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Progress Report On a Roadmap For Green Chemistry Education

AUTHORS

David J. CHICHESTER-CONSTABLE / ACS GREEN CHEMISTRY INSTITUTE, 1155 16TH ST N.W., WASHINGTON, D.C.

PURPOSE OF THE ABSTRACT

The mission of the ACS Green Chemistry Institute® (ACS GCI) is to catalyze and enable the implementation of green and sustainable chemistry and engineering throughout the global chemistry enterprise. This includes advocating for changes to chemistry education that better prepares students to meet the grand challenges of sustainability. In general, it is our observation that the interconnectedness between choices made in the lab and impacts on our health and environment are not appreciated by chemistry graduates. We believe there needs to be a new way of thinking about chemistry that focuses student learning outcomes on a systems-based approach to chemical, chemistry, and process design and we have established a few core competencies we believe chemistry graduates should possess. This presentation will describe progress and the current state of green chemistry education in the US and detail ACS GCI's efforts to more fully integrate green chemistry into the higher education chemistry curriculum.

FIGURES

FIGURE 1

FIGURE 2

KEYWORDS

Green Chemistry | Education | Roadmap | Core Competencies

BIBLIOGRAPHY