Using ACS Resources to Teach Lab Safety

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Over the last few years, the American Chemical Society (ACS) has released several important new resources and updated others to support teaching laboratory safety at a variety of academic levels from secondary school to undergraduate and research settings. They are built around the RAMP paradigm supported by the ACS Committee on Professional Training guidelines.

This two-part workshop will discuss how the ACS publications can be used to support chemical safety education and a promote a proactive safety culture in these settings. Each module, which has separate but complementary content, can be taken individually for an early registration price of $175 ($99 for AACT members) or both can be taken for $350 ($198 for AACT members).

Part 1: ACS Safety Tools for Secondary School and Undergraduate Labs (morning)

This module will use a variety of tools available from the ACS to cover topics such as hazard recognition, basic risk assessment, understanding the Globally Harmonized System of Labeling (GHS), selecting Personal Protective Equipment (PPE), engineering controls, safe chemical management and storage, and basic chemical waste management principals. The information presented in this module is appropriate for secondary school teachers (including those who are pre-service) as well as undergraduate faculty.

Part 2: ACS Safety Tools for Chemistry Majors and Research Laboratories (afternoon)

In 2016, the ACS released an updated web version of its *Identifying and Evaluating Hazards in Research Laboratories* document. The methods outlined in this document are designed to address operations in research laboratory settings, which are less defined and more changeable than those in teaching settings. The workshop focuses on the "Job Hazard Analysis" and "Control Banding" tools, which are appropriate for most laboratory research at the undergraduate level. Examples of Lessons Learned programs in the research setting will also be reviewed.