

THE  
**SPECTROSCOPY SOCIETY  
OF PITTSBURGH**



IN EDUCATIONAL PARTNERSHIP WITH THE



**NATIONAL ENERGY TECHNOLOGY LABORATORY**  
(United States Department of Energy)

invites elementary and middle school teachers to attend a

**“LIGHT, COLOR, AND SPECTROSCOPY FOR KIDS”  
WORKSHOP**

**TO BE HELD AT THE**

National Energy Technology Laboratory  
(South Park – about 12 miles south of Pittsburgh – specific directions will be sent)

**Friday, January 16, 2009**

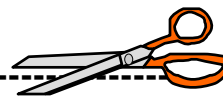
8:30 AM – 3:00 PM

Fee: \$20.00 (includes lunch)

***PA TEACHERS ATTENDING THE WORKSHOP WILL RECEIVE 5 HOURS  
TOWARD THEIR ACT 48 REQUIREMENTS***

Mail to: **John A. Varine, SSP Spectroscopy Workshop, 198 Myers Road,  
Vandergrift, PA 15690 before December 22, 2008. Enclose your  
\$20 check payable to the SSP. (724-845-8779, varine@pittcon.org)**

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(web version form)



**Please register me for the SSP “Light, Color and Spectroscopy for Kids” Workshop for  
Elementary/Middle School Teachers to be held at the National Energy Technology  
Laboratory on Friday, January 16, 2009, at 8:30 AM.**

Name \_\_\_\_\_ School \_\_\_\_\_

School Address \_\_\_\_\_

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

Telephone Number \_\_\_\_\_ (home or school?)

E-Mail Address \_\_\_\_\_

# **“SSP LIGHT, COLOR AND SPECTROSCOPY FOR KIDS”**

## **A Workshop For Elementary & Middle School Teachers**

The Spectroscopy Society of Pittsburgh (SSP) will again offer its annual “Light, Color and Spectroscopy for Kids” workshop to elementary and middle school teachers. Using the materials provided by the SSP, workshop participants will be able to project a large and very bright visible spectrum (rainbow?) in their own classrooms. They will use that spectrum together with other materials to demonstrate why colors appear the way they do in an exercise titled “red apples, green apples”.

Spectral excitation (or is it student excitement?) introduces the teacher to the concept of atomic energy levels in a novel way. Later in the workshop, participants will view the beautiful colors and spectra of excited gases and use their observations to perform an experiment in qualitative chemical analysis (Don’t let the words “frighten” you!). To make science a little more interesting to students that profess little or no interest in science, workshop participants will be introduced to a new concept “spectroscopy as an art form”.

The teaching method used is that of the student-assistant lecture-demonstration approach with emphasis on deductive reasoning. The workshop will conclude with a “Great (well – almost great) Book/Equipment Give Away”!

The workshop will be presented at the National Energy Technology Laboratory (NETL - a US Department of Energy National Laboratory) in South Park, just a few miles from Pittsburgh, on Friday, January 16, 2009. Conference rooms for the workshop will be provided by NETL through an Educational Partnership Agreement between the national laboratory and the SSP and its sister society the Society for Analytical Chemists of Pittsburgh (SACP). Early registration is encouraged, as seating is limited. The final date for registration is December 22, 2008. Late registrations may be accepted depending on space available.

**For more information on  
SSP AND SACP ELEMENTARY/MIDDLE SCHOOL PROGRAMS  
Visit the Society Websites at  
*www.ssp-pgh.org* and *www.sacp.org***