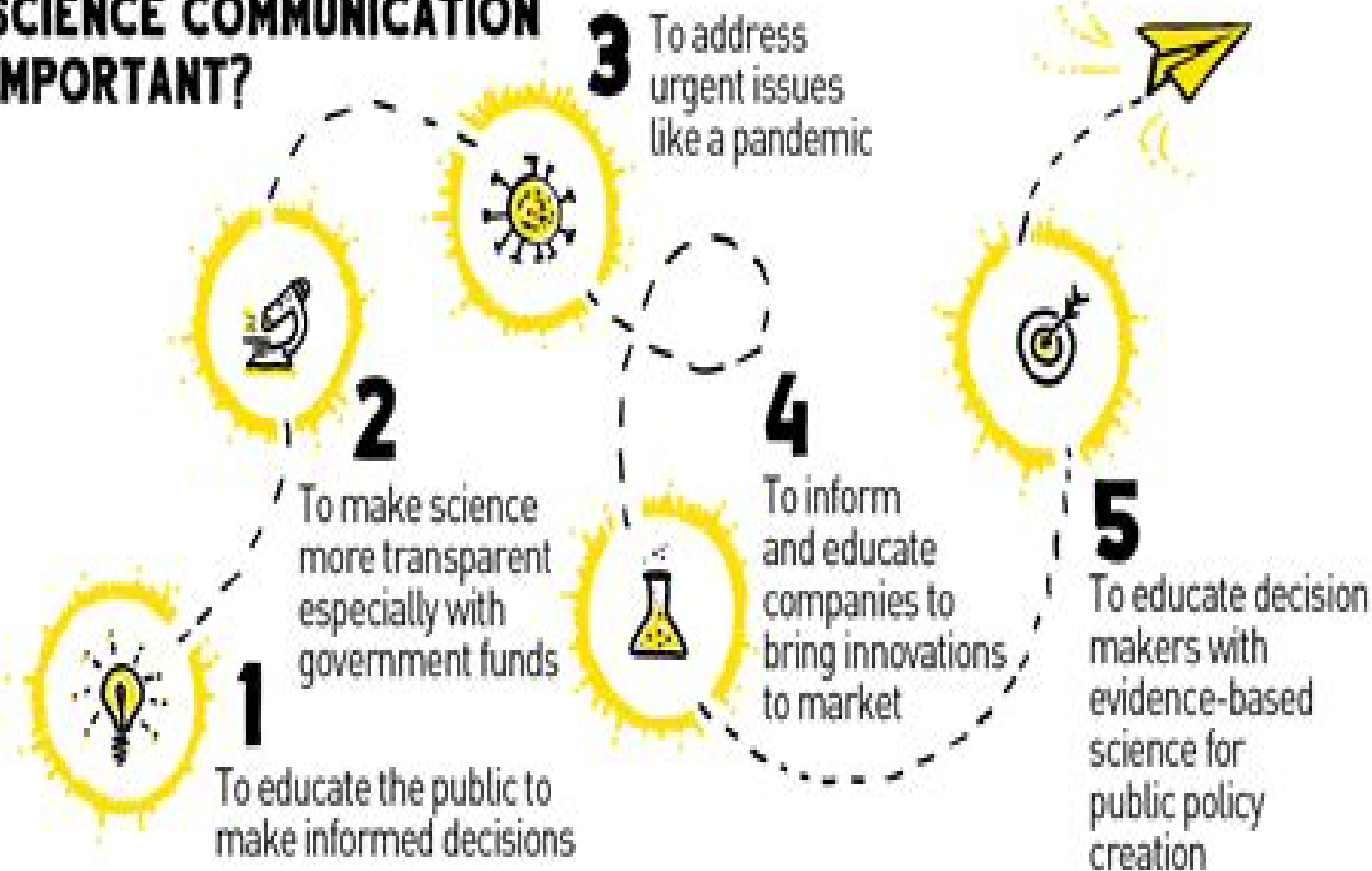


WHY IS GOOD SCIENCE COMMUNICATION IMPORTANT?



Communicating Science Communicating Science

Leo Tan Wee Hin, R. Subramaniam



Communicating Science Communicating Science:

The Science of Communicating Science Craig Cormick, 2019-11-01 Are you wishing you knew how to better communicate science without having to read several hundred academic papers and books on the topic Luckily Dr Craig Cormick has done this for you This highly readable and entertaining book distils best practice research on science communication into accessible chapters supported by case studies and examples With practical advice on everything from messages and metaphors to metrics and ethics you will learn what the public think about science and why and how to shape scientific research into a story that will influence beliefs behaviours and policies **Communicating Science** Alan G. Gross, Joseph E. Harmon, Michael S. Reidy, 2002-04-11 This book describes the development of the scientific article from its modest beginnings to the global phenomenon that it has become today Their analysis of a large sample of texts in French English and German focuses on the changes in the style organization and argumentative structure of scientific communication over time They also speculate on the future currency of the scientific article as it enters the era of the World Wide Web This book is an outstanding resource text in the rhetoric of science and will stand as the definitive study on the topic **Communicating Science in Social Contexts** Donghong Cheng, Michel Claessens, Nicholas R. J. Gascoigne, Jenni Metcalfe, Bernard Schiele, Shunke Shi, 2008-07-15 Science communication as a multidisciplinary field has developed remarkably in recent years It is now a distinct and exceedingly dynamic science that melds theoretical approaches with practical experience Formerly well established theoretical models now seem out of step with the social reality of the sciences and the previously clear cut delineations and interacting domains between cultural fields have blurred *Communicating Science in Social Contexts* examines that shift which itself depicts a profound recomposition of knowledge fields activities and dissemination practices and the value accorded to science and technology *Communicating Science in Social Contexts* is the product of long term effort that would not have been possible without the research and expertise of the Public Communication of Science and Technology PCST Network and the editors For nearly 20 years this informal international network has been organizing events and forums for discussion of the public communication of science *Communicating Science* Holly Menninger, Robert Gropp, 2008 **Communicating Science Effectively** National Academies of Sciences, Engineering, and Medicine, Division of Behavioral and Social Sciences and Education, Committee on the Science of Science Communication: A Research Agenda, 2017-03-08 Science and technology are embedded in virtually every aspect of modern life As a result people face an increasing need to integrate information from science with their personal values and other considerations as they make important life decisions about medical care the safety of foods what to do about climate change and many other issues *Communicating science effectively* however is a complex task and an acquired skill Moreover the approaches to communicating science that will be most effective for specific audiences and circumstances are not obvious Fortunately there is an expanding science base from diverse disciplines that can support science communicators in making these

determinations *Communicating Science Effectively* offers a research agenda for science communicators and researchers seeking to apply this research and fill gaps in knowledge about how to communicate effectively about science focusing in particular on issues that are contentious in the public sphere To inform this research agenda this publication identifies important influences psychological economic political social cultural and media related on how science related to such issues is understood perceived and used

Communicating Science Toss Gascoigne, Bernard Schiele, Joan Leach, Michelle Riedlinger, Luisa Massarani, Bruce V. Lewenstein, Peter Broks, 2020-09-14 Modern science communication has emerged in the twentieth century as a field of study a body of practice and a profession and it is a practice with deep historical roots We have seen the birth of interactive science centres the first university actions in teaching and conducting research and a sharp growth in employment of science communicators This collection charts the emergence of modern science communication across the world This is the first volume to map investment around the globe in science centres university courses and research publications and conferences as well as tell the national stories of science communication How did it all begin How has development varied from one country to another What motivated governments institutions and people to see science communication as an answer to questions of the social place of science *Communicating Science* describes the pathways followed by 39 different countries All continents and many cultures are represented For some countries this is the first time that their science communication story has been told

Communicating Science Nicholas Russell, 2010 Ideal for students and practitioners in science engineering and medicine this book gives an insight into science s place in society

The Chicago Guide to Communicating Science Scott L. Montgomery, 2017-02-21 Enhanced with approximately 100 additional pages this second edition is a testament to the success of the first one Choice For more than a decade *The Chicago Guide to Communicating Science* has been the go to reference for anyone who needs to write or speak about their research Whether it s a student writing a thesis a faculty member composing a grant proposal or a public information officer crafting a press release Scott Montgomery s advice is perfectly adaptable to any scientific writer s needs This new edition has been thoroughly revised to address crucial issues in the changing landscape of scientific communication with an increased focus on those writers working in corporate settings government and nonprofit organizations as well as academia Half a dozen new chapters tackle the evolving needs and paths of scientific writers These sections address plagiarism and fraud writing graduate theses translating scientific material communicating science to the public and the increasing globalization of research Through solid examples and concrete advice Montgomery helps scientists develop their own voice and become stronger communicators He also addresses the roles of media and the public in scientific attitudes and offers advice for those whose research concerns controversial issues such as climate change or emerging viruses Today communicators must move seamlessly among platforms and styles *The Chicago Guide to Communicating Science* helps scientists and researchers expertly connect with their audiences no matter the medium

Understanding and Communicating Science LeeAnn

Kahlor, Patricia Stout, 2009-11-13 Science communication has become increasingly popular in journalism and mass communication as the media offer more scientific and technological information to the public This volume explores the evolution of science communication addressing key issues and offering substance for future study Harnessing the energies of junior scholars on the forefront of science communication this work pushes the boundaries of research forward allowing scholars to sample the multiple paradigms and agendas that will play a role in shaping the future of science communication Editors LeeAnn Kahlor and Patricia Communicating Science: A Practical Guide For Engineers And Physical Scientists Edith S Boxman, Reuven (Raymond) L Boxman, 2016-12-28 The book under review is indeed a guide and a practical one too but it is not only for engineers and physical scientists it is useful to all those who communicate technical information or need to and want to do the job well The book achieves the objectives every PhD student may not want to read the book but should and will not regret it European Science Editing Read this book before you write your thesis or journal paper Communicating Science is a textbook and reference on scientific writing oriented primarily at researchers in the physical sciences and engineering It is written from the perspective of an experienced researcher It draws on the authors experience of teaching and working with both native English speakers and English as a Second Language ESL writers For the range of topics covered this book is relatively short and tersely written in order to appeal to busy researchers Graduate students and early career researchers will be guided through the researcher s basic communication tasks writing theses journal papers and internal reports presenting lectures and posters and preparing research proposals Extensive best practice examples and analyses of common problems are presented Advanced researchers who aim to commercialize their research results will be introduced to business plans and patents so that they can communicate optimally with patent attorneys and business analysts Likewise advanced researchers will be assisted in conveying the results of their research to the industrial and business community governmental circles and the general public in the chapter on popular media Researchers at all levels will find the chapter on CV s and job hunting helpful The Writing Well chapter will assist researchers to improve their English usage in scientific writing This chapter is oriented both at native English speakers who have an intuitive command of English but often lack formal instruction on grammar and structure and non native English writers who often have had formal instruction but lack intuitive grasp of what sounds good Mentors will find the book a useful tool for systematically guiding their students in their early writing efforts If your students read this book first you will save time Communicating Science may serve as a textbook for graduate level courses in scientific writing **Communicating Science in Times of Crisis** H. Dan O'Hair, Mary John O'Hair, 2021-07-06 Learn more about how people communicate during crises with this insightful collection of resources In Communicating Science in Times of Crisis COVID 19 Pandemic distinguished academics and editors H Dan O Hair and Mary John O Hair have delivered an insightful collection of resources designed to shed light on the implications of attempting to communicate science to the public in times of crisis Using the recent and ongoing coronavirus outbreak as a

case study the authors explain how to balance scientific findings with social and cultural issues the ability of media to facilitate science and mitigate the impact of adverse events and the ethical repercussions of communication during unpredictable ongoing events The first volume in a set of two Communicating Science in Times of Crisis COVID 19 Pandemic isolates a particular issue or concern in each chapter and exposes the difficult choices and processes facing communicators in times of crisis or upheaval The book connects scientific issues with public policy and creates a coherent fabric across several communication studies and disciplines The subjects addressed include A detailed background discussion of historical medical crises and how they were handled by the scientific and political communities of the time Cognitive and emotional responses to communications during a crisis Social media communication during a crisis and the use of social media by authority figures during crises Communications about health care related subjects Data strategies undertaken by people in authority during the coronavirus crisis Perfect for communication scholars and researchers who focus on media and communication Communicating Science in Times of Crisis COVID 19 Pandemic also has a place on the bookshelves of those who specialize in particular aspects of the contexts raised in each of the chapters social media communication public policy and health care

Communication and Engagement with Science and Technology John K. Gilbert, Susan M. Stockmayer, 2012-11-27 Science communication seeks to engage individuals and groups with evidence based information about the nature outcomes and social consequences of science and technology This text provides an overview of this burgeoning field the issues with which it deals important influences that affect it the challenges that it faces It introduces readers to the research based literature about science communication and shows how it relates to actual or potential practice A Further Exploration section provides suggestions for activities that readers might do to explore the issues raised Organized around five themes each chapter addresses a different aspect of science communication Models of science communication theory into practice Challenges in communicating science Major themes in science communication Informal learning Communication of contemporary issues in science and society Relevant for all those interested in and concerned about current issues and developments in science communication this volume is an ideal text for courses and a must have resource for faculty students and professionals in this field

Science Communication: #SciComm - Communicating Science in a Media Age Roger A. Harris, 2017-09-13 A guide to understanding the media world and advice for science communicators This book has been written for scientists and those who work in STEM to help them understand the media world and to give practical advice on how to communicate complex subjects to the public

The Science of Science Communication III National Academy of Sciences, 2018-05-01 Successful scientists must be effective communicators within their professions Without those skills they could not write papers and funding proposals give talks and field questions or teach classes and mentor students However communicating with audiences outside their profession people who may not share scientists interests technical background cultural assumptions and modes of expression presents different challenges and requires

additional skills Communication about science in political or social settings differs from discourse within a scientific discipline Not only are scientists just one of many stakeholders vying for access to the public agenda but the political debates surrounding science and its applications may sometimes confront scientists with unfamiliar and uncomfortable discussions involving religious values partisan interests and even the trustworthiness of science The Science of Science Communication III Inspiring Novel Collaborations and Building Capacity summarizes the presentations and discussions from a Sackler Colloquium convened in November 2017 This event used Communicating Science Effectively as a framework for examining how one might apply its lessons to research and practice It considered opportunities for creating and applying the science along with the barriers to doing so such as the incentive systems in academic institutions and the perils of communicating science in polarized environments Special attention was given to the organization and infrastructure necessary for building capacity in science communication

Communicating Science Pierre Laszlo, 2007-05-16 Have you new and interesting or even outstanding scientific results that you want to be recognized by your scientific colleagues or be understood by the public Or do you want to address decision makers to change their minds Then Laszlo's Communicating Science may be the book to consult It has two main parts corresponding to the type of communication task at hand addressing peers and the general public plus a third briefer section on how to inform decision makers Each of the main parts is subdivided into two sections Guidelines and Genres with entries arranged in alphabetical order The guidelines are devoted to entries such as acronyms active or passive voice body language figures and captions introduction irony and taking the floor Within genres all possible media of communicating science are treated e g the after dinner speech conference presentation keynote lecture magazine article research proposal and teleconference Laszlo a professional scientist had a career embracing both academia and industrial consulting He has extensive experience in authoring and editing papers books and popular science books and conveys his skills as a communicator in this concise guide The book is geared to engineers and scientists educators and journalists science administrators and the medical profession editors and publishers whether native or non native speakers in short to anyone having to convert scientific data into an easily intelligible and interesting narrative

Communicating Science to the Public David Evered, Maeve O'Connor, 1987-08-10 We live in a rapidly changing world in which science and technology influence the quality of our lives for better or worse An understanding of science is therefore important for all of us yet the general level of scientific literacy is low

Communicating Science to the Public Leo Tan Wee Hin, R. Subramaniam, 2014-07-24 This book explores effective approaches for communicating science to the public in developing countries Offering multiple perspectives on this important topic it features 17 chapters that represent the efforts of 23 authors from eight countries Australia Bangladesh India Ireland New Zealand USA Singapore and South Africa Inside readers will find a diversity of approaches to communicate science to the public The book also highlights some of the challenges that science communicators science policy makers science teachers university academics in the sciences and even

entrepreneurs may face in their attempts to boost science literacy levels in their countries In addition it shares several best practices from the developed world that may help readers create communication initiatives that can lead to increased engagement with science in communities in the Asia Pacific region and beyond Given the pervasive influence of science and technology in today s society their impact will only increase in the years to come as the world becomes more globalized and the economies of countries become more inter linked This book will be a useful source of reference for developing countries looking to tap into the potential of science for nation building and effectively engage their communities to better understand science and technology Supported by the Pacific Science Association Hawaii Communicating Science Roy Jensen,2016-02

Communicating Science provides students with a foundation for writing reviewing and presenting scientific information Topics include grammar presenting scientific information learning theory research methodology preparing scientific documents for scientific and public audiences editing and peer review Boojums All the Way Through N. David Mermin,1990-03-15

Boojums All the Way Through is a collection of essays that deals in a variety of ways with the problem of communicating modern physics to both physicists and non physicists The author is Professor David Mermin a well known theoretical physicist who recently won the first Julius Edgar Lileinfeld prize of the American Physical Society for his remarkable clarity and wit as a lecturer to nonspecialists on difficult subjects David Mermin s wry humour is clearly apparent in most of these articles but even those that are more serious are characterized by a liveliness and commitment to finding startlingly simple ways of presenting ideas that are traditionally regarded as complex This book will appeal to physicists at all levels to mathematicians scientists and engineers and indeed to anyone who enjoys reading non technical accounts of new ways of looking at modern science Communicating Science /ed. by Eileen Scanlon ... Eileen Scanlon,Roger Hill,Kirk Junker,1999

The book delves into Communicating Science Communicating Science. Communicating Science Communicating Science is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Communicating Science Communicating Science, encompassing both the fundamentals and more intricate discussions.

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