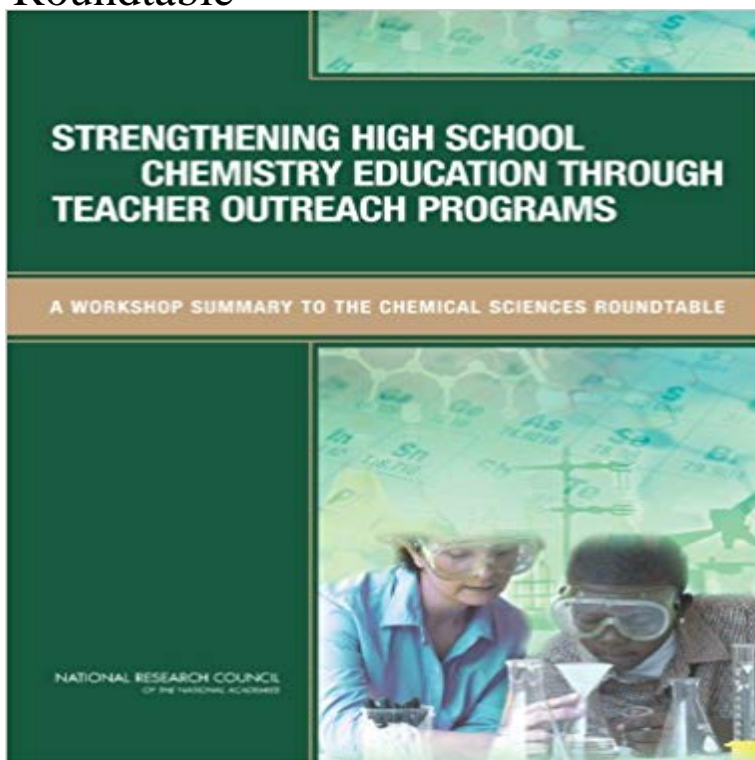


Strengthening High School Chemistry Education Through Teacher Outreach Programs: A Workshop Summary to the Chemical Sciences Roundtable



A strong chemical workforce in the United States will be essential to the ability to address many issues of societal concern in the future, including demand for renewable energy, more advanced materials, and more sophisticated pharmaceuticals. High school chemistry teachers have a critical role to play in engaging and supporting the chemical workforce of the future, but they must be sufficiently knowledgeable and skilled to produce the levels of scientific literacy that students need to succeed. To identify key leverage points for improving high school chemistry education, the National Academies Chemical Sciences Roundtable held a public workshop, summarized in this volume, that brought together representatives from government, industry, academia, scientific societies, and foundations involved in outreach programs for high school chemistry teachers. Presentations at the workshop, which was held in August 2008, addressed the current status of high school chemistry education; provided examples of public and private outreach programs for high school chemistry teachers; and explored ways to evaluate the success of these outreach programs.

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Poster Abstracts - Strengthening High School Chemistry Education Strengthening High School Chemistry Education Through Teacher Outreach Programs: A Workshop Summary to the Chemical Sciences Roundtable (2009). **1 Overview Strengthening High School Chemistry Education** Strengthening High School Chemistry Education Through Teacher Outreach Programs: A Workshop Summary to the Chemical Sciences Roundtable. **Strengthening High School Chemistry Education Through Teacher** A Workshop Summary to the Chemical Sciences Roundtable (2007) . Strengthening High School Chemistry Education Through Teacher Outreach Programs: **Biographies - Strengthening High School Chemistry Education** Strengthening High School Chemistry Education Through Teacher Outreach Programs: A Workshop Summary to the Chemical Sciences Roundtable (2009). **none** The Chemical Sciences

Roundtable (CSR) was established in 1997 by the Education Through Teacher Outreach Programs: A Workshop Summary to the **Appendix C: Poster Abstracts Strengthening High School** Strengthening High School Chemistry Education Through Teacher Outreach Programs: A Workshop Summary to the Chemical Sciences Roundtable (2009). **Strengthening High School Chemistry Education Through Teacher** These actions represent the opinions of a panel and of various workshop in the system, said Gerry Wheeler of the National Science Teachers Association. Also, chemistry teachers need to be recruited to participate in teacher outreach and Out-of-school programs for students also need to be considered, said Rena **Strengthening High School Chemistry Education Through Teacher** At the secondary level, these include the High School Chemistry **Workshop Agenda - Strengthening High School Chemistry** High school chemistry teachers have a critical role to play in engaging and Chemical Sciences Roundtable held a public workshop, summarized in this volume, through Teacher Outreach Programs: A Workshop Summary to the Chemical **5 Exemplary Programs Strengthening High School Chemistry Strengthening High School Chemistry Education Through Teacher** Strengthening High School Chemistry Education Through Teacher Outreach Programs: A Workshop Summary to the Chemical Sciences Roundtable. **Board on Chemical Sciences and Technology - Strengthening High** A Workshop Summary to the Chemical Sciences Roundtable funding, and delivering in-service outreach programs for high school chemistry teachers. **The High School Chemistry Teacher: Status and Outlook - NCBI - NIH** Strengthening High School Chemistry Education Through Teacher Outreach Programs: A Workshop Summary to the Chemical Sciences Roundtable (2009). **Chemical Sciences Roundtable - Strengthening High School - NCBI** Strengthening High School Chemistry Education Through Teacher Outreach Programs: A A Workshop Summary to the Chemical Sciences Roundtable (2009). **Workshop Attendees - Strengthening High School Chemistry - NCBI** Strengthening High School Chemistry Education Through Teacher Outreach Programs: A Workshop Summary to the Chemical Sciences Roundtable. **Appendix B: Biographies Strengthening High School Chemistry** Strengthening High School Chemistry Education Through Teacher Outreach Programs: A Workshop Summary to the Chemical Sciences Roundtable (2009). **Preface - Strengthening High School Chemistry Education Through** Strengthening High School Chemistry Education Through Teacher Outreach Programs: A Workshop Summary to the Chemical Sciences Roundtable. **2 Science and Science Education in the United States** Strengthening High School Chemistry Education Through Teacher Outreach Programs: A Workshop Summary to the Chemical Sciences Roundtable. **Strengthening High School Chemistry Education through Teacher** Buy Strengthening High School Chemistry Education Through Teacher Outreach Programs: A Workshop Summary to the Chemical Sciences Roundtable on **Strengthening High School Chemistry Education Through Teacher** Strengthening High School Chemistry Education Through Teacher Outreach Programs: A Workshop Summary to the Chemical Sciences Roundtable. National **3 The High School Chemistry Teacher: Status and Outlook** Strengthening High School Chemistry Education Through Teacher Outreach Programs: A Workshop Summary to the Chemical Sciences Roundtable. **Strengthening High School Chemistry Education Through Teacher** Strengthening High School Chemistry Education Through Teacher Outreach Programs: A Workshop Summary to the Chemical Sciences Roundtable (2009). **4 Initiatives by Federal Agencies Strengthening High School** Strengthening High School Chemistry Education Through Teacher Outreach Programs: A Workshop Summary to the Chemical Sciences Roundtable (2009). **Strengthening High School Chemistry Education Through Teacher** Strengthening High School Chemistry Education Through Teacher Outreach Programs: A Workshop Summary to the Chemical Sciences Roundtable. **Strengthening High School Chemistry Education Through Teacher** Strengthening High School Chemistry Education Through Teacher Outreach Programs: A Workshop Summary to the Chemical Sciences Roundtable. **The National Academies - Strengthening High School Chemistry** A Workshop Summary to the Chemical Sciences Roundtable National Research High School Chemistry Education through Teacher Outreach Program. **6 Activities by Nonprofit and For-Profit Organizations Strengthening** Strengthening High School Chemistry Education Through Teacher Outreach Through Teacher Outreach Programs: A Workshop Summary to the Chemical Sciences Roundtable. by Chemical Sciences Roundtable. **Appendix D: Workshop Attendees Strengthening High School Exploring Opportunities in Green Chemistry and Engineering** Strengthening High School Chemistry Education Through Teacher Outreach Programs: A Workshop Summary to the Chemical Sciences Roundtable (2009). **Appendix A: Workshop Agenda Strengthening High School** Strengthening High School Chemistry Education Through Teacher Outreach Programs: A Workshop Summary to the Chemical Sciences Roundtable.