

# COMMUNICATING CHEMISTRY

A FRAMEWORK FOR SHARING SCIENCE



A Practical Evidence-Based Guide

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# Communicating Chemistry

**National Academies of Sciences,  
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and Technology, Committee on  
Communicating Chemistry in Informal  
Settings**

## **Communicating Chemistry:**

*Communicating Chemistry* National Academies of Sciences, Engineering, and Medicine, Division of Behavioral and Social Sciences and Education, Board on Science Education, Division on Earth and Life Studies, Board on Chemical Sciences and Technology, Committee on Communicating Chemistry in Informal Settings, 2016-08-19 A growing body of evidence indicates that increasingly the public is engaging with science in a wide range of informal environments which can be any setting outside of school such as community based programs festivals libraries or home Yet undergraduate and graduate schools often don't prepare scientists for public communication This practical guide is intended for any chemist that is any professional who works in chemistry related activities whether research manufacturing or policy who wishes to improve their informal communications with the public At the heart of this guide is a framework which was presented in the report *Effective Chemistry Communication in Informal Environments* and is based on the best available empirical evidence from the research literature on informal learning science communication and chemistry education The framework consists of five elements which can be applied broadly to any science communication event in an informal setting *Communicating Chemistry Through Social Media* Clarissa Sorensen-Unruh, Tanya Gupta, 2018-12-26 The variety of these chapters ranges from qualitative or mixed methods studies to how to guides and narratives There are chapters that explain social media usage in academia industry grants and professional organizations Some chapters focus on a teaching model others extend the focus to encompass personal and professional social media usage Most chapters were contributed by current chemists who use social media but some were contributed by those with a different perspective e.g. social scientists librarians etc Nevertheless all of the chapters provide a great deal of wisdom which is built from the experience of using social media These chapters also touch on emerging themes within social media communication transformation and ethics issues including digital redlining digital pedagogy digital identity curation hypervisibility and trolling These themes form both a rich body of discussion and current research topics regarding online environments including social media and they have not yet achieved saturation in peer reviewed literature

### **Effective Chemistry Communication in Informal Environments**

National Academies of Sciences, Engineering, and Medicine, Division of Behavioral and Social Sciences and Education, Board on Science Education, Division on Earth and Life Studies, Board on Chemical Sciences and Technology, Committee on Communicating Chemistry in Informal Settings, 2016-08-19 Chemistry plays a critical role in daily life impacting areas such as medicine and health consumer products energy production the ecosystem and many other areas Communicating about chemistry in informal environments has the potential to raise public interest and understanding of chemistry around the world However the chemistry community lacks a cohesive evidence based guide for designing effective communication activities This report is organized into two sections Part A The Evidence Base for Enhanced Communication summarizes evidence from communications informal learning and chemistry education on effective practices to communicate with and

engage publics outside of the classroom presents a framework for the design of chemistry communication activities and identifies key areas for future research Part B Communicating Chemistry A Framework for Sharing Science is a practical guide intended for any chemists to use in the design implementation and evaluation of their public communication efforts

*Chemistry in Primetime and Online* National Research Council, Division on Earth and Life Studies, Board on Chemical Sciences and Technology, Chemical Sciences Roundtable, 2011-08-01 It is critical that we increase public knowledge and understanding of science and technology issues through formal and informal learning for the United States to maintain its competitive edge in today's global economy Since most Americans learn about science outside of school we must take advantage of opportunities to present chemistry content on television the Internet in museums and in other informal educational settings In May 2010 the National Academies Chemical Sciences Roundtable held a workshop to examine how the public obtains scientific information informally and to discuss methods that chemists can use to improve and expand efforts to reach a general nontechnical audience Workshop participants included chemical practitioners e.g. graduate students postdocs professors administrators experts on informal learning public and private funding organizations science writers bloggers publishers and university communications officers and television and Internet content producers *Chemistry in Primetime and Online* is a factual summary of what occurred in that workshop *Chemistry in Primetime and Online* examines science content especially chemistry in various informal educational settings It explores means of measuring recognition and retention of the information presented in various media formats and settings Although the report does not provide any conclusions or recommendations about needs and future directions it does discuss the need for chemists to connect more with professional writers artists or videographers who know how to communicate with and interest general audiences It also emphasizes the importance of formal education in setting the stage for informal interactions with chemistry and chemists

*Communicating Chemistry* Anders Lundgren, Bernadette Bensaude-Vincent, 2000 Historians and philosophers of science offer 18 papers from a European Science Foundation workshop held in Uppsala Sweden in February 1996 explore such questions as how textbooks differ from other forms of chemical literature under what conditions they become established as a genre whether they develop a specific rhetoric how their audiences help shape the profile of chemistry translations and other topics Only names are indexed

**Communicating Chemistry** Patrick D. Bailey, Sara Shinton, 1999 This book can be used as a modular text or as a set of stand alone exercises It is aimed at students in the penultimate year of a chemistry degree

Communicating Chemistry Christiane S. Reiners, 2025-04-30 The textbook is aimed at all those interested in communicating chemistry However it has been specifically designed for chemistry teacher students to support them in the preparation and follow up of their subject matter didactical studies and in their teaching practice The specific structures concepts and methods of chemistry that are significant for communicating the subject matter of chemistry are analyzed in this textbook from a didactical perspective guided by theory and reflected upon in light of

classroom practice At the center of this analysis is the model of transformation which is used here to highlight the tasks of the chemistry educator Readers will learn through practical examples how educators can transform the subject matter of chemistry taking into account the learners and the goals of transformation into a teaching learning content thereby creating effective learning environments Current challenges complement the foundations and make this book a valuable companion for future chemistry teachers

**Effective Chemistry Communication in Informal Environments** National Academies of Sciences, Engineering, and Medicine, Division of Behavioral and Social Sciences and Education, Board on Science Education, Division on Earth and Life Studies, Board on Chemical Sciences and Technology, Committee on Communicating Chemistry in Informal Settings, 2016-09-19 Chemistry plays a critical role in daily life impacting areas such as medicine and health consumer products energy production the ecosystem and many other areas Communicating about chemistry in informal environments has the potential to raise public interest and understanding of chemistry around the world However the chemistry community lacks a cohesive evidence based guide for designing effective communication activities This report is organized into two sections Part A The Evidence Base for Enhanced Communication summarizes evidence from communications informal learning and chemistry education on effective practices to communicate with and engage publics outside of the classroom presents a framework for the design of chemistry communication activities and identifies key areas for future research Part B Communicating Chemistry A Framework for Sharing Science is a practical guide intended for any chemists to use in the design implementation and evaluation of their public communication efforts

**Communicating chemistry - why, to whom, what and how?**, 1986 **Communicating Chemistry, Why, to Whom, what and How?**

Royal Australian Chemical Institute. Chemical Education Division. Conference, Peter Pockley, 1986 **Communication in Chemistry** Garland L. Crawford, Kathryn D. Kloepper, John J. Meyers, Richard H. Singiser, 2020-10-02 Chapter 6 Examining the use of scientific argumentation strategies in deaf and hard of hearing learning contexts to teach climate science

**Communicating Chemistry** Sonya Grayson, 2010 *Chemistry in Primetime and Online*, **Early Responses to the Periodic System** Masanori Kaji, Helge Kragh, Gabor Palló, 2015-01-29 The reception of the periodic system of elements has received little attention among scientists and historians alike While many historians have studied Mendeleev's discovery of the periodic system few have analyzed the ways in which the scientific community perceived and employed it American historian of science Stephen G Brush concluded that the periodic law had been generally accepted in the United States and Britain and has suggested the need to extend this study to other countries In *Early Responses to the Periodic System* renowned historians of science Masanori Kaji Helge Kragh and Gabor Palló present the first major comparative analysis on the reception response and appropriation of the periodic system of elements among different nation states This book examines the history of its pedagogy and popularization in scientific communities educational sectors and popular culture from the 1970s to the 1920s Fifteen notable historians of science explore the impact of Mendeleev's discovery in eleven countries and

one region central to chemical research including Russia Germany the Czech lands and Japan one of the few nation states outside the Western world to participate in the nineteenth century scientific research The collection organized by nation state explores how local actors regarded the new discovery as law classification or theoretical interpretation In addition to discussing the appropriation of the periodic system the book examines meta physical reflections of nature based on the periodic system outside the field of chemistry and considers how far humans can push the categories of response and reception Early Responses to the Periodic System provides a compelling read for anyone with an interest in the history of chemistry and the Periodic Table of Elements

**Documents, Including Messages and Other Communications**  
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*Journal of Studies in General Education*, 2004-09      *Chemistry in the World's Work* Harrison Estell Howe, 1926  
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