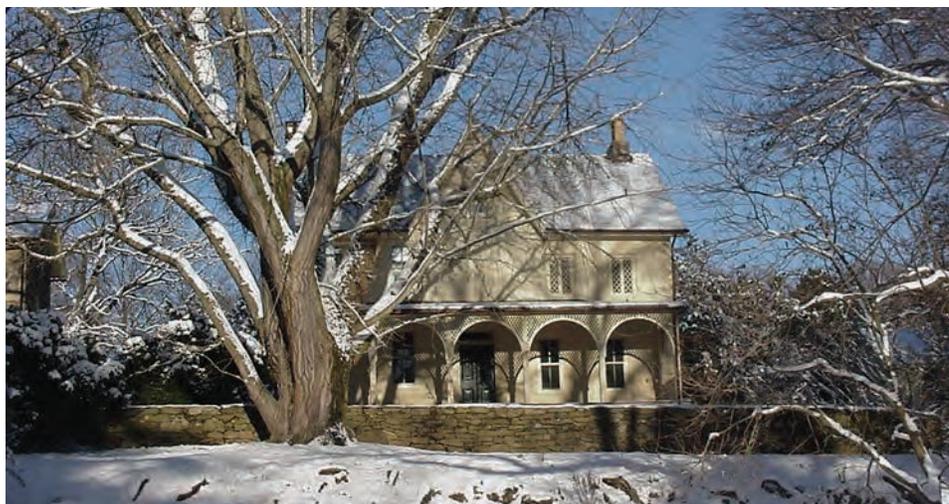
- Sat. Dec. 3 The Country Gardeners Greens Sale
- Sun. Dec. 4 Holiday Wreath Workshop
- Wed. Dec. 7 Toddlers in Nature: *Ellie the Evergreen*
- Sat. Dec. 10 Fresh to Dry Christmas Trees
- Sat. Dec. 10 Family Program: Gulliver's Giant Games
- Sun. Dec. 11 Sunday Botany Walk*
- Mon. Dec. 12 Teeny Tiny Trackers: Our Winter Birds
- Tues. Dec. 13 Garden Sprouts: Fun with Evergreens
- Wed. Dec. 14 Toddlers in Nature: *First Snow in the Woods*
- Thurs. Dec. 15 Tiny Trackers: Skeleton Skills
- Sat. Dec. 17 Christmas Bird Count*
- Wed. Dec. 21 Nature Celebrations Around the World: Winter Solstice
- Wed. Dec. 28 Teen Winter Adventure
- Wed. Dec. 28 School Day-Off Camp: Winter Wonderland
- Thurs. Dec. 29 School Day-Off Camp: Art in the Arb

January

- Wed. Jan. 4 Toddlers in Nature: *Wild Birds*
- Sun. Jan. 8 Sunday Botany Walk*
- Mon. Jan. 9 Teeny Tiny Trackers: Winter Seeds
- Tues. Jan. 10 Birding Trip: Barnegat Light
- Wed. Jan. 11 Nature Celebrations Around the World: Lohri
- Fri. Jan. 13 Family Program: Winter Night Hike
- Sat. Jan. 14 Winter Medicinal Meanderings: Herbs and Medicinal Teas
- Sat. Jan. 14 Winter Night Hike
- Mon. Jan. 16 School Day-Off Camp: Skins & Skulls
- Tues. Jan. 17 Garden Sprouts: Fun with Cauliflower
- Wed. Jan. 18 Toddlers in Nature: *Tracks in the Snow*
- Sat. Jan. 21 The Art of Quilling: Snowflakes
- Sat. Jan. 21 Winter Tree Identification Workshop*
- Sat. Jan. 21 Family Program: Indoor Camp Out
- Wed. Jan. 25 Nature Celebrations Around the World: Lunar New Year
- Thurs. Jan. 26 Tiny Trackers: Oh, Deer!
- Sat. Jan. 28 Developmental Pruning for Young and Small Trees

February

- Wed. Feb. 1 Toddlers in Nature: *Winter Lullaby*
- Thurs. Feb. 2 Drawing for Botanical Art Series
- Sat. Feb. 4 Beekeeping at Tyler Arboretum*
- Sat. Feb. 4 Native Plants for Pollinators
- Wed. Feb. 8 Nature Celebrations Around the World: Tu B'Shevat
- Thurs. Feb. 9 Drawing for Botanical Art Series
- Thurs. Feb. 9 Tiny Trackers: For the Love of Birds
- Sat. Feb. 11 Family Program: Dads & Daughters Hot Chocolate & Hike*
- Sat. Feb. 11 Winter Medicinal Meanderings: Deciduous Trees and Medicinal Salves
- Sat. Feb. 11 Winter Night Hike
- Sun. Feb. 12 Sunday Botany Walk*
- Mon. Feb. 13 Teeny Tiny Trackers: Footprints in the Snow
- Wed. Feb. 15 Toddlers in Nature: *I Am a Little Deer*
- Thurs. Feb. 16 Drawing for Botanical Art Series
- Sat. Feb. 18 Seed Starting for Beginners
- Sat. Feb. 18 Photo Walk: Finding Beauty in the Winter Garden
- Sat. Feb. 18 Teens Only Camp In
- Mon. Feb. 20 School Day-Off Camp: Animals in Winter
- Tues. Feb. 21 Birding Trip: Cape Henlopen
- Tues. Feb. 21 Garden Sprouts: Fun with Maples
- Sat. Feb. 25 Pancake Breakfast and Maple Sugaring Celebration (Snow date March 4)



Register online via our Calendar page: www.tylerarboretum.org/calendar
or call Joanne Landau at 610-566-9134, or e-mail: jlandau@tylerarboretum.org.

MEET LEARN ENJOY HELP *LEND-A-HAND*

At Tyler, volunteers take part in fun opportunities, hone existing skills, and teach others while making a lasting, memorable impact on our day-to-day operations. Get involved as part of the Tyler community today. To learn more, contact Julia Lo Ehrhardt, Community Outreach Manager, at jlo@tylerarboretum.org or 610-566-9134. Fill out our online application form at www.tylerarboretum.org/volunteer.

TYLER VOLUNTEERS WHO ENGAGE PEOPLE WITH BIRDS

Suzanne Clauser, Tom Reeves, and Susan Lucas are Tyler's birding experts. Between them, they've volunteered at Tyler for 58 years. Asked why they volunteer, they speak of their passion for giving back and their love of ecology. Our three volunteers engage visitors through tours, programs and mentorships.

Suzanne Clauser manages Tyler's Bluebird Monitoring program which was started by Bob Bodine in 1970. The program is the oldest volunteer program at Tyler.

When asked how she started birding, Suzanne says she's not a birder. "Birders look for many different birds, I like to study bluebirds. I get excited seeing bluebirds hatch." She says she's stunned that a just-hatched baby bluebird can fit on your thumbnail.

Suzanne and her group manage and record the bluebird nesting boxes you've seen in our meadows. Tasks vary from counting eggs and baby birds, to greasing the poles of bird boxes to deter snakes. Eighty-eight baby bluebirds survived the Summer of 2016: the second highest number on record.

Do you know what a sparkle bird is? It has nothing to do with Christmas tree ornaments or school crafts. It's the bird that sparks your interest in finding out more about birds. For Sue Lucas, that bird was the goldfinch. For Tom Reeves, it was the cedar waxwing and for Suzanne Clauser,



Sue Lucas checking one of Tyler's many bird boxes.

the bluebird. When a sparkle bird captures your interest, all you need to help you understand birds is a guide or mentor. When you have this, you become a lifelong birder.

Tom Reeves and Sue Lucas are Tyler's volunteer bird walk leaders. Tom started birding when he was a 4th grader under the tutelage of a teacher. He started coming to Tyler 50 years ago when he was in high school. At that point, Tyler was not as organized. "Groups of people would come and sometime, I would tour them around," Tom reminisces. When Tom retired, he became a regular on the bird walks and began organizing tours. Twenty-three years later, Tom still leads groups, and on occasion, he speaks at schools. Tom has a knack for connecting people with nature through stories. "Tom takes the time to teach bird sounds, appearances, and flight patterns. He makes everything sink in," says Sue Lucas, Tom's protégé. For Tom, it is about helping people connect with nature in hopes that they will understand it and save it. "We serve more people by

introducing them to the great outdoors so that they care about it. Everyone should know what is around them whether trees, plants or birds. Start with learning what is around you and you will learn what and how it will affect you. In the end, you can start to save it." This is what conservation is about.

"Tyler's rich ecosystems make it a wonderful place to see birds" says Sue. Sue joined Tyler in 1989, but didn't start birding until 2002 when she decided to join in on the bird walks. Since then, she has been out every week to bird – learning from Tom. It was on these walks that Sue realized her calling: engaging people with nature. Not long after, Sue became a part-time member of Tyler's Youth Education team. Her gentle approach with its sense of wonder has made her an effective instructor. Sue loves sharing bird stories, resources, and techniques. Sue loves passing her love of nature to the next generation, much like the way Tom mentored her. Tom's lifelong love for nature lit the flame for Sue. Today, she passes this flame to visitors of all ages.

We're lucky to have people like Suzanne, Tom, and Sue who are willing to give their time and expertise. If you want to join the **Bird Walks, visit us on Wednesdays from 8:15 to 10:15 a.m.** To volunteer, contact Julia Lo Ehrhardt at jlo@tylerarboretum.org. The program starts again in the Spring of 2017.

Membership Matters

Share Your Love of Nature this Holiday Season



Who in your life enjoys nature? A membership to Tyler Arboretum is the perfect gift for them. They'll be thrilled with their year of unlimited free visits and you'll have the pleasure of knowing your gift shares and protects nature. Our Family & Friends membership covers a whole household, plus two additional guests! It's great for holiday trips to Tyler. How many gift memberships will you give this year? Order online at tylerarboretum.org/membership or call Maddison Paule at 610-566-9134, ext. 209.



MEMBERSHIP LEVELS

Individual \$60

Dual \$65

Household \$75

Family & Friends \$120

Steward \$150

Circle of Friends \$300

Welcome to These New & Renewing Members

June 24 – September 8, 2016

Circle of Friends Members join at the \$300 level or higher to support Tyler and to help others discover a love of nature in our treasured woodlands, wetlands, meadows, and gardens.

Michael & Carol Albert
Cricket & Rex Brien
John & Patty Colburn
Sabine & Charles Cranmer

Ted & Kathy Erickson
Barry Kenneally & Maureen Cassin
Bob Kunz & Annette Richter

Robin & Jonathan Moll
Richard Scheff & Natalie Ramsey
Bill Thomas

Steward Members join at the \$150 level to foster a deeper connection with Tyler and beyond, with the advantage of free reciprocal admission to over 800 museums across North America.

Carrie & Nathan Barcomb
Marcella Barnhart & David Knoblock
Bob Basco
Tiffany Bracken
Aldys C. Davis
Vincent & Karen Deery
Paula DeLucco
Kimberly & Craig Dizengoff
Barry & Nancy Green

Howard & Sara Harris
Diana Hearn & Georgia Sotiropoulos
James & Mary Hunt
Erin & Gregory Jacobs
Susan Klein & Phillip Embrescia
Robert Kline & Renee Balthrop
Jacey & Ted Lucas
Charles & Terry Lytle
Joseph & Cathleen Ovchar

Edward & Nicole Pfaff
Andrew & Jennifer Potts
Herb Rosenblatt &
Harriet Schultz-Rosenblatt
Deborah Sax & Richard Kunkle
Elliot & Rachel Simko
Lindsay Sortor & Ryan Crow
Lisa & Greg Traceski
Jin Zhao

To join at the Circle of Friends or Steward level, please contact Caitlin Anello, Membership and Annual Giving Manager, at 610-566-9134, ext. 208.

Your Tyler, Your Turn

How will you give back to gardens and nature?

I want to be remembered for:

- ✓ Teaching children the wonder of nature
- ✓ Protecting historic trees and a Quaker family homestead
- ✓ Inspiring others to save our natural spaces, at Tyler and beyond
- ✓ Leaving a path through the woods for our children to follow

We invite you to designate Tyler in your will to:

- ✓ Ensure that this special place that you care about is provided for in the future
- ✓ Make a significant gift without affecting your current income
- ✓ Receive a charitable tax deduction
- ✓ Excite today's youngsters to protect the living world around us



Tyler's Sequoia Society for Estate Giving

To designate Tyler Arboretum in your will or for other estate giving options, please call Mary Beth Jackson, Director of Development, at 610-566-9134 ext. 206 or email mjackson@tylerarboretum.org

Join Tyler's Sequoia Society for Estate Giving Donors today!
Visit us online at: tylerarboretum.org/support-2/planned-giving/

Many Thanks to our Generous Friends, Sponsors & Donors

June 24 – September 8, 2016

\$4,000 – \$5,000

Anonymous
Eric Chapman
Richardson McKinney
Heather Saunders

\$2,000 – \$3,000

Cricket & Rex Brien
The Country Gardeners of Lima
John & Margaret Ewing
Sandy & Bruce Lutz

\$1,000 – \$1,999

Bill & Gail Burk
Exelon Power
Voya Foundation

\$500 – \$999

Jon Bauer
Iron Hill Brewery & Restaurant - Media
John & Fay Snyder
Bill Thomas

\$250 – \$499

Terry & Kathy Adamson
Larry & Joyce DeYoung
Sylvia & Charlotte Eccel
Ann Gill
Bob Hendricks
Redbud Native Plant Nursery
Walter & Bonnie Senkow

*Our recognition lists are accurate to the best of our knowledge for gifts in this timeframe.
If you note any errors, please let us know so that we may correct them promptly. Thank you.*

Life Under the Snow

Maddison Paule, Development Coordinator

The white blanket of snow that begins to cover the meadows and woodland paths of Tyler during the bitter cold months is more than just a beautiful dusting on the landscape. It protects plants and animals by providing a layer of insulation that regulates temperature and acts as structure for their homes. Without a thick layer of snow, the plants and soil are subject to harsh winds, accentuating the effects of winter. The blanket of snow can insulate the ground well enough to keep it from freezing completely, allowing small animals to tunnel their way through the earth and snow.

The intensity of our winters vary, but the USDA's hardiness zone map is a useful tool for figuring out if a plant can stand the test of winter in your garden. Tyler Arboretum is located in zone 6B. When planting, it's best to pick a plant that can survive in your hardiness zone. Plants that are native to your region have a better chance of surviving winter in the garden.



Bird tracks in the snow.

Snow cover helps new plantings by preventing repeated freezing and thawing that could lead to frost heaving, which occurs when a plant gets squeezed out of the ground after a series of stark changes in temperature. At the end of winter, the rush of the snow melt infuses fresh water to the plants as they begin their springtime growth.

Animals also benefit from a beautiful blanket of snow. The small rodents, mainly mice and voles, create tunnels and homes through the soil and snow. They forage for plant material such as

bulbs, seeds, and bark to eat and store in their igloo homes for the winter season so long as they have a thick blanket of snow.

As you stroll past the pond, remember that life continues under the ice as well. The top of the pond may freeze over, but not the warmer water at the muddy bottom. Many frogs and newts hibernate in the mud and detritus, allowing oxygen to pass through their skin from the water. Some newts may even stay active under the frozen surface.

Other amphibians, like wood frogs or turtles, bury themselves in the leaf litter, soil, or old logs to hibernate for the season. Inconsistent temperatures cause frogs to go through freezing and thawing cycles, which is tough on their metabolism and impacts their reproductive abilities in the spring. Therefore the snow cover is a welcomed blanket of comfort.

As you stroll through Tyler these wintry months, try and picture the life under the snow. Take time to look closely to see what signs of life you can find and appreciate the beautiful snow covered landscape.

TYLER ARBORETUM MISSION: To preserve, develop and share our diverse horticultural, historic and natural site resources to inform and inspire stewardship of our living world.

Hours

March – October
Mon – Fri 9 a.m. – 5 p.m.
Sat & Sun 9 a.m. – 6 p.m.

November – February*
Mon – Fri 9 a.m. – 4 p.m.
Sat & Sun 9 a.m. – 5 p.m.

*Closed on Thanksgiving, Christmas Eve & Day

Information: 610-566-9134 • www.TylerArboretum.org • info@tylerarboretum.org

Admission

Adults \$11
Seniors (65+) \$9
Children (Ages 3-15) \$7
Children under age 3 Free