

*The Northeastern Section of the American Chemical Society*

## CONNECTIONS TO CHEMISTRY 2010



The Northeastern Section of the American Chemical Society (NESACS) and the Education Committee of the Northeastern Section invite high school chemistry teachers to a program at **Burlington High School (Burlington, MA) on Wednesday, October 13<sup>th</sup>, 3:30 – 8:00 PM**. This program will showcase the extensive education resources that are available from the American Chemical Society for high school chemistry teachers. Four simultaneous hands-on workshops will illustrate these resources:

- **Polymers in the K-12 Curriculum** with Al Hazari, Director of Undergraduate Chemistry Labs, University of Tennessee/Knoxville. Polymers are in us and all around us. Integrating polymers into K-12 classes can bring excitement, enjoyment and relevance into the science curriculum. Polymer activities could involve basic concepts such as density, solubility, physical and chemical properties as well as environmental and energy issues, and experimental design. Advanced topics could include organic chemistry, biochemistry and spectroscopy. Come and experience several hands-on activities as well as a number of polymer demonstrations all using common substances. (Workshop A)
- **How Science Can Inform the Art of Teaching - Helping Students to Become Better Quantitative Problem Solvers** with Fred Garafalo, Massachusetts College of Pharmacy and Health Sciences. The presenter will briefly describe how, during the past 20 years, educational research findings have helped to guide the evolution of his first-year chemistry curriculum and to shape his teaching philosophy. Using an interactive format, he will then engage workshop participants in reflecting upon 1) their favorite quantitative problem-solving strategies, 2) the difficulties that commonly-used strategies often present to students, and 3) reasoning skills that can help students improve their problem-solving ability. (Workshop B)
- **Chemistry Behind the Crime Scene** with Faina Ryvkin, Emmanuel College. This workshop will be dedicated to some aspects of crime scene processing and forensic evidence analysis such as blood and fingerprints detection. The gap between scientific facts and fiction in such popular TV shows as CSI will be discussed. (Workshop C)
- **SmartPens** with Alan Crosby, Newton South High School. Smartpens will take over – they may already be in your classroom; you just are unaware. What they are, how they can be used, and how to put them to work in the classroom will all be discussed. (Workshop D)

## Program Schedule

3:30 – 4:00	Registration and Refreshments
4:00 – 4:25	Welcome and Overview
4:30 – 6:10	<u>Four Simultaneous 50 Minute Workshops Presented in Each Session:</u> Session I: 4:25 – 5:15 Workshops A & B & C & D Session II: 5:20 – 6:10 Workshops A & B & C & D
6:15 – 8:00	Dinner and Address <b>Address:</b> <i>Motivate Your Students' Molecules!</i> Dr. Al Hazari, Director of Undergraduate Chemistry Labs, University of Tennessee/Knoxville

**The deadline for registration is Friday, October 8<sup>th</sup>.** The registration fee is \$20.00 and is non-refundable after October 4<sup>th</sup>. Workshop and program-related materials, dinner, a one-year subscription to *ChemMatters*, and a certificate for three hours of Professional Development will be provided to all workshop *participants*.

- The program and registration form can be obtained from the NESACS Web site <<http://www.nesacs.org>> under *Connections to Chemistry 2010*.
- For additional information, contact Dr. Marietta Schwartz, Chair, Education Committee, NESACS: 617-287-6146 or [marietta.schwartz@umb.edu](mailto:marietta.schwartz@umb.edu).