American Crystallographic Association, Inc.

Workshop Registration Form
Crystallography: World of Wonders
Saturday July 24, 2010

www.AmerCrystalAssn.org
Phone 716.898.8690
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aca@hwi.buffalo.edu

Registration

▲Last Name ▲Middle Name/Initial

▲First Name

▲School

▲Street Address

▲City ▲State/Prov. ▲Zip/Postal Code

▲Telephone ▲Fax

▲E-mail

Additional Information

There is no fee to attend this workshop.

Date: Saturday, July 24, 2010
Location: Sheraton Chicago Hotel & Towers
Organizers: Cora Lind, with Christine Zardecki, David Goodsell, and Claudia Rawn

Materials for classroom activities and lunch will be provided. Workshop participants will also have the opportunity to attend the opening plenary lecture by 2009 Nobel Laureate Venkatraman Ramakrishnan at 6:15pm.

Please return this form via the Submit button at the bottom, fax to (716) 898-8695, or mail to:
ACA
PO Box 96 Ellicott Station
Buffalo, NY 14205

Workshop Details

The U.S. National Committee for Crystallography announces a crystallography education workshop offered in conjunction with the American Crystallographic Association (ACA) on July 24, 2010, at the Sheraton Chicago Hotel & Towers. This one-day workshop is designed as a continuing education opportunity for high school teachers, and will supply teachers with theoretical background and hands-on activities to design lesson and experiment plans that can be taken back to the classroom.

The workshop will cover both theory and hands-on exercises. We will start with basic concepts like repeating motifs, crystal systems, and mineral crystals. Some very basic structures will be chosen to construct crystallographic models with readily available materials like legos and yarn. Different types of bonding and the effect of bonding on structure and properties will be introduced.

Diffraction basics will be visualized using lasers and gratings. For high school science classes, Bragg's law, which describes where reflections are observed in the diffraction pattern, can be derived from simple trigonometric constructions.

For more information on this workshop, visit http://www.amercrystalassn.org/content/pages/2010-workshops.

Completion of this workshop is sufficient for Continuing Education points as per the Illinois State Board of Education. A certificate of completion will be available at the end of the workshop.

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