

# EECO

Environmental Education Council of Ohio

Winter 2021 / 2022



Issue Focus: Climate Change

## EECO Winter Conference

Winter Snow – Creative Ways to Teach STEAM  
January 28 & 29, 2022

*The “Winter Snow Conference” will be virtual!*

**Friday Evening:** Welcome and EECO Update, followed by an hour of crazy games, activities and nerdiness with Carrie Elvey from the Wilderness Center.

**Saturday:** Join us for virtual consecutive sessions featuring soils, ginseng, pollinators, watersheds, careers, and the Spotted Lantern Fly.



**Keynote Speaker:** “Ruthy” Mackenzie Rutherford, a researcher/student at Miami University. Ruthy will discuss her research, the climate and the need for diversity in the GEO sciences.

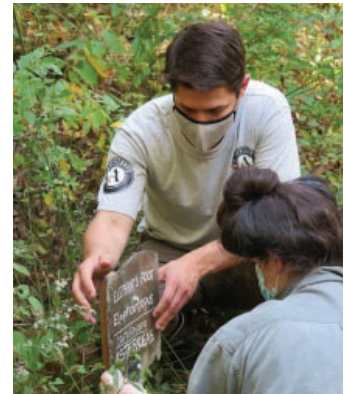
**Cost:** Depending upon options the conference runs from \$5 to \$35, and is free for students.

**Find Out More & Register:** <https://eeco.wildapricot.org/event-4597864>

## Environmental Careers

Numerous videos are available on all sorts of environmental professions, such as horticulturalist, lawyers, chemists, environmental educators, and the examples below. Each video also has the contact information if your students generate further questions.

<https://eeco.wildapricot.org/stem-careers>



*Julian Narvaez-Wiener, Land Steward at United Plant Savers (UpS Ameri-corps)*

## Save the Date

### OEEF Grants

#### Letter of Intent Deadline

Jan 8

#### Grant Submission Deadline

Jan 15

<https://epa.ohio.gov/wps/portal/gov/epa/get-funding>

#### Virtual Meetup: Probing for Understanding (ODE)

Jan 11

<https://eeco.wildapricot.org/event-4524392>

### Virtual Winter Snow Conference

Jan 28

### Ohio Natural History Conference

Feb 26, Columbus

[www.ohiobiologicalsurvey.org](http://www.ohiobiologicalsurvey.org)

### Grant Writing Workshop

March 16 in Hamilton, Ohio

See page 9 for details

### EECO Annual Conference

March 31 - Apr 3

Hueston Woods State Park

<https://eeco.wildapricot.org/>



*Marilyn Dufour, Environmental Specialist with the City of Toledo Division of Environmental Services*

# Teaching Change

By Melissa Proffitt, Warren County Soil & Water Conservation District



When educating our youth about the natural world in the sphere of environmental education, so much of what we teach involves change. Whether it is changing life cycles, changes in the earth's surface due to processes like weathering and erosion, or changes in states of matter during the water cycle, the concept of change is prevalent. One of the biggest challenges we currently face in environmental education is tackling the concept of climate change and improving students' scientific literacy in connection to climate change. Our challenge lies not in just addressing the scientific complexities of the topic, but also the misconceptions and bias associated with climate change in some spheres of our society. The best way we can confront these challenges is by providing our students with the knowledge and understanding they need. And teaching about climate change can be achieved through multiple integrated approaches.

As an informal educator with a soil & water conservation district, I often have 45 minutes to an hour to engage and educate the classes or public groups with whom I interact. So often climate change will be an integrated topic into other programs. For instance when teaching about the water cycle, students can investigate how a changing climate effects the different processes such as evaporation or precipitation rates. Or when discussing life cycles and phenophases, students can explore how a changing climate can influence these dynamic co-dependent relationships in nature. There are even citizen science projects like Nature's Notebook that directly gets students involved in data collection to track changes in phenophases in their local area. Some programs can focus more specifically on climate change itself such as studying the carbon cycle and where carbon is stored in our planet. Or how we study paleoclimate through ice cores and how that informs our current research on climate change.

Whatever the approach may be, it is critical that environmental educators be addressing and teaching climate change in multiple grades and across diverse platforms. We have to prepare students and give them the knowledge and skills they need to assess and draw conclusions about how climate change is impacting our world. By doing so, we are helping prepare the next generation of professionals who can implement actions to address the effects of climate change, and positively influence the future changes of our world.



## Support EECO

### ...by making a donation

Would you like to help further environmental education in Ohio? Consider contributing an amount of your choice to EECO. All donations are tax-deductible and will help increase awareness of environmental issues in Ohio.

Find out more at <https://eeco.wildapricot.org/support>

### Other ways to support EECO:

**Amazon Smile.** Select the "Environmental Education Council of Ohio" as your designated charity. Log into Amazon Smile every time you shop at Amazon.

**Goodshop.** Shop hundreds of popular retailers at [Goodshop](https://www.goodshop.com/), purchases will benefit EECO.

**With office supplies** from our [amazon wishlist](#).



THE ENVIRONMENTAL EDUCATION  
COUNCIL OF OHIO



# Save the Date:

## EECO Annual Conference 2022

### Hueston Woods State Park, SW Ohio

### March 31 - April 2, 2022

Get ready to join us in SW Ohio for the EECO Annual Conference, which will be packed with fun, learning, community, and fossils!

#### Thursday

- Student Wildlife Research Symposium

#### Friday

- Fieldtrips
- Workshops
- Open Space

#### Saturday

- Sessions
- Annual Meeting
- Auction
- Awards Banquet

#### Sunday

- Bird Hike
- EECO Tour

#### Saturday Keynote

Learn about “the Big Woods” with Shawn Connor, Hueston Woods Naturalist.



**Information & registration will be posted at**  
<https://eeco.wildapricot.org/>

## Interpretive Signs Highlight Climate Change Planning on Ohio's Honor Camp Trail

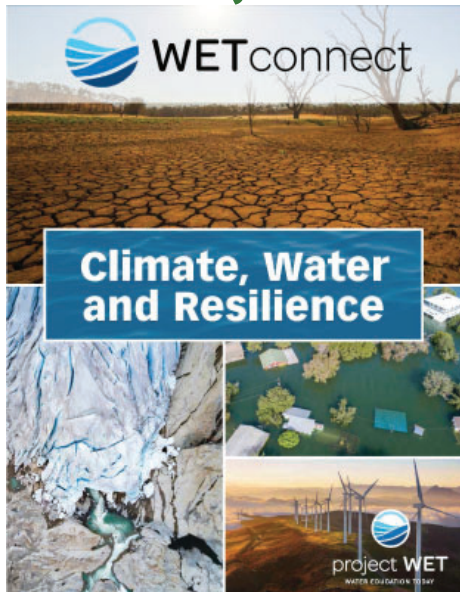
The Northern Institute of Applied Climate Science has helped incorporate climate change into 10 signs created by the Ohio Department of Natural Resources, Division of Forestry, for an interpretive trail. In a project supported by the Forest Service Northern Research Station and Northeastern Area State & Private Forestry, the signs include QR codes linking to the Climate Change Tree Atlas [www.fs.fed.us/nrs/atlas/](http://www.fs.fed.us/nrs/atlas/), and information about the Honor Camp trail adaptation demonstration <https://forestadaptation.org/adapt/demonstration-projects/ohio-dnr-division-forestry-honor-camp-trail>. The signs highlight climate vulnerability and adaptation actions around a variety of management topics: including Best Management Practices, fall colors, forest succession, forest fire, hemlock forest, invasive species, shelterwood treatment, thinning treatment, and tree planting.



# The “Projects” and Climate Change

Many of us utilise Projects WET, WILD, and Learning Tree. Did you know they each have new materials focusing on climate change? During the EECO annual conference, you can attend a full day workshop to become more aquantied with these great resources. Until, read more below...

## Project WET: Climate, Water and Resilience

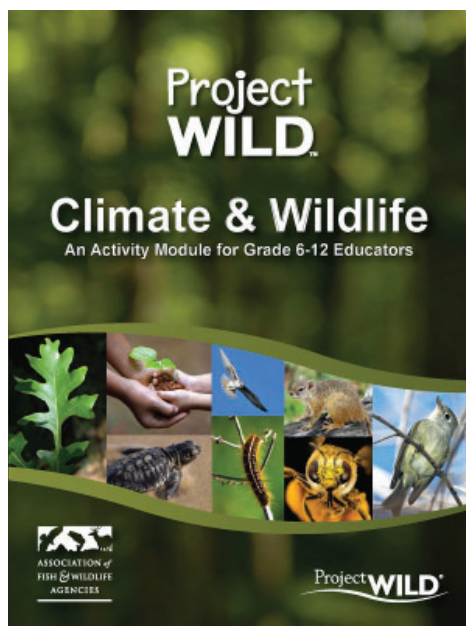


Released in 2020, Climate, Water and Resilience helps educators teach middle and high school students about climate and climate change using interactive, objective, science-based activities that students will enjoy. Unlike other Project WET publications, the activities in this guide are meant to be taught in sequential order. Each lesson is a stand-alone activity and can be taught modularly; however, information from the first activity will help students to understand the second activity, which will then help them to understand the third activity, and so on. Project WET requires that educators attend a local workshop to learn the science of climate change and how to localize these lessons for a place-based focus. <https://www.projectwet.org/programs/climate> offers many resources on climate from downloadable lesson plans to climate activities identified in Project WET, WILD and PLT to activity resources to help understand our changing climate. This new curriculum will be released at the EECO Conference, which will be held March 31 – April 3, 2022. Participants at this workshop will receive the new climate guide, hear from climate experts, and receive other resources they can use to educate their students in a scientific and informed way. Contact the Ohio EPA, Office

of EE for more information and future details about the upcoming release of this new climate curriculum.

## Project WILD: Climate & Wildlife Module

The Project WILD program, administered at the national level by the Association of Fish and Wildlife Agencies, has completed production of the Project WILD: Climate & Wildlife module. This collection of eight activity lessons is designed for formal and non-formal educators to use with grade 6-12 students. As a resource to advance learning about climate adaptation through the lens of wildlife and habitat stewardship, this module includes the following subject matter:

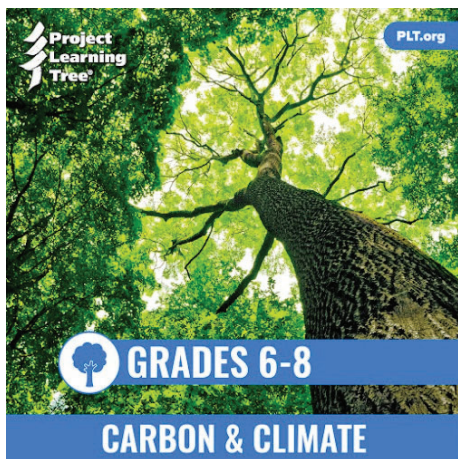


- Shifting phenology and ranges
- Interdependence of species
- Balancing ecological, cultural, recreational, and commercial uses of land and resources
- Community messaging and engagement
- Assessing species vulnerability, and
- Reducing non-climate stressors to species and ecosystems

A reference table in the module provides educators with ideas on how to align and further connect the eight activities with the goals from the National Fish, Wildlife, and Plants Climate Adaptation Strategy.

Funding for the Climate & Wildlife module and for providing educator professional development training in using the module was provided by the U.S. Environmental Protection Agency. Middle and high school educators can receive the module through participating in a Project WILD Climate and Wildlife Professional Development workshop offered by Project WILD state coordinators starting in 2022. For more information on Project WILD training, or to contact your state Project WILD coordinator, go to the “Get Training” link at [www.projectwild.org](http://www.projectwild.org).





# Project Learning Tree: Forests & Climate Change

Project Learning Tree (PLT) engages students in critical thinking around some complex environmental issues. Climate change may be the single biggest challenge that faces our planet today, but not everyone agrees about its scope, what effects it will have on people and the environment, or how we should address it. For the Grade 4-8 educator, PLT's new Explore Your Environment K-8 Guide has a dozen activities including climate content to experience.

For Grades 6-8: E-Unit – Carbon & Climate provides online activities and resources focusing on the topic of climate change that helps teachers accurately convey data, reveal assumptions, and engage their students in critical-thinking skills. Project Learning Tree's Carbon & Climate e-unit helps educators introduce and educate students regarding some of the complex issues involved in climate change.

PLT's online secondary module Southeastern Forests & Climate Change helps educators teach about climate change impacts on forest ecosystems, the role of forests in sequestering carbon, and strategies for reducing greenhouse gas emissions and adapting to changing climatic conditions. The lessons that comprise this module are used by educators & with students across the United States.

## Educator Overview Intergovernmental Panel on Climate Change

Since establishment in 1988, the Intergovernmental Panel on Climate Change (IPCC) has released five of its main assessment reports. The sixth was released in September 2022, and a summary is currently available that highlights useful information for teachers.

<https://www.ipcc.ch/report/ar6/wg1/>

The summary begins with an overview of the IPCC and the assessment reports, then specifically focuses on the sixth report. The important findings are that 1) global warming is clearly caused by humanity, 2) the impacts of the climate crisis are here, 3) temperatures have increased and will continue to do so, and 4) temperature increases vary by region and urban/rural settings.

Despite the imminence of the crisis, there are actions we can take as a society and as educators. The report outlines five models that provide guidance for policies and actions to alleviate climate change, but the summary states that action needs to happen immediately and requires paradigm shifts on global, regional, and individual levels.

By helping to shape young minds, the K-12 education sector has a crucial role in climate change mitigation and adaptation. The summary says that individually educators can help address climate change by 1) continuing to learn about it, 2) embracing leadership focused on making change, 3) integrating sustainability and climate resiliency into their leadership philosophies, 4) investing in systemic change, and 5) accepting/rejecting the responsibility to do something about climate change. Schools can assist by developing a climate-ready campus, curriculum, community, and culture.

## World of 7 Billion

### Student Video Contest

Population growth is a threat multiplier – it makes other problems worse and more difficult to combat. Through the World of 7 Billion student video contest, middle and high schoolers are given the platform to think critically about global challenges related to population and share what they think we should do to fix it.

### Video Contest Topic

Explain how population growth impacts one of the following global challenges and offer an idea for a sustainable solution. The global challenges are: agriculture and food, urbanization, or ocean health.

### Deadline

All video submissions must be received by 5:00pm ET on Tuesday, February 22, 2022.

Winners will be announced on May 10, 2022.

<https://www.worldof7billion.org/student-video-contest/>

# New Resources for Teaching about Climate Change

## Climate Literacy Booklet

The U.S. Global Change Research Program, a collaboration of 13 federal agencies defines climate literacy as an understanding of how we influence climate and how climate influences us. Someone who is climate literate 1) understands climate science, 2) knows how to review scientific sources for accurate information about climate, 3) communicates meaningfully about climate, and 4) can make informed decisions and take responsible actions regarding climate.

[https://downloads.globalchange.gov/Literacy/Climate Literacy Booklet Low-Res.pdf](https://downloads.globalchange.gov/Literacy/Climate%20Literacy%20Booklet%20Low-Res.pdf)

## Project EDDIE (Environmental Data-Driven Inquiry and Exploration)

Project EDDIE is a curriculum with publicly available datasets focused on improving the quantitative reasoning of high school and college students. Developed by a community of STEM instructors and researchers, the curriculum has modules in topics such as climate, ecology, environmental sciences, and more. Project EDDIE offers workshops training teachers to use the curriculum.

<https://serc.carleton.edu/eddie/index.html>

## U.S. Environmental Protection Agency (U.S. EPA)

The U.S. EPA discusses weather patterns and climate and has plenty of resources available about the impacts of climate including but not limited to story maps about climate impacts on communities and other climate-related research.

Weather and Climate <https://www.epa.gov/climate-indicators/weather-climate>

Story Map <https://storymaps.arcgis.com/stories/ebd8dcbb0b6048cd81caa6eb450b8974>

Other climate-related research <https://www.epa.gov/climate-research>

## National Aeronautics and Space Administration (NASA)

NASA has a curriculum for kids <https://climatekids.nasa.gov/>

NASA has a collection of peer-reviewed educational resources, and resources showing how some climate variables have changed over time. <https://science.nasa.gov/learners/wavelength>

Some climate variables - <https://climate.nasa.gov/vital-signs/carbon-dioxide/>

NASA also has a Global Climate Change site with facts, articles, and resources for educators.

<https://climate.nasa.gov>

## NAAEE Environmental Issues Forum – directly to climate

To start classroom conversations about climate, the North American Association for Environmental Education and the Kettering Foundation provides the Environmental Issues Forum, a virtual platform of tools, training, and support for teachers.

Environmental Issues Forum <https://naaee.org/our-work/programs/environmental-issues-forums>

Climate Change Education Environmental Justice <https://naaee.org/our-work/programs/climate-change>

Climate Choices: Moderator Resources and Background information <https://naaee.org/our-work/programs/environmental-issues-forums/eif-moderator-resources>

## Climate Resources from Ohio EPA Office of Environmental Education

Intergovernmental Panel on Climate Change (IPCC) <https://www.ipcc.ch/>

U.S. Global Change Research Program National Climate Assessment <https://nca2018.globalchange.gov/>

U.S. Global Change Research Program Climate Resilience Toolkit <https://toolkit.climate.gov/content/about>

# Student Wildlife Research Symposium

## Call for Proposals

The call for proposals is now open for the Ohio Student Wildlife Research Symposium. The Symposium will take place as part of the Annual EECO Conference on March 31, 2022 at Hueston Woods State Park.

Any middle or high school-aged student can present a poster on research related to native Ohio wildlife and their habitats. Paper presentations are selected by a panel to fill a limited number of slots. Paper presentations must be completed research. Posters can be either completed or ongoing research. Guidelines are included in the Call for Proposals. Submissions not selected for Paper Presentations will be allowed to present their research as part of the Poster Session. Please see the abstracts from previous Symposiums below for past presentation and poster topics.

Proposals shall be accepted **between now and January 14, 2022**. For more details, please visit <https://ohiodnr.gov/wps/portal/gov/odnr/discover-and-learn/education-training/environmental-education/student-wildlife-re-search-symposium>

Anyone with an interest in Ohio's wildlife can attend the Symposium. Registration fees apply, discounted rates for students. Registration will open in December or January through the EECO website <https://eeco.wildapricot.org/>.



## ODE's Virtual Meetups Probing for Understanding

Ohio Department of Education holds monthly science professional learning. The focus of the Virtual Meetups in Science for the 2021-2022 academic year will be on High Quality Materials, Instruction and Assessment.

The next session, Probing for Understanding will be held on January 11 at 4 pm.

Find out more and register at <https://eeco.wildapricot.org/event-4524392>

## Ohio Natural History Conference Herpetology in Ohio

February 26 at the Columbus Zoo

In 2022, the Ohio Biological Survey will celebrate it's 110th Anniversary! We could not think of a better way to celebrate than to join Ohio Partners in Amphibian and Reptile Conservation to host a special themed event, Herpetology in Ohio.

[www.ohiobiologicalsurvey.org](http://www.ohiobiologicalsurvey.org)

## Science in the City SECO's Book Study Workshop

In Science in the City, Bryan A. Brown examines how language and culture matter for effective science teaching. The book illustrates how science education can flourish if it is connected to students' backgrounds, identities, language and culture. The result is a classroom that showcases how the use of more familiar, cultural relevant modes of communication can pave the way for improved science teaching.

The book study includes five one-hour virtual sessions, with contact hour and graduate credit options. The first session is January 12, 2022 from 4- 5 pm.

<https://scienceeducationofohio1.wildapricot.org/page-18321>

The poster for the EECO Winter Virtual Conference has a blue background on the left and a photograph of a waterfall on the right. The text on the blue background reads: "EECO Winter Virtual Conference Jan 28 & 29th Registration is OPEN WINTER SNOW https://eeco.wildapricot.org/event-4597864 Fun Friday Event, Great Keynote, Fabulous Sessions and Contact Hour Certificates Available!". The EECO logo is at the bottom left of the blue section.

EECO Winter  
Virtual Conference  
Jan 28 & 29th  
Registration is OPEN

**WINTER  
SNOW**

<https://eeco.wildapricot.org/event-4597864>

Fun Friday Event,  
Great Keynote,  
Fabulous Sessions and  
Contact Hour Certificates  
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**EECO**  
Environmental Education Council of Ohio



# Ohio Environmental Education Fund



The OEEF was created by the General Assembly in 1990 to enhance Ohio citizens' awareness and understanding of environmental issues. It is administered by the Director of the Ohio Environmental Protection Agency (Ohio EPA) and provides approximately \$1 million annually in grants to support environmental education efforts within the state of Ohio. The OEEF derives its monies from one-half of the civil penalties collected from violations of Ohio's air and water pollution control regulations.

<https://epa.ohio.gov/wps/portal/gov/epa/divisions-and-offices/environmental-education/Environmental+Education>

## Grant Applications

The Ohio Environmental Education Fund (OEEF) invites applications for mini grants (\$500 - \$5,000) and general grants (\$5,000 - \$50,000) for education projects targeting pre-school through university students and teachers, the general public, and the regulated community. Prospective applicants can start the application process by opening an account in Ohio EPA's eBusiness Center at <https://ebiz.epa.ohio.gov/>

Ohio EPA encourages OEEF applicants to discuss their proposal ideas with OEEF staff members before completing their applications. OEEF staff members will be happy to provide a pre-review of draft applications as they are under development in the online grant service.

**Electronic Letter of Intent Deadline** is due by 5:00 p.m. on January 8th, 2022.

**Application Deadline** is 5:00 p.m. on January 15th, 2022.

## Grant Writing Workshops

The Ohio EPA Office of Environmental Education typically offers grant writing workshops around the state throughout the year. Once staff are able to travel again, the following workshops will be offered. If interested in finding out more, please contact Dennis Clement at [dennis.clement@epa.ohio.gov](mailto:dennis.clement@epa.ohio.gov)

- Grant Writing 101: Finding the Right Funder. Prospecting tips to help you identify foundations, corporations, and government grant programs, and how to approach different kinds of grantmakers.
- Grant Writing 102: Writing a Winning Proposal. How to avoid common mistakes applicants make, and develop realistic objectives, activities and budgets. OEEF will be referred to during this session.

### Upcoming Workshop

Wednesday, March 16, 2022 from 10 am - 4 pm.  
1802 Princeton Road, Hamilton, Ohio.  
Attend both 101 and 102 during this one day event.  
Email [dennis.clement@epa.ohio.gov](mailto:dennis.clement@epa.ohio.gov) to register.

## New General and Mini Grant Awards, December 2021

In the Fall 2021 grant cycle, Ohio EPA awarded the following five general grants for a total of \$150,000.

**Marietta College - Environmental Engineering, "Rolling Out an Earth, Energy, Environmental Lab,"** F-22G003, \$50,000, Washington County

Audience: PreKindergarten – University (Grades 6-12)

Contact: Juan Carlos Ramirez Dorronsoro, [jcr006@marietta.edu](mailto:jcr006@marietta.edu), (740) 376-4614.

The Environmental Engineering program at Marietta College is proposing an educational mobile testing and demonstration lab to take to secondary schools in southeastern Ohio. The lab will allow middle and high school students to evaluate energy industry emissions. The van will be loaded with testing equipment and will travel to both schools and possible contamination sites where students will be given the opportunity to test soil, water, and air samples to identify and measure levels of background contamination. Students will gain hands-on experience with the equipment, testing and analytical procedures, and contamination results. Marietta college students and faculty will staff the van and provide STEM curriculum as part of the program. A goal of the project is to attract students to STEM fields and specifically to environmental engineering programs and careers.



## General Grants Continued

### ***Agraria Center for Regenerative Practice, "The Regenerative Farming Fellowship,"*** F-22G001

\$44,000, Clark, Greene, and Montgomery Counties.

Audience: Regulated Community (Farmers),

Contact: Kat Christen, [kchristen@communitysolution.org](mailto:kchristen@communitysolution.org), (937) 767-2161.

Agraria is dedicated to supporting Black and Indigenous people of color (BIPOC) and underserved farmers; sustaining a robust regional food system; and expanding regenerative land practices that protect Ohio's air and water quality and biodiversity. To that end, the Regenerative Farming Fellowship (RFF) supports Fellows through an individualized training program focusing on regenerative growing practices, networking, and business management. The ongoing pilot phase of the RFF was in place from April to October 2021 with six regional Fellows, all of whom are women, 5 are BIPOC, and most are farming in urban areas. In 2022, the RFF will incorporate Fellow graduates through monthly winter skill shares, a dedicated workshop, an invitation to the 2022 Fall Celebration Event, and membership to the Black Farming Network. For the new cohort of Fellows in 2022, the focus will continue to be on beginning BIPOC farmers, and Agraria will add the availability of incubation space to expand access to those who do not yet have their own growing space.

### ***Ohio University - Voinovich School of Leadership and Public Affairs, "My Backyard Stream Program,"***

F-22G006, \$24,217, Statewide

Audience: General Public (Citizen Scientists)

Contact: Jen Bowman, [bowmanj2@ohio.edu](mailto:bowmanj2@ohio.edu), (740) 597-3101.

My Backyard Stream is a program developed by Ohio University's Voinovich School. It is an online ArcGIS StoryMap data platform where citizen scientists can upload and share their water quality data throughout the state of Ohio. Ohio University and its collaborators will promote, train, and provide water quality collection kits to give citizen scientists the tools they need to grow this program statewide with a focus on Ohio River tributaries.

### ***Greene County Sanitary Engineering Department, "Elementary School Educational Program 'Your Aquifer, Your Water,'"*** F-22G008

\$6,936, Greene County

Audience: PreKindergarten – University (Grades K-5)

Contact: Alsu Shaydullina, [ashaydullina@co.greene.oh.us](mailto:ashaydullina@co.greene.oh.us), (937) 562-7447.

There have not previously been outreach programs and for schoolchildren (K-5) and source water protection related to Little Miami River Buried Valley Aquifer. This grant will support an environmental education initiative for local elementary school students and be focused on the Source Water Assessment and Protection (SWAP) Area managed by Greene County Sanitary Engineering Department. An Enviroscape watershed educational model and Aquifer kits will be used to show how contaminants can travel to the aquifer, to help students learn about best management practices to prevent pollution, and to show what students can do to protect the aquifer. This program will benefit student education about local water sources and build a community of informed and responsible citizens who protect precious water resources.

### ***Hamilton County Soil & Water Conservation District, "Electrifying Education!,"*** F-22G018

\$24,847, Hamilton County

Audience: General Public.

Contact: Sarah Meadows, [sarah.meadows@hamilton-co.org](mailto:sarah.meadows@hamilton-co.org), (513) 772-7645.

Hamilton County is home to 3 volunteer water quality monitoring programs with a decade of monthly data and dedicated volunteers, each managed by a different local nonprofit. Hamilton County SWCD and partners will assemble volunteers from each WQM program to collect biological data to complement existing chemistry data on the lower Great Miami River and Mill Creek tributary monitoring sites. This would allow volunteers to see firsthand the importance of water quality and habitat restoration on biodiversity. Hamilton County SWCD will work with the University of Cincinnati and will use several classes of students to assist with the collection of biological data. These students would also benefit from the opportunity to use the electrofishing equipment and help the County collect Level 3 credible data, as they might do in an environmental career track. Hamilton SWCD will also provide a training for Public Works staff in Hamilton County with a field demonstration and explanation of the improved water quality benefits of environmental regulations.

## In the Fall 2021 grant cycle, Ohio EPA awarded six mini grants for a total of \$19,594.

### *Friends of Ottawa National Wildlife Refuge, "Investing in the Future: Conservationists of Tomorrow,"*

F-22M-007

\$3,600, Lucas and Ottawa Counties

Audience: Pre-school to University (Grades 7-12),

Contact: Rebecca Lewis, [rebecca\\_lewis@fws.gov](mailto:rebecca_lewis@fws.gov), 419-707-9111.

Project collaborators will host three workshops in 2022 that will provide training to thirty-six teachers who serve the Toledo metropolitan area. These teachers will be trained in the Healthy Water, Healthy People curriculum, learn field monitoring techniques, network with professionals, and discuss future partnering efforts between resource professionals and schools. These workshops will be tied to a multi-year urban outreach initiative to provide future field trips and student projects reaching underserved youth and foster natural resources career exploration.

### *Clean Fuels Ohio, "Drive Electric Ohio Education and Outreach,"* F-22M-002

\$5,000, Cuyahoga, Franklin, Hamilton and Montgomery Counties

Audience: General Public, Contact: Marie McConnell, [marie@cleanfuelsohio.org](mailto:marie@cleanfuelsohio.org), 614-884-7336.

Drive Electric volunteers from the Columbus, Dayton, Cincinnati, and Northeast Ohio chapters will attend various Ohio Auto shows and educate attendees on eMobility. Ohio Auto shows attract thousands of visitors every year and provided a unique community outreach opportunity to interact with a wide audience of people interested in transportation. Flyers and other handouts will provide information on the benefits and modes of electric transportation. Volunteers will also educate visitors on what it means to drive, bike, and scoot electric. This project will directly engage hundreds of community members through educational materials and one-on-one conversations in a non-sales setting.

### *Tinker's Creek Watershed Partners, "All Butts Lead to the Creek Cigarette Waste Presentation Program,"*

F-22M-004

\$5,000, Cuyahoga, Geauga, Lorain, Portage and Summit Counties

Audience: General Public

Contact: Kelli Herrick, [kelli@tinkerscreekwatershed.org](mailto:kelli@tinkerscreekwatershed.org), 330-963-6243.

Tinker's Creek Watershed Partners (TCWP) developed a cigarette butt prevention program titled, "All Butts Lead to the Creek". In spring 2021, signage was given to local communities and cigarette butt receptacles were distributed to local pubs with the goal of educating the public regarding the environmental hazards posed by cigarette butts. With concepts from Project WET, TCWP seeks to expand this program by purchasing billboards on major roadways highlighting the "All Butts Lead to the Creek" program and launching a cigarette butt recycling program in the Tinker's Creek Watershed.

### *Medina SWCD, "Stream Biology and Runoff,"* F-22M-001

\$750, Medina County

Audience: Pre-school to University (Grades 1-12)

Contact: Abby Costilow, [acostilow@medinaco.org](mailto:acostilow@medinaco.org), 330-722-9318.

The project would provide 150 school students, non-profit employees, and members of the general public with educational tools to examine macroinvertebrates (using kick nets and d-nets) in streams and then tie the findings into backyard conservation practices to reduce nonpoint-source pollution, runoff, and nutrient loading. The intent of the project is to encourage healthier land use that also increases habitat. Supplies provided from this grant would be arranged with current supplies to form kits that schools and nonprofits could rent.

### *KIPP Columbus – KIPP Columbus High, "Monitoring KIPP Columbus Recovering Ecosystem on Campus,"*

F-22M-003

\$4,299, Franklin County

Audience: Pre-school to University (Grades Pre-K-12)

Contact: Andrea Townsend, [atownsend@kippcolumbus.org](mailto:atownsend@kippcolumbus.org), 614-743-5444.

The main goals of this project are to educate the campus community (approximately 2,000 students) about the importance of habitat restoration efforts to the recovering ecosystem on campus. These efforts are designed to

increase biodiversity and improve air and water quality. KIPP Columbus is also striving to encourage preschool through 12th grade students to explore careers in environmental science and engineering.

**Ohio Wetland Association, "Integrating Project WET, Wetlands & H2Ohio into 7th Grade Curriculum,"**

F-22M-011

\$945, Franklin County

Audience: Pre-school to University (Grade 7)

Contact: Laura Manns Arcuino, [laura.manns@outlook.com](mailto:laura.manns@outlook.com), 206-530-0102.

The eight week, cross-curriculum learning module will integrate a minimum of 14 Project WET units into the 7th grade curriculum at St. Brigid of Kildare School in Dublin, Ohio in spring 2022. This project is an effort to bring together existing resources and create a cohesive learning module and instruct students on both core content, as well as multiple water concerns being addressed in our state as part of H2Ohio, including a presentation on H2Ohio agricultural phosphorous reduction methods implemented at St. Charles Center and an Ohio Department of Natural Resources presentation on restoration, creation and enhancement of wetland ecosystems (which is the focus of their H2Ohio Program). The intent is that the created module can be utilized in additional schools. Topics covered include: the water cycle; ocean currents; surface and ground water; biomes, with a focus on wetlands (field trip Metro Park); changes in our water and a concluding project.

For more information, contact:

Office of Environmental Education

[oeef@epa.ohio.gov](mailto:oeef@epa.ohio.gov)

(614) 644-2873

## Water Quality Monitoring Credible Data Program: Level 1 Training

**Wednesday, May 18, 2022**

8:00 a.m. – 4:30 p.m.

### Butler Soil and Water Conservation District

1802 Princeton Road, Hamilton, Ohio 45011

This training will be hands-on with all participants getting in the water to learn techniques for biological, physical, and chemical water quality monitoring. This is an entry level training intended for participants who desire basic water quality information. Level 1 was designed with educators in mind, and may be appropriate for Soil & Water Conservation Districts, Park Districts, Health Departments, or anyone with an interest in Ohio water quality.

The purpose of Level 1 is primarily to promote public awareness and education about surface waters of the state. Approval of Level 1 QDC will be automatic by the Ohio EPA after completion of this training. Healthy Water, Healthy People Curriculum will be used in this training.

Workshop is limited to 20 participants. If Covid-19 restrictions are increased again, participants will be limited to 10. Social distancing and face masks will be required.

**Please bring:** Waders or shoes you don't mind getting wet, a brown bag lunch / drink, and wear old clothing.

**Cost:** Free. There are no fees associated with this training.

**For more information:** Contact Dennis Clement, Ohio Environmental Protection Agency, Office of Environmental Education at 614-644-2048 or [Dennis.Clement@epa.ohio.gov](mailto:Dennis.Clement@epa.ohio.gov)

**Registration:** By e-mail ONLY on or before May 13, 2022, at [Dennis.Clement@epa.ohio.gov](mailto:Dennis.Clement@epa.ohio.gov).





# Contact EECO

Partnerships strengthen EE in Ohio, leading to a more environmentally literate population and a healthier environment. You are welcome to become a partner and friend to EECO. Please contact any of our regional directors, officers, advisors, and board members to find out more about becoming a part of EECO.

<https://eeco.wildapricot.org/>

[www.facebook.com/EnvironmentalEducationCouncilofOhio/](http://www.facebook.com/EnvironmentalEducationCouncilofOhio/)

[twitter.com/directorEECO](https://twitter.com/directorEECO)

[www.linkedin.com/groups/8474490](https://www.linkedin.com/groups/8474490)

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