Program of Events
2019 Annual Conference
April 4 - 7, 2019

The codes that follow each session description indicate which strand the session addresses as follows: SCR=Stewardship, Conservation and Responsibility; SC=STEM and Careers; AO=Adventure and Outdoor Skills

Graduate Credit and Contact Hours are Available!

Thursday, April 4, 2019
9:00 am – 4:00 pm
Ohio Student Wildlife Research Symposium
Join high school students and teachers from around Ohio as they present their wildlife and habitat research projects in this second annual research symposium for high school students. $35 for adults, $25 for students, includes lunch. Please see the agenda online at http://eeco.wildapricot.org

Friday, April 5, 2019
9:00 am – Noon
AM Field Trips
FT-1—OSU Mansfield EcoLab and Microfarm Tour
Join the adventure to the OSU-Mansfield and their new EcoLab. The campus has over 600 acres of woodland habitat for hands on learning for educators and landowners. The campus developed a Microfarm Food Systems Initiative to focus on sustainable food systems in the urban environment. The unique collaborative efforts of First Energy and the campus created the Monarch Right-of-Way: A Pollinator Demonstration Plot. Kathy Smith, program director of OH Woodlands Stewards program and Dr. Kip Curtis, professor of Environmental History will be our hosts. To learn more visit mansfield.osu.edu/initiatives/ecology to view "Linkage and Leverage Planning Program "and "EcoLab." Fee is $5.

9:00 am—4:00 pm
Friday All-Day Workshop
W1—Project WILD's New Terrestrial K-12 Guide is Here!
Join us to experience the latest version of the Project WILD K-12 Terrestrial guide. You'll get to experience some of the new activities, revisit old favorites and more! Indoors and Outdoors, SOC, Jen Dennison, ODNR-Division of Wildlife
Cost is $5.

9:00 am—Noon
Friday Morning Workshop
W2—Exploring Water Quality—A Free Curriculum Module
This workshop will share a free curriculum resource created to assist 7th Grade teachers in teaching many of Ohio’s Science Learning Standards using the context of water quality and nutrients in the watershed. Indoors, SCR. Dave Shellhaas, Midwest Regional Education Service Center. Cost is $5.
**Lunch Break**

An optional box lunch is available for $16. Otherwise, participants should make plans to provide their own lunch, either by ordering from the lodge restaurant, or packing their own.

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**Friday Afternoon Field Trip**

**FT-2—Adventures in Team Building**

Practice team building as you work together to navigate Camp Nuhop's low and high ropes course. The ropes course is outdoors, so dress for the weather. Field Trip is limited to 25 participants. Cost is $25.

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**Friday Afternoon Workshop**

**W3—The Outdoor Apothecary: Teas and Tinctures, Syrups and Salves**

In this hands-on workshop, participants will learn about plant medicine and common herbal remedies. They will make teas, tinctures, syrups and salves and learn about ethical wildcrafting and preserving medicinal plants through botanical sanctuaries. *Indoors, SCR, AO, Beth Bridgeman, Antioch College* Cost is $5.

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**Optional Activities**

Check into your room, go for a hike or enjoy some of the lodge’s amenities. You can also spend some time perusing our vendor/exhibit area.

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**Friday Night Welcome Dinner and General Session**

Join us on Friday Evening as we officially kick-off the 2019 EECO Annual Conference. It's a great opportunity to catch-up with your old friends and make new connections. We'll inform you on some of the latest successes of EECO and introduce the Board of Directors and Regional Directors.

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**Evening Activities**

**9:00 pm—10:00 pm** Night Hike (Weather Permitting)

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**EECO Kids Conference 2019**

While you are attending EECO conference sessions, your child/children can, too! EECO is offering a Mini Conference for kids! Kids will **LEARN** about Environmental Education and gain an appreciation for nature and environmental stewardship. Like our adult attendees, they will **CONNECT** with new friends in a positive and supportive setting. This is a fabulous opportunity to enjoy the conference and begin a family tradition for your children to **GROW** into our future EECO Leaders, all while enjoying the amenities of the state park! Ages 6 and up are welcome! A **$10 fee per child will be charged at registration. Lunch is not provided. Children's meal tickets will be available at the registration table.**
Saturday, April 6, 2019
Concurrent Sessions, Keynotes, Exhibits

7:00 am—8:00 pm Bird Hike tentative

8:00 am—9:00 am Breakfast—Join your EECO Regions and network while enjoying your breakfast

9:00 pm—9:15 am Welcome and Conference Opening—Brenda Metcalf, EECO Executive Director

9:30 am—10:30 am Concurrent Session 1
A1—Animal Architects: Using Nature’s Builders to Teach STEAM Topics (2-Hour Session)
This interactive workshop will showcase how nature’s engineers (birds, spiders, beavers, etc.) can be used to teach early childhood STEAM topics such as angles, shapes and more! Indoors, SC, Julie Travaglini, Allegheny Land Trust

A2—No Matter What the Project Size, Developing Stewardship Opportunities will Bring Amazing Results!
Creating stewardship opportunities creates academic teaching opportunities, but it also develops teamwork between both students and community members. Learn about the ups and downs associated with projects. Writing successful grants and why projects unite schools with their communities will be discussed. Indoors, SCR, David Murduck, Champion Middle School.

A3—Learning to INQUIRE About the World Around Us
Inquiry Based Learning (IBL) is a research-validated method of learning academic content, helping students get excited about learning while developing skills to gather knowledge about their surrounding environment. Learn about the steps in the process of conducting an inquiry-based lesson. The session will include a discussion of barriers to implementation of inquiry-based learning as an instructional practice. Indoors/Outdoors, SC, AOS. John Hoffman, The IBL Institute

10:30 am—10:45 am Morning Break

10:45 am—11:45 am Concurrent Session 2
B1—Animal Architects: Using Nature’s Builders to Teach STEAM Topics (Continued)

B2—Games, Games and More Games!
Nature-based games help students release energy, increase motor skills and collaborate while learning. Use games to teach classification, habitats, echolocation, camouflage, even history. Get Outside! Indoors and Outdoors, AO. Gia Giammarinaro, Cincinnati Park Board

B3—Citizen Science and Environmental Advocacy
Students share data collected, monitoring habits at West Creek Reservation in Cleveland Metroparks and will share their efforts to advocate for environmental concerns. Indoors, SCR, Kathryn Kwiatowski, Case Western Reserve University, The Leonard Gelfand STEM Center and Environmental heroes 2018-2019: Middle and High School Student Citizen Scientists
12:00pm—2:00pm Lunch, Business Meeting, & Keynote Speaker

Join us for a lunch and find out what EECO’s been up to in the past year. This will include an opportunity to meet your current Board of Directors and review the annual budget.

Lunch Keynote: Britt Ahart, Star of the History Channel Reality Show, Alone

Ohio Native, accountant, and true adventurer, Britt Ahart, has been a participant on two seasons of the TV show, Alone. Through these experiences he has spent months surviving in the wilderness with nothing but the contents of a small backpack. During this interactive talk Britt will lead discussion and answer questions about his experiences. Bring your questions and curiosity to hear about the adventures of a lifetime!

Visit https://www.history.com/shows/alone for more information on Britt and the Alone show.

2:15pm—3:15pm Concurrent Session 3
C1—Exploring Environmental Careers in High School
Columbus Green Building Forum has been working closely with teachers at Metro Early College High School and administrators at PAST Foundation to develop career based curriculum modules for the students in the two specific areas of Growth & Energy Learning Labs. Indoors/Outdoors, SC, SCR. Meera Parthasarathy, Columbus Green Building Forum and Sharon Graham, Metro Early College High School

C2—Connecting through Storytelling
Storytelling can be a powerful mechanism for forging emotional bonds with nature. Listen to stories on crucial ecosystem services and processes that you can immediately retell on your next trail visit. Indoors/Outdoors, SCR. Joshua York and Lauren Stayer Asquith, Five Rivers MetroParks

C3—H2 Know and Digging Through the Layers of Soil Science
Healthy soil and clean water are essential to healthy living. This hands-on workshop will look at the relationship between healthy soil, clean water and sustainable practices in agriculture. This will include exploring it through a Digital Case study on the algae bloom in Lake Erie. Indoors, SCR, SC, Tiffany Ballow, Nutrients for Life and Katherine Nainiger, Geauga Soil and Water Conservation District

3:15 pm—3:30 pm Afternoon Break
4:30 pm—4:30 pm  Concurrent Session 4

**D1—Teen Take-over**
Child Labor Laws were put in to place for good reason. But what about *Child-led labor*? Learn about active-learning techniques that put teens in charge of activities and each other. *Indoors, AO.* Marcia Hood, Ebony Hood and Erika Hood, See You at the Top-Community Youth Group

**D2—Teaching Presence**
What better adventure to experience than exploring the vastness of our own mind? Teaching presence is part of that adventure. When students are focused and quiet within themselves, they are more willing and able to participate in any lessons. The session will introduce ways to utilize breath and nature in helping practice presence. *Indoors and Outdoors, AO,* James Viles, Greenacres Foundation

**D3—Discover—Explore—Connect: Understanding the Environment through Historical Records**
Explore the work of A.B. Williams, CMNH’s first Curator of Education and the creator of Trailside Museums, to develop a deeper understanding of N.E. Ohio forests; past, present and future. *Indoors, SCR, SC, AO.* Skye Powers-Kaminski, The Cleveland Museum of Natural History

4:30 pm—6:00 pm  Environmental Education Certification Poster Session, Networking, Silent Auction

This is your chance to check out all the vendors and displays, chat with new and old friends, and get your bids in on all the fantastic silent auction items.

6:00 pm—9:00 pm  Awards Banquet and Live Auction

Come join us as we close out the conference with a dinner buffet and stay to congratulate this year’s award recipients. We will also have some fantastic items for you to bid on at the Live Auction. All proceeds go to the EECO Endowment Fund.

9:00 pm  Night Hike—tentative

Sunday, April 7, 2019

7:00 am—8:00 pm  Bird Hike tentative
8:00 am—9:00 am  Breakfast

Field Trips

9:00 am—Noon

**FT-3—Mohican Discovery Forest Tour**
Led by Division of Forestry Staff, this hike will be a look at forest management methods. Meet in the lobby at 9am to carpool to the Discovery Forest.

EECO April Tour
Sunday, April 7
Mohican State Park

*Explore Native Hemlock Forests. Search for Spring Wildflowers. Tour an Experimental Forest.*

Before heading home after the EECO Conference, join the EECO Tour on Sunday as we tour Mohican State Park. We’ll spend the morning visiting Discovery Forest to see a variety of Sustainable Forestry Management sites. In the afternoon, we will enjoy a wildflower and vernal pool hike then travel safely home. The tour is separate from the EECO Conference. Cost to attend is $25.

*College credit is available for participants who attend three EECO Tours.*
We hope you find this conference to be an exciting and beneficial professional development opportunity.

If you have any questions about the program, the registration process, or any other topics or issues, please contact Brenda Metcalf, EECO Executive Director, at 740-653-2649 or director@eeco-online.org.

You can also contact Amanda Kriner, Conference Chair, at 419-884-3764 or akriner@richlandcountyoh.us for assistance.

We look forward to seeing you at Mohican State Park!

Thank you to the following conference sponsors:
## 2019 Annual EECO Conference Registration

**April 4-7, 2019**  
**Mohican State Park**  
**Early Bird Deadline: March 4, 2019**  
Register online at [http://eeco.wildapricot.org/](http://eeco.wildapricot.org/)

### Registration Details (please print)

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<tr>
<td>Name as it should appear on name tag:</td>
<td>Do you have an Ohio EE certification (Yes or No)</td>
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<td>Organization</td>
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_____ I will bring a silent auction item  
Special Needs ______________________________ (mobility, vegetarian, food allergies, etc.)

### Presenters:  
_____ I plan to attend the full conference ($25 discount)  
_____ I plan to attend my presentation session only

Join or renew your EECO Membership and save money on your conference registration!

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<th>Individual</th>
<th>$35</th>
<th>Student/Senior</th>
<th>$20</th>
<th>Professional</th>
<th>$50</th>
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See additional information on the next page to join one of EECO’s special interest sections.

### Field Trips and Workshops

Note: Workshop and field trip participants can pre-purchase a box lunch for $19, order from the lodge restaurant or pack a lunch.

#### Friday Field Trips

_____ FT—1—OSU Mansfield EcoLab and Microfarm Tour—$5  
_____ FT—2—Adventures in Team Building—$25

#### Friday Workshops

_____ W1—Project WILD’s New Terrestrial K-12 Guide is Here!—$5  
_____ W2—Exploring Water Quality—A Free Curriculum Module—$5  
_____ W3—The Outdoor Apothecary —$5

#### Sunday Field Trips

Lunch and transportation are not provided, please plan accordingly.  
_____ FT—3—Mohican Discovery Forest Tour  
_____ FT—4—EECO Tour $25

### Saturday Concurrent Sessions

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<tr>
<th>Session 1</th>
<th>Session 2</th>
<th>Session 3</th>
<th>Session 4</th>
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<tr>
<td>9:30 am</td>
<td>10:45 am</td>
<td>2:15 pm</td>
<td>3:30 pm</td>
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A1—Animal Architects (Double Session)  
B1—Animal Architects (cont.)  
C1—Exploring Environmental Careers  
D1—Teen Takeover

A2—No Matter the Project Size  
B2—Games, Games and more Games  
C2—Connection through Storytelling  
D2—Teaching Presence

A3—Learning to INQUIRE about the World around Us  
B3—Citizen Science and Environmental Advocacy  
C3—Digging through the Layers of Soil Science  
D3—Discover, Explore, Connect
Register online at http://eeco.wildapricot.org with a credit card or make checks payable to EECO and mail with this completed form to:

Brenda Metcalf  
EECO Executive Director  
PO Box 1004  
Lancaster, OH 43130  
(740) 653-2649

If you wish to bring a guest who will be attending meals, contact Brenda directly to have them registered at a reduced rate.

Please select all meals you will be attending:

☐ Friday Dinner  ☐ Saturday Breakfast  ☐ Saturday Lunch  ☐ Saturday Awards Banquet  ☐ Sunday Breakfast

Early Bird Registration Deadline March 4, 2019

I am interested in receiving Graduate Credit from Ashland University. The cost is $210 for one credit hour. Please contact Joanne Mudra EECO Region 6 co-Director, at jcmudra@gmail.com

Certificates with contact hours are available upon request.

Lodging Information – Mohican State Park Lodge

3116 OH-3, Loudonville, OH 44842

Reservations—(419)-938-5411. Ask for the “EECO Conference” room rates.

Room Rates for Queen, King and Bunk: $115.00 per Night Per Room

Room Block will be held until March 4, 2019.

Join one of EECO’s special interest sections!

EECO offers special interest sections to its members to promote networking among peers and groups with similar interests. EECO members may join one section at no additional cost to regular membership dues. Each additional section joined is $5 per section. Please check which section(s) you would like to join.

☐ Business, Industry and Trade Associations  ☐ Environmental and Community-based Organizations

☐ Environmental Education and Outdoor Education Organizations  ☐ Government Agency

☐ Higher Education  ☐ Preschool, Elementary and Secondary Education

☐ Research

Cancellation Policy

All participant cancellations require written notice (U. S. Mail or electronic) to be sent to Brenda Metcalf, EECO Executive Director, P.O. Box 1004, Lancaster, Ohio 43130-1004, director@eeco-online.org and will be refunded according to the following schedule:

— full refund - at least 30 days before the conference —— 50% - at least 16 days before the conference —— no refunds within 15 days of the conference ——

Please read and sign the notice below:

I am aware of the risks inherent in these activities and assume all responsibility to myself whatever the cause. I agree to hold EECO, all conference personnel, and all participating agencies/organizations harmless for any injury that I may sustain in the course of participating in the conference.

Signature: ____________________________ Date: ____________________________