Roadmap Vision

“Chemistry education that equips and inspires chemists to help solve the grand challenges of sustainability”

This vision anticipates a multifaceted future state encompassing the following:

- **The practice of chemistry changes...**
  - From: Chemistry is focused on academic and economic value with minimal regard for environmental, safety, or health impacts.
  - To: Process and product design to minimize adverse environmental, health, and safety impacts while enhancing desired performance throughout the product life cycle.

- **The “pull” of demand for green chemistry changes...**
  - From: Green chemistry is seen as having little substantive benefit, while costing more to implement than its return on investment.
  - To: Green chemistry is inseparable from routine chemistry practice and is recognized for its pivotal role in advancing sustainability and commercial success.

- **Green chemistry core competencies ...**
  - From: Chemistry graduates are fully conversant in the terminology, strategy, and tactics of traditional principles, yet largely isolated from outcomes related to sustainability.
  - To: Chemistry graduates leverage green chemistry strategies and tools to develop and apply novel, sustainable chemicals, chemistries, processes, and products.

- **Chemistry education and academic enterprise ...**
  - From: Green chemistry concepts are supplemental to core course work and there is a poor understanding of how to reduce chemical hazards and risks.
  - To: Faculty are well-versed in and infuse green chemistry concepts in the teaching and research training activities at all levels, including academic research.

Achieving this vision is important because it will help to move us toward a more sustainable human enterprise that preserves economic vitality and human and environmental well-being. Achieving this vision will help chemistry to be seen as vital to any comprehensive sustainability strategy and a source of pride as it moves to the front lines of the campaign toward a more sustainable world.

This vision will be achieved through the best science, using evidence-based practices and interdisciplinary approaches.