2013 MAEP Grant Awards
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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

<table>
<thead>
<tr>
<th>Organization</th>
<th>Amount 1</th>
<th>Amount 2</th>
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</thead>
<tbody>
<tr>
<td>Clinton River Watershed Council</td>
<td>$2,308.00</td>
<td>$2,112.00</td>
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<tr>
<td>Clippert Academy Magnet School</td>
<td>$1,750.00</td>
<td>$1,554.00</td>
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<tr>
<td>Friends of the Rouge</td>
<td>$2,320.00</td>
<td>$2,124.00</td>
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<tr>
<td>Friends of Thunder Bay</td>
<td>$2,500.00</td>
<td>$2,304.00</td>
</tr>
<tr>
<td>Hawk Woods Nature Center</td>
<td>$2,178.00</td>
<td>$1,982.00</td>
</tr>
<tr>
<td>Huron River Watershed Council</td>
<td>$2,500.00</td>
<td>$2,304.00</td>
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<tr>
<td>Internat'l Wildlife Refuge Alliance</td>
<td>$1,000.00</td>
<td>$804.00</td>
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<tr>
<td>New Buffalo Area Schools</td>
<td>$1,012.00</td>
<td>$816.00</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td><strong>$15,568.00</strong></td>
<td><strong>$14,000.00</strong></td>
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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
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 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. “
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=97QmglNlmwU
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.
Funding will provide outdoor educational experiences for Pontiac School Students.

Cabins at Hawk Woods
Built by Oakland Tech School in Clarkston

Michael Mansour – Founder & Naturalist Educator
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.
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 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.
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 Earth Science Teachers Association
and the
Michigan Alliance for Environmental & Outdoor Education

Fall Collaborative Conference ~ October 4-6, 2013
Theme: Whole Earth: Educating a Global Community

Program
A 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. Immerse into a variety of monitoring programs that your students can participate in, from history and geology to global change, soil, sea, stream monitoring, and much more. Saturday will also feature the annual Theme-O-Rama 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 Detroit Belle Isle landmarks and take advantage of all the island has to offer.

Driving Directions:
Follow I-75 to Edwards Detroit. Take the exit for 177 N/Exit 7 (Michigan Ave). Follow signs for Michigan Ave. Take the exit onto 177 N/Exit 7 (Jefferson Ave and follow Jefferson Ave. Follow the Grand Blvd. onto Belle Is. Use the right lane at the first fork. Turn right on Casino Way and park in the 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 Penn's Way. Turn left onto the main road and follow it off the island.

For More Information:
Mike Scott, Conference Co-Chair, mst@msn.com
Dave Chapman, Conference Program Co-Chair, dchapman@comcast.net
Mandy Stoyan, Conference Program Co-Chair, mstoyan@comcast.net
MAEOE Administrator, Kendra Summan, info@maeoemichigan.com

Teachers Helping Teachers since 1967!
Mr. Richard Eberly – Applicant

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.
Design & Construction of Solar Heat Collectors

Cutting Costs with Solar Energy
New Buffalo Students with prototype of a Solar can heat collector

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

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Go forth and educate!