

## 2012 Mid-Michigan Science and Energy Camps Schedule

www.greatlakesenergyservice.org

Cost	(per session)	\$225	\$225	\$325
Week	Topic	9:00-Noon	1:00-4:00	10:00-3:00
1	Basic Energy Resources and Energy Efficiency			
2	Kid Wind			
3	SunWise			
4	Water Conservation			
5	Solar Energy			
6	Ecosystems and Biodiversity			
7	Project Wild			
8	Engineering			
	<b>Total Due</b>			
<b>Day</b>	M, T, W, TH, F			

- Camps are designed for ages 10-15, except for SunWise (Week 3) ages 6-10, all sessions limited to 20 students at a time
- Camp sponsor provides camp location
- Students attend Camp once per week, you choose day of the week and time
- \$15.00 activity fee per student/per session applies. Payment due with final paper work (June 1, 2012) \*\*\*See special fee offer on Page 4.
- 50 percent deposit for camp(s) required at application
- All camps are on a first come, first serve basis

### **Week 1**      *Basic Energy Resources and Energy Efficiency* (June 11-15, 2012)

Students will experience the phenomenon of their energy being transformed into electrical, radiant, thermal and sound energy. By tracing the flow of energy required to power the Energy Bike, learners comprehend that most forms of energy on earth can be traced back to the sun. Students will learn about other forms of renewable energy and how to become more energy efficient. Activities include "What is a watt?" and "How much power do you use?"

### **Week 2**      *Kid Wind* (June 18-22, 2012)

Students will learn how wind generates electrical energy and will build electricity producing wind turbines on a miniature scale. Blade design and engineering is one of the most complicated and important aspects of current wind turbine technology, so students will compete to design turbine blades that extract as much energy from the wind as possible while also considering factors such as durability, noise factor, and cost.

**Week 3**      *SunWise* (June 25-29, 2012) for Ages 6-10 years only

The SunWise Program is an environmental and health education program that aims to teach children **grades K-5** and their caregivers how to protect themselves from overexposure to the sun. The time commitment necessary to implement SunWise is minimal, while the potential payoff in lower skin cancer rates - and other health benefits in the future - is high. There will be fun activities provided.

**Week 4**      *Water Conservation* (July 9-13, 2012)

Water resource management is crucial for providing communities with social and economic stability in a healthy and sustainable environment. Students will participate in clean water science and water conservation activities in place based watershed studies that include the topics of water flow, pollution, invasive species and sediment control, water quality testing methods, rain barrels, and conservation of our water resources.

**Week 5**      *Solar Energy* (July 23-27, 2012)

Students will develop an understanding of the relationship between the angle of the sun and the energy available in sunlight. Students will experiment with solar panels and develop an understanding on how they produce electricity. Students will be involved in building a functional model solar car or build a solar oven to cook a snack.

**Week 6**      *Ecosystems and Biodiversity* (July 30-August 3, 2012)

Students will learn about Michigan Ecosystems with a focus on biodiversity. Activity topics will include types of Michigan ecosystems over time, life within the ecosystems, problems and protections for biodiversity of species and action planning for individual impacts to protect Michigan species.

**Week 7**      *Project Wild* (August 6-10, 2012)

Project Wild is one of the most widely-used conservation and environmental education programs in the nation. This program is based on the premise that young people have a vital interest in learning about our natural world. Students will learn and have activities that teach them *how* to think, not *what* to think about wildlife and the environment. Students will learn about the ecological, social and political factors contributing to sustainable fish and wildlife resources.

**Week 8**      *Engineering* (August 13-17, 2012)

Students will build and launch a pop bottle rocket as they employ some basic engineering principles. They will be able to describe the energy conversions that are happening and Newton's laws that describe the motion of the rocket, as well as change the parameters of the project to build and fly a successful rocket. Engineering students from local college and universities may also be on hand.

For more information call Chris at (517) 669-5389 or email at [cdunkel@greatlakesenergyservice.org](mailto:cdunkel@greatlakesenergyservice.org)

# Camp Registration

- Step one Choose your topic (you may choose up to eight topics)
- Step two Choose your day (Monday – Friday)
- Step three Choose your time (students attending 10 am-3 pm will need to bring a bag lunch)
- Step four Complete form
- Step five Mail form and deposit to: GLES, P.O. Box 79, DeWitt, MI 48820

Company Name \_\_\_\_\_

Contact Person \_\_\_\_\_ Phone # \_\_\_\_\_

Mailing Address \_\_\_\_\_

City, Zip \_\_\_\_\_

Email Address \_\_\_\_\_

Cost	(per session)	\$225	\$225	\$325
Week	Topic	9:00-Noon	1:00-4:00	10:00-3:00
1	Basic Energy Resources and Energy Efficiency			
2	Kid Wind			
3	SunWise			
4	Water Conservation			
5	Solar Energy			
6	Ecosystems and Biodiversity			
7	Project Wild			
8	Engineering			
	<b>Total Due</b>			
	50% Deposit			

**Week(s)**      1      2      3      4      5      6      7      8

**Day**            Monday      Tuesday      Wednesday      Thursday      Friday

**Time**            9:00 – Noon      1:00 – 4:00      10:00 – 3:00

Anticipated number of students (limit of 20) \_\_\_\_\_

Location of Camp \_\_\_\_\_

\_\_\_\_\_

## Cancelation or Changes

Deposit Refund	Date of booking until April 30, 2012 Full Refund May 1 – 15, 2012 All but \$200 After May 16, 2012 No refund
Activity Fees (due June 1, 2012)	June 1, 2012 No Refund

## Camp Meeting Location Requirements

An outside location is the best, with access to tables and roofing. Camps will go on whether rain, gusty winds or perfect sunshine, so please plan for a safe environment for children to attend when selecting a location to host your camp. A thunderstorm would require an indoor haven.

## Special Pricing for Organizations and Groups

**Pick Eight** – Select all eight weeks and pay for only seven \$1,575/\$2,275

\*\*\*For every one adult chaperone assisting five students, you will earn one free activity fee of \$15. Limit of 4 activity fee refunds per session; refunded by check after camp session is completed.



For more information call Chris at (517) 669-5389 or email at [cdunkel@greatlakesenergyservice.org](mailto:cdunkel@greatlakesenergyservice.org)