

# 4-H SCIENCE DAYS

Providing youth with opportunities.



Tel: 315.736.3394

Cornell Cooperative Extension of Oneida County 4-H

121 Second Street, Oriskany, NY 13424

Return Receipt requested

## 4-H SCIENCE DAYS

If you have kids, ages 9 –12 who are interested in science and technology including learning about animals, insects, using global positioning systems (GPS) and the physical, chemical and biological properties of tiny objects (Nano-technology), then we have the program for them.

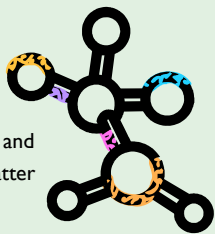


Take a look!

## 4-H SCIENCE DAYS

### April 15<sup>th</sup> Nano-technology:

will be presented by Jennifer Weil, Director of Education for the Nanobiotechnology Center, Cornell University. Areas to be covered include: Photolithography – which is the process through which very small (less than a few micrometers) 3-D features can be produced. It is the basis for manufacturing micro electronic chips used in computers; Chromatography – it is used to figure out which ingredients are in a flavor or scent, analyze various components in pollutants and to find traces of drugs in urine.



Nanotechnology is the art and science of manipulating matter at the nanoscale (down to 1/100,000 the width of a human hair) to create new and unique materials and products.

### April 16<sup>th</sup> Entomology & GIS & GPS:

in the morning faculty from the Cornell Lab of Entomology will be teaching youth how to start an insect collection. In the afternoon, Stephen Smith, a Senior Extension Associate and GIS Program Leader for the Cornell Institute for Resource Information Sciences in the Department of Crop and Soil Sciences will share basic information on GPS (Global Positioning System) and GIS (Geographic Information System). GPS is used as an aid for navigation and for hobbies such as geocaching. GIS is often associated with mapping. Youth will be taught how to use a GPS receiver through a hands-on geocaching activity akin to a “treasure hunt”. Information will be downloaded to a GIS system and mapped to show the routes individuals followed during the geocache event. **Please dress appropriately for the outdoors.**



### April 17<sup>th</sup> Animal Science:

Cornell Cooperative Extension staff and volunteers, as well as local veterinarians and livestock producers will teach youth about animal behavior, health and nutrition, the many use of animals, animal safety and much more. Opportunities will be available to interact with dogs, goats, rabbits, horses, cattle and more.



### 4-H Science Day Details:

For ages 9—12

Held here at Cornell Cooperative Extension

121 Second Street, Oriskany, NY 13424

9 am—3 pm

Lunch will be provided.

Registration Deadline is April 1, 2009.

### 4-H Science Days Costs?

-\$20.00 per day per child for enrolled 4-H Members

-\$25.00 per day per child for the public

-\$55.00 for all 3 days per child for enrolled 4-H Members

-\$70.00 for 3 days per child for the public

Please make check payable to Cornell Cooperative Extension 4-H

Mail the check to: Cornell Cooperative Extension

Attn. Chris Weber Mangini

## Please Register:

Name of Youth:

Address:

Phone:

More information will be sent on receipt of your registration and check.

Thank you!