

2023 MAEP Annual Meeting

Michigan Association of Environmental Professionals

Weber's Inn- December 7, 2023



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Coyote Preserve
GOLF CLUB

Save the Date for
2024 Golf Outing

TUESDAY

JULY 9, 2023

**Coyote Preserve
Fenton, MI**



2023 Grant Committee

- ▶ Jennifer Lagerbohm
- ▶ Paul Glasser
- ▶ Kathleen Klein
- ▶ Laura Lambert
- ▶ Dave Lanzola
- ▶ Joshua Schuyler



Scoring Criteria and Selection

Our goal is to fully fund environmental education programs that support practical applications for solving environmental problems and/or the collection of data for analysis towards a better understand of environmental issues.

1. Hands-on environmental experiential education
2. Quality/uniqueness of the educational experience
3. Geography and populations in Michigan
4. Effort is made to fully-fund programs to ensure viability of the program



Received a total of **62** applications

Requesting a total of **\$582,263.46**

Initial review created a short list of 33 Grants requesting \$48,940.17

The Grant Committee reviewed and scored the applications and voted to award **15** Grants for a total of **\$18,772.70**



Summary of Grants Awarded

Grant Name	Grant Name	Grant Award
Michigan Alliance for Environmental and Outdoor Education	MAEOE Annual Conference	\$1,000.00
Friends of the Rouge	Rouge Frog and Toad Survey	\$2,000.00
MTU Center for Science and Environmental Outreach	Western Upper Peninsula Air Pollution Sensor Network	\$1,000.00
Warren Woods Public Schools/Enterprise HS	Student driven research creates buzz in the D!	\$1,399.00
Tip of the Mitt Watershed Council	Freshwater Center Update	\$1,330.00
River Raisin Watershed Council	Enviroscape for Watershed Education	\$700.00
Morley Stanwood Middle School	"The Aquaponic Classroom: Cultivating Knowledge and Sustainability through Aquaponics"	\$1,500.00
Bowers School Farm	Bowers School Farm Composting Lab	\$1,216.81
Charles Drew Transition Center	Hydroponics, Michigan's Water Quality and Crop failure: Solving the Problem	\$948.39
Stage Nature Center/ Troy Nature Society	Stream Study Program Equipment	\$1,500.00
Michigan Alliance for Environmental and Outdoor Education (MAEOE)	Teachers' Toolkit for Tackling Climate Education – Training Workshops	\$1,790.00
Amanda Moore Elementary Green Team	Bat Houses & Bat Awareness!	\$700.00
Center Line High School	Yearly Environmental Projects (YEP)	\$1,650.00
Eisenhower High School	Is the Clinton River as "dirty" as our grandparents think?	\$1,439.50
AIPG	Student Scholarship	\$600.00
	Total Grant Funds	\$18,772.70



MAEOE Annual Conference



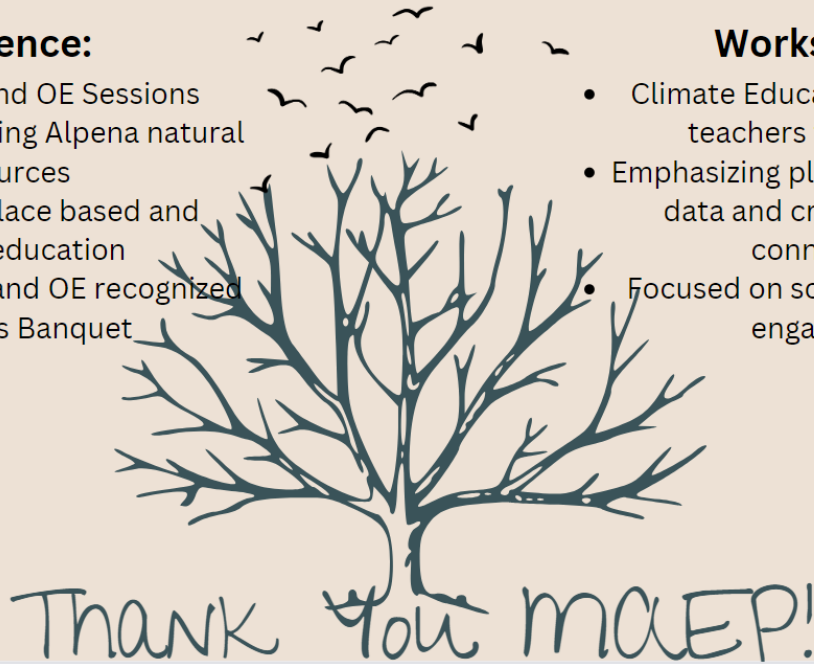
Empowering Educators to Create a More Sustainable Future

Conference:

- Engaging EE and OE Sessions
- Field Trips exploring Alpena natural resources
- Emphasized place based and climate education
- Excellence in EE and OE recognized at Awards Banquet

Workshops:

- Climate Education training for teachers this summer
- Emphasizing place based climate data and cross-curricular connections
- Focused on solutions and civic engagement



Dropbox

MAEP donated a **\$1,000** sponsorship to the 2023 MAEOE Conference in Alpena.



Friends of the Rouge: Rouge Frog and Toad Survey



MAEP donated \$2,000 to assist with Frog and Toad Survey outreach.



- ▶ The workshops will target anyone interested in learning about frogs and toads, wetlands, and those interested in volunteering. It will also include veteran surveyors desiring to survey again.
- ▶ In addition, the following are desired outcomes of the project: 100 people attending each of the two workshops, 200 people signing up for the survey and collecting data which includes 100 veteran surveyors, and between 150-200 blocks with full data received.
- ▶ Data collected is logged into an app



MTU Center for Science and Environmental Outreach: Western Upper Peninsula Air Pollution Sensor Network

- ▶ MAEP funded **\$1,000** to purchase three PurpleAir Flex Air Quality Monitors
- ▶ The purpose of this project is to purchase and install a network of outdoor air quality sensors across the western Upper Peninsula of Michigan (W-UP) that will be used, in conjunction with pre-existing air quality sensors, by regional school science classes to evaluate air quality data.
- ▶ These monitors will also be linked to a global network of air quality sensors and monitoring stations. The data submitted to that network will benefit efforts at improving air quality models and allow for global comparison of information by scientists studying air quality and pollution issues.



Michigan Tech



Warren Woods Public Schools/Enterprise HS:

Student-Driven Research Creates Buzzin the D!

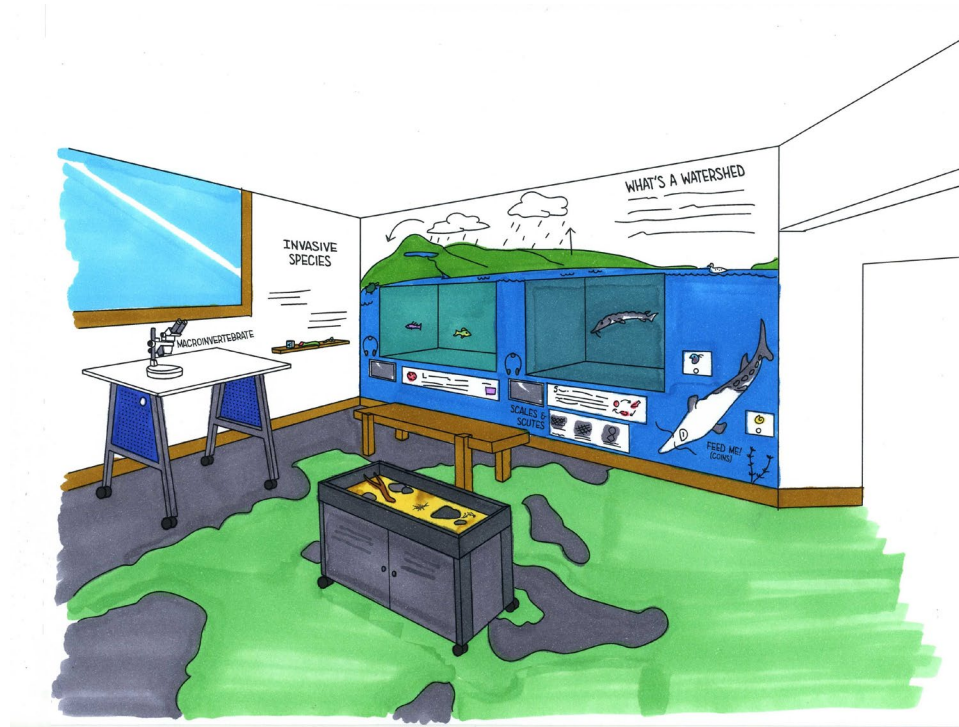
- ▶ We have several community partners with a variety of hive styles off-site that provide unique research opportunities including Warre and Langstroth hives. Our largest community partner is the non-profit organization **“Bees in the D”** that manages 225 hives in Detroit and the surrounding area.
- ▶ The founder has offered the opportunity for our students to manage a hive located on the Stellantis Engine Plant in Sterling Heights. Students would have access to the hive remotely but also have opportunities to visit the hive on-site for additional observation and instruction opportunities.
- ▶ **\$1,399** donated for remote sensing for up to 4 hives





Tip of the Mitt Watershed Council: Freshwater Center Update

- ▶ We are undergoing updates to our Freshwater Center (front lobby) located in downtown Petoskey. We are incorporating many different educational displays that include fish tanks and other models.
- ▶ MAEP donated \$1,330 for two tablet stations where we can host relevant information to the native fish display such as videos, interactive games or demonstrations.





River Raisin Watershed Council

- ▶ To continue watershed education with the added benefit of being able to physically display how a watershed work and interact with children on a deeper level, expanding their understanding of our work and the importance of watershed health.
- ▶ MAEP donated **\$700** to partially fund an enviroscape



Bowers School Farm Composting Lab

- ▶ MAEP donated \$1,216.81 for composting supplies
- ▶ “Our goal is to provide hands-on composting education”
- ▶ We will utilize food scraps, wood chips, fall leaves, and garden trimmings as feedstocks to enhance learners’ understanding of hot composting and the value of decentralized composting in Michigan.





Charles Drew Transition Center Detroit Public Schools

Hydroponics, Michigan's Water Quality and
Crop failure: Solving the Problem

"It is the mission of the Drew Horticulture Program and The Gardens at Drew for all students to have access to materials and programs to learn, develop and participate in obtaining the skills of Horticulture through the planting, management, consumption and sales of vegetables and flowers."





- ▶ “In order to rectify the issue of water quality affecting the growth of our food products, Bosch engineers suggested that the use of a water filtration system consisting of both carbon and sediment filtration, be instituted. They suggested the Hydrologic Big Boy System, as well as two sets of replacement filters. This system is easy to install and should have an instant improvement in the performance of our food products”



- ▶ MAEP donated **\$948.39** for water filtration supplies

Stage Nature Center/ Troy Nature Society: Stream Study Program Equipment

- ▶ “This project will give students a hands-on opportunity to see what lives below the surface of the water and under the rocks of the Rouge River.”
- ▶ MAEP donated \$1,500 for four compound microscopes and supplies.





MAEOE: Teachers' Toolkit for Tackling Climate Education - Training Workshops

- ▶ “We are developing a series of professional climate education workshops for 6th-12th grade teachers that would provide background knowledge about climate science and the social implications of climate change, teaching activities, curriculum resources and ideas for how to integrate them across subject areas and disciplines. The workshops would also include guidance on how to engage youth in the implementation of climate education and how it can be communicated to wider audiences to acquire community support.”
- ▶ MAEP donated **\$1,790.00** to fund materials for two of these all-day workshops.



Amanda Moore Elementary Green Team: Bat Houses & Bat Awareness!



- ▶ Romeo Public Schools Elementary School
- ▶ “The mission of our school Green Club is to inspire, educate, and empower our school community to take positive and sustainable actions that promote environmental stewardship, conservation, and awareness.”
- ▶ MAEP donated \$700.00 for materials to construct 50 bat houses for the community and school property.



Center Line High School: Yearly Environmental Projects (YEP)

- ▶ "What can we fix or improve here at Center Line High School to be more sustainable?" Students are given their own agency to choose something that they want to see changed and then are tasked with fixing the selected problem.
- ▶ Selected a pond in the courtyard
- ▶ MAEP donated **\$1,650.00** for pond pump, plants, rainwater collection, soil/ mulch for flowerbeds, and compost bin.



AIPG Student Scholarship

MAEP donated \$600 for three students to attend the AIPG workshop in
Roscommon, MI.

Morley Stanwood Middle School

The Aquaponic Classroom

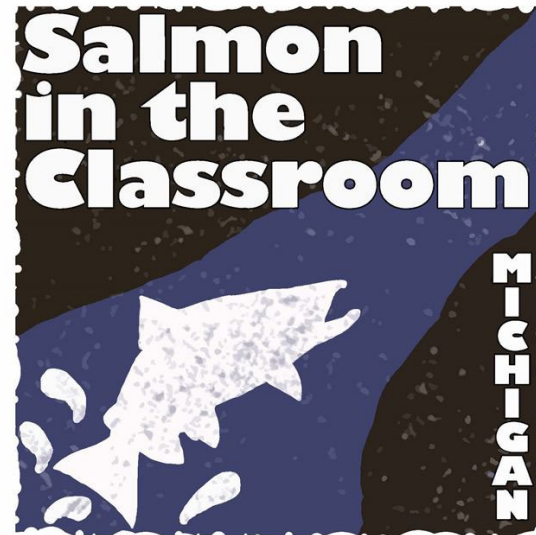
- ▶ Introducing two aquaponics sets in an 8th grade classroom for students to engage and interact while learning biology, ecology, sustainability, and agricultural science.
- ▶ MAEP donated **\$1,500.00** to purchase an aquaSprouts aquarium bundle, fish tank, pH monitoring equipment, fish, and edible garden plants.





Eisenhower High School Is the Clinton River as “dirty” as our grandparents think?

- ▶ We will be hosting both salmon eggs and a juvenile sturgeon in our classroom. We will discuss the efforts the DNR has made to create a sustainable ecosystem for both of these species. We will learn about the hatching and rearing process as well as the importance of water quality and sustainability.
- ▶ MAEP donated **\$1,439.50** to cover transportation and water testing equipment for a live release of the salmon in the Spring.



The Salmon in the Classroom program is run by
the Michigan Department of Natural Resources





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