



TWINLEAF NEWSLETTER

FALL 2018 | VOLUME 25, ISSUE 3



Summer Interns Enhance Their Knowledge and Teach Others

KIRA BOTELHO

School: Lafayette College
Major: Environmental Studies & Government and Law

Passionate about improving the environment, Kira Botelho, our education intern funded by Foundations Community Partnership, strongly believes that starts with education. "I love that the Preserve encourages lifelong learning. There is always something new for anyone, regardless of their level of environmental knowledge, to learn here." During her summer as a Preserve intern, Kira assisted with programs for various age groups and helped in the Native Plant Nursery.

In collaboration with the entire Preserve staff, Kira's goal supported and enhanced the programming offered at the Preserve. One of her larger projects included the creation of a Kid's Guide to Penn's Woods, which features a stroller- and wheelchair-friendly trail. Along the trail explorers discover different trees that are marked with informative flags about each species. "At each stop, kids can make a leaf rubbing on their Penn's Woods Tree Passport. The goal is to make tree identification more fun and engaging for kids," explains Kira, who also created the Children's Play Center in the Visitor's Center, which offers fun, seasonally-themed activities for families to enjoy.



This summer, Autumn created a sensory walk on the trail around the Pond. "I am maintaining and enhancing the trail to allow visitors to interact with our native plant collection through the use of their senses," she explains. The brochure she wrote accompanies the self-guided walk and encourages visitors to stop at different plants to smell their fragrance, feel their textures, look for vibrant colors or interesting shapes, and listen to the sounds coming from the pond. "The sensory experience can be used therapeutically or as an exercise in mindfulness," continues Autumn. "It is also a good activity to help children stay engaged and focused on the environment that surrounds them."

AUTUMN LUKOMSKI-LA POLICE

School: Temple University
Major: Anthropology
Minor: Environmental Studies

As an anthropology student interested in the relationship between humans and the natural world, Autumn easily saw these connections at the Preserve. "I hope to incorporate ethnobotany into my coursework in the future. Autumn also enjoyed learning to identify native plant species and the various roles that they play in the ecosystem."



"I also liked how the community of Preserve staff, members, volunteers, and visitors all bring their own experiences and knowledge to share with others."

Story continued on page 3.



**Bowman's Hill
Wildflower
Preserve**

Twinleaf Newsletter

Bowman's Hill Wildflower Preserve
 P.O. Box 685
 1635 River Road
 New Hope, PA 18938-0685

Phone: 215.862.2924
Fax: 215.862.1846
Website: bhwp.org
Email: bhwp@bhwp.org

The Preserve is located 2 ½ miles south of New Hope, Pennsylvania, at 1635 River Road (Route 32). Open year-round. Grounds are open daily, 9 am until sunset.

Visitor Center and Twinleaf Book & Gift Shop

Open Monday, April through June, 9 am – 5 pm
 Open Tuesday through Sunday, 9 am – 5 pm
 Open Memorial Day and Labor Day
 Closed Thanksgiving Day and Christmas Eve through January 1.

Admission

Preserve Members: FREE
 Non-Members:
 Adults: \$6
 Seniors (65+): \$4
 Full-time students: \$4
 Children 3-14: \$3
 Children under 3: FREE

Staff

A. Miles Arnott, Executive Director
 Jake Fitzpatrick, Nursery Manager
 Rick Fonda, Grounds Manager
 Rich Gallagher, Facilities & Maintenance Coordinator
 Susan Harrington, Business Manager
 Kelly Joslin, Education Coordinator
 Jason Ksepka, Curator
 Regina Moriarty, Volunteer Coordinator
 Sue Owens, Bookkeeper
 Peggy Riel, Gift Shop Coordinator
 Maggie Strucker, Pocket Habitat Coordinator
 Kellie A. Westervelt, Development Director
 Richard Yahn, Facilities Rental Coordinator

Mission

Bowman's Hill Wildflower Preserve inspires the appreciation and use of native plants by serving as a sanctuary and an educational resource for conservation and stewardship.

Bowman's Hill Wildflower Preserve is managed by the Bowman's Hill Wildflower Preserve Association, Inc., in cooperation with the Pennsylvania Department of Conservation and Natural Resources. A copy of the official registration and financial information may be obtained from the Pennsylvania Department of State by calling 1.800.732.0999. Registration does not imply endorsement.



Message from the Director

Dear Friends,

After a summer of crazy weather — from torrential rain to blistering heat waves — fall is finally here. With the change of seasons a new suite of native plants make their appearance and begin to bloom. We often promote the meadow as a main attraction in summer, and with good reason: the hibiscus, New York ironweed, and milkweeds are show stoppers. But autumn features a diversity of asters and other blooming wildflowers in the coming months. (In fact, their bloom season extends into November.) Couple that with the fall foliage display of the many species of trees and shrubs at the Preserve and it makes for a truly spectacular sensory experience. Even the quality of the light changes — becoming more golden in the fall — which accentuates the natural beauty even more.

The Preserve is well known for its profusion of native wildflowers each spring, but I encourage you to experience this special place in the fall. Things change here by the week. Walk the trails, hear the crunch of leaves under your feet, bask in the golden sunlight, and experience why the Preserve is the place where you experience what's natural and learn what's native.

Miles Arnott
 Executive Director

Summer Interns (continued from page 1)



Left to right: Gabe Monteleone, Kira Botelho, Valerie Stiles, Autumn Lukomski-La Police

GABE MONTELEONE

School: Villanova University
Major: Biology

"My love for birds is what drew me to the Preserve," says Gabe. "After all, Bowman's Hill Wildflower Preserve is a well-known birding hot spot!" Gabe's project this summer focused on improving the birding habitat at the Preserve. He increased the number of bird boxes at the preserve from 19 to 24, with more to come as part of the Aquetong Meadow project. He made the bird observatory more appealing to visitors and birds by adding rocks to edge the area behind the visitor center; he completed the enhancement by filling in a muddy area with cardinal flower and rock. Finally, Gabe planted a new raised garden above the present bird bath and installed a hummingbird mister. He's helped younger generations discover the joys of birding, too, by creating an interpretive adventure for kids.

"I have enjoyed learning about native plants and how vital they are for the environment," says Gabe.



VALERIE STILES

School: Temple University
Major: Horticulture
Minor: Biology

"I have a deep love for nature and wish to preserve and protect it at all costs," says Val, who is planning on a career in ecological restoration. As the horticulture intern this summer, Valerie became knowledgeable in the care and maintenance of native habitats - and what it takes to restore them.

In the spirit of her career aspirations and to culminate her work this summer, Val designed a composting system for the Preserve. "The compost bin that I built, with the help of Nursery Propagator Bob Mahler, is designed to hold most of the weeds and excess plant clippings from the nursery, as well as the food waste from the visitor center. Also, in collaboration with our naturalist and composting enthusiast, Priscilla Hayes, I developed a workshop to teach the staff and volunteers everything they need to know about composting," continues Val.

This workshop, along with the rest of Val's project, underscored the value of converting waste into a nutrient-rich substrate in which plants can thrive. The finished compost will be used in the nursery to help our native plants grow strong and healthy.



Recommended from the Twinleaf Book & Gift Shop



Tree Tales

As we anticipate the autumn season – and its glorious colors – now is a great time to take a moment to appreciate trees. Two tree-riffic books in the Twinleaf Book & Gift Shop are highly recommended.

The Hidden Life of Trees by Peter Wohlleben

Wohlleben draws upon scientific research that indicates that forests are social networks and that trees are like human families: communicating, struggling, and sharing with each other. After reading *The Hidden Life of Trees*, a walk in the woods will never be the same.

The Overstory: A Novel by Richard Powers

Enjoy a story comprised of interlocking tales that span decades – and explores the conflict between humans and nonhumans. This highly lauded novel asks: "If the trees could speak, what would they tell us?"

FUN FINDS

Get creative with new and beautiful coloring books featuring nature and bird themes. More of our popular handmade felt purses and decorative birdhouses are now available; these pieces are crafted by the same artisans who created our beautiful new bird ornaments.

Become Your Own Johnny Wildflowerseed

Are you interested in collecting and propagating your own wildflower seeds? Here are some tips from Preserve Curator Jason Ksepka.

START SIMPLE

When and how to harvest native plant seeds varies tremendously. To get started, consider focusing on some of the easier species in your own landscape, including:

- Asters
- Coneflowers (*Echinacea*)
- Black-eyed Susans (*Rudbeckia*)
- Milkweeds (*Asclepias*)
- Sunflowers (*Helianthus*)
- New York ironweed (*Vernonia noveboracensis*)

MIMIC NATURE WHEN COLLECTING AND PLANTING SEEDS

Many seeds are ripe and best collected in the late summer or fall, after the plants have flowered. Often, the plants have dried out and the seeds are brown or black. Carefully separate seeds from the duff and other plant material by:

- Sifting through increasingly smaller screens.
- Rubbing the seed heads between gloved hands.
- Shaking seeds and attached material in a cardboard box or casserole dish while gently blowing on them, or on a breezy day.

SAFELY STORE YOUR SEEDS

After your seeds have dried, place them in labeled glass jars; paper, cloth, or plastic bags; or envelopes. Store them in a dry, cool location, such as a refrigerator.

If the seed pod is wet, such as with jewelweed (*Impatiens capensis*), wood poppies (*Stylophorum diphyllum*) or bloodroot (*Sanguinaria canadensis*), store the seeds in slightly damp soil or sand in a jar or plastic bag; then, plant them as soon as possible.

WHEN TO PLANT

Option 1: Fall

Broadcast directly in gaps in your meadow or a bed that you have lightly scarified with a rake. Don't till deeply; you could release weed seeds. Be sure to avoid mulched beds.

Option 2: Spring

Many seeds require a period of cold—called stratification—to simulate winter conditions, so refrigerate your seeds for an average of two months in soil that is about as damp as a well rung-out sponge. Then either broadcast seed (as mentioned above) or germinate in seed trays or pots.

"Growing plants from your own seeds has multiple benefits," says Jason. "Your new plants will: produce even more seeds and plants; increase your garden's diversity; increase benefits to birds and insects; and enable you to share either the seeds or plants you've grown from seed with other people, all of which is quite satisfying."



You can collect seeds with Jason during our Growing Native Plants workshop on September 29. For information and to register: bhwp.org/seed-collection.



Volunteer Voice: Mary Anne Borge



A PLANT STORYTELLER PAR EXCELLENCE

"It's hard for us to keep moving because each plant has so many interesting stories to tell," Mary Anne Borge, a long-time preserve naturalist, says as she steps into Penn's Woods.

Spicebush? "Its bright yellow blossoms appear about the same time as forsythia, but it has so much more value. It offers food for pollinators in spring, fruit for birds in fall, and is a food plant for the caterpillars of spicebush swallowtail butterflies," she says. "Its scientific name is *Lindera benzoin*. It has some of the same chemicals found in BENGAY®."

In the pawpaw patch, she notes that the dozens of small *Asimina triloba* fruit trees are essentially one plant that has spread via underground roots from one parent tree: a thicker trunk ringed in necklaces of black drill holes. "Yellow-bellied sapsuckers drill the holes to get the sap to run, not only to drink the sap but to attract insects they also eat," she says.

Near the pond, she points out wild senna (*Senna hebecarpa*), a plant that contains a natural laxative—think Senokot®—which could explain why deer avoid it.

As she began contemplating retirement from her 30-year software career, Borge took the naturalist training classes at the Preserve. Twelve years ago, she began leading guided walks and group tours, and now teaches several of the naturalist training classes.

"It's really fun helping people understand the dependencies between plants and animals, including humans," says the Chicago native. "You can see light bulbs going off in their heads when they really get the importance of native plants."

She also promotes that message outside the Preserve. She is the team leader of an effort to have Lambertville certified as a Community Wildlife Habitat (www.LambertvilleGoesWild.weebly.com). In addition, she uses her photography and writing to share her passion for nature at <https://the-natural-web.org>.

One winter at the Preserve, Borge noticed a Promethea silkworm (*Callosamia promethea*) cocoon attached to a preferred host plant, spicebush. While leading a tour the following May, Borge told her group about the cocoon, and that the moths usually emerge about that time of the year. As if on cue, when they approached the spicebush a newly emerged moth was clinging to its cocoon waiting for its wings to harden.

"Everyone," she says, "was very excited."

Preserve Internship Program gets a Boost

The Preserve's Native Plants and Public Gardens Internship Program is an incredibly important part of our mission as we train the next generation of environmental stewards. A portion of this program is funded by a very modest Intern Fund. This year it was strengthened thanks to two generous gifts—one from an anonymous donor and another from Tricia and Scott Reines.

The Preserve's anonymous donor made a generous gift again this year to underwrite the horticultural internship. "It is crucially important that we share the body of native plant horticulture knowledge we have amassed at the Preserve through the years with the next generation of horticulturists so that they can contribute to the long-term sustainability of our planet," the donor says.

When the Reines couple wondered how best to honor their mothers, they thought of the Preserve's internship program. Both Mrs. Mildred Beck and Mrs. Gloria Reines were teachers who instilled in their children an abiding respect for education

and lifelong learning. The internship program aligns perfectly with the Reines' philanthropic goals. Our program is now more attractive to recruits due to the pay raises funded by their substantial contribution.

The internship program started in 1974 to ensure that future leaders in the fields of horticulture, botany, natural resource management, and environmental education have a strong appreciation of native plants. Each spring, college students are recruited from area colleges and universities. During the summer, the four selected interns work in the Preserve's propagation and nursery facilities, on the trails, and in the Education Department. They get real-world experience while the Preserve benefits from their hard work and amazing energy. Thanks to our anonymous donor and to Tricia and Scott Reines for supporting our interns and helping to make the program stronger in pursuit of a healthy and diverse natural world.



Mildred Beck and Gloria Reines



PLANT

Fall planting allows plants – especially trees and shrubs – to establish strong root systems without the stresses of summer. When spring arrives they are established and ready to begin growing as soon as the soil warms.



PROVIDE FOR POLLINATORS



As the weather cools, birds, butterflies, bees, moths, and other pollinators are preparing for winter. Whether for migration or overwintering, they are in need of native nectar and berries to provide the fuel they need to successfully survive through the winter. Plant asters, goldenrods and berry producing trees and shrubs to assist their transitions.



LEAVE THE LEAVES

Nature provides the perfect mulch – and it's free! Leaves protect and insulate your soil and, as they decompose, will provide nutrients to help build your soil.



FIVE FALL GARDENING TIPS THAT BENEFIT EVERYONE



SKIP THE FALL CLEANUP

Next year's wildlife depends upon it! Butterflies and other beneficial insects overwinter as eggs, pupae, or caterpillars; birds and small animals depend upon the seeds and stalks for food and shelter. Tell your neighbors that omitting the fall cleanup helps the ecosystem.



DISPERSE

Use the plants you have. Fall is the best time to divide most plants; you can spread the seeds, as nature does, for spring germination.

For plants and advice on autumn gardening, visit the Preserve's Native Plant Nursery, open through October 31.



A New Look for the Preserve

A lot has happened at the Preserve over the last several years with the Property, the Programs, the Plants and the People — the 4Ps of the Preserve. With so many changes, we wanted to ensure that our brand - the Preserve personality and values that we share with the world - is clear. Our brand must convey who we are as an organization and what visitors should expect when they are here. With a clear brand image we will successfully attract the greater community to visit, explore and love the Preserve as we all do. In this spirit, staff, board, volunteers, and members created a five-year strategic plan to continue to fulfill our mission, promote these essential elements of the Preserve community and move the Preserve forward.

REFRESHED LOGO



The 4 sides of the logo symbolize the 4 pillars of the Preserve – our 4Ps:

- The Property – EXPLORE the Preserve
- The Plants – GROW native plants
- The Programs – LEARN & discover at the Preserve
- The People – PEOPLE of the Preserve

All four elements work together to make the Preserve the place we love and want to share with others. The flower is the simple but beautiful twinleaf (*Jeffersonia diphylla*) and builds on the previous woodcut design. We simplified the composition and focused on the flower to create a more welcoming image for visitors at all levels to understand the benefits of natives. It represents the natural beauty that you see every time you visit the Preserve: nature at its best with minimal tending. The flower petals break through the sides inspiring all of us to reach out into the community to help others understand the importance of our mission and the rewards of transitioning to a native landscape.

UPDATED TAGLINE

The tagline was modified to reflect our goal of reaching out into the community to encourage others to come and explore the natural wonders of the Preserve and to learn more about the importance of native plants:

EXPERIENCE WHAT'S NATURAL | LEARN WHAT'S NATIVE

We use the term "natural" here to showcase the Preserve's landscape - minimally managed natural beauty - during all four seasons.



NEW WEBSITE

Teams of staff and volunteers developed a creative framework for our website centered on the 4 Ps - and wrote and revised content to inform and engage site visitors. In addition, our website development team added functionalities to make the site a useful, informative, and easy experience for our existing members and new visitors alike. Visit our new website now at bhwp.org to see all that is new, from registering for programs online to native gardening tips to an online version of the Twinleaf newsletter.

Many of you were actively involved in this work. The Preserve is very fortunate to have such a dedicated and enthusiastic community of volunteers, staff, and Board members. Through our collaborative efforts, we were able to accomplish important objectives as we work to guide the future of the Preserve and fulfill our mission while staying true to our roots.

Curator's Notebook

The ongoing restoration of Founder's Pond ("The Old Pond") is getting closer to completion. Site visits have been made and plans to restore water flow from the Pidcock Creek tributary are underway. Julie Davies, one of our board members, helped me replant the royal ferns that were rescued before the work began. We have selected a number of plants from our Native Plant Nursery to plant at Founder's Pond and we are also purchasing some new material from a local grower. Founder's Pond will once again be a favored destination for visitors of the Preserve.

Recently, we learned of the passing of two long-term members of the Preserve, Jack and Rose Marie Schieber. They were both strong supporters of the Preserve and avid naturalists. As passionate gardeners, the Schiebers planted many species of ferns. Their daughter, Robin Hoy, generously offered us the opportunity to rescue some native ferns from her parents' property before the home is sold. Preserve Nursery Manager Jake Fitzpatrick will assist me and David Lauer to safely remove these ferns and plant them on the Wherry Fern Trail, adjacent to Founder's Pond. The Schieber family requests that, in lieu of flowers, donations be made to the Preserve. These donations allow us to establish a fern propagation lab in our Nursery. David Lauer, a member of the Collections Committee, and Max Blaustein, of Greenland Nursery in Fairmont Park, donated young plants of a number of species that have been growing from spores they collected. Netted chain fern (*Woodwardia aereolata*), broad beech fern (*Phegopteris hexagonoptera*), purple-stemmed cliffbrake (*Pellea atropurpurea*), and blunt-lobed cliff fern (*Woodsia obtuse*) are among the species already donated. As we develop our growing space and techniques, we will increase the number of species that we work with and grow at the Preserve.

There is always something exciting happening here - and autumn is no exception!

—Jason Ksepka, Curator



broad beech fern
(*Phegopteris hexagonoptera*)



Netted chain fern
(*Woodwardia aereolata*)



Summer Students Tackled Invasive Species (and More)

The Preserve happily welcomed 16 high school student volunteers to our Summer Student Program, which ran for six weeks in July and August. On Wednesday and Friday mornings, in collaboration with staff members and interns, the students performed important jobs throughout the Preserve, such as weeding unruly invasive plants, resurfacing trails, clearing debris, and caring for native plants and seedlings in our nursery.

This summer, for the second year, the Preserve also welcomed life skills students from New Hope Solebury School District. Each week, this dedicated volunteer crew participated in Weeding Wednesdays, ensuring that our priceless collection of native plants is free from weeds and invasive species.

"We are so pleased to offer local high school students the opportunity to volunteer within their community," says Preserve Volunteer Coordinator Regina Moriarty. "The sense of pride, connection, and achievement they feel inspires a desire to volunteer throughout their lives." It also provides them with work experience and opportunities to demonstrate responsibility, fill required community service hours, and, for many of our young volunteers, to gain early exposure to fields about which they care deeply: the environment and conservation.

"All of our summer student volunteers are an immense help to the staff," adds Moriarty. "They make a big difference in the health and appearance of the grounds, which benefits the Preserve year-round."

Thank you to our 2018 high school summer students: Adela Agnew, Ryan Coolahan, Veronica Domyslawski, Erika Hansen, Baraa Kachlan, Abbey Kollar, Shawn Lampke, Kevin Lee, Brendan Moriarty, Megan Moriarty, Madison O'Leary, Viswa Rathnakumar, Nicholas Shultz, Joey Sulewski, Olivia Sulewski, and Giovanni Versace. Thanks, also, to Jake Fitzpatrick, Rick Fonda, Marin Byun, Jason Ksepka, Richard Gallagher, Gabe Monteleone, and Valerie Stiles for guiding and teaching our students this summer.

Pictured above: Some of our summer students tackled invasive plants in the meadow with volunteer Joyce Koch. Left to right: Viswa, Joyce, Erika, Adela, Kevin, and Joey.

Welcome to Our New Members

WE LOOK FORWARD TO SEEING YOU AT THE PRESERVE!

Joanne Adar
 Rachel Alderfer
 Fiona Alston and Steven Trachtenberg
 Kathleen and Jim Amon
 Nash Anderson
 Andress Family
 Kathleen and Frank Angelosanto
 Mohammad Ishtaq Arastu
 Barbara and Omar Arbani
 Marilyn Arbor
 Patti Arnott
 Rebekah Ashley
 Elizabeth Augspach
 Sherry Bach
 Mimi Bailey
 Philip Baiocchi
 Susan Baker
 Janet and Edward Barnes
 Nicholas Baro
 The Baugh Family
 Barbara Beck
 Beers Rhein Family
 Susan and Begent
 Jennifer Bell
 Barbara Bennett
 Nancy Benson
 Madeline and Bruce Berlin
 Glenn Blakely
 Robert and Suzanne Bodine
 Virginia and Peter Bogucki
 Cindy Bohse
 Charles Boisvert and Janine Peterson
 Emily Bonavitacola
 Matthew Bondar and Allie Brody
 Aaron Booher
 Lori Boroska
 Ann Brady
 Bob Brashear
 Charlene Briggs
 The Bruncker Family
 Ellen Bryer and Julia Signell
 Bucks Mont Party Rental
 John Burns
 Jenny and Daniel Butler
 Sheree and Scott Butterfield
 Jim Byrne and Barbara Van Riper
 Gilbert Byrnes
 Justin Canterberry
 Clea Carchia
 Susan and Lee Casperson
 Dottie Cassimatis
 Ralph and Susan Celebre
 Christine Chaapel
 Catherine Chilcote
 Debbie Chorka
 Ruth and Bill Claus
 Doug Coleman
 Angela Colletta
 Sara Compion
 Chirstine Compo-Martin

Heidi Congalton
 Katherine Constantine
 Tricia Coscia
 Tracey Costanzo
 Joan Costello
 Jennifer Cram
 Chorissa Crockett
 Dustin Crosby
 Pat Crowley
 Kim Dalton
 Tina and Dustin Davis
 Michael Dawson
 Ray and Rita Dennis
 Sonali Deshpande
 Ruth DiDonato
 David and Linda Donino
 Dolores Drake
 Ilene Dube
 Dan Duran
 Tom and Kate Dydek
 Amy Edgerton
 Sandra Elsner
 Sloan Emmel
 Barbara Engisch
 Wilmer and Eleanor Evans
 Michael Farmer
 Marissa Farra
 William and Althea Fejes
 Brandon Ferrara
 Keri Flanagan
 John and Joann Flynn
 The Foff Family
 Katie Foster and Deb Holloway
 Nicole Foster and Matthew Markle
 Carolyn Fox
 Stephanie and Kevin Foy
 John Franzini
 Marion Freiberg and Ray Smith
 Michele and Chris Fuller
 Amy Furlong
 Amy Gage
 Anne Galli
 Lesa Gellevi
 Kay Gering
 Sara Gibson
 Miriam Gitterman
 Jennifer Giuglianotti and Clein Marc Pierre
 Helen Goddard
 Pipit and Scott Godefroy
 Kathleen Goerig
 Gary Gokey
 Lesley Gold
 James Golden
 Todd Goldin
 Ruth Golush
 Reed Goossen and Kathy Kindness
 Gail Gorgol
 Katie Gowa
 Amanda Grallace
 Debra Granite

Brian Grant
 Peter Green
 Trudell Green
 Seth Griep and Katerina Penkova
 Barbara and James Griffin
 Harry Groome
 Cheryl Gross
 Christine and Anton Guryev
 Phil Gutis
 Ashley Haas
 Susan and Ralph Haase
 Nicole Hancock
 Debbie Hankin
 Ellen and Andy Happ
 David Harm and Sommer Heffelfinger
 Nadine and Boyd Harrison
 Erin Hasinoff
 Joyce Heisen
 Lise Hill
 Tsao Ho
 Dorothy Hoeschen
 Lindsay and Ben Hoppok
 Molly Collins and Daniel Horton
 Anu and Ashvin Hosangadi
 Joanne and Wolfgang Huhn
 Alexandra Hunt
 Mike Hvasta
 Bonnie Ingram
 Michael Jacob
 Derek Jacobs
 Nila Jaghab
 Judy Jengo
 Sandra Jobses
 Charles Johnstone
 Deborah Jones
 Stephanie Jones
 Mark Kearney
 Junghoon Kim
 Jennie King
 Chip and Irene Kirchner
 Jessica Kirker-McGettigan
 Jennifer Kish
 Anna Kitces
 Dorothy Knaus and Jack Hartmann
 Carol Koch
 Andrea Kollath
 David Krahl
 Wendy Kraus
 Scott Kravis
 Chris Kreuzsling
 Mike and Maria Krockner
 Steven Kuchler
 Jason Kurtz
 The Lambert Family
 Laurie Lanning
 Lesley and Richard Larson
 Tony LaSalle
 Chad and Vanessa Lassins
 Stephen and Nina Laubach
 Amy Layton

Matthew Lefelovre
 Sasha Lehman
 Walter and Barbara Leib
 Linda Lewis
 Marin and Sean Lewis
 Edward Leydon
 Geri Livengood
 Alice and James Loiseau
 Samantha Loscalzo
 Heather and Kevin Lovell
 Lisa Macaulay
 Charlotte Mack
 Sharon and Craig MacLatchie
 The Madden Family
 Ms. Elizabeth Maddeu and Mr. Steven Orsborn
 Ticia Magner
 Annette Magri
 Sean Maloney
 John Mariano
 Elena Marino and Michael Jonn
 Marilyn Marquis
 Geoffrey Marsh
 Stephen McDonald
 Guy McDonnell and Stephanie McKean
 Chris McGinon
 Matthew McInerney
 Catherine McIntyre
 Elizabeth Meade
 Bernadette Methven and Marianne Speakman
 Esther Morse
 John and Cindy Murphy
 Jennifer Murray
 Patrick Murray
 Katherine Murtaugh
 Silvia Napierski
 Greg Nebbia
 Ariel Newton
 Bernadette Noll
 Jean Norton
 Jane O'Neill
 Cynthia Oberkofler
 Marge Opacki
 Ellen Osborne
 Bianca Ottone and James Chinnici
 Adam Pachnieski
 John Paglione
 Dorothy Palazzo
 Annemarie Pantina
 Amy Parenti
 Melanie and Brian Parker
 Joana Patuleanu
 Diane and Suresh Paul
 Gabrielle Pfitzner

David Picard
 Melissa Pirragalia
 Pam Pitts
 David Pratt
 Douglas and Lucia Praul
 Patti Price
 Sharon Prosinski
 Niika Quistgard
 Kathleen Rahman
 Elisa Rapaport
 Doug and Nancy Rauschenberger
 Amanda Regan
 Shannon Reilly
 Stephen Rice and Anneclaire De Roos
 Roberta De Vries and Donald Richardson
 Ann Ricker
 Danner Riebe
 Peggy Riel and Michael Altomari
 Roberts - Campisi Family
 Dana and Michael Robinson
 Diane Roeser
 Anthony and Colleen Rojas
 Robert Roop
 Ruth Rosenberg
 Dianne Ross and Andrew Kidd
 Marsha Rudolph
 Cynthia Ruffner
 Jim and Jennifer Sands
 Vicki Sarnoff
 Jean and Steve Sashihara
 Mark Scheibner
 Frank Schmied
 Tammy Schneider
 John and Marilyn Schuster
 Lisa Schwartz
 Suzanne Sczepakowski
 Nichole Seidell
 Jean Semler
 Reanna Serafine and Aidan Nemath
 Ms. Katie Sereduk
 Sylvia and Steve Sereduk
 Janet Sharre
 Amy Sheaffer
 Madelaine Shellaby
 Nancy Shelly
 Laura and Rob Sheppard
 Michael Shimkus
 Hannah and Samuel Shipley
 Mark and Christina Simonis
 The Skolnick Family
 Nina Sonnenrein
 Candace Souweine
 Tom Spain

Chris and Jen Sremanak
 Bonnie Staats
 Elizabeth Stadele
 Ronald Steiny
 Jennifer Stephens
 Deborah Stewart
 Lisa Stolzer and Matthew Jones
 Frederic and Patricia Strawbridge
 Ariel Subourne
 Laura Kearny Sueta
 Kelly Sullivan
 Kathy Summerall
 Lena Szakaly
 Isabel Szelagowski
 Peter Tamas and Irene Dala
 Susan Tew
 Margaret Thacker
 Mark Thomas
 Melissa Timko
 Robert Tomaselli
 Marina Tugusheva
 Nancy Turner
 Herbert Valentine and Barbara Chaapel
 Deborah Vari
 Jillian Marcus
 Melissa Vermey and Michael Marchese
 The Virtucio Family
 Anne Volker
 Christine Wagner
 Betty and Doug Wallace
 Bill and Nancy Watkins
 John Weihe
 Hannelore Wenger
 Alison Wesson
 Elizabeth Whartenby
 Justin Wheelan
 Jacqueline Whitney
 Doug and Jeanne Witschen
 Phyllis Wolf
 Robert Wood
 Chelsea Woods
 Mimi and Mark Worthington
 Adam Wroblewski
 The Yahn Family
 Elva Yaschur
 Dale and Marianne Young
 Lisa Young
 Elizabeth Zacharias
 The Zameska Family
 Erin Moran and Joshua Zameska
 Theresa Zataveski
 Gina Zhang
 Julie Ziff



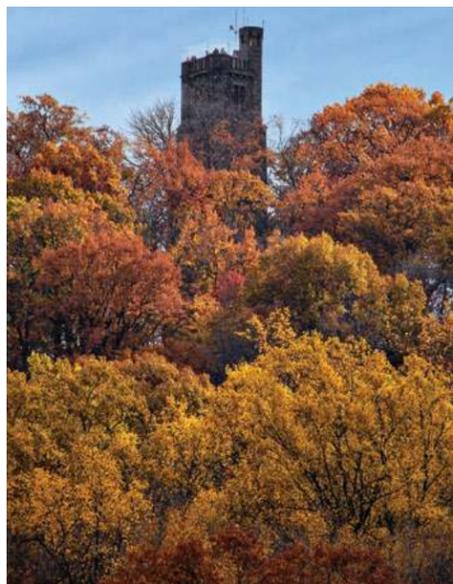
THANK YOU, MEMBERS for your contribution in the effort to preserve native plants and the wildlife that depend on them. With your support, we fulfill our mission.

Fall Programs

The Preserve offers learning opportunities for all ages to enjoy. See the complete listing of programs and register online at bhwp.org/calendar.

KIDS & FAMILY PROGRAMS

NATURE EXPLORATIONS



FROM WILDFLOWERS TO BOWMAN'S TOWER FAMILY NATURE WALK

Sunday, October 14; 9 - 11 am
Members: \$6/adult, \$4/child;
Non-members: \$8/adult; \$6/child

Nature lovers are in for a special treat! We'll take a guided, early morning walk from our visitor center to Bowman's Hill Tower. Along the way, we'll discuss the interesting plants and habitats we encounter.

SLIMY SNAKES, TERRIFYING TARANTULAS AND BLIND BATS WITH PAM NEWITT

Sunday, October 28; 3 - 4 pm
Members: \$6/adult, \$4/child;
Non-members: \$8/adult; \$6/child

Are bats blind? Do toads give you warts? Myths like these are not unusual to hear - but are they true? Join Naturalist Pam Newitt and take on some common misconceptions about the animals that live around us. Some live animals will be on-hand to help us uncover the truth! A short walk may follow this indoor presentation.

WORKSHOPS & EVENTS

ECOLOGY & CONSERVATION

WEED PATROL

Saturday, October 6; 9:30 am - 12 pm
FREE for everyone. Pre-registration suggested.

Join us for a fun morning in the woods. Meet Preserve Grounds Manager Rick Fonda on the visitor center porch for details regarding the morning's tasks. Jobs likely include removing non-native plants and helping with light trail maintenance. Learn as you go! Dress for the weather and for working outside. Groups, individuals, and families welcome. Gloves and tools are supplied or bring your own. Please bring a reusable water bottle. This program is weather dependent; visit bhwp.org for program status.

To register, contact Volunteer Coordinator Regina Moriarty at 215.862.2924 ext. 110 or moriarty@bhwp.org.

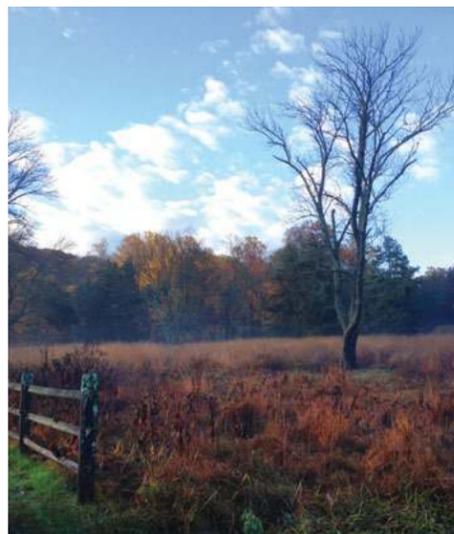
LEARN ABOUT LICHENS WORKSHOP WITH DENNIS WATERS

Sunday, November 11; 1 - 4 pm
Members: \$15; Non-members: \$20

Are they plants? Are they fungi? They're both! Lichens are everywhere you look, and they are as fascinating as they are ubiquitous. Join lichenologist Dennis Waters to learn about these remarkable botanical partnerships. Understand how they work and why they have grown to be so dependent on each other. Following a short talk, we will take an excursion into the Preserve to find lichens growing on trees, on rocks, and on the ground. You will learn about their lifestyles, their habitats, and their important contributions to ecosystems. And you'll have plenty of chances to try your hand at identifying the lichens you see.

Dennis Waters has been a lichenologist for 10 years. He is currently completing the first lichenological survey of Mercer County, NJ, in collaboration with the New York Botanical Garden, the Mercer County Park Commission, and the D&R Greenway Land Trust. In recent years he has been part of lichen surveys in Quebec's Gaspé Peninsula, the Dare Regional Biodiversity Hotspot in North Carolina, the Straits Counties of Michigan, and the Talladega National Forest in Alabama.

ART, HEALTH & NATURE



MEANDERING MINDFULLY THROUGH FALL'S COLORS WITH SANDY UNGER

3-week series

Wednesdays, October 10, 17, 24;
10 - 11 am
Members: \$30; Non-members: \$36

Mindfulness is a way of experiencing the world in the present moment with curiosity and non-judgmental awareness. Join us in mindfully wandering through the Preserve, focusing on the change of seasons through four of our senses: sight, hearing, touch, and smell. Deepen your connection with the natural world and nourish your mind, body, and spirit.

Sandy Unger, MA, is trained in teaching Mindfulness Based Stress Reduction (MBSR) at Thomas Jefferson University Hospital in Philadelphia. She also is a certified Qigong and Tai Chi Easy certified teacher through the Institute of Qigong and Tai Chi and a member of the National Qigong Association.



Unless noted, advance registration is required for all programs.

REGISTER ONLINE AT
BHWP.ORG/CALENDAR



HOLIDAY WREATH WORKSHOPS WITH MILES ARNOTT

Saturday, December 1
Session I: 10 am - 12 pm
Session II: 2 - 4 pm
Members: \$55; Non-members: \$65

Fee includes all materials. Registration with payment is required by November 29.

Join the fun and make a festive holiday wreath out of natural materials and native plants, including juniper, white pine, and holly. Preserve Executive Director Miles Arnott leads the workshop with a step-by-step demonstration and hands-on instruction to help you create a work of art you will be proud to display during the holiday season. Space is limited for this popular program, so register early.



EDIBLE ORNAMENTS FOR BIRDS

Saturday, December 8; 3 - 4:30 pm
Members: \$10; Non-members: \$12

Registration with payment is required by December 6.

During the winter, it is a challenge for birds to find sufficient food to survive; natural food sources are limited. Make several natural "ornaments" for birds that you can use to decorate outdoor trees. Please bring a container for your ornaments.

ALLERGY ALERT:
Nuts are used in these projects.

TALKS, WALKS & LECTURES

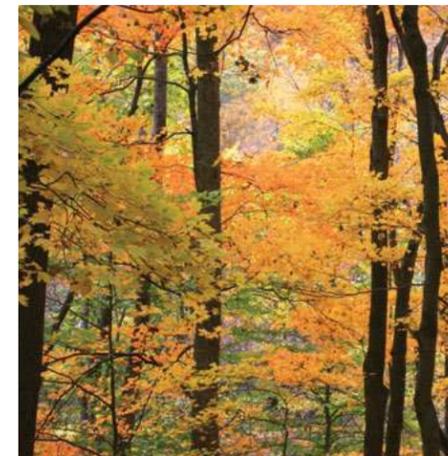
NATURE EXPLORATIONS & SPECIALTY WALKS



PERIMETER WALK WITH LES SWARTLEY

Saturday, October 6; 10 am - 12 pm
Members: \$6; Non-members: \$10

The Preserve would look very different without our 10-foot-tall deer fence. Have you ever wondered what lies along the edge of such a significant perimeter, which encompasses nearly 100 acres of pristine and diverse woodland habitat? Join Naturalist Les Swartley as he takes you on an excursion around our boundary to study the contrast between our grounds and the neighboring landscapes. This is a rigorous walk requiring a good degree of balance. Dress for weather and wear sturdy hiking shoes appropriate for possibly wet terrain.



FALL FOLIAGE WALK WITH JIM BRAY

Saturday, October 20; 1:30 - 3 pm
Members: \$6; Non-members: \$8

The magic of fall color at the Preserve is mesmerizing; but, have you ever wondered how and why the color change occurs? Join Naturalist Jim Bray as he shares his knowledge of trees - from color changes to medicinal value and folklore to some things in between - on this interactive walk.

HISTORY HIKE: WHISPERS IN THE WOODS WITH MARY NOGAMI

Sunday, October 28; 10:30 am - 12 pm
Members: \$6; Non-members: \$8

Join Naturalist Mary Nogami for a leisurely walk in Penn's Woods and along Pidcock Creek. Under the colorful canopy of the fall foliage, listen to stories about Revolutionary War soldiers and notable historical citizens of New Hope and Washington's Crossing, whose lives still impact us today. For ages 8 and up.



WINTER SOLSTICE WALK

Friday, December 21; 10 - 11:30 am
Members: \$5; Non-members: \$7

Instead of hunkering down and bemoaning the longest night of the year (also known as the winter solstice), celebrate it with a stroll through the Preserve with one of our naturalists.

We'll celebrate the joys of winter with a walk on the Preserve trails at a time when the sun is lowest in the sky and we experience the shortest days of the year. We'll conclude in the visitor center with hot drinks and cookies.



Unless noted, advance registration is required for all programs.

REGISTER ONLINE AT
BHWP.ORG/CALENDAR



BIRDING PROGRAMS



SPARROW IDENTIFICATION WORKSHOP WITH PETE BACINSKI

Sunday, October 14; 1-3 pm
Members: \$20; Non-members: \$25

Pete Bacinski leads a comprehensive identification workshop featuring over 25 of our resident and wintering sparrows, as well as common rarities that visit Pennsylvania and New Jersey. His presentation will illustrate field marks and clues to identification.

Pete Bacinski is a naturalist, photographer, and field trip guide who has been a leader in the field of ornithology for decades. He has written for numerous local, state, and national publications and has won the World Series of Birding Competition three times.

OWL PROWL

Friday, November 16; 7 - 8:30 pm
Saturday, December 8; 7 - 8:30 pm
Members: \$8; Non-members: \$10

Join us for an after-hours hike to search for these nocturnal birds. We'll start indoors and discuss how to identify the species we may see or hear. Dress for the weather and be prepared to walk through wet trail conditions. For ages 8 and up.

TOUR THE PRESERVE

BEHIND-THE-SCENES NURSERY TOUR WITH JAKE FITZPATRICK

Sunday, October 14; 12 - 1 pm
Members: \$5; Non-members: \$7

Join Preserve Nursery Manager Jake Fitzpatrick for a walk-through of the Preserve's growing area. Normally closed off to visitors, this is your opportunity to see how we grow our precious native plants. Learn how we propagate seeds and care for our native perennials all year long. You will also have the opportunity to pot a native perennial to take home.

2019 WINTER LECTURE SERIES

To learn about the lineup of the 2019 Winter Lecture Series scheduled for Sunday afternoons early next year, please check the Preserve's website, bhwp.org, in December.

KNOWING NATIVE PLANTS

Members: \$15; Non-members: \$20
Professional CEUs are available.

TREES OF THE PRESERVE

Saturday, October 13; 1 - 4 pm

Learn about many of our native tree species in the glory of their fall color! Do you know which native tree was originally used to flavor root beer? Or why leaves change color? This program will cover these topics and more. You will also gather tips on how to identify the trees of the Preserve, both deciduous and evergreen. This program is geared for adults.



FROM FLOWERS TO SEEDS WITH ED LIGNOWSKI, PH.D.

Saturday, November 3; 1 - 4 pm

How do angiosperms reproduce sexually? Ed Lignowski, Ph.D., will answer that question while discussing the life cycle of flowering plants, from pollination to fruit and seed dispersal. The general anatomy of flowers will be covered; specific examples of native plants will be used to illustrate the many interesting differences in floral structure and function that occur in nature. The events following pollination, leading to the development of fruits and seeds, will be explained. Learn about various types of native plant fruits and see examples of how they provide nutrition for wildlife. This presentation will be followed by an outdoor tour.



Unless noted, advance registration is required for all programs.

REGISTER ONLINE AT BHWP.ORG/CALENDAR

2018 Fall & Winter Events

Advance registration is required for most programs. Visit bhwp.org/events for more information and registration.

SEPTEMBER

1 - 30	Guided Wildflower Walk (Tue to Sun)	2 - 3 pm
SAT 15	Fall Morning Bird Walk	8 - 9:30 am
SAT 15	Knowing Native Plants: Amazing Asters	10 am - 1 pm
SAT 15	The Hidden Life of Trees	1:30 - 3 pm
SUN 16	Confusing Fall Warbler ID Workshop	1 - 3 pm
THU 20	Naturalist Training Begins	10 am - 1 pm
FRI 21	Nature at Night	7 - 8:30 pm
SAT 22	Fall Morning Bird Walk	8 - 9:30 am
SAT 22	Weed Patrol	9:30 am - 12 pm
SAT 22	Fall Nature Play Day	1 - 4 pm
SUN 23	Fall Aster Walk	10:30 am - 12 pm
SAT 29	Fall Morning Bird Walk	8 - 9:30 am
SAT 29	Growing Native Plants: Seed Collection	10 am - 12 pm
SUN 30	Penn's Woods Tree Trail Walk	1:30 - 3 pm

OCTOBER

2 - 31	Guided Wildflower Walk (Tue - Sun)	2 - 3 pm
THU 4	Naturalist Core Training	10 am - 1 pm
SAT 6	Weed Patrol	9:30 am - 12 pm
SAT 6	Perimeter Walk	10 am - 12 pm
WED 10	Meandering Mindfully through Fall's Colors (series)	10 - 11 am
SAT 13	Knowing Native Plants: Trees of the Preserve	1 - 4 pm
SUN 14	Wildflower to Bowman's Tower Family Nature Walk	9 - 11 am
SUN 14	Behind-the-Scenes Nursery Tour	12 - 1 pm
SUN 14	Sparrow ID Workshop	1 - 3 pm
WED 17	Meandering Mindfully through Fall's Colors (series)	10 - 11 am
THU 18	Naturalist Core Training	10 am - 1 pm
SAT 20	Fall Foliage Walk	1:30 - 3 pm
WED 24	Meandering Mindfully through Fall's Colors (series)	10 - 11 am
SUN 28	History Hike: Whispers in the Woods	10:30 am - 12 pm
SUN 28	Slimy Snakes, Terrifying Tarantulas & Blind Bats	3 - 4 pm

NOVEMBER

THU 1	Naturalist Core Training	10 am - 1 pm
SAT 3	Knowing Native Plants: From Flowers to Seeds	1 - 4 pm
SAT 10	Annual Meeting	9 - 11 am
SAT 10	Volunteer Recognition Brunch	11 am - 1 pm
SUN 11	Learn About Lichens Workshop	1 - 4 pm
THU 15	Naturalist Core Training	10 am - 1 pm
FRI 16	Owl Prowl	7 - 8:30 pm
THU 22	Thanksgiving Day	Visitor Center Closed

DECEMBER

SAT 1	Wreath Workshop Session I	10 am - 12 pm
SAT 1	Wreath Workshop Session II	2 - 4 pm
SAT 8	Edible Ornaments for Birds	3 - 4:30 pm
SAT 8	Owl Prowl	7 - 8:30 pm
FRI 21	Winter Solstice Walk	10 - 11:30 am
24 - 31	Winter Holiday	Visitor Center Closed

Save the Date:
Land Ethics Symposium

In 2019, our 19th annual Land Ethics Symposium will focus on "Creative Approaches to Ecological Landscaping." On Thursday, March 14, 2019, we will welcome speakers and attendees at Delaware Valley University in picturesque Doylestown, Pennsylvania. A stellar lineup of speakers headlines the upcoming symposium.

Designed for landscape architects, designers, contractors, land planners, municipal officials, and homeowners, the day-long program focuses on sharing the latest information to help us all create ecologically sound and economically viable landscapes through the use of native plants and sustainable practices. Continuing education credits (CECs) are available.

To learn more, consult our website at <http://bit.ly/BHWP-LES> and check it frequently for important updates about speakers and sponsors. Online registration for the symposium will be available at this website by the end of the year.

Presented by Bowman's Hill Wildflower Preserve, the Land Ethics Symposium has long been recognized as one of the leading land planning and ecological design programs in the region. That is due, in part, to a slate of well-respected, dynamic speakers, as well as the support of many esteemed sponsors.

If you are interested in becoming a sponsor for the 2019 symposium, please contact Preserve Development Director Kellie Westervelt at 215.862.2924 or email development@bhwp.org.

For the fifth year in a row, Delaware Valley University will serve as the venue for this event. The beautiful campus is conveniently located at the intersection of Routes 611 and 202. Direct rail service from Philadelphia is available via SEPTA's Lansdale/Doylestown line.

LAND ETHICS AWARD NOMINATIONS

Bowman's Hill Wildflower Preserve is pleased to announce that nominations are now open for the 2019 Land Ethics Award. This honor recognizes the creative use of native plants in the landscape, sustainable and regenerative design, ethical land management and construction practices by individuals, organizations, government agencies, community groups, and business professionals. Now in its eighth year, the Land Ethics Award raises public awareness of sustainable land management practices, an important part of the Preserve's efforts to inspire the appreciation and use of native plants and to serve as an educational resource for conservation and stewardship.

The 2019 Land Ethics Award will be presented at the Land Ethics Symposium on March 14, 2019, at Delaware Valley University in Doylestown, Pennsylvania. Since the inception of this prestigious Award, the Preserve has received nominations for many outstanding organizations, projects, and individuals deserving of recognition. Eligibility, judging criteria, and submission guidelines are outlined in the nomination form available on the Land Ethics Award section of the Preserve's website: bhwp.org/LES-award. Nominations must be received by January 18, 2019. For more information about the Land Ethics Award and to download the nomination form, visit <http://bit.ly/BHWP-LEAward>.

Please spread the word to help us honor excellence in sustainable ecological design in the Delaware Valley region!

Check your mailing label for your membership expiration date. *It may be time to renew!*



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TWINLEAF NEWSLETTER

FALL 2018 | VOLUME 25, ISSUE 3

Enjoy a Fall Harvest of Native Plants for Your Garden!

END OF SEASON SALE AT THE NATIVE PLANT NURSERY

OCTOBER 1 – 31, 2018

Buy 2, Get 1 Free on all remaining Nursery stock

No additional discounts will be applied to this offer.



Photo: Mary Anne Borge

EXPERIENCE WHAT'S NATURAL | LEARN WHAT'S NATIVE

Bowman's Hill Wildflower Preserve inspires the appreciation and use of native plants by serving as a sanctuary and an educational resource for conservation and stewardship.

Bowman's Hill Wildflower Preserve

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