The Appalachian Green Teachers Conference is possible with support from the following organizations. Thank you!
Outdoor Learning Spaces in the Era of COVID-19
Wednesday, October 28th, 9:15 am - 10:30 am
Registration Link
How do real teachers use their schoolyards for outdoor learning? Take a virtual walk around the actual outdoor spaces used by three elementary school teachers. They’ll share their techniques for including outdoor learning regularly, and even how the schoolyard is helping them adapt to COVID-19.

Presented By: Cheryl Ryan from Red Oak Community School, Lauren Metcalf from Vinton South Elementary; and Noreen Sullivan and Kristen Taylor of Mercy Montessori.
Best for Teaching: Elementary School
Location: Virtual

Land labs, Community Partnerships, and the Merits of Getting Students Outside
Thursday, October 29th, 10:00 am - 11:00 am
Registration Link
Does your school not have a land lab on campus? No problem! High school science teacher Kip Brady will walk you through how he and his students collaborate with private landowners to study the ecological differences between mined and unmined lands in Tuscarawas County.

Presented By: Kip Brady from New Philadelphia City Schools
Best for Teaching: Middle School and High School
Location: Virtual

The Big Map-Out!
Friday, October 30th, 3:00 pm - 4:15 pm
Registration Link
How a regenerative farm and local school district created a nature-based K-3 unit flexible enough for distance learning, in-person school, and everything in between (and how you can do it too).

Presented By: Meredith Florkey from Agraria Center for Regenerative Practices, Project of Arthur Morgan’s Institute for Community Solutions
Best for Teaching: Early Childhood and Elementary School
Location: Virtual
OHIO Museum Complex and mAppAthens: Teacher Resources for Experiential Learning...at home, in the Classroom, Outdoors, and in the Museum!

**Thursday, November 5th, 2:00 pm - 3:00 pm**

**Registration Link**

We share a collection of resources for teachers and students from the OHIO Museum Complex, including our Virtual Museum Portal that brings the world directly to your classroom. Join us and virtually visit the Amazon rainforest, or the Great Pyramid in Egypt. Explore the Great Barrier Reef or virtually visit a National Park!

In-person activities include experiential learning in our Outdoor Museum on The Ridges, together with an immersive nature gallery on the second floor of Lin Hall that collides hands on art activities with history, geography, and local biodiversity collections. Our web-based app, mAppAthens, features online tours that transform our own fascinating region into an outdoor museum for active, place-based learning experiences for learners of all ages. Explore an array of topics including art, wellness, history, geology, ecology, and more. Some of our tours have been translated into multiple languages; others include 360 video and/or sounds. If you are not in Athens, Ohio, these tours can still be viewed online.

**Presented By:** Nancy Stevens, OHIO Museum Complex, Ohio University  
**Best for Teaching:** Elementary School, Middle School and High School  
**Location:** Virtual

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**Socially Distanced Field Experience**

**Chieftain Elementary Land Lab Tour**  
**Socially Distanced Field Experience**  
**Sunday, November 1st, 9:00 am - 12:00 pm**

**Registration Link**

Join educators Rachel Kallimanis, Holly Borer, and volunteer Jason Kallimanis for an exploration of the paths, pond, field, and more that make up the Chieftain Elementary Land Lab. We'll learn how teachers have utilized the space to get kids learning and loving the great outdoors.

**Led By:** Rachel Kallimanis, Holly Borer and Jason Kallimanis from Chieftain Elementary, Logan-Hocking Schools  
**Best for Teaching:** Early Childhood and Elementary School  
**Location:** Chieftain Elementary  
28296 Chieftain Dr.  
Logan, OH 43138
Water, Water Everywhere
Tuesday, October 27th, 1:00 pm - 2:00 pm
Registration Link
Water touches every aspect of our lives—the cells in our bodies, the food we eat, the recreational activities that we enjoy, the weather that affects our daily lives and much more! DiscoverWater.org is a self-directed educational resource about different water topics—ranging from global to personal perspective—which together reflect many of the complex and important roles of water in our lives. Participants will be led through three of the eight interactive modules that are free located at Project WET’s Discoverwater.org. We’ll cover: The Water Cycle, Investigate Fresh Water, and Explore Watersheds.

Participants will also be briefly introduced to the online self-paced educator course to obtain the 2.0 Project WET Educator Guide. We will also tie everything together talking very briefly about the Ohio Environmental Education Fund (only Ohio educators) and how educators can apply for mini grant funding (up to $5,000) to purchase any of the materials from the Project Wet Store.

Presented By: Dennis Clement from Ohio EPA Office of Environmental Education
Best for Teaching: Elementary School
Location: Virtual

Waste and Water
Wednesday, November 4th, 2:00 pm - 3:00 pm
Registration Link
Learn two hands-on activities that help kids see how our waste impacts our waterways, with Perry County recycling educator Katrina Carpenter.

1. Fred the Fish- a visual, hands-on lesson about the journey of a fish named Fred as he travels a local Ohio perennial stream. He encounters every possible pollutant including non-point and point source pollution, such as basic litter left at a park picnic sight, fertilizer and pesticides over-applied in a nearby residential yard, motor oil dumped on ground from someone who changed their own oil.
2. Edible Landfill- another visual, hands-on lesson where you build a landfill from the bottom up, then eat it! Using crushed graham crackers, Oreos, pudding, etc. This lesson helps students and adults understand the importance of BAT (Best Available Technology) in sanitary landfill construction, one layer at a time, BAT is required by law and monitored by our local health department and the EPA to protect our groundwater from potential contamination.

Presented By: Katrina Carpenter from Perry County Waste Reduction and Recycling  
Best for Teaching: Elementary School  
Location: Virtual

My Backyard Stream  
**Thursday, November 5th, 11:00 am - 12:30 pm**  
[Registration Link](#)  
Explore water quality issues specific to Appalachia! Learn from the creator of the “My Backyard Stream” project. The project includes virtual reality experiences, lesson plans, and a participatory mapping project in which students submit their stream data for use in research at Ohio University's Voinovich School.

Presented By: Jennifer Bowman from Ohio University Voinovich School  
Best for Teaching: Middle School and High School  
Location: Virtual

Socially Distanced Field Experience  
**Headwater Streams: Exploring Appalachia’s Capillaries**  
**Socially Distanced Field Experience**  
**Sunday, November 8th, 1:00 pm - 4:00 pm**  
[Registration Link](#)  
Participants will explore a headwater stream in Hocking County to search for biological indicators of water quality such as salamander larvae, mayflies, and a most amazing fish: the mottled sculpin.

Led By: Joe Brehm and Sarah Fisher  
Best for Teaching: All Grades  
Location: Camp Oty’Okwa  
24799 Purcell Rd, South Bloomingville, OH 43152  
Meet at the Camp Oty’okwa visitor parking lot
Phenology Strand

Aldo Leopold and Phenology
Wednesday, November 11th, 5:00 pm - 6:00pm
Registration Link
The Leopold Education Project (LEP) is an innovative, interdisciplinary, critical thinking conservation curriculum based on the classic writings of renowned conservationist Aldo Leopold. LEP teaches the public about humanity’s ties to the natural environment in the effort to conserve and protect the earth’s natural resources.

Leopold’s writings are both sound science and excellent literature, and they can be used as a springboard for meaningful environmental education. By experiencing the Sand County Almanac essays, along with relevant activities, students learn decision-making skills that will aid them as they develop their own land ethic and deal with current environmental issues. By exposing students to a variety of viewpoints and positions, they hone their problem-solving skills.

LEP utilizes the outdoors as its learning lab. The original curriculum focuses on middle and high school, but in this presentation, I will share how I have adapted the activities for kindergarten through second grade.

Presented By: Susan Setterlin, Ohio Coordinator for Leopold Education Project
Best for Teaching: Early Childhood
Location: Virtual

The Effects of Pesticides on the Behavior of Wood Frogs
Monday, November 9th, 1:00 pm - 2:00 pm
Registration Link
In this session Courtney will discuss her current research on Imidacloprid and hydroperiod effects on exploratory and risk-taking behavior in wood frogs. Courtney will discuss her experimental design, how she is analyzing her data, and the behaviors seen during her behavioral trials. She will discuss ways you can easily adapt her methods to your classrooms and get your students engaged in the study of animal behavior.

Presented by: Courtney Silver-Peavey, PhD candidate from Ohio University’s Conservation Biology Lab
Best for Teaching: Middle School and High School
Location: Virtual
Phenology of Breeding Amphibians
Friday, November 13th, 5:00 pm - 6:00 pm
Registration Link
In this program, we will talk about phenology through the lens of amphibian breeding. The breeding of amphibians is among the most precisely timed natural, annual events here in Ohio and gives us a great way to educate kids about the importance of cycles and climate in nature, using a diverse group of native species. We will discuss biology, conservation, and climate change and go through some program ideas that might make these lofty concepts more tangible for kids.

Presented by: Andrew Hoffman, PhD candidate from the Ohio State University School of Environment and Natural Resources
Best for Teaching: Elementary School and Middle School
Location: Virtual

Socially Distanced Field Experience
Phenology Hike in the Hocking Hills
Socially Distanced Field Experience
Saturday, November 14th, 10:00 am - 1:00 pm
Registration Link
Go on a rugged off-trail hike from Camp Oty’Okwa to a parcel of land owned and managed by Crane Hollow Preserve. The hike will focus on phenology and how different plants and animals are preparing for winter and the coming spring. We hope to show you a state endangered fern species and maybe even a bat or two.

Led By: Joe Moosebrugger from Crane Hollow
Best for Teaching: All Ages
Location: Camp Oty’Okwa
24799 Purcell Rd, South Bloomingville, OH
Meet at the Camp Oty’okwa visitor parking lot
Interdisciplinary Environmental Education Strand

The Magic of Mud Play!

**Monday, November 16th, 2:00 pm - 3:00 pm**

**Registration Link**
We will explore how to recognize & integrate learning in child-initiated, open-ended, spontaneous play in mud, sand, & water.

**Presented by:** Marne Parmalee from Children’s STEM Garden, LLC
**Best for Teaching:** Early Childhood
**Location:** Virtual

Virtual STEAM

**Tuesday, November 17th, 1:00 pm - 2:00 pm**

**Registration Link**
Museum educators from the Ohio Valley Museum of Discovery will share their experiences from designing virtual summer STEAM programs.

**Presented By:** Staff from Ohio Valley Museum of Discovery
**Best for Teaching:** Elementary School
**Location:** Virtual

Environmental Education in the Math Classroom

**Wednesday, November 18th, 1:00 pm - 3:00 pm**

**Registration Link**
Environmental education isn’t only for the science classroom. It can be incredibly powerful (and fun) to integrate nature across the curriculum. Participants will consider ways they can address environmental issues in their math classrooms. We will brainstorm what math topics lend themselves to environmental contexts and see how our math tools provide urgency to environmental issues.

**Presented By:** Maggie Owens, Rural Action environmental education volunteer and high school math teacher
**Best for Teaching:** Middle School and High School
**Location:** Virtual
Role Playing and Civic Engagement: Creating a Plan for Public Forest Land.

Thursday, November 19th, 11:00 am - 12:30 pm

Registration Link

Participants will learn about the U.S. Forest Service, the Wayne National Forest, and will participate in a role-playing scenario to simulate the forest plan revision process, which the Wayne National Forest is currently going through and looking for participation from local youth.

Presented By: Rachel Neuenfeldt and Kyle Brooks from Wayne National Forest
Best for Teaching: Middle School and High School
Location: Virtual

Socially Distanced Field Experience

Acknowledging the Nature of Children: Basing Work on Authentic Experiences

Saturday, November 21st, 1:00 pm - 3:00 pm

Registration Link

It's in the nature of children to work with their hands, move their bodies, ask questions, and create meaning. When we work within a framework that embraces these needs, children are excited to learn more about their world. Their resulting work is often complex, interdisciplinary, and involves higher order thinking.

In this session, we will explore pathways for working with children to create meaningful academic learning out of authentic experiences.

Led By: Christin Butler and Keith Barron from Solid Ground School
Best for Teaching: Early Childhood and Elementary School
Location: Solid Ground School
13262 Liars Corner Rd,
Millfield OH  45761
Presenter Bios

Holly Borer
is a kindergarten teacher at Chieftain Elementary. This is her 8th year of teaching for the Logan-Hocking School District. Prior to becoming a teacher, she was an Education Specialist for Hocking Soil & Water Conservation District and worked on Slate Run Farm’s 1880’s farm. Holly enjoys sharing with others the cool things she finds outside using Instagram and Facebook. People enjoy sending her blurry pictures of things they find outside to id them.

Joe Brehm
has been leading Rural Action’s Environmental Education Program since 2010 with a great deal of collaboration and fellowship from Americorps members, fellow staff, and education leaders in the region. His own affinity to the natural world began when he was still diligently filling diapers; his dad took his brothers and Joe for walks in their local woods. They played in the stream and observed deer tracks in the mud. One sunny autumn afternoon a large buck stepped forth on a grassy hilltop and gazed down at him, ivory antlers shining above those wild eyes, and Joe has never been quite the same. Since starting with Rural Action, Joe has interacted with more than 20,000 kids in Appalachian Ohio. Many of them Joe has been fortunate to observe holding salamanders, starting fires without matches for the first time, tossing homemade mud balls into Sunday Creek, or daring him to eat crawdads. It has been and continues to be one of the greatest honors he can imagine to share these wild and life-giving Appalachian streams and forests with their muddy faces and curious minds.

Katrina Carpenter
has worked as Education Specialist with Perry County Waste Reduction and Recycling since 2007. She holds a bachelor’s degree in Conservation Education & Mgmt. from OU; associates degree in Recreation & Wildlife Management- Interpretive Methods from Hocking College. Prior to her move to Perry County she worked for many years in eastern Ohio as a Soil and Water Conservation technician and educator; taught high school vo. ed. natural resources & environmental technology; and also worked in parks, wildlife and forest conservation. Katrina is grateful for the opportunity to finally work in a position that encourages everyone to WASTE LESS and Recycle RIGHT for the good of future generations!

Andrew Hoffman
is a Ph.D. candidate at The School of Environment and Natural Resources, Ohio State University studying the effects of active forest management on timber rattlesnakes in southern Ohio. He has a Masters of Science from Missouri State University and a Bachelors of Art from Hanover College. He is also passionate about wildlife education and awareness and has reached hundreds of people through outreach programs with rattlesnakes. Since early 2020, he has maintained the YouTube channel, Life Underfoot, which has reached tens of thousands of people.
Rachel Kallimanis
is a preschool teacher at Chieftain Elementary with the Logan-Hocking School District. This is her 15th year, serving in preschool all 15 years. She has a Bachelor’s Degree in Early Childhood Education, and a Masters in Classroom Teaching. She also is a founder and serves on the board for the Hocking Hills Children’s Museum, which is in the beginning stages.

Jason Kallimanis
is self-employed contractor, but also holds a Bachelor of Science in Early Childhood Education. He served as the President of the Chieftain Elementary PTO for 5 years.

Rachel and Jason are married and surviving raising two teenage girls and love exploring their property in Logan to observe the local wildlife that call it home.

Susan Setterlin
graduated from Ohio State University with a bachelor’s degree in environmental education. Before she graduated, she volunteered for the Ohio Wildlife Center, Columbus Zoo and Holy Trinity Lutheran Church, where she shared her interest and passion for nature with children and adults. After graduation, she worked in the education department at the Columbus Zoo & Aquarium for 12 years. During that time, she also became a certified facilitator for Project Wild, Project Wet, Project Learning Tree and the Leopold Education Project training educators how to turn kids on to the out-of-doors. Susan became active in Columbus Audubon and the Grange Insurance Audubon Center by serving on its board and as an education chairperson and eventually OYBC (Ohio Young Birders Club) as an advisor. “There are two things that interest me: Peoples’ relationship with each other and peoples’ relationship to land”. (Aldo Leopold). Susan’s passion to connect people with nature exemplifies Aldo Leopold’s principle of a “land ethic”.

Courtney Silver-Peavey
came all the way from Chico, California to work on her PhD in Dr. Popescu’s Lab studying conservation and carry-over effects in amphibians. She graduated with her master’s from California State University, Chico in 2017 studying the vocalizations of the foothill yellow-legged frog. Since graduating with her master’s, she has been teaching in the Biology Department and the Geology and Environmental Science Departments at CSU Chico, even receiving the Biology Excellence in Teacher Award in her last year before moving to Ohio. Along with working on her PhD, she is also working with CA Fish and Wildlife and the Forest Service on an amphibian translocation project in Northern California.