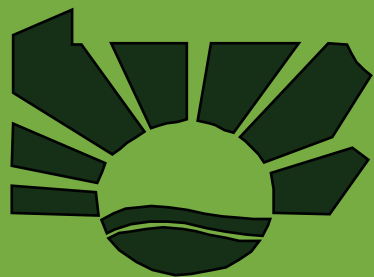


A Sense of Place: Our Outdoor Heritage



2010 PAEE Conference
Normandy Farm Hotel & Conference Center
Blue Bell, PA

March 11th - 13th, 2010

Welcome



Welcome to the PAEE annual conference. The times are very exciting in the environmental education world. There is a general surge throughout the country of interest in the environment, and we are finding people turning to state environmental leaders, organizations, agencies, and centers for guidance. Many of these people are a part of PAEE, so here you will find an opportunity to network with them, attend their workshops, and listen to their presentations.

Working to pass the No Child Left Inside Act as part of the renewal of the national Elementary and Secondary Education Act has drawn together an unprecedented number of organizations in support. You will be hearing a lot about it at this conference. Hope you catch the enthusiasm - it is VERY contagious!

I am so glad you came to our conference. Please introduce yourself to me if we have not met, and stop for some conversation, if we have.

Ruth Roperti,
PAEE President

Welcome to the 2010 conference in the Greater Philadelphia area. This area has a long and storied relationship with environmental education and issues. The conference committee has worked to bring you a sampling of some of the exciting aspects of what EE offers in this area. Presenters across the state will cover a wide range of interests through the workshops. This conference will begin the process in Pennsylvania for NAAEE sanctioned certification for environmental educators. This future certification along with the pending legislation for the No Child Left Inside Initiative makes this an exciting time to be part of environmental education. You are all part of the community of environmental caring and sharing. The strength of the conference and PAEE are the folks that attend and participate through workshops, field experiences, and the town meeting. We all garner inspiration from keynote speakers and lively discussion that pervades these two days. We sincerely hope your experiences at the conference bring a bevy of new ideas and inspiration. On behalf of the conference committee, thank you!

Gail Hill, Conference Chairman; Conference Committee;
Martha Moore, Lindsay Smith, PattiAnn Cutter, Carolyn Koch, Gisselle Cosentino

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Conference at a Glance

Thursday, March 11

6pm-9pm	Registration	Main Lobby/Entrance
6pm-9pm	Meet-n-Greet	Silo room

Friday, March 12

6:30-7:30am	Informal Birding and Walk	Evans-Mumbower Mill Restoration (meet in the lobby)
7am-1pm	Registration	Lobby
7:15-8:15am	Breakfast	Grand Ballroom/Franklinville Room
8:30 or 9am	Field Studies Leave	Lobby
8:30-9:30am	Workshops	Assigned Rooms
9:40-10:40am	Workshops	Assigned Rooms
10:50-11:50am	Workshops	Assigned Rooms
12:00 noon	Lunch	Grand Ballroom
12:45-2pm	PAEE Annual Meeting	Grand Ballroom
2:15-3:15pm	Workshops	Assigned Rooms
3:25-4:25pm	Workshops	Assigned Rooms
4:35-5:35pm	Workshops	Assigned Rooms
5:35-6:30pm	Exhibit Showcase Just for You! Activities & Stuff	Grand Ballroom
6:30-7:15pm	Dinner	Silos Ballroom
7:15-8:15pm	Keynote Speaker, Don Baugh	Silos Ballroom
8:30-9:30pm	Wissahickon Chicken Shack	Silos Ballroom

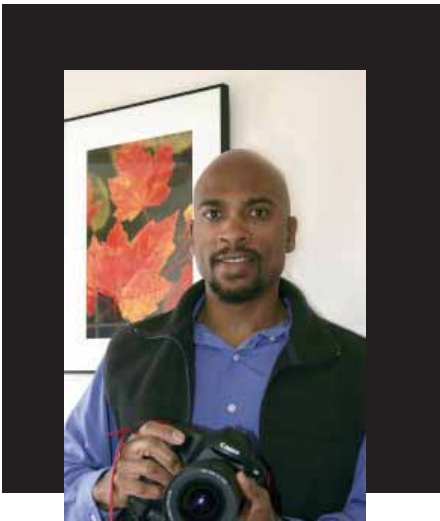
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Saturday, March 13

6:30-7:30am	Informal Birding and Walk	Evans-Mumbower Mill Restoration (meet in the lobby)
7am-1pm	Registration	Lobby
7:15-8:15am	Breakfast	Grand Ballroom/Franklinville Room
8:30 or 9am	Field Studies Leave	Lobby
8:30-9:30am	Workshops	Assigned Rooms
9:40-10:40am	Workshops	Assigned Rooms
10:50-11:50am	Workshops	Assigned Rooms
12:00 noon	Lunch	Grand Ballroom
12:45-2:10pm	EE Town Meeting	Grand Ballroom
2:15-3:15pm	Student Forum	Assigned Rooms
3:25-4:25pm	Workshops	Assigned Rooms
4:35-5:35pm	Workshops	Assigned Rooms
5:35-6:30pm	rEEsource Showcase Auction Winners Announced	Grand Ballroom
6:30-7:15pm	Dinner	Silos Ballroom
7:15-8:15pm	Keynote Speaker, Dudley Edmonson Awards	Silos Ballroom
8:30-?pm	Coffee House	Silos Ballroom

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Keynote Speakers



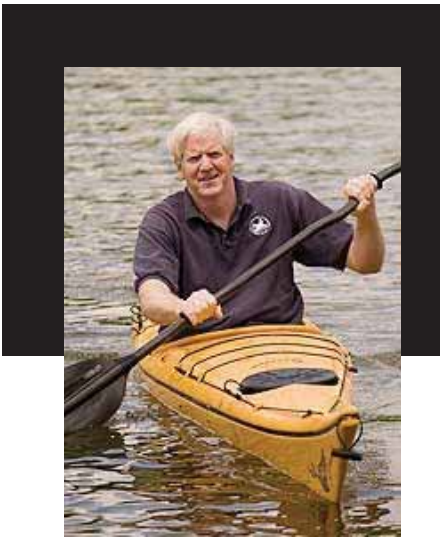
Dudley Edmondson

In Celebration of Wild Places: Connecting People to Nature

Dudley Edmondson is a Nature Photographer, Author and all around outdoor enthusiast. As a seasoned photographer he has spent the last 20 years of his life traveling around the nation working with wild subjects in wilderness spaces in just about every habitat America has to offer.

When he is not working on a photographic assignment or traveling on a speaking engagement, he spends most of his free time cycling, kayaking, skiing, swimming or trail running. He is proud to admit that he owns 4 bikes and is always looking for another one to add to his collection.

Dudley's most recent project is his first book: *Black & Brown Faces in America's Wild Places*. To complete the book he spent 4 years traveling around the nation in search of other African Americans who were as passionate about the outdoors as he was. The goal of the book is to encourage other African Americans to get out and experience nature for their own mental and physical health. If the book is successful he hopes it will give African Americans a sense of ownership for the nation's Green spaces and Wilderness Areas, which he believes is key to ensuring protection of the nation's "Natural Heritage" for future generations of Americans.



Don Baugh

Director of the No Child Left Inside Coalition (NCLI)

No Child Left Inside Act—the Game Changer in Environmental and Outdoor Education

Don came to Chesapeake Bay Foundation as the Assistant Manager of the Meredith Creek Estuarine Education Center in Annapolis, Maryland. He was later promoted to the position of Education Director. In 1995, Don's position was elevated to that of Vice President for Education. His current job responsibilities include: steering the direction and vision of CBF's education program; acquiring funding; overseeing the budget process; overseeing capital improvements; serving as a liaison to the Board of Trustees; and developing policy for the entire organization.

Prior to joining the Chesapeake Bay Foundation, Don attended the University of Maryland where he founded the University Conservation Club in 1975 and received a BS in Conservation in 1977. From 1985 to 1989, he was a member of the Maryland Advisory Committee on Environmental Education and member of the Association of Environmental and Outdoor Educators. He served on Maryland's Conservation Education Council from 1982 until 1985 and was the commissioner of the Severn River Commission from 1993 to 1995. Additionally, he was a founding board member of the Mid-Atlantic Marine Educators Association (1982-1985) and Friends of Bull Run (1995-2000). In 1992, Mr. Baugh accepted the Presidential Medal for Environmental Excellence on behalf of CBF's education program from President George Bush.



Entertainment

Wissahickon Chicken Shack

Friday 8:30-9:30

A progressive seven-piece roots collective, the Wissahickon Chicken Shack rocks keys and drums (progressive, right?) while plucking and sliding across five sets of acoustic strings that conspire to crack the cocoons of your most tired of huddled masses, pull out the inner honky-tonk heroes within us all and charm 'em into swaggering out, calming down and taking it all in stride.

Live, the Shack's inspired acoustics send us soaring into crisp Appalachian air, crying with the lonely cactus of the dusty desertlands, and potentially, when things get very crazy, grooving along with a few spooky 60's-era Frisco licks.

It's the goodtime, hip-shaking equivalent to buying you a frosty beer and fat slice of hummingbird cake. The heart wonders: why isn't life always this much fun?



Ongoing Activities

Letterboxing

Bring your compass, (we shall have some available for you to borrow), and get outdoors! Follow the clues to the strategically placed letterboxes on the grounds of the conference center. A prize will be awarded for the first 10 that find all the boxes. Bring your proof of your finds to the raffle area.

Letterboxing is an intriguing "treasure hunt" style outdoor activity. Letterboxers hide small, weatherproof boxes in publicly-accessible places (like parks) and post clues to finding the box online on one of several Web sites. However, clues to finding some of the most highly-sought boxes are passed around by word of mouth. There are about 20,000 letterboxes hidden in North America alone. Individual letterboxes usually contain a log book, an often hand-carved rubber stamp and may contain an ink pad. Finders make an imprint of the letterbox's stamp on their personal log book, and leave an imprint of their personal stamp on the letterbox's logbook.

Letterboxing is said to have started in England in 1854 when a Dartmoor National Park guide, James Perrott of Chagford, left a bottle by Cranmere Pool with his calling card in it an invitation to those who found the bottle to add theirs. Eventually, visitors began leaving a self-addressed post card or note in the jar, hoping for them to be returned by mail by the next visitor (thus the origin of the term "letterboxing;" "letterbox" is a British term for a mailbox). This practice ended in time, however, and the current custom of using rubber stamps and visitor's log books came into use. It caught on in the US in 1998 after an article in Smithsonian magazine.

Scheduled Activities



Thursday's mEEt & grEEt

Thursday 6:00-9:00pm

Connect with old friends & meet new folks! Enjoy light refreshments (cash bar) while learning more about PAEE and how to get the most out of your conference experience.

PAEE Annual Meeting

Friday 12:45pm-2:00pm

Members will learn what is happening with EE in PA. Guest speakers include Patti Vathis, "The State of the Environment and Ecology", Pennsylvania Department of Education; Kathleen Paul, "The State of the Pennsylvania Center for Environmental Education", PCEE, with an update on PAEE by President, Ruth Roperti.

Exhibits Showcase!

Friday -5:30-6:00 pm

Take the time to visit this special time at the exhibit area. Search the area to complete your questions for the ACT 48 credits.

Environmental Town mEEting:

Environmental Literacy in the 21st Century

Saturday 12:45-2:10 pm

Co-sponsored by the Pennsylvania Center for Environmental Education

The pending "No Child Left Inside" legislation requires every state to create an environmental literacy plan, which begs the intriguing question, just what is environmental literacy? What set of understandings and core competencies should an eco-literate person possess? What skills and values?

In a highly interactive town meeting, our panelists grapple with a question that has vexed environmental educators for decades. This year's panel includes Patti Vathis, the Ed Department's environment and ecology advisor, Brian Day, executive director for the North American Association for Environmental Education, Kathleen Paul, director of the Pennsylvania Center for Environmental Education, and Mark McLaughlin, director of the Shaver's Creek Environmental Education Center near State College. Moderated by Mike Weilbacher, former PAEE president and director of Lower Merion Conservancy

Student Forum

Saturday 2:15-3:15 pm

College students as well as middle and high school students will present their projects and special interests in the field focusing on the environment. Join them in this round-robin session. Each student presentation is 15 minutes, thus enabling you the opportunity to learn what's happening in all the sessions.

rEEsource Showcase

Saturday 5:35-6:30

Join us in the main area of the Grand Ballroom. Various EE exhibitors will have loads of grand ideas and resources for you to take back with you. Often it is the "little things" that someone else uses or thinks of that would fit perfectly into your classroom or programming. Great ideas from great people!

2010 PAEE Banquet and Award

Presentations

Saturday 6:30-8:15

Celebrate our 2010 PAEE award recipients. These significant contributions to the field of environmental education are recognized each year.

Awards:

Keystone Award: The Keystone Award is the most prestigious award. It is presented to someone who has successfully dedicated their time to advancing the quality and opportunities of environmental education in Pennsylvania.

Outstanding Environmental Educator: To be considered, the nominee must be "an individual who made a significant teaching contribution to the environmental education field in a formal or non-formal setting, through either curriculum development or teaching."

Daisy S. Klinedinst Memorial Award: The award recipient should be "an educator, new (less than five years) to the field, who is involved in environmental education and who seeks to continue to expand his/her involvement in environmental education."

Outstanding Environmental Education Program: This award recognizes an exemplary environmental education program which could be used as a model program.

Business Partner Award: This award recognizes a member of the business community that has made significant contributions to promote environmental education within the Commonwealth of PA.

Government Partner Award: This award recognizes a government official who serves on a local, state or national level and has demonstrated significant support for environmental education within the Commonwealth of PA.

Outstanding Contribution to the Environmental Field: This award is presented to someone who has contributed to environmental education in a non teaching area, such as publishing or research.



Exhibit Hall Info & Activities

Peruse the exhibit hall; there will be plenty of new exhibitors and items of interest. New programs, resources and connections for everyone.

PAEE Ticket Auction

Great items donated by our kind friends. Books, games, shirts, even food will entice everyone to take advantage of this great deal.

Tickets \$2 apiece or 6 for \$10.

What a bargain for these items. Drawing will be held Saturday at 4:30pm. Visit often!

The PAEE Raffle benefits the conference scholarship fund!

Our Outdoor Heritage

Pick up your answer sheet in the auction area. Search the exhibits and auction items for the clues to the answers. Turn in your completed sheet to the box in the auction area. You will be entered in a drawing for a prize. The winner will be drawn Saturday at 6:15 pm. Completion of entry for Act 48 Credits.

Exhibits Showcase!

Friday -5:30-6:00 pm

Take the time to visit this special time at the exhibit area. Stuff for you will be available, Activities to enhance your knowledge as well as just plain fun! Search the area to complete your questions for the ACT 48 credits.

rEEsource Showcase

Saturday 5:35-6:30

Join us in the main area of the Grand Ballroom. Various EE exhibitors will have loads of grand ideas and resources for you to take back with you. Often it is the “little things” that someone else uses or thinks of that would fit perfectly into your classroom or programming. Great ideas from great people!



Field Studies (Friday)



Silver Lake Nature Center

Saturday Morning March 13
leave at 8:30am return by noon

Visit a natural play area designed for children to experience the outdoors and promote creative play. A gem in Bucks County Park System, Silver Lake lies within the coastal plain, therefore it provides a unique look at rare species in Pennsylvania.



Valley Forge National Historical Park

Friday Morning March 12
leave at 9:00am return by 3:00pm
(box lunch provided)

Valley Forge National Historical Park commemorates more than the sacrifices and perseverance of the Revolutionary War generation; it honors the ability of citizens and their leaders to pull together and overcome adversity during extraordinary times.

Valley Forge National Historical Park encompasses an area of great historical significance, as well as protecting a substantial area essential for the preservation and protection of native biodiversity. The 3,500-acre park is one of the few, large, contiguous, protected areas in southeastern Pennsylvania that has a variety of habitat types including a river, numerous streams and forested wetlands, eastern deciduous forest, and tall-grass meadows. The park is surrounded by residential, commercial and industrial developments of Montgomery and Chester Counties on all sides, thus it is an oasis for native wildlife.

See the park from an environmental focus. You will learn about the land management, significant impact of the environmental education that is taking place on this historic site.

John James Audubon Center at Mill Grove

Friday Morning March 11
leave at 9:00am return by 2:00pm
(box lunch included)

From 1803 to 1806 Mill Grove served as the first American home to John James Audubon, the renowned artist and naturalist. It was here that an 18-year-old Audubon first fell in love with the American landscape and sketched native wildlife and flora. By 1827 Audubon had turned his passion into profit, publishing *The Birds of America* - a groundbreaking study of North American birds depicted in never-before-seen detail and realism. Your tour will include many new and exciting facts. A raptor presentation will round out your experience.





Field Studies (Saturday)

SAVE House (Students Against Violating the Earth, Souderton High School)

Saturday Morning March 13
leave at 8:30am return by noon

The SAVE student environmental education campus is made up of two buildings and a nature center. It is a one-of-a-kind in the US. It was designed, built, paid for and managed by this student group from Souderton Area School District. SAVE partnered with over 70 local businesses and professionals to construct the campus. It has won two national awards for best student environmental project. It was constructed in the late 1990's as a fully functional environmental demonstration home.

The CONNECTIONS building is a classroom designed by students as a passive solar building. The entire solar system produces enough power to run both the classroom building and the house. Extra electricity is fed into the elementary school across the parking lot.



Fairmount Water Works

Saturday Morning March 13
leave at 8:30 am return by 1:00 pm
(box lunch included)
we will be using public transportation

Who cares that you don't know the difference between a watershed and a woodshed? At the Fairmount Water Works Interpretive Center you and your family can learn about watersheds and have a ton of fun doing it. Fly a helicopter simulation from the Delaware Bay to the headwaters of the Schuylkill River. Or visit Pollutionopolis, America's most contaminated and disgusting town, to see how a city can really mess up its water supply.

Included in this experience is a tour of these historical facilities, historical film and an on-site explanation of the education that is presented.

John Heinz, National Wildlife Refuge

Saturday Morning March 13
leave at 8:30am return by 2:00pm
(box lunch included)

The John Heinz National Wildlife Refuge at Tinicum is located near the confluence of the Schuylkill and Delaware Rivers about 1 mile from the Philadelphia International Airport. Over the years, the freshwater marshes have become a resting and feeding area for more than 280 species of birds, 80 of which nest here. Fox, deer, muskrat, turtles, fish, frogs and a wide variety of wildflowers and plants call the refuge "home".

Since its establishment in 1972, the refuge has worked with area educators to provide educational opportunities for their students. Our programs focus on providing teachers with the information, skills, and resources to incorporate the environment into their curriculum and to utilize the refuge as an outdoor classroom. "Reconnecting Children and Families to Nature" is a national program and priority of the U.S. Fish and Wildlife Service.



Friday Workshops



8:30 - 9:30

Journaling towards a Sense of Place

Room: COOLIDGE

Strand: THE ARTS & EE

Heidi Mullendore, Canoe Creek State Park
(2 hour session, concludes at 10:40)

Nature journals are a wonderful and comprehensive way to establish meaningful connections with a place. Journals can be used over time to record the seasonal rhythms of a place; to establish a picture of ecosystems and population; to make a place come alive through descriptions of experiences; to portray the wonders of a place through mapping and to fashion and strengthen in-depth bonds via observation and awareness of what lives in that place. Workshops participants will discover the joy of stump sitting and learn writing and drawing techniques to raise comfort level. Participants will receive and build their own nature journal to take home, complete with handouts for and examples of journal entries and a detailed resource list. Weather permitting at least half of the workshop will take place outside; please dress appropriately for walking and sitting outdoors.

Sustainability in Sight: Embracing Facility as a Teaching Tool; A Case Study of the Sustainable Urban Science Center of Germantown Friends School

Room: GRANT

Strand: CONSERVATION EDUCATION

David Ade, AIA, LEED AP, Principle, SMP Architects and Tavis Dockwiler, ASLA, Principle, Viridian Landscape Studio Green buildings provide a unique opportunity to educate building users about stewardship of the environment green school buildings provide an even more valuable opportunity to consider a project's sustainability within an institution's pedagogical program. SMP collaborated closely with Germantown Friends School (GFS) to conceive and design their new science classroom facility as a didactic green building. Through power point slides and group discussion, the presenters will share their experiences in designing and constructing the facility. Stormwater management, green roofs, rainwater cisterns, geexchange energy, photovoltaic arrays, daylighting, natural ventilation and resource efficient building materials will be highlighted. The inner workings of these systems are available in "live" time via an interactive monitoring system that will be covered as well. The project's development will be illustrated through animated graphics, construction progress and completed photos. Featured throughout the presentation will be examples of how the school's science program has embraced the facility's sustainable strategies.



Watershed Case Studies as Schools, and Schuylkill Action Students Initiative

Room: JEFFERSON

Strand: CONSERVATION EDUCATION

Susan Harris, Montgomery County Conservation District and the Schuylkill Action Students Coordinators

Case studies on implementation of water quality best management practices. Case studies will include project descriptions, before and after pictures, funding sources, technical support resources, and information on student and school district involvement. Additionally, information will be provided on other environmental resources and programs for teachers. An introduction on the Schuylkill Action Students Initiative including program goals, resources, and how school districts can bring the program into schools.

Greening Your School

Room: LINCOLN

Strand: CONSERVATION EDUCATION

MaryAnn Boyer and Ellen Kruger, Springside School

The goal of this workshop is to provide audience participants with examples of hands-on projects teachers and students can do to green their campuses. Some of the topics discussed are creating a traffic circle tree island using native plants, designing a campus compost pile using reusable products, finding ways to implement alternative energy at school, encouraging interdisciplinary projects between artist and scientists, and participating in the annual Green Cup Challenge! Lastly leading an upper school student environmental club to tackle environmental challenges at school and spread awareness of environmental issues, thereby making all of the above initiatives more student-driven.

GreenSylvania Recycling Competition

Room: ROOSEVELT

Strand: CONSERVATION EDUCATION

Donna M. McGowan, Recycling Program Manager for EPA Region 3, Amy Schirf, Centre County Solid Waste Authority GreenSylvania is a competition that has been patterned after RecycleMania, a National recycling and waste minimization competition for colleges and universities throughout North America. GreenSylvania was created to assist K-12 schools with the implementation and/or enhancement of a paper recycling program while reducing their overall waste stream and to generate enthusiasm among students and teachers for recycling at school, at home, and at special events. GreenSylvania is intended to increase the amount of material recycled by the schools; to educate the administration on the various ways that they can reduce their overall waste, increase their recycling rate, and purchase items made of recycled material while saving money; decrease the volume of material going to landfills; improve the public's perception of their school; and it provides great educational opportunities. A GreenSylvania representative will teach the class how they can become a part of GreenSylvania, who to contact and the tools to run the program. Case studies will be showcased.



Friday Workshops

9:40 - 10:40

Journaling towards a Sense of Place

Room: COOLIDGE

Strand: THE ARTS & EE

Heidi Mullendore, Canoe Creek State Park
(2 hours session - continued from previous session)

Maryland Green Schools Awards Program

Room: GRANT

Strand: CONSERVATION EDUCATION

Cindy Etgen, Environmental Educator, Maryland Department of Natural Resources

Welcome to a great adventure for your school, your students, and your community! While there are many “Green School” programs in the country, most are focused on energy conservation alone. The Maryland Green School Awards Program is a holistic, integrated approach to authentic learning that incorporates local environmental issue investigation and professional development with environmental best management practices and community stewardship.

MAEOE’s Green School Awards Program celebrates Maryland’s model environmental education efforts which combine classroom studies with the use of best management practices at schools and involve the community. These are noncompetitive awards to recognize and celebrate the achievement of schools meeting environmental education criteria.

Pigeontown to Blue Bell: Exploring Local History, Heritage, Ecology and Art Through the Disappearance of the Passenger Pigeon

Room: JEFFERSON

Strand: OUR HERITAGE - HISTORY & EE

Margaret Zak, Partner of Sense of Place Learning and Paula G. Purnell, co-partner of Sense of Place Learning

The Iroquois celebrated the passenger pigeon in dance. Early explorers described “infinite multitudes” of the migrating birds that blackened the sky with their sheer numbers. Estimates of passenger pigeon populations in North America at one time reached 5 billion. Through deforestation and over-harvesting, however, the population began to decline in the late 1800s, complete devastation quickly followed and finally, extinction in 1914. What does it mean to lose a population of billions of birds in a span of 100 years? SPL’s learning model invites participants to explore the social and ecological implications of the loss of the passenger pigeon through folk song, photography, local stories, environmental investigation, and mathematical hands-on activities. Supplemental materials and resource lists will be provided.

Outdoor Adventures-Engaging Children Outdoors

Room: LINCOLN

Strand: CONSERVATION EDUCATION

Melissa Reckner, Director, Kiski-Conemaugh Stream Team
Outdoor Adventures is a favorite, annual field trip offered free-of-charge to public, private, and home school students in Kindergarten through six-grade. Held each spring at the Summer’s Best Two Weeks camp at the scenic Quemahoning Reservoir in northern Somerset County, Outdoor Adventures inspires youth to become the next generation of conservation stewards. Children are engaged in over 40 hands-on displays, activities and presentations offered by numerous partner organizations that teach them about our cultural and natural heritage. Students may churn their own butter, make animal track prints, fish for trout, witness the power of alternative energies, go for a nature hike, identify invasive and native species, and much more! Activities are linked to PA Academic Standards, and up to 600 students participate each day of the event! Dozens of partners, sponsors, and volunteers make Outdoor Adventures possible. Outdoor Adventures is a key component of Outdoor Heritage Month, an initiative led by Kiski-Conemaugh Stream Team and Natural Biodiversity, and endorsed by the PAEE.



Image by: Bob Bailie

North American Association of Environmental Education (NAAEE) Helping to Develop the Early Childhood Environmental Education Guidelines

Room: ROOSEVELT

Strand: CONSERVATION EDUCATION

Ed McCree, President of Environmental Education and Conservation Global

These Guidelines, currently under development by NAAEE, comprise a set of recommendations for high quality environmental education programs for young children. Their overall goal is to start an appropriate and positive process whereby educators can help young children begin their journey towards becoming environmentally literate youth and adults. Come join us to learn more about the most recent draft of these new guidelines and to provide input and recommendations as NAAEE works to complete this latest addition to the Guidelines Series.

Friday Workshops



10:50 - 11:50

Educator Opportunities in PA State Park

Room: COOLIDGE

Strand: CONSERVATION EDUCATION

Ian Kindle, Environmental Education Specialist, Delaware Canal State Park with Sarah Bellois, Delaware Canal State Park and Bonnie Tobin, Tyler State Park

Pennsylvania has an outstanding state park system, and earned the 2009 National Recreation and Parks Association Gold Medal for best state park system in the nation. So how can Pennsylvania teachers take advantage of this wonderful resource? In this workshop we will go over a few of the many state and national teacher trainings that State Park educators can provide: Project WET, Project WILD, PA Songbirds, Watershed Education, Wonders of Wetlands, and more. We will also acquaint participants with the location of PA's 117 State Parks, and help them find out whom to contact in the park nearest their home. Educators from several of southeastern PA state parks will be on hand share opportunities in their parks.

We will also introduce educators to the PA State Parks Online Calendar, a searchable statewide database of public events, teacher trainings, and educational opportunities.

Overview of the Environment and Ecology State Standards

Room: GRANT

Strand: CONSERVATION EDUCATION

Title: Patty Vathis, Environment and Ecology Curriculum Advisor, Pennsylvania Department of Education

Learn new and exciting updates for education in PA, and what is happening concerning the State Standards for Environment and Ecology.

Outreach to Children/Access to Nature: Bringing Nature to the Lives of Underserved Children

Room: JEFFERSON

Strand: CONSERVATION EDUCATION

Stacy Carr – Poole, Director of Education, Riverbend Environmental Education Center

In 2006, Riverbend Environmental Education Center set the goal of providing nature and science education to children in underserved areas of Southeastern Pennsylvania. In just three years, the program has grown to be about 50% of Riverbend's programs. In this presentation we will explore the model that Riverbend created to achieve this goal and how others can do the same. From identifying your target audience to creating the curriculum to evaluating the program to finding the funds will be addressed

Science Integration: A Case Study at the Environmental Charter School at Frick Park

Room: LINCOLN

Strand: THE ARTS & EE

Melanie Cowherd and Joe Burke, educators, Environmental Charter School at Frick Park

Using the Environment as an Integrating Context is the heart of The Environmental Charter School at Frick Park's curricular model. Through language arts, mathematics, and social studies, educators provide environmental content and exploration while building key skills and strategies in the traditional academic areas. In order to best understand the power of this model, the presenters in this session will explain from the teacher perspective how to collect resources, plan educational experiences and collaborate effectively to implement the power of the EIC model.

The Art of Nature and Environmental Education: Helping students see what's there

Room: ROOSEVELT

Strand: THE ARTS & EE

Bartram's Garden: Rose Levine, Educator Leslie Gale, Educator; Melanie Snyder, Director of Education

At Bartram's Garden, educators use the visual arts to encourage close observation of the natural world. In this hands-on workshop, participants will learn how we generously integrate art into almost every science lesson, and, in an excerpt from the Art of Nature program, they will create botanical watercolor sketches of their own. The Art of Nature lesson is intended to interest students in botany and natural history on several different levels:

- The enjoyment of observing nature closely;
- Better understanding the nature and discipline of scientific observation;
- Understanding the difference between scientific illustration and personal art, as well as using scientific methods in personal art;
- Encouraging critical thinking and questions.





Friday Workshops

2:15 - 3:15

Building Community and Engaging Youth through Community Gardening

Room: COOLIDGE

Strand: CONSERVATION EDUCATION

Erica Smith, Community Garden Organizer, Camden Children's Garden

The community garden program at the Camden Children's Garden is responsible for installing and maintaining 31 community gardens in the city of Camden. In this presentation I will discuss how our community gardens are created, and how easy it is to start a garden on almost any surface. Our community gardens are tended by many different communities, from churches, to daycares, to groups of apartment dwellers and seniors in senior living facilities. But as the name suggests, community gardens require a community to be successful, and our most successful gardens are tended by dedicated families with children who share in the work and harvest. I will show how we engage children through planting activities, fresh food BBQs, healthy and fun kid-friendly recipes, and recognition at garden meetings. The group will also get to participate in a fun garden activity (TBD). May have an outdoor component if weather permits.

Introductory Alternative Energy Educator Workshop

Room: GRANT

Strand: CONSERVATION EDUCATION

Jack Farster, Director of Environmental Education, Department of Environmental Protection

An overview of the day-long workshop the DEP does at various locations throughout the state in July and August. The workshop covers Alternative Technologies for Electric Generation, Energy Conservation and Transportation Technologies.

The Plant Stewardship Index as a Teaching Tool: "Let's Do the Numbers!"

Room: JEFFERSON

Strand: CONSERVATION EDUCATION

Jeannine Vannais, Plant Stewart Index Coordinator, and Amy Hoffmann, Education Coordinator, Bowman's Hill Wildflower Preserve

The Plant Stewardship Index is a way to calculate the health, or floristic quality, of our open spaces. It measures the vitality of the native plant community, and indicates the extent to which it has been invaded by non-native species. The methodology is based on compiling a list of species on a site, and assigning them a rank (Coefficient of Conservatism) that is based on the extent to which they are dependent on intact ecosystems to survive. Those plants with exacting habitat requirements score highest, while weeds and invasive species score the lowest. Once all the plants present on a given site are recorded, data may be entered on a free on-line calculator that can be used to track the site's progress over time. This workshop will present the methodology and website and explore ways that it might be incorporated into experiential learning scenarios.

What Has Your Website Done For YOU Lately?

Room: LINCOLN

Strand: CONSERVATION EDUCATION

Julie Bray, Communication Coordinator, Pennsylvania Center for Environmental Education

Do you depend upon a website to communicate with your potential audience? And do you suspect that your website looks amateurish, incoherent or (horrors!) BORING? This presentation (led by an award-winning website designer) will teach you what questions to ask yourself and your organization in order to develop an online strategy that makes your website useful to you and your visitors. We will look at real examples of websites and social media that work—and some that don't. We can even review YOUR site and offer suggestions for low-cost improvements. (Note: in the for-profit world, this presentation would cost you hundreds of dollars. Here's your chance to get some web-savvy advice without hiring a consultant!)

Campus Restorations: Transforming School Landscapes for Integrated Outdoor Learning

Room: ROOSEVELT

Strand: CONSERVATION EDUCATION

Dr. Kevin Brady, Avon Grove Charter School, Ms. Susan Howard

Avon Grove Charter School Staff will tell the story (through the use of a slide show) of the conservation and habitat-restoration work that has taken place on campus over the course of the last few years, and will provide a slideshow illustrating how students have been able to approach these conservation projects through a number of cross-curricular methodologies.

We will also provide (through quick-time videos) concrete examples of lessons designed for the restored areas of our campus, examples of community partnerships, and direct impact on threatened flora and fauna. Finally, participants will develop plans to begin restoration projects at their own sites.

Friday Workshops



3:25 - 4:25

Going Green in the Garden

Room: COOLIDGE

Strand: CONSERVATION EDUCATION / EARLY CHILDHOOD & EE

Cate Rigoulot, Garden Educator, Camden Children's Garden
The presentation will begin with by informing teachers of the different opportunities available to teachers at the Camden Children's Garden. A new program, Going Green in the Garden, debuting in Spring 2010 will be highlighted. This garden festival for schools will emphasize the importance of conservation and will help children gain an awareness of the natural world around them. We will then closely examine an activity that can easily be incorporated into the classroom. We will then examine how teachers can incorporate knowledge that children have learned from a field trip into their curriculum.

Rain Barrels - Gardening for Stormwater

Room: GRANT

Strand: CONSERVATION EDUCATION

Vivian Williams, Education Programs Manager, Stroud Water Research Center

The Rain Barrel Project (2009), facilitated by the Stroud Water Research Center (SWRC) brought together Media Borough, residents, and 3 elementary schools. Students learned about stormwater runoff problems and how that water affects their school, neighborhood and local streams. Based on those lessons, students created designs using paint and outdoor contact film that were transferred to 133 gallon rain barrels. These were installed at their school sites and throughout the borough.

I will present a brief slide presentation of the project and facilitate some of the field and design experiences for participants so that they can engage in some of the hand-on experiences that will enable them to create their own project using rain barrels as one management tool for dealing with stormwater. We will go outside for a site assessment and create designs on a rain barrel template using participants own local site for inspiration. For viewing photos of the project visit http://www.stroudcenter.org/education/rain_barrel_photos.htm

May have an outdoor component, if weather permits.



Environmental Education and Low Income teens – techniques of a tough sell and a case study

Room: JEFFERSON

Strand: CONSERVATION EDUCATION

Sara Deacle, Assistant Director of Education and Outreach at the Delaware Center for Horticulture

The Delaware Center for Horticulture has been doing Environmental Education with low income teens for over 7 years with their H.E.L.P. (Horticulture and Environmental Leadership) Program. This five week program for 13 year olds has met many programming, funding, recruitment, and leadership challenges that have provided us valuable insight into doing this kind of programming.

Scientific Inquiry Through Nature and Technology

Room: LINCOLN

Strand: CONSERVATION EDUCATION / THE ARTS & EE

Carmela Curatola - Knowles, Kathy Krupa, Shane Cross, Elementary Technology Teachers, Hatboro-Horsham SD
Scientific inquiry is recommended by the National Science Teachers Assn for grades K-16. This 5th grade project-centered experience includes an essential question about the importance of sustaining natural environments, understanding ecosystems through research, developing an analytical response to the essential question and defending the response, and using digital cameras, microphones, Nova portable computers, PowerPoint, Word, and Photostory, all through a year long Webquest. The project promotes active participation, self-motivation, project ownership, persuasive writing, and an understanding of the nature of scientific knowledge through nature and technology. See our Wikispace which provides a tour of the year long project and student artifacts. <http://sciinqthraturetechnology.wikispaces.com>

Growing UP WILD

Room: ROOSEVELT

Strand: CONSERVATION EDUCATION

Theresa Alberici, PA Game Commission

Growing Up WILD is the newest addition to the programs offered by Project WILD. Growing UP WILD is an early childhood education program that builds on children's sense of wonder about nature and encourages them to explore the world around them. Growing UP WILD features 27 field-tested, hands-on activities about wildlife, people and the environment. Each activity includes art projects, reading, music, math connections and outdoor learning as well as content about specific groups of animals or ecological concepts. The activities are designed to address development and learning in all areas including social, emotional, and physical, language and cognitive domains. Growing UP WILD is correlated to the national Association for the Education of Young children (NAEYC) Standards and the Head Start Domains and PA education standards.

Includes an outdoor component, dress accordingly!



Friday Workshops

4:35 - 5:35

People Count: Engaging Students in Human Ecology and Sustainability Education

Room: COOLIDGE

Strand: CONSERVATION EDUCATION / THE ARTS & EE

Kevin Kopp, Founder and Director, Environmental Youth Education Services

Next year, world population will reach 7 billion. As the population continues to grow, competition for finite resources intensifies and we struggle to both meet basic human needs and to use resources sustainably. In this interdisciplinary, hands-on workshop, participants will engage in inquiry-based activities that help students understand the concepts of carrying capacity, “ecological footprints” and sustainability in nature. Current data on population and resource consumption trends, climate change and land use patterns will be shared and discussed. Participants will engage in several hands-on activities including cooperative group problem solving and resource-allocation games appropriate for formal and non-formal educational settings. The information and activities presented incorporate age-appropriate science and social science applications to help create interdisciplinary lesson plans that support state and national content standards. Participants will receive activity instructions, data charts and background reading on a user-friendly CD-Rom.

Beyond Butterfly Gardens: The Value of Schoolyard Bird Habitats

Room: JEFFERSON

Strand: CONSERVATION EDUCATION

Steven Saffier, Coordinator, Audubon at Home

In this presentation, the Audubon At School program (a sub-program of Audubon At Home) will share what we’ve learned over the past three years in engaging elementary and middle schools in habitat projects. How do you get a schoolyard project started? How is it funded? What kind of follow-up is required? Ultimately, what is the value to children? How can it fit curriculum without burdening teachers. We’ll talk about who needs to be involved from the start of the project, how to get earned media, and the type of landscape plans that might work best in urban, suburban, and rural settings.



Developing successful training programs for teachers, children, public officials and the general public

Room: LINCOLN

Strand: CONSERVATION EDUCATION

Mary Ellen Noonan, Environmental Educator, Bucks County Conservation District

Over the past three years I have run several training programs successfully. Each of these programs was either a cooperative program, “stolen” from someone else’s idea or just dropped into my lap. I would like to discuss how each of these programs and how they came to be in an effort to help other educators develop programming in their area.

We will discuss my programs and how they came to be, offer suggestions on how to establish cooperative partnerships and to develop and build upon established workshops/trainings for their community.

North American Association of Environmental Education (NAAEE) How to use the Nonformal Environmental Education Guidelines to Benefit Your Program

Room: ROOSEVELT

Ed McCree, President of Environmental Education and Conservation Global

The Nonformal Guidelines comprise a set of recommendations for developing and administering high quality nonformal environmental education programs. These recommendations provide a tool that can be used to ensure a firm foundation for new programs or to trigger improvements in existing ones.

This session will give you a chance to use the Guidelines to evaluate your own education programs. You will also learn how the Guidelines can be used as you plan new activities or conceptualize major new programs. Session participants will receive a free copy of the Nonformal Guidelines.

Saturday Workshops



8:30 - 9:30

Pennsylvania Horticultural Society's Green City Teachers Program Overview

Room: COOLIDGE

Strand: CONSERVATION EDUCATION

Sally McCabe, Community Education, Pennsylvania Horticulture Society

An overview of the five-session basic training course that encourages Philadelphia educators to integrate horticulture and environmental education into their classrooms as they participate in a forum for sharing ideas. Topics include Basic Horticulture, Food Gardening, Trees, Indoor Gardening, and Habitat Gardens.

A second training is held in the summer, where teachers actually build a garden at a school.

Using the knowledge gained from these sessions, participants can integrate greening into their curriculum and classroom activities. They can start a garden at their school, plant and care for trees, and study their local watersheds. They can partner with an existing garden to strengthen links with the community. They can start or join an after-school club to reinforce the learning. They can initiate service learning projects in the school and community.

Creating Outdoor Classrooms in the Spring-Ford and Hatboro-Horsham School Districts: from Grants to Lessons and How We Did It!

Room: GRANT

Strand: CONSERVATION EDUCATION

Mary DeAngelis, Environmental Education Coordinator, Spring Ford Area School District; Carolyn Koch, former teacher, Hatboro Horsham

Ms. DeAngelis and Ms. Koch will share their experience in planning and creating outdoor classrooms in their school districts. Spring-Ford SD has several ponds, a wetlands garden, storm water buffering areas, and other natural areas that are used as outdoor classrooms. Ms. DeAngelis has partnered with Environmental Concern, Inc.; Stroud Water Research; Montgomery Conservation District; BSA Troop 10; WREN; and many other groups. She has recruited a core team of 25 teachers in her school district to help teach environmental lessons.

Hatboro-Horsham has the 13-acre Jarrett Nature Center, which includes a wetlands meadow, bird blinds, pond, forest, and many other features. The Jarrett Nature Center has received major funding from the Hatboro-Horsham Education Foundation. Additional partnerships have included the Simmons Elementary School Home and School Association, Merck, Rohm and Haas, Pennsylvania Department of Community and Economic Development, and local scout troops. Ms. Koch has collaborated with many teachers to create meaningful hands-on lessons for use in the JNC.

Making Natural Connections: Environmental Content through the Lens of an Artist

Room: JEFFERSON

Strand: THE ARTS & EE

Shannon Merenstein & Nikole Brugnoli Sheaffer, Environmental Charter School at Frick Park

Art is a natural connector to the environment around us, and an accessible way to build children's science skills and content. In using content strands identified in the PA State Standards for Environment and Ecology (as well as Science and Technology), the art special has the potential to introduce, extend and enhance science literacy throughout a school. By focusing on curricular collaboration and on school-wide science themes, art instructional experiences can build student connections to their world and allow experimentation and analysis –important critical thinking skills in all curricular areas – to have increased impact. In this session, participants will learn the impact of integrating art and science, and will engage in examples of activities to support these connections.

No Student Left Indoors – Creating a Field Guide to Your Schoolyard

Room: LINCOLN

Strand: CONSERVATION EDUCATION

Jane Kirkland, Award winning Author

Based on Jane Kirkland's award-winning book this workshop will introduce you to the Field Guide Project. Learn how a Field Guide Project easily engages students of all ages, talents, and skill levels. See how your schoolyard (in its current condition) is ready to serve you as your outdoor classroom. Discover how a Field Guide Project ties into your current curriculum and daily schedule and connects science with history, language arts, art, technology, and more. Find out how schools across the state (and the country) are embracing this project. This is easily adapted for a single class, grade, or entire school body. A Field Guide Project is place, project, and standards-based learning at its best. It's the most fun you'll ever have while learning with your students.

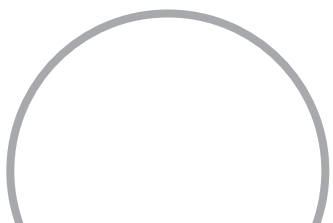
Pennsylvania Master Naturalist - A training and service program for volunteers, stewards and interested adults

Room: ROOSEVELT

Strand: CONSERVATION EDUCATION

Michele Richards, Executive Director, PA Institute for Conservation Education

The Pennsylvania Master Naturalist Program is designed to teach adult participants about natural history of the ecoregions of Pennsylvania. A Pennsylvania Master Naturalist is a volunteer or adult with a passion for the natural world who participates in an intensive natural science training program and uses his or her knowledge by giving back to the community through volunteer service. Come learn about this new statewide program, based on a successful national initiative, being piloted in the Philadelphia area in 2010.





Saturday Workshops

9:40 - 10:40

School on a Nature Center - a Unique Opportunity and our environmentally-focused curriculum

Room: COOLIDGE

Strand: CONSERVATION EDUCATION

Jean Wallace, CEO, Green Woods Center and Gin Ranley, Director of Education; Schuylkill Center for Environmental Education

(2 hour session continues into next session)

Green Woods Center is the only school on the grounds of a nature center. Discussion will include their unique partnership and on their environmentally-focused curriculum.

Capture It: An Impressionist View of Arts in the Garden

Room: GRANT

Strand: THE ARTS & EE

Michelle Cugini, Curriculum Specialist, Longwood Gardens
Longwood Gardens' Nurturing Curiosity Program utilizes the gardens as an outdoor classroom to reach all areas of the curriculum. The Arts & Humanities lesson, Capture It, explores the enticing world of garden-inspired art. The study and interpretation of Impressionist artist Claude Monet serves as inspiration for students to create their own garden-inspired work using developmentally appropriate media and techniques. National Standards for the Visual Arts are addressed as students participate in color mixing activities, explore art history, critique works of art, and create an original artwork to take home.

The Garden environment is the perfect setting to explore color theory, discuss elements of art, and be inspired! Through the lens of an artist, the students appreciate their surrounding environment in a new way.

Attendees will have a chance to share successful ideas on how they use art in their own natural environments. There is a possibility of doing an art activity outdoors if weather permits.

New Ways to Engage: Stretching Strategic Partnerships Between Schools and EE Organizations

Room: JEFFERSON

Strand: CONSERVATION EDUCATION

Nikole Brugnoli Sheaffer, Environmental Charter School at Frick Park

Traditionally, schools "shop" for environmental education experiences to enhance or fill curricular holes. In this presentation, participants will learn the importance of moving to a more strategic relationship with key environmental education organizations that support defined curricular goals of the school. Using music as a metaphor, the presenter will guide participants through the process of identifying, cultivating and evaluating strong, strategic partnerships between environmental organizations and schools.

Using Technology and Other Web 2.0 Tools in the Science Classroom

Room: LINCOLN

Strand: CONSERVATION EDUCATION

Alison Roperti, Elementary School Administrator, Dallastown Area School District

(2 hour session continues into next session)

Teachers that attend this session will learn how to engage digital natives in science

How blogs, wikis, and websites can help teachers and students communicate and collaborate about science.

How you can create these sites for free and use Web 2.0 tools (like Voki, delicious social bookmarking, and Google Spreadsheets,) to enhance learning in the classroom.

Wildlife Leadership Academy

Room: ROOSEVELT

Strand: CONSERVATION EDUCATION

Michele Kittell, Program Coordinator, PA Institute for Conservation Education

Wildlife Leadership Academy (WLA) is a year-round training and community service experience for high school students (ages 14 – 17 years old) that begins with rigorous summer field schools that focus on wildlife biology and conservation as well as leadership skills development. The field schools are followed by year-round mentoring by program staff and partners as the students contribute to conservation outreach and service projects in their local communities. WLA is cooperative initiative of various state agencies and conservation organizations including leading wildlife biologists, media professionals and educators and directed by the Pennsylvania Institute for Conservation Education. Visit this workshop to learn more about this extraordinary youth program, how teachers can be involved, and its development in Pennsylvania!

Saturday Workshops



10:50 - 11:50

School on a Nature Center - a Unique Opportunity and our environmentally-focused curriculum

Room: COOLIDGE

Strand: CONSERVATION EDUCATION

Jean Wallace, CEO, Green Woods Center and Gin Ranley, Director of Education; Schuylkill Center for Environmental Education (2 hour session continued from previous session)

Outdoor Special Exhibits: Benefits, Drawbacks, and Recommendations

Room: GRANT

Strand: CONSERVATION EDUCATION

Betsey Ney, Director of Public Programs, Tyler Arboretum
Temporary exhibitions have been used by cultural institutions for years to raise public awareness and increase visitation, membership, and income. Outdoor exhibits have worked very well for public gardens and other nature-focused organizations. Tyler Arboretum's first special exhibit was Big Bugs, wonderful giant insect sculptures created from natural materials by artist David Rogers. Two home grown exhibits created by community members quickly followed. In 2008 Tyler implemented its most ambitious event to date featuring tree houses and generated a 400% increase in attendance.

Temporary exhibitions can take on a life of their own, pulling staff and financial resources. But they can also generate renewed public interest, create new donor and funding opportunities, and offer new educational opportunities. Using Tyler's experience as a case study, participants will learn what worked, what didn't, and the overall logistics of staging a temporary exhibit.

Using Technology and Other Web 2.0 Tools in the Science Classroom

Room: LINCOLN

Strand: CONSERVATION EDUCATION

Alison Roperti, Elementary School Administrator, Dallastown Area School District

(2 hour session continues into next session)

2:15 - 3:15 Student Forum

Presentations in 15 minute segments so you can attend all sessions!

SPEW – Students Protecting Everything Wet

Room: COOLIDGE

SAVE – Souderton Area High School, Students against Violating the Earth

Room: GRANT

PCEE's New Outdoor Classroom Resource Guide - A Guided Tour

Room: JEFFERSON

Strand: CONSERVATION EDUCATION

Melissa Reynolds, Education Programs Coordinator, Pennsylvania Center for Environmental Education

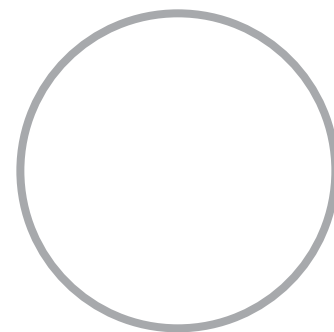
Do you want to have an outdoor classroom at your school, but don't know where to start? Are you struggling with an outdated, unused school garden and want help in making it thrive again? Look no further than PCEE's latest online tool – the Outdoor Classroom Resource Guide! Clearly organized, searchable and easy to use, the OCR Guide has everything you need to start and maintain an outdoor learning site. The guide has the resources you need to: get funding; help persuade your administration; teach in an outdoor setting; connect with other educators that have sites; and much more. This presentation will acquaint you with the website, highlight the main topic areas and start you on your way to getting your students outdoors!

Earth Education - It's All About Hands-On Minds-On Learning

Room: ROOSEVELT

Strand: CONSERVATION EDUCATION

Fran Bires, Director McKeever Environmental Learning Center
We're going to break down a couple of conceptual activities and explain what makes them so effective. We'll then show how a series of activities are designed to make up an earth education program - one that is sequential, interactive, dynamic and comprehensive with specific outcomes in mind. After a couple of decades of doing earth education programs, developed by The Institute for Earth Education, teachers and administrators continue to comment on how much the students learn.



Penn Tech Student Projects

Room: LINCOLN

Penn Tech Student Projects

Room: JEFFERSON

Radnor Middle School

Room: ROOSEVELT



Saturday Workshops

3:25 - 4:25

Sustainability Science: A New Movement in Integrated Science Education

Room: COOLIDGE

Strand: CONSERVATION EDUCATION

Ken Hamilton, Science Teacher Souderton Area High School
In October, two dozen prominent natural and social scientists from across the world convened in Sweden. They concluded that promoting the goal of sustainability requires the emergence of a new field called Sustainability Science. Today's society faces unprecedented challenges, and we need a new way of thinking if we hope to make wise decisions about our future. Sustainability Science is a new approach to teaching science by asking students to utilize all the science disciplines to design the needed pathways to sustainable solutions. Participants will be given materials to try in their own classrooms which demonstrate how Sustainability Science can help students meet the state science standards.

Invention Convention: Creative Group Activities

Room: GRANT

Strand: CONSERVATION EDUCATION

Audrey Preston, Outdoor Center Director, and Greg Ryder, Program Associate, South Mountain YMCA
Human Machine, The Beast, and Dutch Auction – all fun group activities to challenge your students to cooperate, communicate and problem-solve. Teachers will play and learn games that can be taken back to the classroom with minimal or no equipment. We will discuss teambuilding facilitation and have FUN!
May have an outdoor component if weather permits.

PCEE.org—New & Improved!

Room: JEFFERSON

Strand: CONSERVATION EDUCATION

Julie Bray, Communications Coordinator, PA Center for Environmental Education
The PCEE website is undergoing a major revision (coming spring 2010) that makes it easier than ever to search and navigate. Events, educational resources and key research documents are now all available without having to sift through pages of links. Supported by an interactive database, over 4,000 EE resources can be searched by keyword or topic—making the site more useful than ever before. If you want to teach or learn about the environment, this site is very likely to provide the tools that you're looking for. This guided tour of the site, presented by the website designer who developed it, will walk you through the new features. If you have ever been frustrated by not being able to find an EE resource, this workshop is for you!

The Children's Earth Day Forest: Combining Students, Art, the Environment, and the Community

Room: LINCOLN

Strand: THE ARTS & EE

Lindsay Smith, Lower Merion Conservancy
The Children's Earth Day Forest is just that, a forest! Sprouting up for one week a year, it features life-sized native Pennsylvania trees (well, almost life-sized!), plants and animals constructed by hundreds of pre-school through high school students in the greater Philadelphia area.
The Lower Merion Conservancy works with participating teachers, offers support materials and classroom visits, then creates a huge art exhibit forest that's open to the public: It's a perfect way to combine students, art, the environment, and the community! This workshop showcases the Children's Earth Day Forest from the ground up including how different private, public, and home school groups incorporate the Forest into their annual curriculum; how the Conservancy coordinates this multi-month project; and the amazing finished Forest!

North American Association of Environmental Education (NAAEE) Guidelines for the Preparation and Professional Development of Environmental Educators

Room: ROOSEVELT

Ed McCree, President of Environmental Education and Conservation Global & Ruth Roperti, PAEE President
(two hour workshop concludes at 5:35)

Environmental educators work in a variety of settings, at a variety of jobs. They teach in public and private classrooms, and lead activities for children and adults at nonformal educational institutions such as nature centers, zoos, museums, and parks. Regardless of the setting, the NAAEE Guidelines for the Preparation and Professional Development of Environmental Educators outlines the experiences and learning that will help deliver instruction that effectively fosters environmental literacy.

This session will provide an overview of the Professional Development Guidelines and lead into a discussion of the NAAEE professional certification initiative with specific details about PAEE's plans in the certification area. Session participants will receive a free copy of the Professional Development Guidelines.

Saturday Workshops



4:35 - 5:35

SAVE: The Inspirational Story of Students Making a Difference

Room: COOLIDGE

Strand: CONSERVATION EDUCATION

SAVE members, Ken Hamilton: Advisor, Souderton Area High School

Learn about what this national award-winning student environmental group has done and how it is able to succeed. SAVE's programs range from community recycling days which collect over 40 tons of materials a year to the construction of their own environmental education campus. They are currently working on their own solar chimney design that cools rooms without electricity and will be included in the construction of a hospital in Tanzania. The students' goal is to inspire others to make a difference.

New Jersey Audubon Society's (NJAS) Bridges to the Natural World Sampler

Room: JEFFERSON

Strand: CONSERVATION EDUCATION

Mary Belko, former New Jersey Audubon Educator/Naturalist
For over fifteen years, formal and informal educators have been turning to NJAS' Bridges to the Natural World as a valuable resource. Designed to be used with elementary/middle school students; this guide focuses on natural habitats, fundamentals of ecology, and interactions between human systems and natural systems. Participate in a few simple and effective activities for personalizing the experience for your students.

Copies of the 2003, revised edition of Bridges, including many new activities will be available for purchase. This workshop may include outdoor activities, weather permitting.

Out Standing in the Field: Leadership in developing greenways and community collaboration

Room: LINCOLN

Strand: CONSERVATION EDUCATION

Tim Herd, Executive Director, Stroud Region Open Space and Recreation Commission in Monroe County

Creating greenways and building trails is one of the most inclusive of all public endeavors. Such long-term multi-municipal projects require vision, champion leadership, and proactive community collaboration to sow the worthy concept and nurture it to reality.

Learn how to motivate the leaders, enlist the resources, engage the public, and blaze a clear-cut mission to planning, developing, and managing the green infrastructure connecting your community to its land and sense of place.

North American Association of Environmental Education (NAAEE)

Guidelines for the Preparation and Professional Development of Environmental Educators

Room: ROOSEVELT

(continued from previous session)



Friday Workshops

	Coolidge	Grant	Jefferson	Lincoln	Roosevelt
8:30-9:30		Sustainability in Sight: Embracing Facility as a Teaching Tool; A Case Study of the Sustainable Urban Science Center of Germantown Friends School	Watershed Case Studies as Schools, and Schuylkill Action Students Initiative	Greening Your School	GreenSylvania Recycling Competition
9:40-10:40	Journaling towards a Sense of Place	Maryland Green Schools Awards Program	Pigeontown to Blue Bell: Exploring Local History, Heritage, Ecology and Art Through the Disappearance of the Passenger Pigeon	Outdoor Adventures-Engaging Children Outdoors	North American Association of Environmental Education (NAAEE) Helping to Develop the Early Childhood Environmental Education Guidelines
10:50-11:50	Educator Opportunities in PA State Park	Overview of the Environment and Ecology State Standards	Outreach to Children/Access to Nature: Bringing Nature to the Lives of Underserved Children	Science Integration: A Case Study at the Environmental Charter School at Frick Park	The Art of Nature and Environmental Education: Helping students see what's there
2:15-3:15	Building Community and Engaging Youth through Community Gardening	Introductory Alternative Energy Educator Workshop	The Plant Stewardship Index as a Teaching Tool: "Let's Do the Numbers!"	What Has Your Website Done For YOU Lately?	Campus Restorations: Transforming School Landscapes for Integrated Outdoor Learning
3:25-4:25	Going Green in the Garden	Rain Barrels - Gardening for Stormwater	Environmental Education and Low Income teens - techniques of a tough sell and a case study	Scientific Inquiry Through Nature and Technology	Growing UP WILD
4:35-5:35	People Count: Engaging Students in Human Ecology and Sustainability Education		Beyond Butterfly Gardens: The Value of Schoolyard Bird Habitats	Developing successful training programs for teachers, children, public officials and the general public	North American Association of Environmental Education (NAAEE) How to use the Nonformal Environmental Education Guidelines to Benefit Your Program

Saturday Workshops

	Coolidge	Grant	Jefferson	Lincoln	Roosevelt
8:30-9:30	Pennsylvania Horticultural Society's Green City Teachers Program Overview	Creating Outdoor Classrooms in the Spring-Ford and Hatboro-Horsham School Districts: from Grants to Lessons and How We Did It!	Making Natural Connections: Environmental Content through the Lens of an Artist	No Student Left Indoors - Creating a Field Guide to Your Schoolyard	Pennsylvania Master Naturalist - A training and service program for volunteers, stewards and interested adults
9:40-10:40	School on a Nature Center - a Unique Opportunity and our environmentally-focused curriculum	Capture It: An Impressionist View of Arts in the Garden	New Ways to Engage: Stretching Strategic Partnerships Between Schools and EE Organizations	Using Technology and Other Web 2.0 Tools in the Science Classroom	Wildlife Leadership Academy
10:50-11:50	Student Forum SPEW - Students Protecting Everything Wet	Outdoor Special Exhibits: Benefits, Drawbacks, and Recommendations Student Forum SAVE - Souderton Area High School, Students against Violating the Earth	PCEE's New Outdoor Classroom Resource Guide - A Guided Tour Student Forum Penn Tech Student Projects		Earth Education - It's All About Hands-On Minds On Learning
2:15-3:15	Sustainability Science: A New Movement in Integrated Science Education	Invention Convention: Creative Group Activities	PCEE.org - New & Improved!	Student Forum Penn Tech Student Projects	Student Forum Radnor Middle School
3:25-4:25	SAVE: The Inspirational Story of Students Making a Difference SAVE members		New Jersey Audubon Society's (NJAS) Bridges to the Natural World Sampler	The Children's Earth Day Forest: Combining Students, Art, the Environment, and the Community Out Standing in the Field: Leadership in developing greenways and community collaboration	North American Association of Environmental Education (NAAEE) Guidelines for the Preparation and Professional Development of Environmental Educators



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