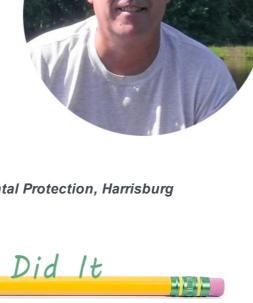


Welcome, Educators!

From free workshops to a new professional network, this issue of *Teaching Green* offers resources, ideas, and inspiration to Pennsylvania's environmental educators. Whether you're back to school in the K-12

or college classroom or out in the community, teaching children or adults for an organization or local government, we wish you and your students happy, productive adventures in environmental learning. Have questions or suggestions regarding the newsletter or the Environmental Education Center? to hearing from you. And please consider sharing Teaching Green with other educators. Thank you!

Just drop me a line at gimyers@pa.gov. I look forward — Bert Myers, Director, Environmental Education and Information Center, Department of Environmental Protection, Harrisburg How We Did It



Stories from Environmental Ed Grant Projects DEP has provided more than \$11 million in funding to schools, municipalities, and community organizations for environmental education projects in Pennsylvania since the Environmental Education Grant program began in 1993. Here are just a few of hundreds of successful projects DEP has supported.

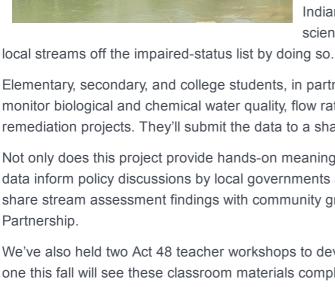
round opens, we'll announce it here and on the DEP Newsroom.

Getting Everyone in on Stream Water Quality Data

We'll share more success stories in future issues to spark your creativity, and when another grant

 by Dr. Holly Travis, Western PA Watershed Collaboration Project, Indiana University of Pennsylvania (IUP) This fall the Western PA Watershed Collaboration

Project, based at IUP, begins its second year of monitoring streams in the Stoney Run watershed in Indiana County. Our goals are to develop student scientists and watershed-smart citizens and help get



plans into the local school curriculum.

- by Rachel Bowers, Grounded Strategies,

Green Playces: Student Ambassadors is an in-school program that works with Allegheny County secondary students to transform vacant and underused land on or near their school grounds into safe and creative

Green Spaces

mural and pollinator gardens.

Pittsburgh

Elementary, secondary, and college students, in partnership with IUP faculty and grad students, will monitor biological and chemical water quality, flow rates, stormwater events, and the impact of remediation projects. They'll submit the data to a shared database and perform data analysis.

Not only does this project provide hands-on meaningful watershed education experiences, but the data inform policy discussions by local governments and environmental organizations, as participants share stream assessment findings with community groups through the Stormwater Education

We've also held two Act 48 teacher workshops to develop a standards-based curriculum, and a third one this fall will see these classroom materials completed, incorporating new water quality lesson **Enabling Students to Create Safe**

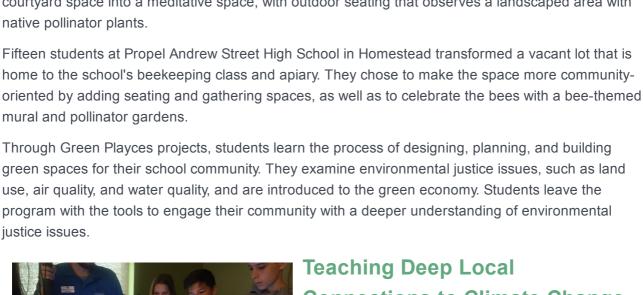
places. In the 2017-2018 school year, student ambassadors in two fifth-grade classes at Twin Rivers Intermediate School in McKeesport transformed an unused courtyard space into a meditative space, with outdoor seating that observes a landscaped area with native pollinator plants.

program with the tools to engage their community with a deeper understanding of environmental justice issues. **Teaching Deep Local Connections to Climate Change** — by Diane Motel, Wildlands Conservancy, Emmaus

actions.

Using Project Learning Tree's Climate Change training, we provided a professional development workshop to classroom teachers and naturalists. We delivered watershed-focused climate change programs to over 500 middle school students, having groups rotate through 5 stations: climate

Harrisburg Falcons **Newest Falcons Soar the Skies**



Through the "Climate Change in Our Watershed" project, the Wildlands Conservancy provided placebased climate education to middle school teachers and students to help them develop a deep, local

connection to environmental issues and the skills and knowledge to create personally relevant collective

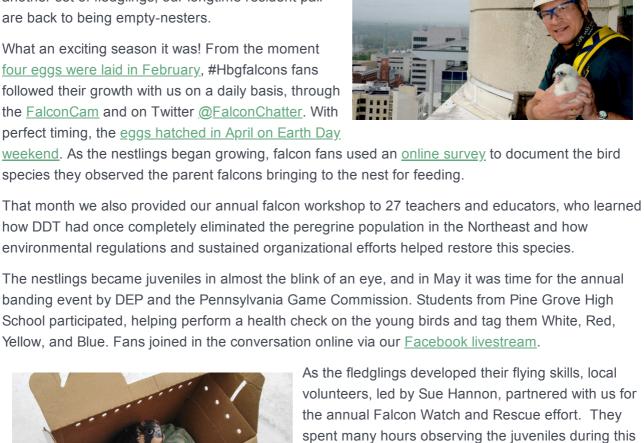


vulnerable period. It wasn't uncommon to see

sidewalks around RCSOB. That's dedication.

volunteers with binoculars sitting in lawn chairs on the

White, the smallest of the four, struggled with fledging and had to be rescued twice but, after some time was



resident pair through the FalconCam and learn new things almost every day about these amazing birds.

Help Your Community Understand Stream Maintenance Regulations Our simple Stream Maintenance Guide provides resources to help municipal officials, property owners, and others affected by flooding of



Join the New Environmental

Education Providers Inventory

Calling all nature centers, parks, camps, zoos, field stations, and similar organizations that provide environmental education (EE) programs to school, youth group, community, and other audiences you're invited to add your organization to a new statewide inventory of EE providers being created by

How to Create a Meaningful

If you're in one of Pennsylvania's 43 counties in the Chesapeake Bay Watershed and want to take your water education program up another notch, consider

Experience (MWEE) for your students. Find out how in the MWEE educator's guide from the Chesapeake

creating a Meaningful Watershed Educational

Watershed Educational

Experience

Bay Program.

of EE in Pennsylvania, including promoting EE, connecting schools with EE providers, and strengthening EE providers networking.

announcements for locations, dates, and how to sign up.

at 717-921-8803 or 4HWater@psu.edu for more information.

Jacobsburg Environmental Education Center, Nazareth

Dive Deeper Summit, Sept. 20, Dauphin County

Training

Register

• 8:30 am - 3:30 pm

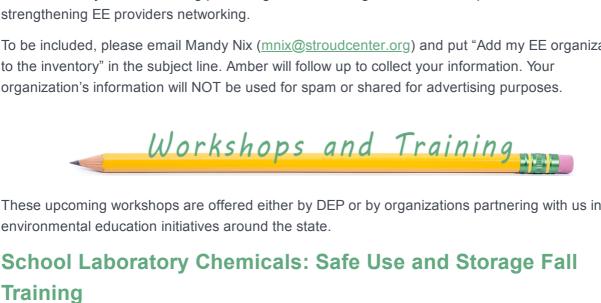
Register

• 4:30 pm - 7:30 pm

Register

County

• Register



pennsylvania

• 8:15 am - 3:30 pm Central Hotel and Conference Center, Harrisburg Project WET Educator Workshop, Sept. 29, Beaver County Are you looking for fun new ways to engage your students in science and the natural world? Check out this great hands-on workshop to learn about the importance and science of water. Expect to have fun, get moving, and get outside for this workshop! Cost: \$30 (participants earn 6.5 Act 48 hours).

additional teaching material. Cost: \$15 (participants earn six Act 48 hours). • 8:30 am - 3:00 pm

Advanced Watershed Educator Workshop, Oct. 16-17, Chester

Stakeholders across Pennsylvania are working to enable students to graduate with the knowledge

MWEEs. Participants will gain a deep understanding of the MWEE as a vehicle for advancing

Free; includes lunch and snacks. Act 48 hours will be provided by DCNR-PA State Parks.

environmental literacy and stewardship while increasing standards-based student achievement. Cost:

• 9:00 am - 3:00 pm each day. You may choose to attend only the first day (workshop) or both

 Keystone State Park, Derry register for this workshop Staff News

> After 12 years at the Environmental Education Center, Ann Devine has moved on to a new position in Water Resource Training. If you're among the many educators who've worked with Ann over the years, you know we'll miss her dedication and

Coordinator Joins the Center

the new Regional Program Coordinator. Lisa sends this message: Greetings, educators! I'm so happy to be joining the DEP Environmental Education Center as Regional Program Coordinator. I look forward to providing support for grant applicants and



- quality of life. Cost: \$10 (Formal educators receive 6 Act 48 hours). • 8:30 am - 3:00 pm

professionalism. We wish her the very best in her new position. We're delighted to announce that Lisa Meadows, previously an Environmental Education Specialist at the Department of Conservation and Natural Resources (DCNR), has joined us as

New Environmental Education Program

My husband and I enjoy biking, kayaking, and hiking with our dogs. We look forward to exploring the small towns and mountains of central Pennsylvania with our 100-pound pup, Honey, and her little bulldog brother, Samson.

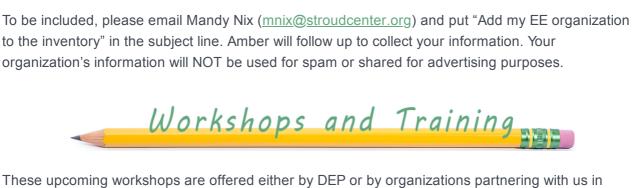
Pennsylvania Department of Environmental Protection, 400 Market Street Harrisburg, PA 17101

Life's pretty quiet these days at the Harrisburg peregrine falcons nest on the 15th floor here at the Rachel Carson State Office Building. Having raised another set of fledglings, our longtime resident pair are back to being empty-nesters. What an exciting season it was! From the moment four eggs were laid in February, #Hbgfalcons fans followed their growth with us on a daily basis, through the FalconCam and on Twitter @FalconChatter. With perfect timing, the eggs hatched in April on Earth Day weekend. As the nestlings began growing, falcon fans used an online survey to document the bird

observed flying to and from the tallest buildings in downtown Harrisburg. He wasn't observed again after mid-June. Red, Yellow, and Blue stayed at the ledge longer, practicing prey capture and flying farther and farther, until by the first week of August, they too had left, soaring to new heights and parts unknown. Where will the young falcons choose to set up their nests? It's anyone's guess. Learn where some recent Pennsylvania falcons have gone at Falcon Wire News. And so ends another successful chapter in the story of the most productive peregrine nest in Pennsylvania. We already can't wait for next year! In the meantime, we continue to observe the Water

local streams understand the complex regulatory requirements that apply to working in streams. Doing stream maintenance work in a well-planned, environmentally responsible manner greatly reduces the likelihood of Maintaining Streams in Your Community future problems. This guide makes it easier.

Calls for Participation



DEP trained 80 teachers and staff from 61 schools last year on the proper use and storage of

Anyone interested in innovations in educational tools and resources for teaching about water is

invited to attend this Penn State Extension conference. Along with hands-on workshops, a networking lunch, and informative guest speakers, free water testing will be provided to anyone who brings a sample of their home drinking water. Please register by 11:59 pm, Sept. 13. Contact Jennifer Fetter

laboratory chemicals through the School Chemical Cleanout Campaign. Each annual campaign starts in the fall with teacher training sessions and concludes with on-site cleanout activities in the summer. This year training sessions will be offered in October at four or five Intermediate Units. Watch your IU

Environmental Literacy and MWEE Programming Capacity Building project.

the Pennsylvania Association of Environmental Educators as part of the NOAA-funded PA

The new Pennsylvania Environmental Education Providers Inventory will be used to build the capacity

 Raccoon Creek State Park, Hookstown Register Green Schools Sustainability Workshop, Oct. 3, Northampton County Teachers, administrators, and facilities personnel are invited to a free workshop from the Lehigh Valley Community of Green Building United. You'll learn about opportunities available to green your school and address perceived barriers to implementation of green initiatives in schools around the Lehigh Valley and Pennsylvania. Continental breakfast and lunch included. Certified teachers may earn Act 48 hours. • 9:00 am - 3:30 pm

From Stream to Sky Workshop, Oct. 3, Lancaster County

This workshop will provide lessons and activities for environmental education on a secondary level from Stroud Water Research Center and Pennsylvania State Parks, including activities from the

and skills to protect and restore their local watershed through participation in Meaningful Watershed Educational Experiences (MWEEs). These experiences provide investigations into local environmental issues that lead to informed action and civic engagement. They require facilitation and support by both formal K-12 teachers and nonformal, field-based educators. This advanced workshop helps prepare nonformal environmental educators to partner with K-12 teachers on

days (workshop and water education skills training)

· Stroud Water Research Center, Avondale

Kings Gap Environmental Education Center, Carlisle

• Register: Contact Michele Nardone at michnardon@pa.gov

• Please contact Jean H. Keene at 724-668-2939 or jkeene@pa.gov for more information or to

Westmoreland County Project Learning Tree is a national curriculum to help educators teach the importance of forests to our economy and our environment. From biological life cycles to the carbon cycle, and from the lumber industry to recreation, Project Learning Tree's STEM activities bring to light the importance of forests as renewable resources for fuel and products, as habitat, and as a source for increasing the

Project Learning Tree Teacher Workshop, Oct. 20,

recipients, designing new educational products, collaborating with other agencies and organizations, and helping to serve Pennsylvania's great environmental education community in myriad other ways.

chemistry, macroinvertebrates, and plankton to determine the health of our rivers.

My three loves are clean water, public lands, and wildlife. As an environmental education specialist with DCNR at Yellow Creek and Raccoon Creek State Parks, I educated school groups, the public, and private groups on the importance of clean water and wildlife for the last five years. Nothing made me smile more than leading a group of kids out to watch the spring duck migration on the lake. Prior to DCNR, I worked aboard RiverQuest, one of the first green boats in the world. There was never a bad day on the river as an educator. Kids performed science experiments on water