



Mapping the future of green chemistry education

Mary M. Kirchhoff

American Chemical Society, Washington, DC 20036, USA

**E-mail: m_kirchhoff@acs.org*

Abstract: The mission of the American Chemical Society Green Chemistry Institute® (GCI) is “to catalyze and enable the implementation of green and sustainable chemistry and engineering throughout the global chemical enterprise.” GCI achieves its mission through a variety of communication activities, an annual conference, industry roundtables, and education initiatives. Education projects include the ongoing development of a green chemistry education roadmap and the introduction of systems thinking into the Anchoring Concepts Content Map for general chemistry. Three core competencies for undergraduate education have been articulated; these competencies are designed to strengthen students’ fundamental chemistry skills and knowledge and apply them to the design of chemical products and processes. This presentation will highlight progress on the roadmap and present strategies for integrating systems thinking into the teaching and learning of chemistry.

Keywords: Green Chemistry, Education, Systems Thinking
