High School Chemistry Day

High School Teachers’ Program
San Diego, CA

Sunday, March 25 • 8:30 AM – 5:00 PM
THE WESTIN HOTEL SAN DIEGO

High School Chemistry Teachers!

The American Chemical Society will hold its 243rd National Meeting in San Diego, CA on March 25–29, 2012. More than 15,000 scientists are expected to attend, and over 11,000 presentations are slated, comprising symposia that highlight a broad range of scientific advancement.

The American Chemical Society is the world’s largest scientific society dedicated to a single discipline. The meeting will be held at the San Diego Convention Center and hotels around the city.

The High School Teachers Program will be held at the Westin Hotel San Diego.

For more information contact the Office of High School Chemistry
1 800 227 5558, ext. 2105
education@acs.org
www.acs.org/hsday

ACS
Chemistry for Life

www.acs.org
MORNING PROGRAM

Welcome
SYMPOSIUM ORGANIZER:
Russ Davidson, San Dieguito High School Academy, Encinitas, CA

Environmental chemistry research for high school students
Jani Ingram, Northern Arizona University, Flagstaff, AZ
Find out how high school students of diverse backgrounds have contributed to environmental chemistry studies at Northern Arizona University.

Using Google Docs to foster reading, writing and critical thinking in the science classroom
Brinn Belyea, Torrey Pines High School, San Diego, CA
Find out how Google Docs may be applied in your classroom to encourage critical thinking, reading and writing. Two strategies: a student run science journal and student responses to a short article related to a real world application of chemistry will be shared.

Future women in science
Filomena Califano, St Francis College, Brooklyn, NY
Learn about Future Women in Science — a six-week after-school STEM (Science, Technology, Engineering and Mathematics) program involving female high school students from Brooklyn, NY.

Greening our lives: Ready-to-use resources from the Journal of Chemical Education
Hillary Wilmoth, ACS Publications, Washington, D.C.
Laura E. Slocum, University High School of Indiana, Carmel, IN
Explore the chemistry of caring for our lives and environment and how it can be integrated into the curriculum with hands-on activities that use readily available teaching materials from grocery and hardware stores.

Visible spectroscopy in the chemistry classroom
Sally B Mitchell, East Syracuse Minoa High School, East Syracuse, NY
Richard McGraw, Thermo Scientific, Molecular Spectroscopy, San Jose, CA
Discover how to incorporate a visible spectroscopy in the chemistry classroom.

Pop culture in the chemistry classroom
Elizabeth Mitchell, Syracuse University, Syracuse, NY
Learn how to relate chemistry topics to different areas of popular culture through music, movies, and books.

“Or what?”: On getting involved, and getting people to care
Jamal Malik, Scripps Research Institute, La Jolla, CA
Share in the accomplishments of our young student organization and the effects of seemingly minor victories to achieve environmental gains in the face of economic concerns, political insouciance and cultural apathy.

Green chemistry: New directions in science
John Warner, Warner Babcock Institute for Green Chemistry, Wilmington, MA
Learn why students (and teachers) are essential to achieving a sustainable future.

LUNCH
A feature of each national meeting, the High School/College Interface Luncheon, brings together educators from different levels with the goal of facilitating an exchange of ideas and networking between teachers. This activity is organized and sponsored by the ACS Division of Chemical Education (CHED) and the ACS Education Division. Additional support for speakers’ travels was provided by the Southern California Biotechnology Center.

The luncheon speaker, Roxanna Allen, recipient of the James Bryant Conant Award in high school Chemistry & sponsored by Thermo Fisher Scientific, will present:

Combustion analysis: Reflecting on twenty seven years of high school chemistry
NOTE: Pre-college registrants should not purchase a ticket to the High School/College Interface. Luncheon tickets for pre-college registrants to this event are generously provided by the ACS Division of Chemical Education and the ACS Education Division.

AFTE RN OON PROGRAM:
Green chemistry high school lessons and labs
Kate Anderson and Amy Cannon, Beyond Benign, Wilmingon MA
View, discuss and participate in an example of a replacement laboratory experiment focused on reducing the use of hazards in the chemistry classroom while still demonstrating the chemistry concept.

Cell phone spectrometers: Getting students to see the light (and do the math)
Alexander Scheeline, University of Illinois at Urbana-Champaign, Urbana, IL
View, discuss and participate in an experiment in which students build a spectrophotometer and handle all the data, even with terrible detectors (cell phone cameras), high stray light, poor dispersion and inexact alignment.

BioPlastics: Going from synthetic to natural based polymer plastic
Sherri Conn Rukes, Libertyville High School, Chemistry, Libertyville, IL
View, discuss and participate in an experiment showcasing various types of bioplastics, how they are made, the terminology used with bioplastics and how to make them in your own classroom.

Eco-friendly equilibrium
Mike Sixtus, Santee, CA
View, and discuss with a speaker in an experiment in which students test the various aspects of Le Chatelier’s principle, graph the results and discuss the establishment of the equilibrium system.

EXPOSITION
Network with technical professionals from more than 200 exhibiting companies inside the ACS Exposition. Investigate new technology and techniques in instrumentation, publications, scientific software and hardware, analytical, and chromatographic, laboratory and safety equipment and services.

You can visit the exhibiting companies and organizations on Sunday, March 25, 2012 from 6:00 PM – 8:30 PM, Monday, March 26, 2012, and Tuesday, March 27, 2012, from 9:00 AM – 5:00 PM in the San Diego Convention Center.

REGISTRATION
All attendees must register for the meeting in order to participate in the technical sessions and programs. Registration provides full access to the special High School Chemistry Day program on Sunday as well as the entire ACS meeting (Sunday through Thursday) and Exposition (Sunday through Tuesday).

The cost for registration for Pre-college teachers is $90.00. Early registration ends on February 6, 2012. Register after that or on-site and you will need to pick up your badge at the ACS Attendee Registration.

REGISTRATION METHODS
There are several ways to register for the meeting:

Online: www.acs.org/meetings (credit cards only)
Phone: 800-251-8629 or 508-743-0912 M–F, 9 AM to 5 PM EST (credit cards only)
Mail/Fax completed form with payment to:
508-759-4552 or
ACS Registration c/o CDS, 107 Waterhouse Road, Bourne, MA 02532
by March 29, 2012
On-site: San Diego Convention Center

PROFESSIONAL DEVELOPMENT DOCUMENTATION
Attendees can track professional development (based on clock hours) for sessions attended at the ACS national meeting. On completion and submission of ACS forms, participants will be mailed a certificate documenting their participation in the conference.