

Twinleaf Newsletter

Summer 2015



Volume 22, Number 2



Jules Bruck of the University of Delaware accepts the Land Ethics Award from Director Miles Arnott for the Applecross residential demonstration project.

5th Annual Land Ethics Awards Presented at Symposium

We presented our fifth annual Land Ethics Awards at our Land Ethics Symposium on March 12, 2015. The award honors the creative use of native plants in the landscape, sustainable and regenerative design, and ethical land management and construction practices. By raising public awareness about sustainable land management practices, the Land Ethics Award is an important part of the Preserve's efforts to inspire the appreciation and use of native plants and serve as an educational resource for conservation and stewardship.

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Bowman's Hill Wildflower Preserve Association PO Box 685 . New Hope, PA 18938 (215)862-2924 . www.bhwp.org

New Orientation Film Unveiled

We kicked-off the spring native plant sale Members' Day with a very special event: the debut of our new orientation film. The film captures a year in the life of the Preserve...shooting began in April 2014 and continued through March 2015. Staff, Trustees, volunteers and members are featured in the documentary style production.

The production company for this project was Mt. Carmel Films LLC of Easton, PA. Using cinema quality equipment, the crew captured beautiful imagery and authentic sounds through the



beautiful imagery and The crew of Mt. Carmel Films LLC works on location in the meadow authentic sounds through the during our 2014 Discovery Day event.

changing seasons. A particularly stunning scene was achieved by using a camera mounted on a boom, giving the effect of floating through the woodland trails. The energetic crew spent hours immersing themselves into all that makes the Preserve unique.

With a running time just shy of thirteen minutes, the film offers detailed insight into who we are and what we do. It is now on view regularly in the Visitor Center and linked to our website, so be sure to take time to watch it on your next visit. You may learn something new about the Preserve you know & love!

We thank Visit Bucks County for funding this project through a Travel and Tourism grant. We extend our thanks to all of the participants that helped make our Orientation Film possible:

Jean Barrell, Mary Anne Borge, Jim Bray, Kathy DiTanna, Allison Hamilton, Betsy Falconi, Monica Flint, Leah Hight, Dave Klaus, Bill MacDowell, Pam Newitt, Jared Rosenbaum, Maggie Strucker, The Walcott - Sonn Family, Trey Wilson

See pages 5 - 9 for our detailed

Calendar of Events.

Learn all about the programs planned for July -December!

Twinleaf

Published three times per year as a benefit of Preserve membership.

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: www.bhwp.org Email: bhwp@bhwp.org

The Preserve is located 2 ½ miles south of New Hope, PA at 1635 River Road (Route 32). Open year-round.

The grounds are open from 8:30 a.m. – sunset daily. Visitor Center and Twinleaf Shop are open 9 a.m. – 5 p.m. Tuesday through Sunday. Open daily from April - June. Open Labor Day. Closed Thanksgiving Day and 12/24 through 1/1.

Admission:

Preserve members: FREE Non-members: Adults - \$6; Seniors (65+) - \$4; Full-time students - \$4; children 3 through 14 - \$3; children under 3 are free.

Preserve Staff:

A. Miles Arnott, Executive Director
Rick Fonda, Grounds Manager
Angela Jacobsen, Director of Development
Kelly Joslin, Education Coordinator
Liz Poole Lamb, Visitor Services Coordinator
Bob Mahler, Nursery Manager
Trish McGuire, Volunteer Coordinator
Dave Offerdahl, Facilities Maintenance
Coordinator
Sue Owens, Bookkeeper

Jennifer Pennington, Membership & Communications Coordinator Susan Rowles, Business Manager

Botanical illustrations by Heather Lovett.

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 Historical and Museum Commission. 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 our Director: Pocket Meadows Help Pollinators Proliferate



Meadows are exquisite examples of the web of life in action. They are filled with fascinating examples of the interconnectedness of all life with pollinators buzzing among the flower tops, carrying pollen from one flower to the next thereby insuring the next generation of life sustaining plants. Birds consume meadow plant seeds and disperse them across the landscape.

Meadow insects of all kinds are prized by birds as protein rich food source to feed their developing young. Seasonality plays an important role in the life of the meadow as different suites of plants come into bloom at different times of the year and sustain an even greater number of animal species that depend upon them. In addition to the direct biological benefits, meadow plants serve to slow stormwater runoff allowing more infiltration of rainwater into the soil. Meadows are a microcosm of the larger ecological world and serve as a model for solutions to many of the challenges we face in trying to build a sustainable future.

The meadow at Bowman's Hill Wildflower Preserve serves as a unique educational resource and learning destination within the Preserve. Visitors are treated to a succession of plants in bloom from April through October. There they can learn about our native plants and the pollinators who depend on them, they can see real world examples of mutualism and symbiosis, and they can learn about why so many of our native pollinators are in peril. While the meadow is educational, it is also serves an equally important purpose as a beautiful aesthetic experience -- the bright sun on the marsh mallow, the smell of mountain mint, the buzz of the insects, the cool of an afternoon summer breeze. All of these things enhance the human experience and help us reconnect with nature.

Our own meadow is a treasure trove of beauty and learning opportunities and serves as a living example of how to garden responsibly while providing food and shelter for wildlife. But we are just one place, one small piece of the puzzle, and if we become a green oasis amidst a sea of development we will have failed in our mission. We have an obligation to inspire action and change behavior outside of our fence. While the Preserve's meadow is beautiful and provides real life experiences and insight into the natural world, it is not accessible to everyone. Travel distances, time restrictions, and school budget challenges mean that some of the school students who might benefit most from what the meadow has to offer are denied the opportunity to learn.

Our new Pocket Meadow educational initiative seeks to change all of that. We envision an outreach program that takes a small piece of the Preserve's meadow and recreates it in schoolyards throughout the region. Imagine participating schools being provided with a

News

diversity of native meadow plants from the Preserve's nursery that have been specifically chosen to illustrate the connectedness of life. In addition to the plants, each Pocket Meadow will include a meadow planting diagram with instructions as well as a long term maintenance plan. Schoolteachers will work directly with Preserve educators to design a Pocket Meadow curriculum that meets their needs for academic standards in science and math. We will hold teacher training workshops so that they become more fluent in the many learning opportunities found in their own Pocket Meadows. Through the act of planning, planting, caring for and observing their own school Pocket Meadows students will learn valuable lessons in biology, ecology, and horticulture. In addition, each student in each school that we touch will be provided with their own seed packet to take home and start a pollinator meadow garden in their own yard. In this way we envision creating hundreds or even thousands of small meadow oases throughout our region.

The Pocket Meadow initiative will extend beyond the schoolyard. Beginning in 2015 we will educate Preserve members and guests about the many benefits of meadows through our educational offerings. We plan to create a Pocket Meadow-in-a-Box to be offered for sale at our annual native plant sales, so that our guests have the tools and materials to create their own meadow that will in turn provide food and habitat and ecosystem services for wildlife, especially insect pollinators and birds. It is in this living classroom, the Pocket meadow, rather than inside four walls, that the greatest lessons can be found. When we spend time in the natural world, when we engage all of our senses—as well as our imagination and our creativity—then we can learn again how to be part of this place, and how to be better stewards of the world in which we live. I hope we can count on your help as we reach beyond our fence with this ambitious and visionary project. Together we really can make a difference, one Pocket Meadow at a time.

- Miles Arnott, Executive Director

Native Plant Sales to Continue All Season

Bowman's Hill Wildflower Preserve is your premier source for high-quality nursery grown native plants. For over twenty years we've been your destination for a diverse selection of over 200 species of responsibly grown plants native to this region. The Preserve is an excellent source for both common and rare native plants, including: spring ephemerals, woodland understory plants, and pollinator plants. Our knowledgeable propagation team collects seed from our own plant collection, offering you a chance to take a bit of the Wildflower Preserve home to enjoy in your own garden.

Now, thanks to recent upgrades to our Nursery Facility, you can keep shopping all season long! For many years our plant sales were limited to Spring and Fall, but this is no longer the case. While our Member Preview Sales will always have the greatest availability, we'll continue to restock the sales floor all summer as plants hit their peak. You can check our website for regular updates to our Native Plant availability.

Shop the Preserve and reap the benefits of planting a native plant garden. When sited properly to fit your growing conditions, our plants provide beauty with little or no maintenance required. Most importantly, the species offer food and cover that benefit the birds, butterflies, and other insects that help a garden truly come to life. Our staff and volunteers are here to help you make the best selections to fit your needs, or learn more about gardening sustainably with natives at one of our many educational programs. Think of us first for your native plant needs!

New in the Twinleaf Shop

Summer is here! Check out what everyone is buzzing about in the Twinleaf Gift Shop. We had some wonderful speakers at the Land Ethics Symposium that spoke about pollinators, insects and much more. We love our pollinators! Come and check out the books we have on attracting pollinators and farming with beneficial insects. Honey Bee shirts and hats are here too.

We have added a few new finger puppets that provide hours of fun and imagination. The Firefly is one of the new favorites...his tail lights up! They make great gifts for children...and adults too.

Looking for the perfect gift? We have beautiful scarves with flowers, owls, hummingbirds and more. Perhaps dragonfly earrings and a bracelet would be just the right thing? We look forward to seeing you soon!



Find us on Social Media

Stay connected with us! Twitter: @Bowmans_Hill_WP

Instagram:@wildflowerpreserve

Facebook: facebook.com/ BowmansHillWildflowerPreserve

Post and share your observations & photos with: #BHWP #PlantNative #bowmanshillwildflowerpreserve

People

Meet Our New Summer Interns

We are pleased to welcome two enthusiastic students as our 2015 Summer Interns: Pamela Gilligan and Kimberly Nolan.

Pamela Gilligan hails from Flemington, NJ and just completed her second year in Environmental Studies at Ramapo College. Pamela grew up participating in 4-H and is an active volunteer at MEVO (Mahwah Environmental Volunteers Organization) where she educates the community about the merits of beekeeping and organic gardening. She is most excited about the emphasis the Preserve puts on education and feels her time here will help prepare her for the environmental work she hopes to do upon graduation. She also looks forward to, "learning all about the different types of native plants and how to identify them at the preserve. I would love to bring the connection back to people and nature by sharing my passion of the environment with them, and by teaching people the important role nature has on our lives."

Kimberly Nolan, a native of Collegeville, PA, is a senior and Resident Advisor at Ursinus College where she's a double major in Environmental Studies and Spanish. She spends her spare time categorizing, measuring and planting trees, removing invasives and selling organic vegetables at the campus farm stand. Kimberly has been a lifelong "tree hugger" whose life calling is to inspire others to love, nurture and care for the environment. As for her internship at the Preserve, she is most excited to, "become well versed in native plants and spend a summer getting my hands dirty!"

Welcome Kimberly and Pamela!

- Kelly Joslin



Kimberly Nolan



Pamela Gilligan

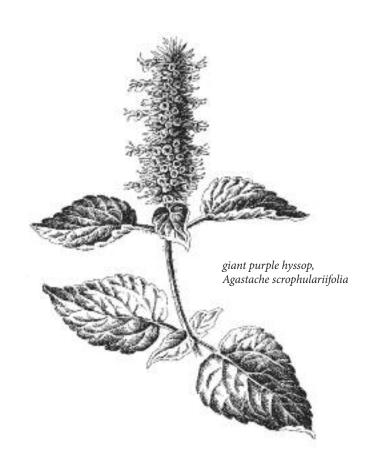
Volunteer Naturalist Opportunities Now Available

Programs at the Preserve continue to grow exponentially and we are now accepting applications for Volunteer Naturalists. Applicants should have an interest in the outdoors and experience working with children. Knowledge of local flora, fauna, and ecological principles desired, but not necessary. Training will be provided. Interested candidates should contact Volunteer Coordinator Trish McGuire, mcguire@bhwp.org, for application information.

Special Thanks

Special thanks and recognition go to Pat Saunders for becoming our first Volunteer Mentor.

Pat will be instrumental in welcoming new Propagation Volunteers and assisting with their orientation and training. With Pat's help we will be able to grow our team which is needed to handle our expanded Nursery propagation work.







Calendar of Events

June - December 2015



Nature Rangers Summer Camp

Register now for our action-packed Summer Camps!

Campers will explore the marvels of nature as they learn and play amidst our 100+ acres of ponds, meadow, and forest. Budding scientists are encouraged to uncover the mysteries of the natural world through active hands-on explorations, creative problem solving, and inquiry-based learning. Each sessionincludes games, hikes, experiments, art projects, and observations of animals and plants. Camp is staffed with experienced educators with a passion for & knowledge of the natural world. Space is limited.

Session 1 - Ages 8 - 11: Mon., July 6 - Fri., July 10, 9:30 a.m. - 3:30 p.m. Session 2 - Ages 6 - 7: Mon., July 20 - Fri., July 24, 9:30 a.m. - 3:30 p.m. Members: \$275; Non-members: \$325

Certified Interpretive Guide Workshop

Tuesday, November 3 - Friday, November 6, 8:00 a.m. - 4:30 p.m. Fee: \$310 for NAI Members; \$360 non- NAI members

Bowman's Hill Wildflower Preserve, in partnership with the National Association for Interpretation (NAI), is offering a professional certification course for individuals who deliver interpretive programs or have public contact at interpretive sites. The Certified Interpretive Guide program is designed for anyone who delivers interpretive programs to the public. It combines both the theoretical foundations of the profession with practical skills in delivering quality interpretive programming to visitors.

This 32-hour course includes:

- history, definition, and principles of interpretation
- making your programs purposeful, enjoyable, relevant, organized, and thematic
- using tangible objects to connect audiences to intangible ideas and universal concepts in interpretive programs
- presentation and communication skills
- certification requirements (open book exam; program outline; 10-min. presentation)
- all materials, workbook, and CIG course textbook

The workshop will be facilitated by Certified Interpretive Trainers Maggie Strucker and Ian Kindle of DCNR. Please visit our website for registration information.

Program fees include admission to the Preserve. For more information or to register, call (215) 862-2924.

Community Open House & Discovery Day Saturday

Saturday, September 19, noon - 5:00 p.m. FREE - ALL AGES!

Visit us for a free admission Open House. This family friendly event will include special walks with a Naturalist along with self-guided activities and an art project in the Visitor Center. Our grounds will be open to

explore during this drop-in day. Bring your family, friends and neighbors.

Find out more online at:

bhwp.org/special-events/Discovery-Day.htm



Native Plant Sale Fall Members' Preview Sale

Friday, September 11, 2015

Noon - 5:00 p.m.

Our sales floor will be restocked with a wide assortment of Nursery Grown Native Plants. Preserve Members Only on Preview Day!

Nature Explorations

Morning Meadow Tours

Wednesdays, July 22 through September 9, 10:00 – 11:00 a.m. Members: Free; Non-members: Included with Preserve admission. Pre-registration suggested.

Amidst a sea of waving green grasses, native bees and butterflies gather nectar or pollen from milkweeds, mints, bonesets and coneflowers. Before the day heats up, take a guided tour of our five-acre meadow to learn about native warm season grasses, meadow ecology and plant-pollinator interactions. This vigorous walk leaves from the Visitor Center.

North American Butterfly Association (NABA) Butterfly Count

Saturday, July 18, 10:00 a.m. - 4:00 p.m.

\$3 per participant, all proceeds will be donated to the North American Butterfly Association. Pre-registration suggested.

Join us for an all-day event focusing on our fluttering friends. Why count butterflies? It helps scientists piece together the big picture of the distribution and population size of each species counted, including changes over time. And it's fun! You'll learn to identify the different types of butterflies and the native plants they utilize at the Preserve. Please bring binoculars, or a camera with a zoom lens, and a

field guide, if available. Make sure you have plenty of water, snacks, and appropriate sun protection. Join us for all or part of the day; all experience levels are welcome, from beginners to experienced butterfliers. Please meet the group at the Visitor Center.



photo by Tom Potterfield

Butterflies of BHWP

Saturday, August 8, 10 a.m. – Noon Members: \$8; Non-members: \$10

Over 50 species of beautiful butterflies can be seen at Bowman's Hill Wildflower Preserve. Learn about the lifestyles of some of the common and uncommon species that make their home here, and what makes this such a special place for butterflies. Naturalist Mary Anne Borge leads this indoor presentation followed by outdoor exploration.

Medicinal Trail Plant Walk

Saturday, July 11th, 1:00 – 2:30 p.m. Members: \$5; Non-members: \$7

Plants have historically played a critical role in our health and wellness. Join Pat Coleman as we venture out to the Medicinal Trail, a very special woodland retreat tucked in a quiet corner of the Preserve. We will look for some of the most cherished medicinal herbs and talk about their history and their uses. We are likely to encounter a few "uncherished" plants along the way that also have impressive medicinal reputations.

Pat Coleman is a volunteer naturalist at the Preserve and a home herbalist who has been studying medicinal uses of plants for several years.



National Moth Week: Moth Mania! Thursday, July 23, 8:30 - 10:00 p.m. \$3 per participant, Advance registration suggested.

Join Elena Tartaglia, PhD to explore nighttime nature! This program is part of the citizen science project, National Moth Week (July 18-26, 2015). We'll start the program with a presentation about the important role of moths in the ecosystem

and then head out for up-close

observation of the fascinating insects attracted to a black light in our meadow. All ages and experience levels are welcome.

National Moth Week (NMW) is a week-long, global mothing event to promote the understanding and enjoyment of moths and to raise awareness about biodiversity. NMW is a project of the Friends of the East Brunswick Environmental Commission (Friends of EBEC), a 501c-3 nonprofit organization. For more information about NMW, visit www.nationalmothweek.org

Hawks in Autumn, An I.D. Workshop

Saturday, August 8, 2:00 – 4:00 p.m. Members: \$20; Non-members: \$25 Register by August 6

Seeing a raptor in flight brings excitement to every birder, but putting a name to that raptor can often be problematic. Perched raptors can be even more difficult to ID. This PowerPoint presentation will discuss all of Pennsylvania's (and NJ's) expected fall hawks and eagles emphasizing the most difficult ID challenges using outstanding images by great photographers.

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

Mindful Meandering

Wednesdays: September 16 through October 21, 10:00-11:00 a.m. Members: \$3; Non-members: \$6. Pre-registration encouraged.

Modern life requires, and rewards, multi-tasking. However, we miss out on fully experiencing the moment when our attention is scattered. Join us on these weekly walks to reconnect with nature and yourself. Mindfulness is the practice of deliberately attending to the present and accepting it without judgment. Being in nature brings many of us into the present more easily than other settings. Walks at the Preserve will support the practice of mindfulness with our time spent in awareness and appreciation of whatever nature presents us that day. Designed as a drop-in series: dress for the weather and wear sturdy walking shoes.

Nancy Neff is a licensed physical therapist and volunteer Naturalist at the Preserve. She practices mindfulness to enrich her own life.

NEW Winter Solstice Walk

Tuesday, December 22, 10-11:30 a.m.

Members: \$5; Non-members: \$7

Instead of hunkering down and bemoaning the longest night of the year — also known as the winter solstice — celebrate with a stroll through the Preserve with Education Coordinator Kelly Joslin. 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.



Perennial Garden Design with Native Plants 2 Saturdays, August 22 & August 29, 1:00 – 4:00 p.m.

Series Fee: Members: \$65; Non-members: \$75. Pre-registration required by Tuesday, August 18.

Learn the basics of perennial garden design from a professional! Develop a garden plan of your own that fits your site conditions and helps attract birds, butterflies and bees. Discuss your ideas, ask questions, and get suggestions. A materials list will be given to registered participants prior to the start of the series.

Beverly Auvil owns her own landscape design business specializing in native plants. Forty years of hiking and gardening, plus degrees from The Rhode Island School of Design and Delaware Valley College, help her understand the natural world and how to bring it to your yard.

Knowing Native Plants Series

Saturdays, time varies

Members: \$15; Non-members, \$20. Advance registration suggested.

Meadows - July 25, 10:00 a.m. - 1:00 p.m.

Come discover the Preserve's five-acre meadow. See native meadow plant species, including wildflowers and grasses, and learn about meadow successional stages. Find out why it is important to plant native grasses and avoid some popular non-native ornamental grasses that have escaped from cultivation. Presentation/discussion followed by an outdoor tour. Instructor: Mary Anne Borge

Amazing Asters - September 12, 10:00 a.m. - 1:00 p.m.

Fall is peak bloom time for members of the Aster family. Explore our woods and meadows to discover asters, goldenrods, bonesets, coneflowers, tickseeds, and other yellow composites. We'll look for signs of the relationships these plants have with the insects, birds, and other animals that depend on them. Presentation/discussion followed by an outdoor tour. Instructor: Mary Anne Borge

Trees of the Preserve - October 10, 1:00 - 4:00 p.m.

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? The class will cover these topics and more, as well as provide tips on how to identify the trees of the Preserve, both deciduous and evergreen. Presentation/discussion followed by outdoor tour. Instructor: Mary Anne Borge

From Flowers to Seeds - November 7, 10:00 a.m. - 1:00 p.m.

How do angiosperms reproduce sexually? Get the answer to that question by discussing the life cycle of flowering plants from pollination to fruit/seed dispersal. General anatomy of flowers will be covered, and 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 the various types of native plant fruits and examples of how they provide nutrition for wildlife. Presentation/discussion followed by an outdoor tour. Instructor: Ed Lignowski, PhD.

Growing Native Plants: Seed Collecting

Saturday, October 31, 10:00 a.m. - noon

Members: \$20; Non-members, \$25. Advance registration suggested.

So many beautiful wildflowers...now let's look at their seeds! Take advantage of the expertise of Preserve Nursery Manager Bob Mahler and learn how to collect seed from the plants in your own backyard. This class will take you through the steps needed for successfully and responsibly collecting native plant seeds. Timing of seed collection, as well as techniques and supplies suggested for seed storage and cleaning, will also be covered. Participants will take home a packet of native seeds.

Worms are Wonderful: Vermicomposting Workshop

Saturday, September 26, 1:30 - 3:30 p.m.

Members: \$12, Non-members: \$16; Registration is required by Thursday, September 24.

This is a basic workshop for people new to indoor worm composting. Learn about different types of worms (specifically *Eisenia fetida*), their life cycle and reproductive system. Then get your hands dirty and create your own vermicomposting bins, adding the appropriate food, bedding and worms. Learn about the care and maintenance of the bin in your home. It's a lot of fun, a little messy, and you get to play with worms! Bring a dark colored 10 or 18 gallon plastic bin (not translucent) with a lid. Note: these are not outdoor worms; the bin will need to be kept indoors in a temperature range of 55 to 80 degrees.

Instructor Susan Harrison has been vermicomposting for 11 years. She is certified as a Penn State Master Gardener, Bucks County Extension, with a focus on entomology.

Kids & Family Programs

Children's Summer Reading

Every Thursday through August 20, 10:00 - 11:15 a.m.

Members: Free; Non-members: \$7 for one child with adult + \$3 for each additional child. Registration required the Tuesday prior to each.

Explore - Read - Connect to nature! Each week we'll read exciting books about the outdoors, take hikes in search of the plants &critters in our stories, and make nature crafts to take home. For ages 3 to 8. Children must be accompanied by an adult. Each session is unique!

Family Bug Walk

Thursday, July 11, 10:00 a.m. - Noon

Members: \$5; Non-members: \$8

Join insect enthusiast, Diane Cameron, for a hands-on educational program all about insects. We will find out where insects live and what they eat. As part of your program fee, you will get a bug box in which to catch the bugs you find. We will build an insect zoo, to get a close-up look at our arthropod friends, and then release them all at the end of the program. Learn to make insect collecting containers out of recycled materials, and learn about insect field guides. For ages 5 +.

National S'more Day Celebration

Friday, August 7, 7:00 - 8:30 p.m.

Members: \$5; Non-members: \$8. Register by August 5.

There is no better way to celebrate National S'more Day than by making your own around the fire! Bring the entire family out for a night around the campfire where we'll share stories and make s'mores. Program takes place at the Pavillion.



NEW Nature at Night FAMILIES!

Saturday, September 12, 7:00 - 8:30 p.m.

Members: \$5/adult, \$3/child; Non-members: \$8/adult, \$6/child. Registration required by Thursday, September 10.

Nocturnal nature is full of beauty and mystery and September is a great time to discover the fascinating life history of creatures big and small. Bring a flashlight or headlamp and we will search the meadow for signs of nocturnal nature, including the most industrious of them all – spiders!

From Friendly Flowers to Friction Fire

Saturday, October 17, 1:00 - 3:00 p.m.

Members: \$6 adult/\$4 child, Non-members: \$10 adult/\$8 child. Registration required by Thursday, October 15.

Wildflowers are great to enjoy in season, but what about in winter months? Learn about the science & art of friction firemaking. Join us for a demo of friction fire methods from around the world. Great program for Scouts! Held outdoors in the Pavilion. Dress for the weather and bring a folding chair.

Joseph Lau, RN, is the founder of Phyre Dojo and is a friction fire expert and plant enthusiast. He is a former Boy Scout and Wilderness Survival School instructor.

Nature Buddies

Thursdays, from 10 - 11:15 a.m.

Members: Free; Non-members: \$7 for one child with adult + \$3 for each additional child. Registration required by the Tuesday prior to each program.

Nature Buddies programs include a story, an outdoor walk, and a take-home craft. This program is appropriate for ages 3 through 7. Children must be accompanied by an adult. Walks are weather dependent – please dress for the weather.

Nuts to You! - September 17

The comical ways of bushy-tailed tree planters.

Nature's Recyclers - October 1

Explore a rotten log and discover the roles played by the unsung heroes of nature – the decomposers.

Fall Into Autumn - October 15

Fall in love with fantastic fall foliage!

Sensational Seeds - October 29

Discover the magic of the "sleeping" seed.

Winter Sleepers - November 12

Migrate - Sleep - Adapt How do plants & animals prepare for winter?

Magnificent Monarchs FAMILIES!

Saturday, September 12, 2:00 - 4:00 p.m.

Members: \$6/adult, \$4/child; Non-members: \$10/adult, \$8/child.

America's best-loved butterfly is in serious trouble and needs our help. Diane Cameron will share her knowledge about the amazing migration of the Monarch butterfly, its life-cycle, why it is in decline, and what you can do to help. Head out into our meadow to look at the monarch host plant, milkweed; and search for eggs, caterpillars, and adult butterflies. Diane will also discuss and demonstrate Monarch Watch butterfly tagging, which helps track the butterflies through their migration. For ages 5 and up. Space is limited to 20 participants.

Diane Cameron is an educator, naturalist, and insect enthusiast. She enjoys spending time outdoors in the warmer months of the year, looking for insects of all kinds. She is also involved in Monarch conservation, searching for, raising, tagging, and writing about monarch butterflies. While she is especially interested in butterflies and moths, almost any insect is fascinating to her, and she loves sharing her knowledge with others.

NEW! Woodland Fairy Tales

Saturday, October 3, 1:00 - 3:00 p.m.

Members: \$10 with non-paying adult; Non-Members: \$15 with non-paying adult. Register by October 1.

Don your fairy wings and join us for a magical afternoon as we journey through Penn's Woods to help our Fairy Queen find her friend the Frog Prince. Use natural materials to help create a special shelter for our woodland fairies. Program includes a story, art project, and snack by the pond.

NEW! Woodland Pumpkin Hunt

Saturday, October 24, 2:00 - 4:00 p.m.

Members: \$14 with non-paying adult; Non-members: \$17 with non-paying adult. Advance registration by October 20.

Take a magical journey in the woods though the eyes of Mousekin, as he prepares for the coming winter. We'll search for food, watch for predators, then find our own "golden house" to decorate and take home.

Art In Nature

NEW Leaf Printing Workshop

Saturday, October 10, 10:00 a.m. - Noon

Members: \$35; Non-members: \$45

Fall is a great time to collect leaves for craft projects or as a way to study plants. Artist Diane Podolsky will show you several different ways to print the leaves you collect and make a wonderful piece of art to take home. Diane will have plenty of leaves available but feel free to bring your own as well. All supplies included. Participants should wear clothing suitable for creating art. This is a great activity for families (age 7 & up) and adults. For children that would like to register without an adult the minimum age is 13.

Diane Podolsky is a printmaker based in Philadelphia and teaches printing techniques through several programs in the tri-state area.

NEW Make & Take: Beautiful Bog Bouquet

Saturday, October 24, 10 a.m. - Noon

Members: \$35; Non-members: \$45

It may be hard to believe but carnivorous plants can make a beautiful, long-lasting tabletop arrangement. Join us for this hands-on workshop with "Bog Man" John Mark Courtney of Aquascapes, Unlimited as he helps you create a unique bouquet from pitcher plants and other native bog plants. All materials are provided.

Wreath Workshop

Saturday, December 5, 10 a.m. - noon

Members: \$55; Non-members: \$60, including all materials. Registration with payment required by Wednesday, December 3.

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 will lead the workshop with step-by-step demonstration and hands-on instruction to help you create a work of art that you'll be proud to display during the holiday season. Space is limited, so register early.

Natural Crafts FAMILIES!

Saturday, December 12, 3:00 - 4:30 p.m.

Members: \$6/adult, \$4/child; Non-members: \$10/adult, \$8/child. Advance registration required by Thursday, December 10.

Creating beautiful ornaments from found objects offers a rustic and natural feel when decorating your home and tree. We will make four fun, whimsical ornaments using seed pods, pine cones, nuts and other natural materials found in and near the Preserve. All materials provided. Please bring a container to carry your ornaments home in.



Dragonfly I.D. Workshop

Sat., August 15, 10a.m. – 1 p.m. Members: \$15; Non-member: \$20

Learn about the fascinating world of dragonflies from one of the masters in the field. Dr. Mike May will teach you about the basics of what members of the Odonata family are, their life cycle and behavior, and give you an inside glimpse into his research. Program includes a presentation indoors and a

journey outside to search for adult and larva. Binoculars are helpful but not required.

Mike May grew up in Florida and began collecting insects at a young age. His interest in dragonflies peaked in graduate school at the U. of Florida where he earned his Ph.D. He spent 3 years on postdoctoral appointments in Panama and the University of Illinois. He retired from Rutgers in 2012 but still advises two graduate students and does research on dragonflies. He is coauthor of two books: Damselflies of North America and A Manual of the Dragonflies of North America, and author/co-author of more than 60 scientific papers. He also is Editor of The International Journal of Odonatology and is deeply involved in the Xerces Society's Migratory Dragonfly Project (www.migratorydragonflypartnership.org).

PSI Master Class: Goldenrods & Asters

Wednesday, September 23, 9:30 a.m. - 12:30 p.m.

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

Join Dr. Ann Rhodes as she focuses on the asters and goldenrods of our area. Program includes a Powerpoint presentation and hands-on time to examine live specimens of as many species as possible. Time permitting, we'll conclude with a walk outside to look at species growing at the Preserve.

Ann Rhodes is a botanist recently retired from 36 years of employment at the Morris Arboretum of the University of Pennsylvania. She co-authored The Plants of Pennsylvania, An Illustrated Manual, with Dr. Timothy A. Block.

Ecology and Conservation

Perimeter Walk

Sat., October 3, 10 a.m. – noon Members: \$6; Non-members: \$10. Registration required by October 1.

The Preserve would look very different without our 10 ft. tall deer fence. Have you ever wondered what lies along the edge of such a significant perimeter that encompasses nearly 100-acres of pristine and diverse woodland habitat? Join Grounds Manager Rick Fonda 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 & wear sturdy hiking shoes appropriate for possible wet terrain.

Weed Patrol

Saturdays from 9:30 a.m. - noon

July 11, August 8, September 19, October 24

FREE. Pre-registration suggested.

Join Grounds Manager Rick Fonda for a fun morning out in the woods. Learn to identify native and non-native plants, and how to remove and dispose of invasive species properly. Your efforts will help to protect our collections of rare and endangered plant species. Groups, individuals and families welcome. Gloves and tools supplied or bring your own. Weather dependent. Call to register or email Trish McGuire at mcguire@bhwp.org.

Special Thanks to our Earth Day Work Day Volunteers



Volunteers and staff honored Earth Day at the Preserve on Saturday April 11th. This year's projects were focused on trail improvement, maintaining key habitat areas, and overhauling our Native Plant Nursery propagation yard.

If you're walking the trails, you're likely to notice that several have been resurfaced with stone or mulch. This isn't an easy task, as the materials have to be hauled in with wheelbarrows and spread with shovels and rakes. While you meander through the Preserve you may also notice areas of restoration

such as the pocket meadow on the upper Marsh Marigold Trail and the far loop at the end of the Parry Trail. Volunteers dug out invasive plants and strategically planted native species, including mistflower and black-eyed susan, to jump-start the pocket meadow. Our Old Pond also enjoyed some pampering as volunteers removed sediment from the streambed and improved the bluestone bridge. Our trailhead and information signs were cleaned and leaves were raked away from stairs and benches, which now beckon to be used. One of our treasured areas, the Rot Plot, loved by children of all ages, was refreshed with new mulch, logs and tree trunks for little critters, such as the Eastern red backed salamander, to call home.

We can't thank our Earth Day Work Day participants enough! The team included twenty five of our dedicated volunteers plus fifty new volunteers. Volunteer Jean Barrell summed up the day this way: "Restoring the pocket meadow was really fun. The Marsh Marigold Trail is one of my favorites and today we improved habitat for our native birds and pollinators. It was a great experience and I'm really excited to see how the meadow fills in over the years."



Earth Day volunteers at work on the upper portion of the Marsh Marigold trail.



Photos by Emily Churchill.

We also thank our sponsors; GIANT in New Hope donated the most incredible sheet cake and gave us a gift card toward our delicious hoagies. Bucks Ice Cream and Espresso Bar in Lambertville donated locally roasted coffee beans for our early morning wake up. The Preserve looks amazing thanks to everyone's efforts!

Preserve hosts Annual Donor Recognition Event

We hosted our annual Donor Recognition event Sunday, March 15 to recognize the generosity of our 2014 donors and upper level members. Board Chair Allison Hamilton and Executive Director Miles Arnott welcomed guests and provided an update on 2015 activities, educational programs, and projects. State Representative Scott Petri shared kind comments about the Preserve, calling it a "model for the state." A lively discussion followed their remarks. We'd like to thank our supporters that were able to attend this year's event. We're grateful for the opportunity to recognize the many individuals that help sustain the Preserve.

We extend our sincere appreciation to Colonial Farms for their generous sponsorship of the Donor Recognition Event!



State Representative Scott Petri with President of the Preserve's Board of Trustees, Allison Hamilton.

Land Ethics Award (continued from front cover)

The 2015 Land Ethics Award Winners are:

Public Space Category: Longwood Gardens Meadow Garden Expansion Group Category: Ralph "Ozzie" Oswald and Buckingham Friends School Residential Category: Jules Bruck and Sue Barton, Applecross Award of Merit: Ray Dombrowski & Colleen DeMorat

Public Space Category: Longwood Gardens Meadow Garden Expansion The Land Ethics Award was presented to Longwood Gardens for their Meadow Garden Expansion that opened in June 2014. Spanning 86-acres, the Meadow Garden showcases native plantings and highlights the relationship between the human and natural worlds. Both sustainably managed and visually artistic, the Meadow Garden blends colorful plantings and grand vistas with best practices in land stewardship.



Horticulture staff members from Longwood Gardens accept the Land Ethics Award for the Meadow Garden Expansion from Director Miles Arnott.

The Land Ethics Award Jury commented that Longwood's, "large scale Meadow project has it all: a sweeping landscape, a huge educational

component, and the resources to maintain the area." The judges were particularly impressed by Longwood's use of corridors to link their meadow habitat to 700 acres of extant natural lands. The jury also admired the, "innovative learning pavilion where guests can not only view the beauty before them but learn how they can turn their home gardens into sustainable enclaves as well."

Group Category: Ralph "Ozzie" Oswald and Buckingham Friends School

Ralph "Ozzie" Oswald and Buckingham Friends School received the Group Award for their work on forest regeneration on the school grounds. Founded in 1794, Buckingham Friends School in Lahaska, PA is a Quaker day school for grades K-8. The 44 acre campus provides both traditional classroom & outdoor experiential learning. Approximately 30 acres of the site are wooded with a series of marked trails throughout.



Mark Gallagher of Princeton Hydro accepts a Certificate of Merit.

In 2013 the woodlands were suffering due to gypsy moth infestations, disease, aging, torrential rains, Superstorm Sandy, and over-browsing by deer. Under the leadership of Mr. Oswald, students and community volunteers began work on a 10 year forest regeneration and management plan. They have removed invasive plants, implemented erosion control measures, identified and protected young tree seedlings, planted new trees, and installed deer protection fencing. Each grade is assigned an area of campus and a section of trail that they maintain throughout their school career. In the process they study plant life, soil, erosion, and environmental issues. By involving the entire school community in the program, the hope is to have both students and their parents better understand their environment and aid in its improvement and maintenance.

Residential Category: Jules Bruck and Sue Barton, Applecross

In the residential category, the Land Ethics Award was presented to Sue Barton and Jules Bruck of the University of Delaware for the Applecross residential demonstration project. The project was commended for serving as a model for suburban residential properties. Designed and installed by researchers and students at the University of Delaware, a project goal was to introduce ecosystem services to a typical suburban residential yard, keeping in mind the homeowner's desire to maintain a sense of community and overall curb appeal. Although the design incorporates a 6,000-square-foot meadow and a 3,000-square-foot reforestation area it maintains enough mowed lawn for play and entertaining. "The idea was to show people that you can incorporate a meadow and a forest into a residential landscape," said Sue Barton, associate professor of plant and soil sciences at UD. "Almost all the plants are native and they're quite showy. Sometimes native plants have a connotation of being less formal, less colorful, a compromise, and they're not a compromise at all. It's a very dramatic landscape. There's almost always something blooming," said Barton. The awards jury was impressed with how this project, "clearly demonstrates what can happen when several partners collaborate to change a sterile home landscape into one of environmental value."



Students at Buckingham Friends School install tree protection on a young tree seedling.

Award of Merit: Ray Dombrowski & Colleen DeMorat

An Award of Merit was given to Ray Dombrowski & Colleen DeMorat for their stormwater basin and yard naturalization on a residential property in Chester County, PA.

Special thanks to our 2015 Land Ethics Award jury: Don Borden, adjunct professor of environmental design at Delaware Valley College; James Bray, Chairman of the Lower Makefield Township Environmental Advisory Council; and Pam Newitt, Naturalist, Trustee and educator.

Membership

Welcome New Members

Special thanks to all of you who have joined the Preserve Family in the late winter and spring.

Susan Alexander Nora Allen **James Badeaux** Katherine Baker Kathleen Bascio Laura Beaumont Will Belcher Steve Bimson Susan Bingler Kimberly Brennan Jeffrey A. Buckwalter Richard Chang Ellen Coleman Nancy K. Comley **David Cunning** Lisa Davis Kristina Debreczeni Florence W. Deems Lynette DElia Marian Disken Pamela Dolan Charles Duer Jennifer Erskine Ronald Fagan Emma Fowler Shannon Fredebaugh-Siller Marianne Gardoski Nancy Gaspari Joseph Gilbo Sharon Girvan

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Alison McIntyre Sarah Milam Chris Molnar Teresa Moorhead Lara Mraz Ashley Neild Mary Normandia Barbara Peirce Krusen Barbara A. Price Shiv Raman Roy Reinard Lori Rhoades Renee Sanding Dawn M. Scheppach Jo Schuler Charles Schumacher Jennifer Skitt Walter Small Karen Smokonich Sudi Solomon Jeff Spear Dave Stahl Michael Strengari Vicki Szilagyi Mark Titus Monika Tomczuk Tom Troske Jon Wong Megan Zaporowski Forrest Zetterberg

Tracy McIlhinney

Membership Makes a Difference!

We are pleased to welcome a new group of members into the Preserve Family. It's the support of our donors and members that enables us to protect and preserve this special place. For that we thank you! If you were a member in 2014 but haven't had an opportunity to renew your membership for 2015, please be sure to complete and return the enclosed remittance envelope or visit the membership page of our website to stay current. This edition of *Twinleaf* will be the last Newsletter mailing for those that have not renewed for 2015.

If you have any questions about your membership please call or send an email to: pennington@bhwp.org.

Thank you.

Jennifer Pennington, Membership Coordinator



Support the Annual Fund

Dear Friend of the Preserve,

Bowman's Hill Wildflower Preserve brings us closer to nature. It is a special place like no other to connect with the natural world and learn how to be better stewards of the earth that we share with our fellow living creatures.

Nature speaks to each one of us in our own special way. Whether it is through a quiet mindfulness walk in a remote corner of the Preserve, or experiencing the wonder of nature through the eyes of a child or grandchild, the Preserve provides the opportunity to meander through a diverse meadow and study how pollinators interact with native plants, observe dragonflies hunting mosquitoes at the pond, hear the flute-like song of a wood thrush, and experience the sweet scent of fringe tree blossoms in the spring air. You can find so many meaningful experiences here at the Preserve to enrich your life and reconnect with nature, and we are striving to do even more...

With your help we are reaching beyond our fence to inspire action, change behavior, and share our mission in exciting new ways. Our Pocket Meadow initiative seeks to bring the magic of meadows to schoolyards throughout the region and introduce the concept of plant animal interactions to children and teachers, all while providing critical habitat for our native pollinators.

The Preserve's native plant nursery is buzzing with activity after the first phase of a major renovation – a big step toward our own financial sustainability and our goal of providing an expanding diversity of native plants for home landscapes and restoration projects throughout our region.

We are so grateful to our members, volunteers and donors for your ongoing support of our mission and for being part of the Preserve. We hope you will make a generous gift to our Annual Fund in support of the important work we do at the Preserve. Annual Fund contributions help us to enhance our trails, provide innovative educational programs for all ages, interpret our native plant collection, and reach beyond our fence to support our mission, which is:

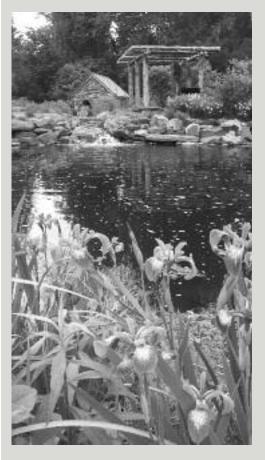
Bowman's Hill Wildflower Preserve inspires the appreciation and use of native plants by serving as a sanctuary and an educational resource for conservation and stewardship.

Your gift to the Preserve is more important than ever. Thank you for your involvement and support!

Sincerely,

trumpet honeysuckle, Lonicera sempervirens 4 Mil State

A. Miles Arnott Executive Director



Study nature, love nature, stay close to nature.
It will never fail you.
- Frank Lloyd Wright







Mike and Donna Lacey



The Ludwig - Popowich Group



Dick and Sally Henriques

Mark and Julia Klossner



Lisa Schuler and Andrea Hansen

Deborah and Jim Newbold

12th Annual Spring Garden Gala **Celebrates Magic of Meadows**

The 12th Annual Wild About Flowers Spring Garden Gala celebrated the "Magic in the Meadow" and the wonderful diversity of life it sustains, with emphasis on pollinators and the important ecological role that they play. The Preserve's own meadow is a living classroom that highlights the interconnectedness of all life while serving as a place of inspiration and insight. Thus we turned our attention to meadows at our annual Wild About Flowers Spring Garden Gala which took place on Saturday, April 25, 2015. Gala attendees, attired in "black tie and muck boots," enjoyed an elegant evening and raised record funds to benefit our meadows initiative.

Deborah Agnew and Susan Vigilante served as co-chairs for this special fundraising event, which was held for a sold out crowd of nearly 350 guests! As guests arrived, they were invited to place their bids in the fabulous silent auction. Specimen flowering trees, unique experiences and one-of-a-kind items were featured as well as a special exhibit of photo prints by local nature photographers: Jean Barrell, Mary Anne Borge, Laura Brandt, Steve Brown, Gerry DeWaghe, Kathy DiTanna, Howard Eskin, Jim Greenwood, Leslie Vought Kuenne, Donna Lovely, Gordon Nieburg, Anastazja Panek-Tobin, Tom Potterfield and Carol Ross. The Bucks County Trolley provided transportation to the Visitor Center for self-guided walks and naturalist led tours.

The woodland wildflowers were at their peak of perfection! Event designer Rusty Thomas "wowed" guests with gorgeous décor and dramatic lighting to create an atmosphere of magic in the meadow inside the dining tent. The Preserve's meadow came to life with beautiful lanterns and native flora. The hors d'oeuvres, dinner, and dessert featured locally grown and organic selections prepared by Max Hansen Caterer. Aaron Newitt played piano and Chris Blasucci was on guitar to entertain guests during dinner. Later, guests danced the night away to the music of LNL Entertainment.

Jim Greenwood and Larry Keller served as auctioneers for the live auction, with Miles Arnott and Lori Hoppmann assisting. In addition to the live auction items, a special "raise your paddle" bidding effort was made to raise funds for pocket meadows and educational programs. In total, this year's gala was the best ever for the Preserve, raising over \$140,000! The Wild About Flowers Spring Garden Gala continues to be the party of the year! We extend our deepest appreciation to the sponsors, guests and volunteers that make this event a wild success.





Deborah Agnew, Miles Arnott and Susan Vigilante



Evy and Ted Inoue

Alison Hargreaves, Naudain Sellers, Don and Sue Eavenson

The Preserve wishes to recognize and thank our event Sponsors:

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Jim Greenwood takes command of the live auction



Mary Ellen Maguire and Larry Keller



Jim Hamilton and Laura Rizio



Photos by Kevin York & Carol Ross



See pages 5 - 9 for our detailed

Calendar of Events.

Learn all about the programs planned for July -December, including:

Nature Rangers Summer Camp



WWFM The Classical Network

www.wwfm.org • 609-587-8989 1200 Old Trenton Road, West Windsor, NJ 08550

The Classical Network Supports Bowman's Hill Wildflower Preserve