

Microwave-assisted chemistry

Wednesday noon - 2PM

CEM Corporation



Registration Required - includes lunch

Microwave technology has become a common tool for chemical synthesis with many academic institutions incorporating microwave-assisted experiments into their teaching and research labs. Early introduction to innovative instrumentation, such as microwave reactors, teaches students to embrace ideas on the cutting edge of chemistry, better preparing them for technologies they will encounter in their careers.

This workshop will include a review of microwave theory, provide a pedagogical comparison of both single and multi-mode technologies available for the teaching lab, and highlight several examples of experiments that have been adapted for microwave technology with an emphasis on green chemistry principles. Participants will receive hands-on training to understanding of how microwave-assisted chemistry can fit into any teaching lab.

EChem in a Box: Incorporating Experimental Electrochemistry into your Curriculum

Thursday noon – 2PM

Pine Research Instrumentation



Registration Required - includes lunch

Pine Research Instrumentation (Durham, NC) has recently launched our experimental electrochemistry education bundle, EChem in a Box. EChem in a Box makes teaching experimental electrochemistry accessible, affordable, and easy to implement in the undergraduate curriculum. EChem in a Box contains a WaveNow potentiostat, screen-printed electrodes and cells, and an educational guide written for instructors that also includes editable digital copies of laboratory exercises and a video series. During this workshop, attendees will perform a hands-on cyclic voltammetry experiment, included with EChem in a Box. We reserve the end of the workshop for a group discussion and Q&A on teaching experimental electrochemistry in the undergraduate curriculum. Lunch will be provided and all attendees must bring their own Windows-based laptop PC.

The Chemical Entrepreneur - From Concept to Commercialization

Thursday 9AM – 5PM



Registration Required - includes lunch

The Chemical Entrepreneur- From Concept to Commercialization.

Learn how successful entrepreneurs go from an idea to a successful product or service.

You will walk away from this symposium with knowledge, tools and contacts to help you immediately take a product or process from Concept to Commercialization. All the presentations in this symposium are given by speakers proficient and currently active in their subject matter. This is no “theoretical” conference. The presentations cover Creative Thinking, Identifying the Market Needs, Development – synthesis, analytical testing, application testing, IP Protection, Regulatory Requirements and Funding Sources.

Improving Chemical Safety in Schools

Friday noon – 2PM



[Division of Chemical Health and Safety](#)

[ACS Office of High School Chemistry](#)

[ACS Committee on Chemical Safety](#)

Registration Required - includes lunch

This 2 hour hands-on workshop is designed for all types of educators and will enable them to determine hazards and reduce risk in a teaching environment. This workshop will assist educators to better understand the safe management and use of chemicals in educational settings. Topics include:

- The most recent information on the GHS system of labeling chemicals
- Approaches to chemical inventory and storage
- Basics of hazardous waste management
- How to evaluate the quality of a safety data sheet
- Strategies to evaluate the safety issues involved with YouTube videos Improving Chemical Safety in Schools

Visit www.sermacs2017.org to register Workshop lead by Ms. Samuella Sigmann, CCHO, of Appalachian State University

ACS Career Pathways – Finding Yourself: Identifying Career That Matches Your Strengths and Values

Friday noon – 3PM



[Career Pathways](#)

Registration Required - includes lunch

Finding Yourself: Identifying a Career that Matches Your Strengths and Values allows you to self-assess your career values and strengths. Participants will also learn how the four sectors of chemistry employment compare and contrast. This course will also help you determine which sector best aligns to your values and strengths and plan your next steps to obtaining an ideal position.

ACS Career Pathways – Resume Review

Saturday 1:30PM – 5PM

Career Pathways

Registration Required - complimentary for students

An overview of the content of a robust résumé for an industrial chemistry position. Participants will also determine best practices in terms of résumé content and formatting through analysis of résumé exemplars. The course will also elaborate on the components of résumé portfolio, including example cover letter and research summary. Additionally, participants will learn about the strategic use of job search engines and networking strategies to get their résumés in the proper hands for the industrial chemistry position of their dreams.



Chemistry Educator Day

Saturday 8AM – 5PM

Biotechnology Center

Registration as Precollege Teacher required - Includes Breakfast and Lunch

Come and participate in the Chemistry Educator Day designed to provide you access to professional chemists, chemistry researchers and educators. You will participate in • make & take activities for challenging chemistry topics • learn about chemistry resources • work with and get to know regional 6-12 chemistry educators • hear the SERMACS keynote speaker Dr. Eric Scerri “The Periodic Table: Its Story and Its Significance” • and see high school and undergraduate research • and more.... Included in your \$10 registration fee lunch, materials, renewal credit, and the opportunity to participate in all conference activities November 7-11, 2017. 6-12 Chemistry Educator Day, Saturday, November 11, 2017 will begin at 8 am and conclude at 4 pm followed by Al Hazari’s Chemistry Demonstration Extravaganza. Plan to participate fully. After you register, more detailed information will be sent prior to November 11, 2017.

