



# KOPERNIK OBSERVATORY & SCIENCE CENTER

698 UNDERWOOD ROAD, VESTAL, NEW YORK 13850  
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**Spring Pegasus  
2014  
Grades 1-8**



*Pegasus classes are part of the Kopernik Talent Search program for students in grades 1-12. Pegasus classes encourage students to work and think like scientists as they explore the world around them. These classes emphasize the importance of creativity, teamwork, and independent learning, and teach students to draw on Science, Technology, Engineering, and Math (STEM) resources to solve problems in the real world.*

## **Rocks Tell a Story** Grades 1-3

Sat., March 8 1-4 p.m.

Member \$38 / Non-Member \$45



Young scientists get the chance to be geologists for the day! With goggles and rock hammers, students will discover the ancient past as they look inside rock formations! They will identify, compare, and analyze rocks and minerals from KOSC's collection. They may even find ancient fossils inside rocks right under their feet.

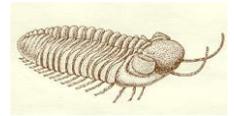


## **Fossils: Exploring Earth's History** Grades 3-4

Sat., March 29 9 a.m.-12 p.m.

Member \$38 / Non-Member \$45

Did you know that fossil evidence suggests that 350 million years ago Binghamton was in a warm salty sea? Students in this exciting class will explore that fossil evidence as they crack open rocks, taking a trip back in time to an age when giant bugs called Trilobites swam in the waters covering the earth. They will use modeling clay to make a mold and create their own fossils from plaster.



## **Electrical Energy: ZAP!** Grades 5-6

Sat., April 26 1-4 p.m.

Member \$38 / Non-Member \$45

Experience the power of electromagnetism up close and personal! In this course, students will use a Van De Graaf generator and a Jacob's ladder to transmit electric energy from one object to another. They will generate electricity from a magnet, follow the current through circuits, and then apply what they learned by creating snap circuits that run machines.

## **3D Image Processing** Grades 6-8

Sat., May 10 10 a.m.-3 p.m.

Member \$45 / Non-Member \$55

Three dimensional (3D) images are used to make movies more realistic, but also are used in scientific research, as in the Mars Exploration Rover mission. How are we able to see 3D images on a photo or video screen? Students will learn about techniques used to make these images and will create their own 3D images (called anaglyphs) using the traditional red/blue method. Students then will convert the anaglyph to a full color polarized light version, and display them KOSC's Geowall projector, which uses technology similar to that in movie theaters. Students will take 3D anaglyph pictures home, along with red/blue viewing glasses, to show family and friends.



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*Watch for: Girl Power April 15-17, grades 3-6*

## Spring Pegasus Registration Form

Please check the session(s) you plan to attend:  Rocks  Fossils  Electricity  3D images

Student name: \_\_\_\_\_ Grade (2013/14) \_\_\_\_\_

Parent/Guardian/Grandparent name: \_\_\_\_\_ Student Birthdate \_\_\_\_\_

Address: \_\_\_\_\_ City/St/ZIP \_\_\_\_\_

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

Enclosed is: \$ \_\_\_\_\_ (checks payable to "Kopernik Observatory") KOSC Member  Yes  No ( add \$60 to join)

Credit Card # \_\_\_\_\_  Visa  MasterCard  Discover

Name on Credit Card \_\_\_\_\_ Expiration Date: \_\_\_\_\_ CVV code (3 digit code) \_\_\_\_\_

Minimum enrollment: 10 (in case of cancellation, participants will be notified in advance).

Registration form & payment must be received three days prior to class.

Partial scholarships are available for families who need financial assistance. Call to inquire.

For more information: Contact (607) 748-3685 x 308 or visit our website at [www.kopernik.org](http://www.kopernik.org)

Refunds available (less a \$5 administration fee) if student withdraws 7 days prior to the start of the class.

**Return to: Spring Pegasus, KOSC, 698 Underwood Road, Vestal, NY 13850**

Date Received \_\_\_\_\_

DB \_\_\_\_\_

QB \_\_\_\_\_