

2013 MAEP Grant Awards



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MAEP GRANT COMMITTEE

David Lanzola

TestAmerica

Kenneth McRowe

AMEC Environment & Infrastructure

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Schoolcraft College

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Waste Management



2013 MAEP Grant Awards

MAEP received 21 requests in excess of \$42,000 – 8 were selected for \$15,000 in grant money raised by MAEP...

Evaluations took into consideration:

1. Hands-on environmental education
 2. Number of individuals reached
 3. Quality of the educational experience
 4. Geography and populations
(greatest impact and the 4 corners)
 5. Effort is made to fully fund programs
to ensure viability of the program
- 

How do we make our determinations ???

It's not easy! ☹️ ...but...

- 1) Several applications were for health and nutrition education verses environmental education
- 2) Others were non-specific in their requests to fund field trips – MAEP looks for specifics...
- 3) Others were funding requests for post graduate research projects
- 4) Some were material requests – not necessarily hands on related activities

**And the 2013 MAEP grants
were awarded to...**



2013 MAEP Grant Awards

Clinton River Watershed Council	\$ 2,308.00	\$ 2,112.00
Clippert Academy Magnet School	\$ 1,750.00	\$ 1,554.00
Friends of the Rouge	\$ 2,320.00	\$ 2,124.00
Friends of Thunder Bay	\$ 2,500.00	\$ 2,304.00
Hawk Woods Nature Center	\$ 2,178.00	\$ 1,982.00
Huron River Watershed Council	\$ 2,500.00	\$ 2,304.00
Internat'l Wildlife Refuge Alliance	\$ 1,000.00	\$ 804.00
New Buffalo Area Schools	\$ 1,012.00	\$ 816.00
TOTAL	\$ 15,568.00	\$ 14,000.00

A shortfall of \$196 to each applicant allowed us to fund 2 more programs while encouraging self-investment in the program

**PLUS \$1,000 for MAEOE / MESTA
Conference Sponsorship**

CLINTON RIVER WATERSHED

\$2,112.00

Protecting, enhancing and celebrating the Clinton River, its watershed and Lake St. Clair.



Home About Us Our Watershed **What We Do** Events Recreation News & Resources Blog Members & Supporters Get Involved

Clinton River Watershed Council » Programs » Stream Leaders

Stream Leaders

Classroom Water Quality Monitoring Program For Students

Stream Leaders gives students an in-depth understanding of their natural world and how it affects them, while promoting interdisciplinary learning.

Students learn skills that are useful and relevant outside of school, and are encouraged to become informed, responsible citizens and life-long learners.

The Stream Leaders program is intended to provide students with an educational experience in water quality monitoring, data interpretation, and citizen action, as well as provide general information to local officials concerning water quality.

First, students and teachers get in the river and examine the chemical constituents of the river, inventory physical stream-side conditions and land uses that may affect water quality, and sample the aquatic biological communities to evaluate the health of the river.



WAYS TO HELP

- Join Now
- Donate
- Become A Sponsor
- Volunteer Opportunities
- Prevent Stormwater Pollution

Join CRWC Today!

Membership Level

Student/Senior \$15.00 USD


Join Now

Secure Payments     

Coordinate Two Annual Water Quality Monitoring Events – aligning the efforts of over 40 schools representing approximately 4,000+ students. These monitoring events are held in May and October.

CRWC Stream Leaders

water quality monitoring program for students

- ▶ Connects classroom science with the real world
 - ▶ 24 years running
 - ▶ Over 100,000 students graduated
 - ▶ 86 schools participated
 - ▶ Hundreds of teachers principals parents and corporate mentors
- 

MAEP grant will be used to continue to recruit and train new teachers – which gets more students involved...



Clippert Academy

1981 McKinstry

Detroit, MI 48209



\$1,554.00

Carmen Murray
Memorial Pollinator Garden



Clippert Academy

Clippert Academy is engaged in a conservation effort to provide habitat for the monarch butterfly and other pollinators and wildlife in Southwest Detroit.

Students have been exploring ways in which they can help the environment. They will work to acquire a compost bin, rain barrels, and bird houses to aid in that effort.


Tracy Ortiz – is a dedicated environmental educator.

Over the years she has provided her students with a variety of outdoor experiences:

Urban Forest Stewardship Project – a project in which students restored and transformed an abandoned road in nearby park woodland to an interpretive trail. Students completed an inventory of species along the trail, cleared away brush creating an accessible trail surface and created interpretive signs that will be used by the visiting public.

Rouge Education Project – this project works with schools to engage students in the stewardship of the Rouge River which is the watershed in which our school is located. Students gathered water, sediment and aquatic samples from the Rouge River to measure water quality using scientific assessments.

“These hands–on experiences open up a new world of awareness and scientific inquiry into the health of our local environment. I will use the school garden/outdoor classroom as a living laboratory. “



Clippert Academy Pollinator Garden 6.14.13

By Romulus PMN - General Motors Powertrain • Updated about 5 months ago



This grant will be used to purchase additional seating, signage, and supplies needed for the hands on activity of rearing monarch butterflies and maintaining the outdoor classroom.

Programs

- Rouge Rescue
- Rouge Education Project (REP)
- River Restoration Program
- Benthic Macroinvertebrate Sampling
- Frog and Toad Survey

MAEP Grant will be used for the River Restoration Program:

An educational program that offers workshops and hands on opportunities for residents to learn how to take care of the land along the river.

Grow Zone Maintenance Project \$2,124

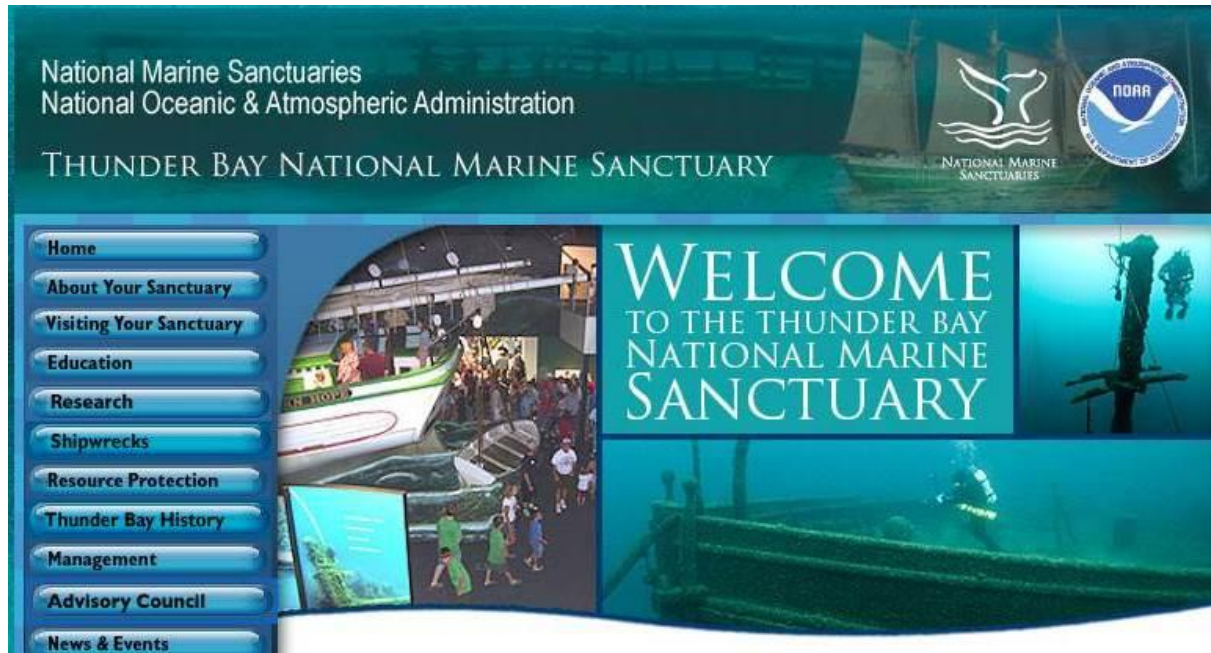
This project involves community partnerships in an effort to maintain an existing and established “grow zone” in the Rouge River Watershed.

The project provides community education and hands on activity around the importance of:

- Reducing stream bank erosion
- Maintaining already installed grow zones
- Filtering pollution from storm water run-off
- Increased infiltration
- Improving wildlife habitat
- Promoting native plants
- Improving overall water quality



Friends of Thunder Bay - \$2,304.00



<http://www.youtube.com/watch?v=97QmgINlmwU>

Thunder Bay National Marine Sanctuary

Watershed Learning Cruise on Lake Huron





\$1,982.00

Hawk Woods Nature Center
Auburn Hills, MI

Camping & educational
experiences for urban &
suburban youth.





Cabins at Hawk Woods Built by Oakland Tech School in Clarkston

Michael Mansour –
Founder &
Naturalist Educator



Funding will provide outdoor
educational experiences for
Pontiac School Students.

Hawk Woods Field Trip

Seasons

Winter– W

Spring– SP

Fall– F

Project Learning Tree–W, SP, F– Is an award-winning environmental education program designed for teachers and other educators, parents, and community leaders working with youth from preschool through grade 12.

Flying WILD–SP, F– is based on the premise that young people and educators have a vital interest in learning about our natural world.

Reptiles & Amphibians–SP– is a special program in which we'll be interacting with live snakes, frogs, and other organisms. Students will be allowed to hold turtles and snakes during this program.

Project WET–SP, F– Students will experience hands-on learning activities related to water.

Animal Tracks–W– We will be making plaster of Paris animal tracks of Michigan mammals. Each student will make a track to later paint and do a research guided report.

Geocaching–W, SP, F– Hawk Woods has a number of "treasures" hidden for Geocache discovery. We will be hosting a Spring Geocache workshop.

Over Night Camping– The lodge and newly built cabins are available for classrooms to rent out over night! Come cozy up around a fire and get a real feel and appreciation for the outdoors!

Hawk Woods comes to your Classroom!

Let us bring nature to you!
Hawk Woods Nature Center is eager to visit your classroom & provide a variety of hands-on activities to your students to expand their knowledge of the outdoors & appreciation of our Michigan wildlife!

- **Animal Tracks**–Make Plaster of Paris animal tracks with a follow up research project to be done at home.



- **Mammal Bones and Furs**–Touch, feel and compare furs and skulls of Michigan mammals.



- **Reptiles and Amphibians**–Observe live reptiles and amphibians and learn all about them.



- **Michigan's Wintering Birds**–Play the Great Migration Challenge Game and learn about bird migration.



What you need to know...

- All programs correlate with the Michigan Educational Standards
- Classrooms will hike the trails of Hawk Woods and utilize outdoor learning stations
- Fill out registration form and return to The City of Auburn Hills Community Center
- Please make payment prior to program date
- Please reserve your spot 2 weeks in advance
- # Adult to child ratio= 1:10
- There is a 2 classroom limit per visit
- Cancellation Policy– In case of inclement weather or other emergencies, it is up to the school to reschedule
- Must bring a copy of your classroom Roster to the program for safety reasons
- Please bring your own sack lunch
- Parent volunteers are encouraged
- If it's possible, please have the teacher visit Hawk Woods prior to the fieldtrip to become familiar with the center and receive the formal schedule for a field trip



For the past 5 years, HRWC has worked with an average of 500 students, 100 parent chaperones, 10 teachers, and 50 volunteers per year. Through program expansion, HRWC hopes to triple the participation over the next two years.

Place-based, hands-on education has been shown to be a very effective method of teaching and learning.



International Wildlife Refuge Alliance

\$804.00



Established in 2006, the International Wildlife Refuge Alliance is the "Friends" group for the Detroit River International Wildlife Refuge (DRIWR).

As a nonprofit organization, we provide:

- community outreach & education programs
- habitat restoration
- volunteer staff & special events support
- advocacy and fundraising




The State of the Strait Conference

The conference typically attracts approximately 300 people, including 75–100 high school students.

It is a one-day conference held every two years that brings together government managers, researchers, students, environmental and conservation organizations, and concerned citizens from the United States and Canada to assess ecosystem status and provide advice to improve research, monitoring and management.

Funding provides transportation and covers costs of reports provided to students who attend the conference.

Goals of the State of the Strait conference are:

- To involve high school students in a professional environmental conference in the bioregion where they live
 - To inspire them to enter the field by engaging them in a professional environmental conference experience on a university campus
 - To raise awareness of the health of the Detroit River and western Lake Erie
 - To encourage interaction, during the conference lunch, between U.S. (Southgate Anderson High School, Summit Academy, Detroit high schools) and **Canadian** (Windsor and Essex County) **high schools** on environmental issues common to both sides
 - To encourage students to become more involved in environmental science and restoration activities in their schools and communities...and to teach others.
- 



Promoting environmental literacy through education.



MAEP Sponsorship

MAEOE/ MESTA 2013 Annual Conference




**Whole Earth:
Educating a Global Community**

Michigan Earth Science Teachers Association
&
Michigan Alliance for Environmental and Outdoor Education

**Collaborative Conference
October 4-6, 2013
Belle Isle**

**Michigan Alliance for Environmental & Outdoor Education
and the
Michigan Earth Science Teachers Association**

Fall Collaborative Conference ~ October 4-6, 2013
Theme: *Whole Earth: Educating a global community*

Program
A wide variety of half- and full-day educator workshops and field trips will be held Friday, October 4. Choose from over 40 concurrent sessions (indoors and outdoors) on Saturday, October 5. Delve into a variety of monitoring programs that your students can participate in, from history and geology to global change, birds, lakes, stream monitoring, and much more. Saturday will also feature the 6th annual Share-A-Thon with ready-to-go outdoor and classroom activities. Round out the conference with the Family Fun Day on Belle Isle!

Location
Belle Isle is the jewel of Detroit. Located in the Detroit River overlooking Windsor, Ontario. This unique location will be sure to impress our members. See inside historic Belle Isle landmarks and take advantage of all the island has to offer.

Driving directions:
Follow I-96 E towards Detroit. Take the exit for I-75 N/Flint/Michigan 10. Follow signs for Michigan 10 S. Continue onto I-375/E. Jefferson Ave and follow Jefferson Ave. Follow E. Grand Blvd. onto Belle Isle. Veer to the right at the first split. Turn right on Casino Way and park in the big lot. Check-in will be at the Casino. To get back off the island, turn right off of Casino Way and then immediately turn left on Picnic Way. Turn left onto the main road and follow it off the island.

For More Information:
Mike Reed, Conference Co-Chair, mreed@maeo.org
Dave Chapman, Conference Program Co-Chair, chapmand@comcast.net
Mandy Stewart, Conference Program Co-Chair, stewart@tatemedia.com
MAEOE Admin and Registrar, Kelley Sumner, info@maeo.org



Teachers Helping Teachers since 1967!



New Buffalo Area Schools
Home of the Bison

...Creating a Culture of Learning and Respect



The Heart of
Harbor Country
in Southwest
Michigan

Mr. Richard Eberly – Applicant

\$816.00

Michigan Science Teachers Association

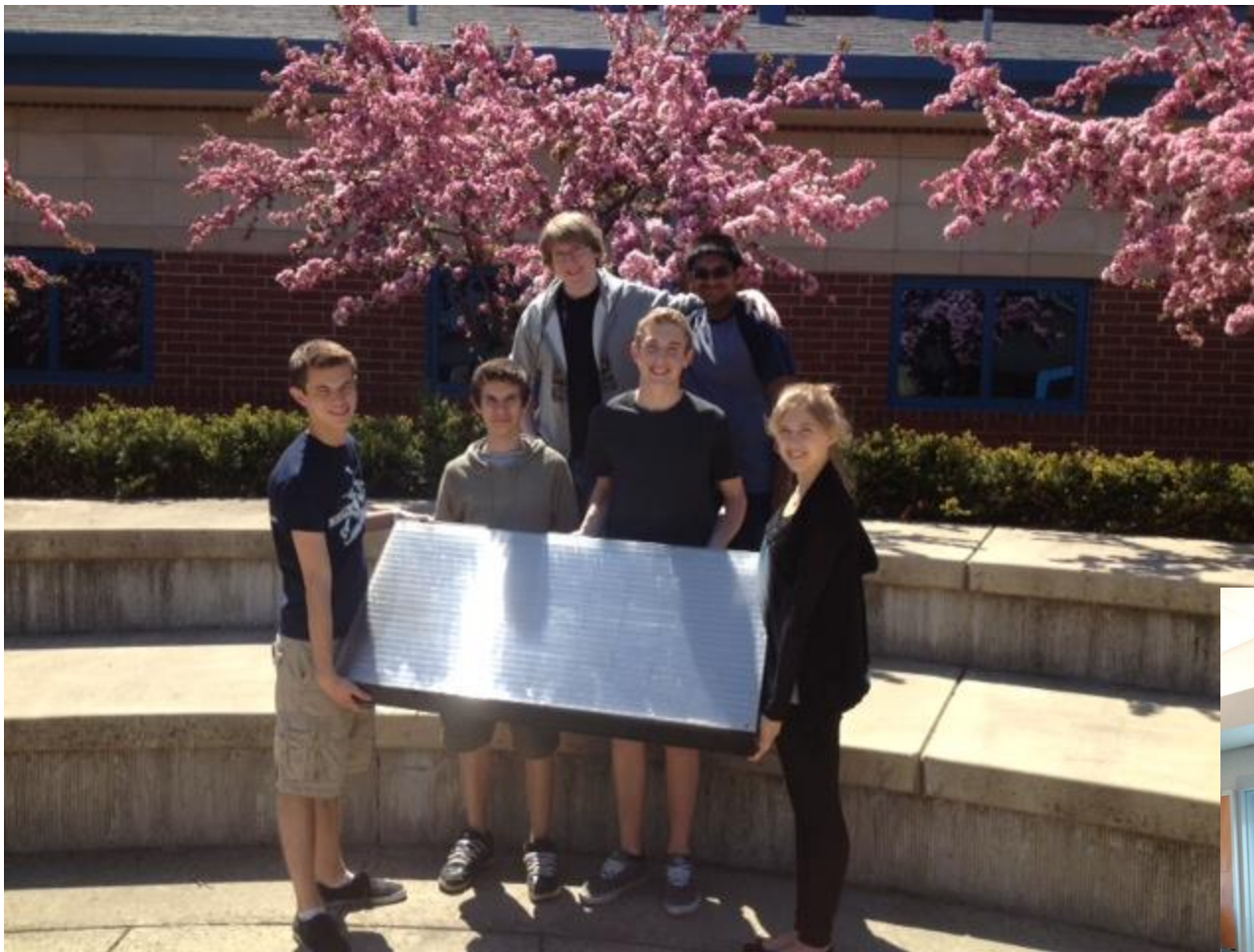
2014 High School Science Teacher of the Year

Selected for using or modeling best practices, inspiring students, demonstrating innovative teaching strategies, being an excellent role model for students and other teachers, demonstrating leadership and exhibiting a passion for science and for teaching.

Cutting Costs with Solar Energy



Design & Construction
of Solar Heat Collectors



New Buffalo Students with prototype of a
Solar can heat collector

Solar heat collector



To date, students have built and installed about a dozen heat collectors and trained at least 100 individuals how to build and install their own.

Desired Outcomes:

- 1) Educate more of the public on the savings and advantages of pop can solar heat collectors
- 2) Train the public how to build their own by producing a video of the construction and installation process to our website and Youtube
- 3) Install collectors on the local township fire department to display the technology on a high profile building.

**“Can” cut heating
expense by 50%**



CONGRATULATIONS

2013 MAEP Grant Winners

Clinton River Watershed Council

Clippert Academy Magnet School

Friends of the Rouge

Friends of Thunder Bay

Hawk Woods Nature Center

Huron River Watershed Council

Internat'l Wildlife Refuge Alliance

MAEOE / MESTA

New Buffalo Area Schools

Go forth and educate!