



Undergraduate Chemistry Education: A Workshop Summary

*Keegan Sawyer, Joe Alper, Chemical Sciences Roundtable, Board on Chemical Sciences and Technology,
Division on Earth and Life Studies, National Research Council*

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Undergraduate Chemistry Education is the summary of a workshop convened in May 2013 by the Chemical Science Roundtable of the National Research Council to explore the current state of undergraduate chemistry education. Research and innovation in undergraduate chemistry education has been done for many years, and one goal of this workshop was to assist in the transfer of lessons learned from the education research community to faculty members whose expertise lies in the field of chemistry rather than in education. Through formal presentations and panel discussions, participants from academia, industry, and funding organizations explored drivers of change in science, technology, engineering and mathematics education; innovations in chemistry education; and challenges and opportunities in chemistry education reform. *Undergraduate Chemistry Education* discusses large-scale innovations that are transferable, widely applicable, and/or proven successful, with specific consideration of drivers and metrics of change, barriers to implementation of changes, and examples of innovation in the classroom.



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