

TEACHER WORKSHOP

for Science Educators -- High School & Middle School



DETECTING RADIATION IN OUR RADIOACTIVE WORLD

A Teacher Workshop -- Science Educators -- High School & Middle School

(biology, chemistry, earth science, physics, physical science, life science, environmental, general science, etc.) Interested Elementary School Teachers are welcomed!

This full-day workshop will prepare attendees to teach the basics about radiation, how we detect radiation, and uses of nuclear science and technology in society. Teachers who complete the workshop will receive a wealth of materials – background information, hands-on activities, supplementary resources – and a Civil Defense surplus Geiger counter.

WORKSHOP BENEFITS:

- Get valuable information and hands-on activities for teaching about radiation, radioactivity, and nuclear technology in your classroom.
- Take home -- FREE -- a Geiger Counter (CD-V700) upon completion of workshop.
- Meet and talk with professionals in nuclear science and technology.
- Receive a comprehensive teacher resource book with resource lists, teaching materials, experiment sheets, visual materials, and more!

AGENDA:

- 7:30 a.m. Registrant Check-in & Continental Breakfast
8:00 a.m. Workshop Sessions Begin
(Lunch and breaks included in schedule)
- Background Information about Radiation, Sources, etc.
 - Activities for the Classroom
 - Nuclear Science and Technology Applications in Modern Life
 - Nuclear Fuel Cycle
 - Fukushima events and Radiation Information
 - Detecting Radiation – Using the Geiger Counter
- 5:15 p.m. Workshop Ends

Register Online
Today!



Register by May 15 for Savings!

Early Bird Registration (5/15/13) : \$89.00!

Registration fees (05/16- 05/28): \$135.00

Final deadline for registration, Tuesday, May 28th, 11:59 P.M. (CST)

SPACE IS LIMITED: Pre-registration is required.

<http://www.ans.org/pi/edu/teachers/workshops>



CONTINUING EDUCATION CREDITS

Workshop participants may be eligible for continuing education credits, depending upon the requirements of their local school districts. ANS will provide verification of your workshop attendance.



SCIENCE STANDARDS

Workshop provides information and training to help teachers address National Science Education Standards for grades 5-8 and 9-12, as developed under the aegis of the National Research Council. ● Specific content will help teachers address physical science content standards at grades 5-8 (transfer of energy) and 9-12 (structure of atoms and interactions of energy and matter). ● The workshop and materials will provide information useful in addressing topics in the history & nature of science, as outlined by the standards, for both grade levels. ● Teachers will receive information which helps them assist students in grades 9-12 as they develop scientific models, an activity which is part of the inquiry standards. ● The workshop will contain information about the structure of atoms, radiation, energy of different types of radiation, interactions of energy and matter, nuclear reactions, sources of radiation in everyday life, and ways to detect and quantify that radiation. ● Participants will use an analog Geiger counter to detect radiation from background and man-made sources.

PRESENTERS

Scheduled presenters include:

- Ms. Candace Davison, Senior Reactor Operator and Educational Specialist, Breazeale Reactor, Penn State University;
- Dr. Mary Lou Dunzik-Gougar, Asst. Prof. Nuclear Engineering, Idaho State University and Research Scientist, Idaho National Laboratory;
- Mr. William “Art” Wharton, III, Principal Project Engineer, Westinghouse Electrical Company; Monroeville, PA;
- Mr. William Wabberson, Facility Evaluation Board, SRNS, Member of Savannah River Local Section of ANS, Aiken, SC;
- Dr. Eric P. Loewen, Past President of ANS & Chief Engineer, General Electric, Wilmington, NC.

Other educators and nuclear specialists may also make presentations.

The American Nuclear Society is a not-for-profit, international scientific and educational organization. It was established in 1954 by a group of individuals who recognized the need to unify the professional activities within the diverse fields of nuclear science and technology. Members include people who are engineers, scientists, and educators.

REGISTER ONLINE at <http://www.ans.org/pi/edu/teachers/workshops>

Registration Form

American Nuclear Society's Teacher Workshop

DETECTING RADIATION IN OUR RADIOACTIVE WORLD

Saturday, June 15, 2013

Atlanta, GA

Early Bird Registration discount – available only through May 15, 2013 – \$89.00

Registration deadline is May 28, 2013 – \$135.00

Please Type or Print clearly

Name _____
(Last) (First)

HomeAddress _____
(Street) (City) (State) (zip)

Home Phone _____ Cell Phone (optional) _____

E-mail address _____ **(used to confirm registration)**
Please list the address you use regularly

School Name _____

School Address _____
(Street) (City) (State) (zip)

Daytime Phone _____ Fax number _____

Please note any special needs (diet, accessibility, etc.) _____

Enclosed is my check made payable to the *American Nuclear Society*

Please charge my Credit Card: AMEX Mastercard Visa Expiration Date _____

Card Number _____ Signature _____

Please remit this form and payment to:

Chuck Vincent / American Nuclear Society
555 North Kensington Avenue La Grange Park, IL 60526
(Fax) 708/579-8238

If mailing your registration, PLEASE allow 7-10 days for arrival. On-site registration is not available.

Additional information, directions, and other details will be provided to registered attendees
1 week prior to workshop.

For any questions or additional information regarding the workshop, please contact:
Chuck Vincent / Phone (708) 579-8311 / (E) ansteachersworkshop@ans.org

American Nuclear Society
Center for Nuclear Science
& Technology Information
555 N. Kensington Ave.
LaGrange Park, IL 60526

TEACHER WORKSHOP

JUNE 15th, 2013
Atlanta, GA

SAVE \$\$ - REGISTER BY MAY 15th!

WHAT TEACHERS ARE SAYING

"I attended the workshop...and was pleasantly impressed with the caliber of professionalism and knowledgeable presenters...I look forward to sending my staff members to future workshops."

Linda Cheney, Principal/Superintendent
Young School District #5
Young, AZ



CAN'T ATTEND THE WORKSHOP?

Interested in nuclear science and technology?

Visit the Public Information page on the ANS web site! <http://www.ans.org/pi/>

Want useful information and ideas for your classroom?

Check out the ANS ReActions newsletter at ReActions.ans.org
and sign up for our e-newsletter.