



# HIGH SCHOOL CHEMISTRY TEACHERS PROGRAM BOSTON, MASSACHUSETTS

Visit the exhibiting companies and organizations at the Boston Convention & Exhibition Center on:

**Sunday, August 16, 2015**  
6:00 PM–8:30 PM

**Monday, August 17, 2015**  
**Tuesday, August 18, 2015**  
9:00 AM–5:00 PM

## REGISTRATION

All attendees must register for the meeting. Registration full access to the special High School Chemistry Day program AND the entire ACS meeting and Exposition.

The cost for registration for Pre-college/High School teachers is \$100.00.

## REGISTRATION METHODS

There are several ways to register for the meeting:

- Online:  
<http://www.acs.org/meetings>
- Phone:  
800-251-8629  
or 508-743-0192  
M - F, 9 AM to 5 PM EST
- On-site: Boston Convention & Exhibition Center

## WHY SHOULD YOU ATTEND THE ACS NATIONAL MEETING IN BOSTON?

- 2 Days of High School Programming
- Learn about resources that you can use in your classroom
- Networking opportunities with other chemistry teachers
- Earn Continuing Education Credits for attending sessions
- Full access to the entire ACS meeting and Exposition

The American Chemical Society (ACS) will hold its 250th National Meeting in Boston on August 16 – August 20, 2015. ACS is the world's largest scientific society dedicated to a single discipline. The meeting will be held at the Boston Convention & Exhibition Center and hotels around the city.

## CAN'T ATTEND THE ACS NATIONAL MEETING IN BOSTON?

Follow along on Twitter with #ACSHSDay

For more information  
Contact the Office of High School Chemistry  
1 800 227 5558, ext. 2105  
[education@acs.org](mailto:education@acs.org)  
[www.acs.org/hsday](http://www.acs.org/hsday)



**ACS**  
Chemistry for Life®

## SUNDAY, AUGUST 16, 2015

### 8:30 AM – 1:00 PM HIGH SCHOOL PROGRAM

#### Welcome

##### Symposium organizer:

Sally B. Mitchell, East Syracuse Minoa High School, East Syracuse, NY  
Kate Anderson, Beyond Benign, Wilmington, MA

##### Probing Neurons and Sequencing DNA: My Adventures in Simple pH Chemistry

Adam Cohen, Chemical Biology, Harvard University, Cambridge, MA

##### Work Safely and Have Fun, too!

Betty Ann Howson, Chatham High, NJ

##### Green Chemistry: The Science of Solutions

Kate Anderson Beyond Benign, Wilmington, MA

##### Inspiring the Next Generation of Innovators

Ann Lambert, King Philip High School, Wrentham, MA  
Esther Hines, Billerica High School, Billerica, MA

##### From Discovery to Practical Application - Molecular Spectroscopy in the High School Chemistry Curriculum

Dick McGraw, Thermo Fisher Scientific, Highlands Ranch, CO

##### Periodic Table: Highlights from the History of an Icon

Carmen Giunta, Le Moyne College, Syracuse, NY

##### Using Chemical Education Research

Deanna Cullen, Whitehall High School, Montague, MI

##### High School/College Interface Luncheon

The lunch is organized and sponsored by the ACS Education Division and Division of Chemical Education (CHED).



### 1:30 PM – 5:00 PM PRESIDENTIAL SYMPOSIUM 21<sup>ST</sup> CENTURY CHEMISTRY EDUCATION: FORMAL AND INFORMAL

##### Launching of the American Association of High School Teachers: A Community for Teachers of Chemistry by Teachers of Chemistry

Barbara Sitzman, Los Angeles Unified School District (retired), Los Angeles, CA

##### Young Chemists in Action: The Benefits of Informal Chemistry Education

Sally Mitchell, East Syracuse Minoa Central High School, East Syracuse, NY

##### Promoting Excellence in Chemistry Teaching through In-Service Professional Development

Jesse Bernstein, Miami Country Day School, Miami, FL

##### Making Connections: Mentoring, Networking, and Presenting Make a Real Difference for and in us as Educators

Laura E. Slocum, Heathwood Hall Episcopal School, Columbia, SC

##### Teacher-tested, but Student-blackbox Online Professional Development for Chemistry Teachers

William Hunter, Illinois State University, Normal, IL

##### Engaging researchers and students as partners in education and outreach

Carol Lynn Alpert, Museum of Science, Boston, MA

### 5:00 PM – 7:00 PM NETWORKING RECEPTION

The ACS Office of High School Chemistry, ACS-Hach Program, and invite you to eat, drink and talk chemistry with your fellow teachers and us at the High School Teachers Reception

## MONDAY, AUGUST 17, 2015

### 8:30 AM - 12:00 PM PRESIDENTIAL SYMPOSIUM 21<sup>ST</sup> CENTURY CHEMISTRY EDUCATION: FORMAL AND INFORMAL

##### Inspiring and Motivating Chemistry Learning Through Visualization and Rich Contexts

Peter Mahaffy, The King's University, Edmonton, Alberta, Canada

##### Strategies to Effectively Incorporate Learner-centered Instruction into Chemistry Service Courses

Maria Oliver-Hoyo, North Carolina State University, Raleigh, NC

##### Opportunities of Formal and Informal Chemistry Education at the Two-year College

Amina El-Ashmawy, Collin College, McKinney, TX

##### To Be Determined

Carlos Gutierrez, University of California, Davis, CA

##### Informal STEM Education: Theory to Outcome

Matthew L. Miller, South Dakota State University, Brookings, SD

##### Overcoming Popular Myths about Education

George M. Bodner, Purdue University, West Lafayette, IN

### 4:30 PM – 8:00 PM FROM RAW TO VAROOM: THE SCIENCE BEHIND GETTING A CAR ON THE ROAD

Presented by: Sherri Conn Rukes Libertyville High School, Libertyville, IL; Andrew Nydam Olympia High School Olympia (retired), WA; Debbie Goodwin Chillicothe High School, Chillicothe, MO; and Edmund Escudaro Summit County Day School, Cincinnati, OH

##### From Raw to Varoom: The science behind getting a car on the road

##### The Raw Materials for Making a Car: Where do they come from?

##### The Building of the Chassis and other Parts of the Car

##### Under the Hood: What makes the Engine work?

##### Getting Rid of the Excess Heat: the Cooling System

##### Let the Car Roll: the Making of Tires

##### The Roads We Drive On

##### Extra features: Options to protect and beautify the car

##### The future: Where are we headed in terms of automobiles?

View the full abstracts for these programs at: [www.acs.org/hsday](http://www.acs.org/hsday)