



**PEEC**  
Pocono Environmental  
Education Center



Summer Solstice 2015

# Seasons

A Quarterly Publication to Advance Environmental Literacy



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**Pocono Environmental  
Education Center**

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## Seeing Red

By Allison Owczarczak

With forest fire suppression, global climate change and human disturbance in the forest, the red maple (*Acer rubrum*) has been expanding into new territory. Once restricted to swamps and wet lowlands, the red maple has become one of Eastern North America's most popular and prolific trees.

The red maple is seen by many as a "super generalist" which has helped its expansion. It can cope with a wide variety of soils, from the richest and water bogged to the poorest clay and shale filled soils that we have here at PEEC. The seeds of the red maple are samaras, a type of fruit that is often called whirlybirds or helicopters by children who catch them with delight as they rain down from April through July. This early seed dispersal gives the tree an advantage while food is plentiful, compared to the oaks whose mast ripens in late September through October when animals are busy preparing for the winter.

Red maple is an important forest tree for its wildlife value. White tailed deer, elk, moose, snowshoe hare and rabbit all browse upon it, as well as the beaver when the two ecotones meet. It comes as no surprise that red-winged black birds build their nests and roost in red maples that typically surround wetlands and swamps. The return of the red-winged blackbird is typically one to two weeks before the trees "bud" in spring (red maples "bud" about two weeks before sugar maple). It is of note that red maple is poisonous to horses and cattle even though wildlife can browse on it.

But all is not well with this new forest composition. Red Maples, though native, have invasive characteristics mentioned above: early maturity, high reproductive capacity, as well as a flexible germination strategy. Red maples thrive in human disturbed areas, as well as being shade tolerant. Oaks, on the other hand, are only moderately shade tolerant. Then there's precipitation distribution. Compared to oaks, maples have entirely different trait characteristics including thin, smooth bark and dense canopy. This dense canopy funnels rain down the smooth branches, and trunk directly into the underlying soils. In contrast, oaks have thick, cork-like, rough bark that does not channel precipitation and with a canopy that is less dense, the surrounding soil receives 3-9% more rain (Abrams MD 1998). This precipitation shift may potentially alter nutrient distribution, in turn, influencing plant distribution and growth, nutrient cycling and leeching losses through soil runoff. This might be a reason red maples can thrive in almost any soil while pushing out their competition. Stemflow can be 30-40 times more enriched than throughfall (Durocher 1990) due to the greater leechability of bark compared to leaves (Foster and Nicolson 1998) and the longer resistance time of stemflow along the tree's surface (Soulsby and Renolds 1994).

And what about the red maple being important to wildlife? While true, it is not a keystone or a foundation species as the oaks are. A 'foundation species' is defined as those which define a community's structure and function by creating locally stable conditions for other species and by modulating and stabilizing fundamental ecosystem processes (Ellison et al. 2005). Oaks

*Continued on Page 4*

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PEEC Staff Photos

## Message from the Executive Director

Jeff Rosalsky




Spring and summer bring new groups, new staff and new and positive improvements on the PEEC campus. Our changes and our growth are focused on enhancing the hands-on learning experience and introducing more students to the wonders of the natural world. Given the sustainability aspect of PEEC's mission, we are also mindful of building only when necessary and prudent resource use and reuse.

Recently PEEC inaugurated our "Trail for Everyone" which is on lower campus and provides PEEC with a 7<sup>th</sup> trail. The trail is marked with purple blazes and is wheelchair accessible, including accessible spotting scopes and a new stone fire pit. The new trail guide highlights interesting features and vantage points to be seen along the trail and we will shortly introduce new hand-on outdoor

"touch boxes," with pine cones, hickory nuts, deer bones and other items that might be found just beyond the edges of the trail. PA DCNR generously funded the project and worked with PEEC and the National Park Service to make it a reality.

PEEC has also begun installing sustainable energy systems on our upper campus cabins around the main building. There is a new photovoltaic solar array outside Cabin 0, Cabin 2 will be partially heated with thermal solar air heaters, Cabin 3 will incorporate a thermal solar hot water heater, and much more. We will also be installing monitoring equipment in the cabins so students in residence can see how much power they are using versus the power being produced by their system.

Once we engage students in the natural world and they understand the importance of preserving it, PEEC becomes the perfect field laboratory for showcasing new sustainable energy technology that demonstrates what we/ they can do. PEEC is real world testing; we have four dramatically different seasons, 25,000 annual visitors, limited maintenance staff, and smart students and teachers who spend days and nights here living with the systems. Our students take nothing at face value, and enjoy asking the challenging "how and why" questions about the technology. When we do our job well, the students begin dreaming, imagining and asking "what if we just...."




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# MOONLIT DRUMMING

**STARLIT DRUMMING:**  
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## Hiking and Biking the McDade Trail

By Sheri Bone

PEEC has six wonderful trails to hike, all for free, ranging from “The Trail for Everyone - Violet” (easy) to “Ridgeline Trail - Yellow” (moderately difficult). If you have hiked them all and are looking for something new, or want a trail on which you can hike and/or bike, then you may want to look into The McDade Trail.

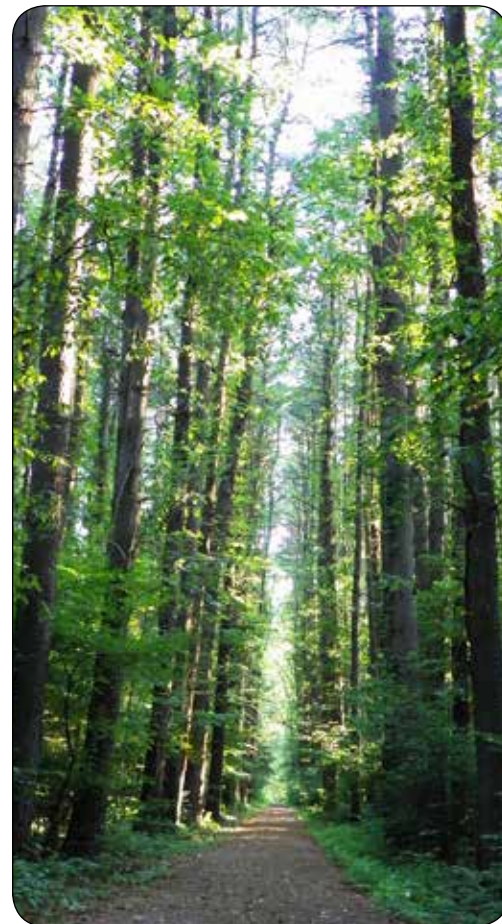
The McDade Trail is part of the Delaware Water Gap National Recreation Area (DWGNRA) and is located on the Pennsylvania side of the river. It follows the Delaware River (mostly) for thirty-two miles from Milford to the Hialeah Picnic Area. It is maintained by the National Park Service. There are parts that are wide with a gravel base, and there are parts that are narrow footpaths. It is not completely ‘flat’, but the hills are easily navigable by hikers and bicyclists. There are bridges that allow for crossing of most streams and gullies.

Just like PEEC trails, the McDade trail is free to hike! Dogs, on leashes, are welcome, too. (However, pets are restricted from beach areas while they are open to the public.) No motorized vehicles are permitted on this trail, and it is open to cross country skiers and snowshoeing hikers during the winter.

Access to the trail can be found along Route 209 in many places. Sometimes access points are as close as one-half mile, but sometimes they are up to five miles apart. Some of the access points correspond to pick-up and drop-off points of the Pocono Pony.

The Pocono Pony is a bus/shuttle service provided by the Monroe County Transit Authority (MCTA). For the past five years, MCTA and DWGNRA have partnered to provide free public bus service along the Pennsylvania side of the river on weekends between Memorial Day and Labor Day from Stroudsburg, PA area to Milford, PA and back. What makes this even more special is the boat and bicycle portage service that is provided. For more information about the Pocono Pony, visit this website: <http://www.gomcta.com/trip.php>.

People who travel the McDade Trail go through forested areas and farm fields, and past views of the river and cliffs. There are some port-a-potties/outhouses along the route, as well as some picnic areas, making this trail perfect for an all-day adventure. Wildlife can be seen all along the trail, from birds, to reptiles, amphibians and mammals. A variety of flora can also be observed.



One of PEEC’s newer programs, funded by the William Penn Foundation, is Bridge the Gap (BTG). Two of the goals of this program are to connect people to the Delaware River, and to help everyone see the relationship between healthy forests and the healthy rivers they border. As part of BTG, PEEC is offering some hiking and biking outings on the McDade Trail. It is during these times that participants will see, up close and personal, the biodiversity that exists in a healthy watershed. The “Hike and Bike” programs will occur on June 27<sup>th</sup> and October 3<sup>rd</sup>. Be sure to call PEEC (570 -828-2319) to register and for more information about those programs.

There are many places to hike in our National Park. PEEC and the McDade Trail are just two of these family friendly places. Be sure to check out updates, maintenance information, pet details and other interesting things about the McDade Trail by visiting this website: <http://www.nps.gov/dewa/planyourvisit/hikes-mcdade.htm>. Happy hiking and biking!





## Thank You

Thank you to PPL Electric for the Sustainability Donation to fund a solar cell phone charging station at PEEC. Pictured: Paul Canaveri, PPL; Jeff Rosalsky, PEEC; Ed Winters, PEEC

## Seeing Red

*Continued from Page 1*

fall into the foundation species category because they produce hard mast (acorns) that is consumed by both birds and mammals, they are fire resistant, and because of their precipitation distribution properties.

So what can be done to stop the red maple invasion? Since the neighbors will probably frown on a prescribed burn, a certified forester can suggest a forest management plan to manage your wooded lot. Selective cutting can remove red maples, while allowing the sunlight to enrich the oak understory that has been starving for light. Selective cutting is a sustainable forest management tool that increases forest health and improves the forest ecosystem.



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## 2015 SUMMER DAY CAMP

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## Ask Andrea!

By Andrea Ace

Dear Andrea,

My family and I are thinking about hiking, but I have some concerns. I hear that it's easy to get ticks on you when you hike. I am worried about Lyme disease. Will I get ticks if I hike on your trails?

— Worried Hiker

Worried Hiker,

Lyme disease and other tick-borne illnesses are not a concern to shrug off - getting sick can have the potential to cause numerous problems if not caught early. However, taking preventative measures and being vigilant about tick checks can reduce the risk.

Not every tick carries Lyme disease. Deer ticks are the species of tick that has the potential for carrying the bacteria that causes Lyme disease; they can range in size from as small as a poppy seed to the size of an apple seed. Dog ticks are larger and do not carry Lyme disease.

Protect yourself by wearing light colored clothing to spot ticks more easily and always do a full check after hiking. Some recommend tucking pants into socks and wearing long-sleeved shirts. Certain bug sprays may prevent ticks, but the chemicals in these sprays can have serious medical consequences of their own (and that's a whole other article!). For more information on ticks and Lyme disease, please visit [www.cdc.gov/lyme](http://www.cdc.gov/lyme)

Now that I've told you all of that information, I will say that I hope you won't be afraid to go outside because of what might happen. Most things we do in life carry a measure of risk - driving a car, flying in a plane, or even going out to dinner. Just like anything else, don't let fear prevent you from living life and experiencing the outdoors. Just accept that checking for ticks is part of the hiking experience. Now go outside and take a hike!



Dear Andrea,

Would we be allowed to bring our dog if we hike at PEEC?

— Dog Lover

Dog Lover,

Dogs are most definitely welcome on PEEC's trails! Not only are they great company on a walk through the woods, but the experience helps develop the bond you have with your pup. My dog Bella and I go hiking on a daily basis - she loves snuffling in all the leaf piles and romping to and fro along the trail. Keep reading for a few reminders and tips for hiking with a dog.

While at PEEC and on any trails, your furry companion must be on a leash at all times. This is not only to ensure everyone's comfort and safety, but also to protect the wildlife and vegetation. It's also proper dog-hiking etiquette to yield the right of way to other hikers - move to the side and have your dog sit or stand calmly as hikers pass by.

Most importantly, please remember that although you are in nature you still need to take care of your pooch's waste. We follow Leave No Trace principles at PEEC and hiking with your dog is no exception. When it comes to dog poop, either pick it up and pack it out or carry a trowel and bury it.

Try to discourage your canine from grazing on plants or drinking pond and stream water - just like humans, dogs can get sick from toxins in some plants or from bacteria in the water. Be aware of the trail and where your pup is poking her snout - you don't want to accidentally stir up bees or a snake! Training your dog basic commands like "leave it/drop it," "stay," and to come when called are other preventative measures that help avoid issues.

After your hike, check your dog for ticks. Dogs are susceptible to Lyme disease, so make sure to check them as well as yourself after every hike. Happy hiking!

*Do you have a question about nature, the environment, or sustainability? Send questions to Andrea at [aace@peec.org](mailto:aace@peec.org). (Questions may be edited and real names will be omitted).*



## What's In STORE For YOU!

By Mariann Oswald

Everyone who has been to PEEC knows that we have a wonder-filled bookstore, but, oh my, what surprises we have for you this year.

It has always been the mission at PEEC to advance environmental education, sustainable living, and appreciation for nature through hands-on experience in a national park. I'm sure this means different things to different people, depending on the circumstance, but one thing is for sure... our future is with our children.

To quote our Executive Director, "the store is a significant source of revenue to subsidize PEEC's programs." I have kept an eye on the trends and desires of the children, taking into consideration the feelings and thoughts of their elders, as I have helped the store grow and prosper. Careful to choose appropriate items (except for an occasional flamingo or llama), I have stocked the shelves with representatives of our region, books and pamphlets about flora and fauna in Northeast Pennsylvania, and beautiful bags, t-shirts, hats, and sweatshirts with our logo. All of that is evident as you peruse the small area, packed to the ceilings

(very high ceilings) with goodies. What isn't so readily evident is the new direction I am taking the store. Reduce, Reuse, Recycle.

In the past year I have done a great deal of research into companies that produce their products in the USA, that use recycled and/or recyclable components, and that fit our mission statement... sustainable living and appreciation for nature. I have found several that are a perfect fit. The first was GREEN TOYS, located in California – all of their products are 100% made in the USA of recycled milk jugs. You have to see them to believe how beautiful, strong, and environmentally-friendly they are, not to mention the packaging which is also 100% recycled materials.

Currently we carry the watering can, garden tractor, recycling truck and Frisbee. You can check out their mission statement at [www.greentoys.com](http://www.greentoys.com)

### The store also carries...

Fuzz That Wuzz, plush animals made by Mary Meyer from recycled water bottles. Amazing! They are adorable and cuddly.

Walking sticks made in Arizona from trees indigenous to our area.

Earrings made by Jabedo from cereal boxes. I couldn't believe it, even when I saw them. They are great!

Channel Craft toys made in the USA... puzzles and good old games like jacks, dominoes, and marbles.

Birdhouses and ornaments made by Lucuma Designs from gourds. Beautiful. No, gorgeous.

Magnets and notebooks made by Your True Nature in the USA, some from recycled materials.

Pewter lapel pins made by Jim Clift Designs in the USA.

... and that's just the new stuff. We still have our PEEC water bottles, made in the USA, BPA free and recyclable; Peterson Field Guides; John Sarreo books; Nature Study Guides; Folkmanis Puppets; Manhattan Toy; Douglas Cuddle Toys; Waterford Press pocket guides... and so much more. (Backpacks, children's books, garden décor, ponchos, plush, snacks...)

So, what I'm saying is... support PEEC in its mission by visiting the bookstore. We are happy to open it for you when you visit. Just ask at the front desk. Oh, and did I mention... the prices are lower, YES LOWER, than most other stores. It's unbelievable what we have in store for you.



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## WOMEN'S WEEKEND JULY 31-AUGUST 2, 2015



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## Winged Mammals of the Night

By Derek Scott

If you have ever sat outside on a pleasant summer evening, you've probably noticed bats flying overhead. These winged creatures are an important part of our ecosystem, but are irrationally feared by humans who lack an understanding of them. If people knew more about bats, they would realize that we should respect them, not fear them.

Bats are a nocturnal mammal, meaning that they sleep during the day and are active in the evening and overnight hours. These creatures spend their days in roosts, which can be anything from caves and trees to manmade structures. Being mammals, they are warm-blooded organisms and give birth to live offspring known as pups.

Bat species are typically divided into two categories: fruit-eating bats and insect-eating bats. About 70% of all bats fall into the insectivore category, with most of the remainder being fruit-eaters. A handful of bat species will prey on animals other than insects, including the three known species of vampire bats. Fruit bats (megabats) are typically the larger of the two bat varieties and are found in more tropical climates where the annual growing season is very long.

Insect bats (microbats) can live in these climate regions as well, but have a larger distribution range. Not all megabats are larger than microbats; however, there are other ways to distinguish between the two. The first major difference is that only microbats use echolocation; the process of emitting sound and listening for echoes to locate and identify objects around them. The second major difference is that megabats have very good eyesight to help identify food sources, contrary to popular belief that bats are blind.

The most common bat in North America (and Pennsylvania) is the Little brown bat – the classic image people picture when they think of bats. This species has a distribution range from Canada down to the southern United States, but is most commonly found in the northern most states.

The Little brown bat is an insectivore that will eat a variety of prey including moths, wasps,



beetles, mosquitos, and mayflies just to name a few. A single Little brown bat can eat as many as 5000 insects in a single night. Since bats typically hunt in groups (also known as a colony) they do a miraculous job of keeping insect populations in check. This especially benefits farmers, as many of the insects the bats consume are agricultural pests.

Unfortunately, in the last decade we've seen a dramatic loss in the population of bats, primarily along the eastern seaboard. The disease wiping out our bat populations is known as White Nose Syndrome, a fungal growth that grows on the nose and wings of bats. While the fungus can cause direct damage to the bats, the primary issue is that it wakes them frequently from torpor (temporary hibernation). As a result, the bats burn more energy than they usually would and, with no food source to replenish this loss, they end up starving. As of 2012, over 6 million bats have perished as a result of White Nose Syndrome.

In response, many states have closed off caves and other bat roosts to the public in an attempt to limit spreading the fungus, which is spread through physical contact. We can only hope that these measures will result in an increase in bat populations in years to come.



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## Eye on the Eagle

By Barbara Derrenbacher

This past February, I came across a live eagle cam provided by the Pennsylvania Game Commission and various sponsors. A visit will introduce you to this fascinating website.

This cam is located in Hanover, Pennsylvania and the nest has been in use for about ten years and has produced fledglings for about seven. Its height is about 85 feet from the ground and is fitted with a live cam.

Soon I was immersed in the lives of a mated eagle pair. Around Valentine's Day, the female, who is larger than the male, laid two eggs, a day apart. Eagles are regal in their bearing, a white crested head, yellow beaks and piercing eyes to survey their territory. It took about 35 days for the eggs to hatch, again spaced by one day.



Small grey eaglets, covered in pin feathers, were kept warm under the breasts of their parents. Adult eagles have a hollow in their breast area just for this purpose.

I was to witness such a display of dedication and support as this pair provided for their future offspring. Through a harsh winter, they took turns sitting on the eggs – even when snow covered the adult eagles up to their beaks.

Ever hungry cries from the eaglets would send both parents on a continuing hunt for fish, rodents, small road kill, etc. for their young. Both parents tear apart the flesh of the kill and feed their chicks. The chicks at times would attack each other with well-delivered pecks. I was to learn that 50% of the time siblicide occurs, where one eaglet kills its nest mate in an expression of survival instincts. These two chicks have fared well so far without resorting to this. Like all young, they eat and sleep a lot.

Gangly, all feet and wings, these hatchlings will lose their pin feathers and gain black flight feathers. The nest at this time is vulnerable to hawks, snakes, and other misfortunes. Providing many moments of enjoyment and education, I eagerly await with interest the completion of the cycle when they are ready for flight and will watch their parents hunt to learn how to survive on their own and repeat nature's commitment to the replication of their species.

## "Ticket To Ride"

By Sheri Bone

Once again, the Delaware Water Gap National Recreation Area (DWGNRA) and PEEC are teaming up to offer the "Ticket To Ride" program to area fourth grade students! A grant from the National Park Foundation (through generous support from DISNEY) was recently awarded to DWGNRA. Each National Park Service Unit that received a grant has given a special title to their project, and ours is "Over the River and Through the Woods!"

This fall, students from East Stroudsburg Area School District, Delaware Valley School District, Sandyston-Walpack School District and some 'new to the program' schools from New York will participate in a day program at PEEC. They will spend time in the EcoZone learning about animals and habitats of the Poconos. After visiting the EcoZone, the students will participate in a modified Wildlife Study class; they will go on a hike in the woods and look for items/evidence related to the animals and habitats they learned about in the Eco-Zone.

Before their trip to PEEC, NPS and PEEC staff will visit the students at their schools to introduce the program, and share information about the National Park System, specifically DWGNRA. After the field trip has been completed, a follow-up visit to the schools will occur to assess what the students learned, and to share information that the students can take home to their families.

This program has been a wonderful success over the past few years and we anticipate another successful program during the next school year!





## The Sleepaway Camp Experience Is Coming to PEEC!

By Lea Della Vecchia

As a child, I attended many camps every summer. I attended sports camps, soccer camp, my town's local day camp, Vacation Bible School, and an overnight YMCA camp, among others. Maybe because my mother worked at home and didn't want me around to bother her with incessant repetitions of "But Mom, I'm soooo boooooored," or maybe because she thought it would be an enriching experience for me. I suspect a little bit of both.

The camp experiences that have stuck with me the most throughout my life have been my weeks at residential camp in the Catskills. I remember being dropped off at camp for my first time ever, unpacking all of my things and making my bunk mine for the few weeks I would be there. I was always a top-bunk kind of girl; it felt like a secret fort I could escape to. Although I was prepared for it to happen, I never quite got homesick like some of the other girls. For a few weeks, I got to trade my two little brothers in for half a dozen new girlfriends—kind of a no-brainer for an eighth grader! I enjoyed my first forays in independence; I was finally able to choose whether or not I wanted to have a salad with my dinner! (I didn't for the first few days, and then decided that I actually, genuinely like salad, and chose to visit the salad bar after that).

Each year at camp, we would have an "overnight"—a night when we would roll up our sleeping bags, turn in our watches, put our toothbrushes in our pockets and follow our all-knowing counselors out into the woods. As an adult working in this industry now, I'm sure the counselors had a plan and were following a trail, but to my twelve year old self, it felt like we were explorers in a new place that no one had ever been before. After arriving at our destination, we played a few games, had a campfire, and went to bed. This was my first-ever experience sleeping outside with nothing more than a sleeping bag—my family did a lot of camping growing up, but I always was within the safe nylon walls of a tent. The experience of "sleeping under the stars" was brand new to me—and I loved it!

To me, summer camp has always been a place where kids can learn about things they are interested in—unburdened by the stress of homework, tests, and formal lessons. Oftentimes, they may not even realize they're learning something. As an advocate for more inquiry-based learning in almost every capacity, I find summer camp to be the ideal place for total immersion in an interest, punctuated often by games and new friends. My summer experiences at camp forced me out of the house and into nature for weeks on end—something that has certainly affected many choices I have since made.

This year, exciting changes are happening at PEEC's summer camp. In addition to our Nature Day Camp, this year we are offering our first weeks of residential camp for two of our camp age groups. Our Junior Naturalists will spend a week learning about outer space, staying in our cabins, eating s'mores, and enjoying nature. Our Senior Naturalists will have two separate weeks of overnight camp—one will be spent hiking a section on the Appalachian Trail, and one will be spent canoeing on the Delaware River.

Knowing the difference residential camp has made in my childhood and ultimately my adult life, I am so excited we can offer a similar opportunity to others. Hopefully someone you know will be interested in joining in on our summer adventures! For more information about PEEC Nature Adventure Camp, check out [www.peec.org/programs/summer-day-camp](http://www.peec.org/programs/summer-day-camp), give us a call, or send us an email!





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# NATURE AT NIGHT

SATURDAY JULY 18 • 8-9:30PM

A summer evening is the perfect time to head outside. Take a walk in the woods, listen for frogs and look at the stars.

**For more information:**

Call PEEC: 570-828-2319

Email: [peec@peec.org](mailto:peec@peec.org) • Visit: [www.peec.org](http://www.peec.org)



POCONO ENVIRONMENTAL EDUCATION CENTER  
538 Emery Road • Dingmans Ferry, Pennsylvania 18328

# CALL PEEC

570.828.2319

**FREE**  
FOR MEMBERS

**\$5** PER  
PERSON  
NON-MEMBERS

CALL NOW TO MAKE YOUR  
RESERVATIONS

# MILFORD FARMERS MARKET SUNDAY 10 AM - 2 PM 508 Harford Street // The Grotto





# SUMMER PROGRAMS AND GETAWAYS 2015

**PRE-REGISTRATION REQUIRED  
Unless otherwise indicated.**

## TO REGISTER:

Call PEEC at 570-828-2319  
with credit card information available

## JULY

### "Celebration with a Bang"

Family Nature Getaway Weekend  
From Thursday, July 2 - Sunday, July 5, 2015  
Adults \$225 / Child, Commuter, and  
Day Rates Available

Bring your friends and family to experience the best of what PEEC has to offer. Nature hikes, animal presentations, swimming, canoeing, fireworks, campfire and more! Price includes three nights lodging and meals from Thursday dinner to Sunday lunch.

### Frog Frolic

Saturday, July 11, 2015, 1:00-3:00pm  
Cost: \$5 per person

Join us for a fun afternoon at the ponds and streams! Learn about some of our frog friends as we gently catch and release these hopping amphibians. Wear boots and plan on getting a little wet and muddy!

### Moonlit Drumming

Saturday, July 11, 2015, 6:30-9:30pm  
Cost: \$30 adult / \$15 child

Master drummer, Maxwell Kofi Donkor, is back for another unforgettable experience. Enjoy an introductory lesson and a drumming circle under the moonlit sky. Don't miss this great event! No experience necessary. Call to reserve a drum.



### Little Eco Explorers: Beavers

Sunday, July 12, 2015, 10:00am-12:00pm  
Cost: \$5 per child

It's a new program for 3-6 year olds! Join us for a story, craft, and activity focusing on a particular critter. Call for details.

### Sunday for Singles Nature Hike

Sunday, July 12, 2015, 1:00-3:00pm  
Cost: Free

Enjoy a guided hike on a PEEC trail. This program is all about exploring nature and meeting new people.

### Ecozone Discovery Room!

Saturday, July 18, 2015, 1:00-4:00pm  
Cost: \$2 per person

Climb into a bald eagle's nest, crawl into a bat cave, and dig in a fossil pit! Explore this indoor discovery room and enjoy hands-on exhibits on natural history, sustainability and the local environment. No registration required.

### Bridge the Gap: Kayak Paddle

Saturday, July 18, 2015, 5:00-7:00pm  
Cost: Free

Come join us for a free kayak paddle on our Pickerel Pond. Beginners are welcome—we will teach you everything you need to know! Dress appropriately—you may get wet. Spaces are limited; call to reserve a kayak! Funding for this program provided by the William Penn Foundation.

### Nature at Night

Saturday, July 18, 2015, 8:00-9:30pm  
Free for Members / \$5 for Non-Members

A summer evening is the perfect time to head outside. Take a walk in the woods, listen for frogs and look at the stars.

### Summer Canoe Paddle

Sunday, July 19, 2015, 10:00am-12:00pm  
Cost: \$5

Enjoy the summer out on the water! Paddle a canoe...and try out our new kayaks! Beginners are welcome—we teach you everything you need to know. Dress appropriately—you may get wet. Call to reserve a canoe.



### Bridge the Gap: Wild Edibles Walk

Saturday, July 25, 2015, 10:00am-12:00pm  
Cost: Free

Nature provides food for us in the form of many plants. Join us on a hike focused on wild edibles. No collecting will be done within the Park.

### Earthen Healing

Saturday, July 25, 2015, 1:00-3:00pm  
Cost: \$5

Come join us for a new program about the remarkable healing properties of plants. We'll teach you which native and garden species cure various ailments and how to prepare them for use.

*Continued on Page 12*

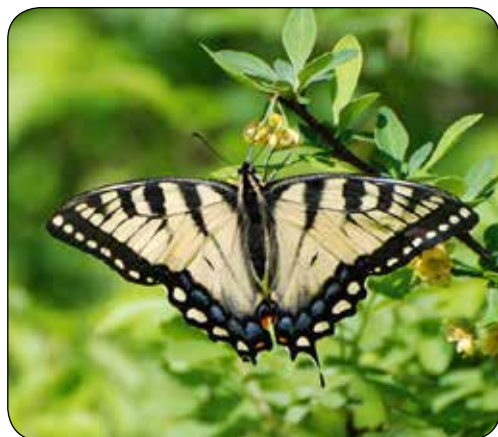


# SUMMER PROGRAMS AND GETAWAYS

*Continued from Page 11*

*Bridge the Gap: Kayak Paddle*  
Sunday, July 26, 2015, 10:00am-12:00pm  
Cost: Free

Come join us for a free kayak paddle on our Pickerel Pond. Beginners are welcome—we will teach you everything you need to know! Dress appropriately—you may get wet. Spaces are limited; call to reserve a kayak! Funding for this program provided by the William Penn Foundation.



*Butterfly Walk*  
Sunday, July 26, 2015, 1:00-3:00pm  
Cost: \$5

Learn about the wonderful world of butterflies! Join David Trently on a search through the fields and around the ponds for butterflies and dragonflies. Call early – spaces fill up fast!

*Ecozone Discovery Room!*  
Sunday, July 26, 2015, 1:00-4:00pm  
Cost: \$2 per person

Climb into a bald eagle's nest, crawl into a bat cave, and dig in a fossil pit! Explore this indoor discovery room and enjoy hands-on exhibits on natural history, sustainability and the local environment. No registration required.

## AUGUST

*Women's Weekend*  
From Friday, July 31 to  
Sunday, August 02, 2015  
Cost: \$199

Get away from it all! Enjoy a relaxing weekend that includes a nature hike, canoeing, campfire, and more. This wonderful program includes two nights lodging in a yurt or cabin and six meals. Register early!

*Bridge the Gap: Kayak Paddle*  
Sunday, August 02, 2015, 10:00am-12:00pm  
Cost: Free

Come join us for a free kayak paddle on our Pickerel Pond. Beginners are welcome—we will teach you everything you need to know! Dress appropriately—you may get wet. Spaces are limited; call to reserve a kayak! Funding for this program provided by the William Penn Foundation.

*Frog Frenzy*  
Sunday, August 02, 2015, 1:00-3:00pm  
Cost: \$5 per person

Join us for a fun afternoon at the ponds and streams! Learn about some of our frog friends as we gently catch and release these hopping amphibians. Wear boots and plan on getting a little wet and muddy.

*Bridge the Gap: Day Hike*  
Saturday, August 08, 2015, 9:00am-12:00pm  
Cost: Free

Join us for an interpretive hike of our Tumbling Waters trail. The Tumbling Waters trail is a 3 mile loop, with a beautiful waterfall at the half-way mark. Please wear sturdy footwear and bring a water bottle. We will provide the snacks!

*PRO SERIES: Ferns and Lycophytes*  
with Bill Olson  
Saturday, August 08, 2015, 1:00-4:00pm  
\$20 (\$70 for 4 Pro Series Sessions)  
Learn from the experts. Join Bill Olson, acclaimed botanist, for an in depth look at ferns and lycophytes of the area. End the day in the lab, using microscopes for an up close look. Spaces limited - call to reserve a seat in the van.

*Summer Canoe Paddle*  
Sunday, August 09, 2015, 10:00am-12:00pm  
Cost: \$5

Enjoy the summer out on the water! Paddle a canoe... and try out our new kayaks! Beginners are welcome – we teach you everything you need to know. Dress appropriately – you may get wet. Call to reserve a canoe.



*Ecozone Discovery Room!*  
Sunday, August 09, 2015, 1:00-4:00pm  
Cost: \$2 per person

Climb into a bald eagle's nest, crawl into a bat cave, and dig in a fossil pit! Explore this indoor discovery room and enjoy hands-on exhibits on natural history, sustainability and the local environment. No registration required.

*Pocono Quilt Camp*  
From Friday, August 14, 2015  
To Friday, August 21, 2015  
August 14 - 16 – \$205 / \$155 Commuter  
August 16 - 21 – \$395 / \$345 Commuter  
Join Patti Shreiner for a relaxing time at the 16th annual Quilt Camp! Stay for a day, the weekend, the week, or for the entire time! Work on the focus projects, a different one each day, or work on any of your own. Supply list will be provided. Focus projects: Quilted purse, jelly roll quilt, silk dyed scarf. Includes lodging and meals!

*Bridge the Gap: Kayak Paddle*  
Saturday, August 15, 2015, 10:00am-12:00pm  
Cost: Free

Come join us for a free kayak paddle on our Pickerel Pond. Beginners are welcome—we will teach you everything you need to know! Dress appropriately—you may get wet. Spaces are limited; call to reserve a kayak! Funding for this program provided by the William Penn Foundation.

*Dragonfly Walk*  
Saturday, August 15, 2015, 1:00-3:00pm  
Cost: \$5

Learn about the wonderful world of dragonflies! Join David Trently on a search through fields and around the ponds for dragonflies and butterflies. Call early -- spaces fill up fast.