



Workshop Schedule

Thursday, Sept. 20 through Sunday, September 23, 2018

Pre Conference Programs & Field Trips

Thursday, 9:00 AM - 3:30 PM (with lunch break)

CPR/First Aid Certification

Tracy Thomas, Executive Director, Massena Nature Center

American Heart Association's Heart Saver Level Course; card provided.

What to Bring: Own bag lunch/snacks, drinks.

For questions, contact Tracy Thomas: tracy@massenanaturecenter.com

Thursday, 10:00 AM – 3:30 PM (with lunch break)

Infusing EE in Early Childhood (Pre K-2): Project WET's 'Getting Little Feet WET' and Project Learning Tree's Early Childhood Experiences

Betsy Ukeritis, NYSDEC, Inter-regional Environmental Educator

Drew Hopkins, NYSDEC, Project Wild & Project Wet Co-coordinator

Join fellow early childhood educators in a romp through the new Project WET's *Getting Little Feet Wet* and Project Learning Tree's *Early Childhood Experiences* curriculum and activity guides. Workshop participants will take part in fun and engaging activities while training to use the award winning guides. New and seasoned educators alike will share valuable experiences and insights for adapting activities to your particular situation. Participants will receive copies of both guides free of charge.

What to Bring: Own bag lunch/snacks, drinks.

For questions, contact Drew Hopkins at 518-475-0291 or email at drew.hopkins@dec.ny.gov

Thursday 11:00 AM – 3:00 PM

Delaware River Canoe/Kayak Trip

Cost: \$53/pp-includes kayak/canoe rental, PFD, paddle and shuttles.

Fees are payable on arrival at Kittatinny Base.

"Staircase Rapids to Matamoras Access"

This trip leaves out of Staircase Rapids, New York and ends at the Matamoras River Access, Pennsylvania. It is a 6-mile / 3-hr trip - potentially a more active section of the river providing entertainment for advanced kayakers looking for a challenging experience - **NOT** recommended for beginners.

All participants meet and park at Kittatinny Matamoras base (1147 Delaware Drive, Matamoras, PA 18336), and are shuttled up to Staircase and then float/paddle back down the river back to your cars at Matamoras. Matamoras Access is a 20-minute drive to the Conference site at Greenkill.

What to Bring: Own bag lunch/snacks, drinks.

Trip Leader: Jeff Rosalsky, Executive Director PEEC (Pocono Environmental Education Center)

Call Sheri Bone, PEEC, at 570-828-2319 for additional details.

Thursday 1:30-4:30PM

Planning Your Next Big Program and the Ones after It

Kaeti Stoss, Program Director, Delta Environmental and Adopt-a-Stream Program

Co-Presenter, Fred Stoss, Librarian, SUNY University at Buffalo

Planning and implementing outdoor and environmental programs is a major undertaking for K-12 teachers and educators working in non-formal education settings (park/recreation centers; state and regional forests, wetlands, wildlife sanctuaries; nature centers; elder-care centers; museums; zoos, aquariums, botanical gardens; environmental and conservation organizations). The North American Association for Environmental Education (NAAEE) developed recommendations, tools, and strategies providing a cradle-to-grave approach from the idea of creating an education program to evaluating its success. NAAEE compiled these in "Non-formal Environmental Education Programs: Guidelines for Excellence," (copies given) knitting together a systematic process leading to high-quality new programs and improving existing ones

Contact Kaeti Stoss: kstoss@adopt-a-stream.org

Thursday 1:45 – 3:45PM

Forestry Stewardship

Ken Bontrager, Camp Deerpark Executive Director

Camp Deerpark has been in a sustainable growth forestry management plan for 20 years. We have harvested wood for sale and to construct four beautiful cabins while observing an increase in the overall health and growth of our forest. We will talk about how sustainable growth forest management can be done in your context and how we have taught using our model.

Camp is located 8 mi – 10 min drive from Greenkill. We will car pool from Greenkill.

Call Ken Bontrager at 845-283-8669 for additional details.

Friday Workshops & Field Trips

Friday, 9:00 AM – 10:30 AM

Dem Bones Gonna Rise

Rick Glatz, Retired Teacher/Naturalist

Ever put together an entire skeleton? Here's your chance with a moose! Other mammal bones will also be investigated. and along the way you will learn something about vertebrate anatomy. Information, handouts, and tips for using bones with groups and how to get your own bones will be provided.

Exploring the Microscopic World

Kenji Yoshino Founder and CEO of Infinite Scope

Join Kenji Yoshino and Luke Saunders from Infinite Scope as they guide you through the microscopic world that surrounds us all. They will walk you through how to use the Eureka, a new microscope for the digital age. Using this tool, which transforms any smart device into a powerful, portable digital microscope. We will be looking at man-made objects, minerals, prepared slides and anything you can find around you. Bring your smartphones and tablets so you can capture photos and videos to share.

Teaching the Stories of the Land

Dan Kriesberg, Teacher, 6th grade Science, Friends Academy

The natural world is full of stories waiting to be told. Outdoor Educators are the story teachers that use the land as their subject. The workshop will be a presentation of ideas and activities that will help environmental educators be more effective teachers, no matter the level of experience. The concepts discussed will include why environmental education matters now more than ever, environmental education as storytelling, the importance of hope and wonder, staying local, the nature of science and the perspective of a classroom teacher. The activities will support the ideas being presented during the workshop and can be used to help children find their sense of being.

Nature's Music: The sounds animals make (and rain and thunder, too!)

David Stokes, The Frog Chorus Nature Education/CEO Education Entertainer

Using audio-visual materials, slides and posters, toys, puppets, songs, stories and humor. We will take a comical "look" at sounds in nature. Who really says ribbit? Not all ducks quack, not all owls hoot! There is no frog in New York that says "ribbit". We will participate in the sound making and science.

Spoon Carving 101

Greenkill Outdoor Education Staff

Do you enjoy working with your hands? Have you ever tried wood carving? In spoon carving 101 you will learn how to take an ordinary piece of wood from your backyard and turn it into a usable utensil!

Participants will also learn what tools are needed to get started, basic carving techniques and how they can incorporate spoon carving into their program! Limited to 5! Materials fee: \$10

Friday 9:00 AM – 12:00 PM

Nurturing Nature: Yours, Ours, Theirs, Earth's

LoraKim Joyner, International Conservationist, Wildlife Veterinarian, Minister and Co-Director, One Earth Conservation

This workshop provides theory, practice, and tools to help others connect to nature in a wide variety of situations. We present 5 natural intelligences (emotional, social, multispecies, ecological, and spiritual) that can be incorporated in any learning or experiential environment to promote awareness of, connection to, and caring for life. Participants will also learn tools on how they can be nurtured in their work, gaining resilience and leadership skills as well as fostering and nurturing others in environmental education and activism.

Friday 8:45 AM – 12:30 PM

Bashakill Kayak Trip

Tom Smith, Retired Outdoor Educator and Taxidermist...and friends

Cost: \$10 fee for participants requiring to 'borrow' a kayak -payable at the Conference.

Join educators **Scott Graber, John Stowell, Snapper Petta** and Tom Smith to explore Bashakill, the largest freshwater wetland in southeastern New York. "A birdwatchers dream". Bald eagles and osprey are a common site. Bashakill wetland is home to over 200 species of birds and is a state designated bird conservation area. Limited to 10 people w/o kayaks, and 10w/ their own kayak.

Directions: Meet at the South Road Boat Launch (across from winery) at 8:45am. Carpool from Greenkill.

What to Bring: Bring bag lunch, binoculars and water shoes.

Trip Leader: Call Tom at 845-500-1170 for additional details.

Friday 10:45 AM – 12:15 PM

Ecology for the Right Side of the Brain

George Steele, Environmental Educator

Sing and move your body to an understanding of nature and ecological systems. Come prepared to learn some songs and stories and share your own. Musical instruments are welcome and song sheets to share would be great.

Rock Pool & Rope Bridge Hike

Greenkill Outdoor Education Staff

The Rock Pool is one of Greenkill's natural landmarks – a shady beautiful hike (need sturdy shoes/boots please). The trail has some steep inclines and declines. The Rope Bridge is a traditional single-cable foot bridge suspended about 3' over a stream.

Fossils: Fun and Fascinating

Sally McCracken, Catamount Institute/ NPS Volunteer/Woodland Park School District

Studying fossils opens the world of Paleontology and Geology to students of all ages. Every academic area can be engaged in the study of fossils. Paper shale from Colorado will be available for the participants to split and determine the ecosystem from 34 mya. We will see leaf fossils that can tell us about the climate during the Eocene Epoch. We will examine insect fossils that will tell us about insects that still live today from that period in Earth's history. Come join us for a special educational experience.

Archery: Creating Outdoor Experiences for All Abilities

Jillian Trunko, NY National Archery in the Schools Program (NASP) Coordinator, NYS DEC

Have you ever shot a bow and arrow? Want to learn about a great program where kids in grades 4-12 can learn archery skills? The National Archery in Schools Program (NASP) is a cooperative effort between the New York State Department of Environment Conservation (NYSDEC) and NYS school systems designed to introduce kids to the sport of archery. Archery is a non-discriminatory sport and can be taught to all genders, sizes, abilities, and economic backgrounds. Discover how archery engages individuals in the educational process and improves participation in outdoor activities. Learn how to shoot a bow and arrow, and take a shot at experiencing what this program is all about.

Tools for Effective Leadership and Committed Action – Thrive Rather than Survive

Lucinda Hurley, Retired, Nassau BOCES

Participants in this workshop will explore common leadership challenges and learn how the tools and constructs of conversational, adaptive and strengths-based leadership can be applied to their work situations. These tools help to engage stakeholders, bring clarity and committed action, support change and build bridges to understanding of yourself and others. The presenter; has training and experience in Conversational Leadership, Adaptive Leadership, Immunity to Change and Strengths Coaching; developed; led Nassau BOCES Leadership Institute and received recognition for her leadership work from NYSOEA, The JASON Project, the Coalition to Save Hempstead Harbor, Nassau BOCES, SCOPE and the Child Care Council of Suffolk. Her career work is in this area and is grounded in outdoor education.

Friday, 1:45 PM – 2:30 PM

Creating and Using an Outdoor Classroom

Padraic McCarthy, Science Teacher/Curriculum Coordinator

Learn how and why we created an outdoor classroom behind Port Jervis High School on the bank of Cold Brook. We will explore the activities we are doing there now, like Trout in the Classroom and the impact it has on students. We'll describe the grants we have received as a result of the Outdoor Classroom and finally, we will explore ideas for the future using the outdoor classroom and more.

Digital Tools for Educators

Sunny Corrao, NYC Parks

Digital technology is revolutionizing the way data is shared today. Learn about some simple, free tools to use as you plan and organize your programs. You probably already have a Gmail account, but have you explored the other tools google provides. From creating forms and evaluations to other computer based programming and planning tools. This workshop will focus on google applications and windows platform tools. Please bring a smart phone or tablet computer to work with.

Pushing Beyond Your Personal Boundaries, Inside and Out!

Josh Teeter, Environmental Educator, NYS Office of Parks, Recreation and Historic Preserves

This session will discuss the limitations that we sometimes place on ourselves. We will explore as a group things that we would like to change or get better at. As an educator and as someone who has pushed myself mentally and physically to go beyond what I once thought possible, I have found out that you and I have a choice in what is possible. Drawing on my experiences and yours, it is my hope that participants will leave this session fired up to go beyond what they thought possible in some aspect of their lives.

Friday, 1:45 PM – 3:15 PM

STEM-ulating Activities on Human Ecology

Dorothea Panayotou, Science Teacher, The Spire School, Stamford CT

Teaching human ecology (an interdisciplinary and transdisciplinary study of humans and their environment) makes for relevant lessons in the life and earth sciences that also brings in math and social studies content. In this hands-on session, the presenter will lead participants in small-group problem-solving, data analysis, and discussion that cover a range of human ecology topics including human population and natural resource use trends, and their resulting impacts on ecosystems, biodiversity, climate and the availability of fresh water. A variety of teaching techniques will be outlined for a truly inclusive classroom. Participants will receive lesson plans in an electronic format.

To Tap or Not to Tap?

Tim Stanley, Assistant Director, Sharpe Reservation, The Fresh Air Fund

This workshop will highlight a forestry field lab designed to be a more advanced maple syrup program to engage middle and high school aged students. This class will introduce basic forestry tools from direct observation to Bitmore sticks to assess tree health within a sugar bush. Collected data will help participants determine whether to tap or not to tap a maple tree. General sugar maple information will be shared from tree ID to environmental factors that affect sap production. The workshop will conclude with participants grading maple syrup, the final step before selling the finished product.

Exceptional Work! Getting Students to High Quality in Outdoor Education

Adam Gellwitzer, Public High School Science Teacher

Many of us have faced this scenario: we design robust lessons, purchase great materials, model strong techniques and ... have our students produce products that are a little underwhelming. When students' best intentions fail to translate into quality products it can reflect poorly on our classes and even our entire program. In this workshop, strategies that are effective for allowing students to amaze parents, administrators, and other stakeholders will be shared. I will offer the best of what I have developed and learned in my thirteen years as an outdoor educator in a public school setting. Even further, the impacts of engaged students producing impressive products will be discussed. This extends into community, colleague and school-board relations.

Friday, 1:45 – 3:45 PM

Local Hugenot History Tour

Kristen Dasenbrock, Youth Services Western Sullivan Public Library

Join us on a tour of the local history around Greenkill. Our first stop will be the “little red schoolhouse”. Built in 1879, this one-room school is listed on the National Register of Historic Places and is restored to its original condition by the Little Red School House Historical Society. Here we will receive a guided tour, not only of the schoolhouse, but of the history of how it began and progressed.

From there we will head over to explore the Neversink Museum, located in a historic canal-era building in the D&H Canal Park right on the Neversink River! We will have the opportunity to learn about the amazing D&H Canal and the rich archaeological history of this lovely region in Orange County through exhibitions about Black Diamonds; a working lock model; the Artistry of the Blacksmith; history of the Lenape Native Americans; Movies Before Hollywood; and canal technology, history, boating and canal life. If only there was enough time to stay and enjoy the self-guided written walking tour of the one-mile section of the D&H Canal in the park, the large herb garden and Lenape Native American Three-Sister’s Garden of corn, beans and squash, The Museum Store with a large selection of canal and local history publications, stationery, cards, toys, and gifts.

Directions: Car pool from Greenkill.

Trip Leader: Call Kristen at (732)567-6115 for additional information.

Explore Lake Marling!

Greenkill Outdoor Education Staff

...which in true form is actually a pond. Canoe, paddles, PFD, Lifeguard: all provided.

Friday, 2:45 PM – 3:30 PM

What Are These Wasps Doing on My Lawn?

Bill Monahan, Program Specialist, Nassau BOCES Outdoor & Environmental Education

Did you ever notice swarms of wasps circling over your lawn, digging holes, and scaring all the neighbors' children? Let’s take a close look at who these guys are and what they are doing. A fascinating look at a few native wasps.

How to Cultivate Partnerships

Maritza Cuevas, Director of Environmental Education/ The Greenbelt Nature Center

This workshop will provide program participants with simple and straight forward strategies that will help participants cultivate a variety of partnerships with the focus on building relationships in the field of outdoor/environmental education. Workshop participants will share how they currently cultivate partnerships and be led on an exercise that will generate additional techniques for networking and building community relationships. They will also explore how to hold onto those partnerships - creating

a web of contacts, connections and partners.

Freeing Your Natural Voice

Adriana Caminero, Urban Park Ranger NYC Parks

An introduction to techniques designed to open, free, and strengthen your voice. Develop your ability to find your natural breath, use intention and conviction to become a powerful and effective speaker through vocal exercises learned in theater.

Saturday Workshops & Field Trips

Saturday, 9:00 – 10:30 AM

Birding for Life

LoraKim Joyner, International Conservationist, Wildlife Veterinarian, Minister and Co-Director -One Earth Conservation

This workshop amplifies what we mean by "birding" so that participants can see how to attract more people to wildlife observation activities, and deepen their connection to nature around them. This is a guided bird walk whose structure can be adapted to other wildlife walks. Participants will not only observe birds and learn about them, but will also experience how to connect more deeply to other beings and other humans. The concept of multispecies intelligence and ecological empathy will be introduced, and experienced. Tools for leading similar activities will be presented.

iMap Invasives

Brittany Rogers, Environmental Interpretation Graduate Student, SUNY ESF and iMapInvasives

The Certified Trainers Network is a newly created opportunity for professionals, students, educators, and citizen scientists interested in protecting our natural areas to become certified to host iMapInvasives trainings. iMapInvasives provides the tools and resources necessary to host trainings or reporting invasive species and using the online database, improving our community's knowledge of invasive species around NY. The Network benefits trainers by increasing involvement in local and statewide projects, increased awareness of invasive species, networking opportunities and professional experiences. The efforts of the Certified Trainers Network increase the effectiveness of efforts to protect the places we live, work and play.

Roving Interpretation

Josh Teeter, Environmental Educator, NYS Office of Parks, Recreation and Historic Preserves

Come to this session to brush up on/add to your interpretive skills or to learn a new style. Roving interpretation may seem impromptu and unstructured to the visitor but when done properly it is well planned and organized. When you leave this session, you will have a new tool to help you educate in a way that is fun and challenging!

SHRED: Mountain Biking to Teach Science, Health, Responsibility, Engineering & Design

Ben Cheek, Director of Activities, Outdoor Club of Port Jervis and Mountain Bike Program Director, Camp Deer Park

Our discussion-based workshop will explore how the growing sport of mountain biking can be integrated into a variety of academic topics to engage students, get them outdoors (even on their own time), and connect them with local communities and alternative economies.

Planning for the Future: How Can We Adapt Outdoor Education to Meet NYS Schools' Needs?

Michelle Forster, Education Program Leader, Cary Institute

As NYS adopts new Science Learning Standards, schools will need support in developing and implementing science-driven environmental education curricula. In this working session, participants will share their successes in adapting environmental programming to meet schools' needs. We hope to survey participants about the greatest needs they have in their own programming, and determine ways our organizations can support each other in delivering high quality environmental education programs. While the co-presenters are from the Eastern Region, we hope attendees will share ideas and stories from all NYSOEA regions.

Saturday, 9:00 AM – 12:00 PM

Biomimicry: How Learning from Nature Could Change Our World

Dorna Schroeter, Program Coordinator, PNW BOCES Center for Environmental Education

Biomimicry is a new discipline that offers educators a compelling way to engage and inspire students of all ages. This workshop will provide a general foundation of biomimicry, review case studies and actual bio-inspired products, explore the levels of biomimicry, introduce the Life Principles and with a short design challenge.

Saturday, 8:45 AM – 12:30 PM

Bashakill Kayak Trip

Tom Smith and friends

Cost: \$10 fee for participants requiring to 'borrow' a kayak -payable at the Conference.

Join educators Scott Graber, John Stowell, Snapper Petta and Tom Smith to explore Bashakill, the largest freshwater wetland in southeastern New York. "A birdwatchers dream". Bald eagles and osprey are a common site. Bashakill wetland is home to over 200 species of birds and is a state designated bird conservation area. Limited to 10 people w/o kayaks, and 10w/ their own kayak.

Directions: Meet at the South Road Boat Launch (across from winery) at 8:45am. Carpool from Greenkill.

What to Bring: Bring bag lunch, binoculars and water shoes.

Trip Leader: Call Tom at 845-500-1170 for additional details.

Brandwein Nature Learning Preserve

Keith Wheeler and Brandwein Institute Directors

The field trip to the Brandwein Nature Learning Preserve will offer a variety of 90-minute outdoor workshops, guided trail walks, and group discussions. These will be presented by selected Brandwein Directors including Bill Hammond, Daniel Bisaccio, Kasey Stankunis, Dave Foord, Jack Padalino, Mark Schaefer, Brad Smith, Cheryl Charles, Lisa Janeway, Alan Dandler, Marily DeWall, Bill Bavoso, Henry Burger, and Keith Wheeler. Brandwein Fellows Larry Peterson and Kevin DeVizia and other members of the Brandwein Community will participate.

Topics include citizen science, advanced geo-caching, nature photography, birding, exploring nature with children, nature journaling, the history of the Preserve, and more. A **great field trip** for EE Center staff members, educators, parents, photographers, birders and 'nature journalists'.

Directions: Van and car pool from Greenkill. Lunch will be provided.

Trip Leader: Call Keith Wheeler at 814-441-2887 for additional details.

Saturday, 10:45 AM – 12:15 PM

Spiders!!!

Christina McLaughlin, Environmental Educator

Sarah Conley, Environmental Education Assistant

We will cover the natural history and biology of spiders, with at least one live spider present. We'll also include a few (1-2) hands on activities from Project Learning Tree or Project Wild relating to spiders and their relatives.

Plaited Birch Bark Basket

Jared Kapsiak, Outdoor Education Consultant, formerly of the Ashokan Center

Plaited birch bark baskets are a beautiful, practical, and durable craft & tool. Birch bark's properties of flexibility, toughness, and water repellency make it an ideal crafting material for lightweight, strong baskets that last for years. We will focus on building a small plaited basket in class, in addition to a discussion on harvesting material, preparing for the project, and how to maintain your finished basket over time. Excellent craft, survival, nature immersion, place-based skill.

Fire Building and Tin Foil Cookery NOTE: \$5 fee

George Steele, Environmental Educator

One of the most cherished moments of camping and outdoor education is gathering around a campfire. Join this workshop to learn campfire-building skills from an international champion campfire builder. Then enjoy the fruits of your labors eating a tinfoil dinner a classic in campfire cuisine.

Aquaponics with Elemental Roots

Louis Barthelemy, Founder 'Elemental Roots'

Elemental Roots presents their program on aquaponics, its relativity to the future of agriculture by giving people an alternative, sustainable method of farming and its integration into the education system. Workshop leader will share the educational curriculum created for schools in partnership with the Highlands Nature Friends non-profit and their establishment at The New Weis Center for Education, Arts, & Recreation.

Stream Sampling

Kaeti Stoss, Program Director, Delta Environmental and Adopt-a-Stream Program

Outdoor educators will be able to try stream sampling with a hands-on demonstration using a stream located at the conference site. We will walk through the process of collecting sorting identifying and analyzing a stream sample. There will be resources on how to tie stream sampling into your programming and discussion on how to incorporate citizen science into a stream sampling programs.

Saturday, 1:45 PM – 2:30 PM

Write Now: it Means Everything!

Jessica Kratz, Coordinator, Greenbelt Nature Center, Staten Island, NY; NYSOEA VP Communications

From taglines to social media posts to thoughtful essays, written communication is an important part of outdoor education - and our everyday lives. Examine examples of clear, concise, effective writing to help determine which medium(s) are right for your message. While hopefully, many of us have moved beyond term papers, we will take a fresh look at how to cite sources concisely in the age of Wikipedia and memes.

Tips and Tricks for Active Nature Learning: Keep Things Moving!

David Stokes, *The Frog Chorus Nature Education/CEO Education Entertainer*

Our focus will be in Natural Science concepts such as Energy flow, Cycles, Diversity, Community, Adaptation and Change. This workshop will involve the participants immediately and will include techniques for taking the activities back home, to the participants' workplace. The presenter has used these activities extensively since 1974 throughout the United States. Kids want to move and make noise; we will move and make noise! The secret to life is to participate, try to sleep through this workshop!

Grocery Bag Upcycling

Linda Besio, *Nicandri Nature Center, Naturalist*

Learn how to upcycle your grocery bags, such as Walmart bags, using an iron and parchment paper. The material made has the look and feel of faux leather, can then be sewn, taped or melted into useful and reusable items.

Saturday, 1:45 PM – 3:15 PM

Quest: Backpacking with Teens

Susan Cobb *Retired teacher, Leader of Fredonia Middle School Quest Backpacking expeditions; author - "Quest: A Guide to Backpacking with Teens"*

For thirty years, Fredonia Middle School has offered a unique outdoor education experience known as Quest Backpacking. Led by Susan and Stephen Cobb, each spring sixty 8th graders, twenty-five high school student leaders and a team of adults strike out on three hikes totaling fifty miles over seven days. Quest challenges teens to give up cellphones, overcome fears, and connect with nature. This workshop offers step-by-step guidance to schools and communities on creating and organizing low cost, inclusive, volunteer driven outdoor adventure opportunities for youths. It includes tips on recruiting, equipment, finances, routes and the special needs of novice teen hikers.

Wild Walks: Being the Beauty that You Are

LoraKim Joyner, *International Conservatorist, Wildlife Veterinarian, Minister and Co-Director -One Earth Conservation*

Wild Walks are guided walks that help nurture nature - ours, theirs and Earth's. The walks invite participants to move deeply connect to nature so that they can live with more resilience, joy, and contribution to life around them. For a short time, we cast off our culture's attempt to domesticate us and return to our wild selves. We begin with a guided walk that contains practices to grow five natural intelligences - emotional, social, multispecies, ecological and spiritual. The second half of the walk we will chatter, identify birds and trees, and enjoy the wonder of nature.

Tips of the Trade

Carl Heitmuller, *Environmental Educator/ Assistant Camp Director*

Come for a presentation / round table on how to plan, organize and execute an awesome fun week of camp. Take advantage of Carl's 20 plus years of running a summer day camp and learn tips and techniques for planning a camp that will make the kids not want to leave and the parents want to bring them back each year. There is an art to a successful camp. Please join us to learn and definitely come to share your Tips of the Trade!

High Team Elements

Greenkill Outdoor Education Staff

While in design phase for another element, our current high ropes elements are (1) Giant's Ladder and (2) The Nessie. Both elements are a team-belay system. All helmets and harnesses will be provided by Greenkill. NOTE: due to the nature of our team elements, we need at least 10 participants to facilitate, so bring your friends!

Beginner Mountain Bike Experience

Ben Cheek, Director of Activities, Outdoor Club of Port Jervis and Mountain Bike Program Director, Camp Deer Park

A beginner mountain bike ride will be offered on the trail system at Greenkill demonstrating mountain bike skill coaching and how mountain biking can be a pathway to many outdoor education topics. The ride will be no-drop and we'll stop frequently to talk through skills and topics covered in the morning session (not required). Bring your own bike or ride one of ours (limit 12 loaner bikes). We'll adjust ride distance to group member's level (max 8 miles).

Saturday, 2:45 PM - 3:30 PM

Teaching w/ Turtles

Tracy Thomas, Massena Nature Center, Executive Director

Live animals allow us to connect and engage with our audience in amazing ways. Beyond show and tell, informal education and ID - we've using our 8 live turtles to teach math, science and more. From turtle races to building mazes, taking weights to target training. How can turtles (and other animals) be part of the team?

Lasting Community Partnerships: Education & Community Interwoven

Adam Gollwitzer, Public High School Science Teacher

My students and I made a goal one year: that everything we did would have to benefit the community that surrounds our school. The results of meeting this challenge were so impactful that we decided to make it a standing rule. This workshop will share the highlights of that journey to a community-focused group of learners. Strategies that proved successful along with some pitfalls will be shared. If your interest or desire is extended the community outreach of your program then this workshop will be valuable.

Green Schooling - Future of Schooling

Virendra Raat, Director GREEN Mentors, India

Green School is Nature connected Universal model Schooling ...driven by local law and nature and inspired by global values. Green School honors social, economical and environmental values of learners blending outdoor experiences with indoor learning. The foundation of Green School is based on "5 Elements Nature ": **Earth, Water, Air, Sky and Fire**. The benefits are; a happy classroom, happy learning, happy teachers, healthy students, happy parents, enhanced Learning outcomes and reduced maintenance cost

Sunday Workshops & Field Trips

Sunday, 9:30 AM -11:00 AM

Bizarre Geology, Plants & Animals Around the World

Cathy Law, High School Science Teacher, New Paltz High School

Join 56-country veteran traveler, Cathy Law, aka Miss Adventure, as she takes you on an armchair journey of her worldwide quest for biodiversity gone bad. It is a jungle out there, but it is also a swamp...and a desert. Be awestruck by photos of bizarre formations of geologic landscapes and learn about how animals and plants either eat or get eaten. No passport needed to take a glimpse of the wild side of diversity of geology, plants and animals from countries such as Columbia, Senegal, New Zealand and Nepal and much more.

5 Fs of Nature and Other Shortcuts to Learning

Tom O'Dowd, High School Science Teacher, New Paltz High School

Nature is vast. How do you break it down into digestible parts? Come learn fun frameworks for teaching and learning outdoors. This workshop will partially take the form of an outdoor lesson, so we'll learn some natural history as we discuss ways to teach it!

Cordage Making-Reverse Wrap Technique

Jared Kapsiak, Outdoor Education Consultant, formerly of the Ashokan Center

We will practice one of the oldest traditional skills common to human cultures worldwide. The Reverse-Wrap technique uses a minimum of material and yields a high-strength, durable, working tool. Handmade cordage can be incorporated into toolmaking, survival skills, clothing production, handcrafts, and traditional living skills. There will be hands-on practice, and examples of a variety of natural and human-made materials, for people to work with. This is a crossover skill for nature education, team-building, historical technology, traditional skills, survival workshops, and is applicable to child and adult students.

Sunday, 9:30 AM AM-11:15 AM

Hawk Watch – The Brandwein Institute’s Invitation to experience The Greatest Show Above the Earth: Migrating Hawks

John (Jack) Padalino, President emeritus of the Brandwein Institute, invites you to experience the Greatest Show Above the Earth at the I 84 rest stop West between exits 2 and 1. Field trip begins with a brief hawk identification session. Data we collect will be shared with the Hawk Migration Association of North America HMANA. The Interstate 84 rest stop is on the north-southeastern flyway habituated by predatory birds, raptors: The Kittatinny-Shawangunk Ridge and Corridor, which is a relatively unbroken ridge that extends 250 miles across parts of New York, New Jersey, and Pennsylvania. It begins at Rosedale, NY at the northern end of the spectacular Shawangunk Ridge, crosses NJ into PA at Delaware Water Gap National Recreation Area, and continues in PA almost to the Maryland border.

For three quarters of a century and more, ornithologists, hawk watchers, birders, and nature lovers have observed, studied, and photographed autumn hawk migrations. Hawk Mountain is the most famous of the watch sites. Important local observation sites are I 84, Sunrise Mountain, and Raccoon Ridge. Between 10,000 -20,000 migrating raptors of 16 species are counted every autumn at these sites including Bald Eagles and rarer Golden Eagles.

Directions: Van and car pool from Greenkill

What to Bring: Binoculars. Migrating raptor identification guides and hand-outs provided by the Brandwein Institute.

Trip Leader: Call Jack Padalino at 845-325-0536 for additional details.

Sunday, 9:30 AM – 10:15 AM

What the Health?! Enhancing human health through nature is just what the doctor (should) order!

Amy DiRenzo, Associate Professor, RPLS Dept., SUNY Cortland

Josh Teeter, Environmental Educator, NYS Office of Parks, Recreation and Historic Preserves

This session will examine issues of human health wellbeing and quality of life from an ecological perspective. We'll explore ways natural environments can enhance physical, mental, emotional and spiritual wellbeing. A review of the historical and current research in this area will be presented and accompanied by techniques for using natural environments to enhance wellbeing that attendees can implement on their own programs and settings.