



# responsible science

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# Responsible Science

**Anne Hudson Jones, Faith McLellan**



## **Responsible Science:**

Responsible Science Institute of Medicine, National Academy of Engineering, National Academy of Sciences, Committee on Science, Engineering, and Public Policy, Panel on Scientific Responsibility and the Conduct of Research, 1993-02-01 Volume II of Responsible Science includes background papers and selected institutional reports policies and procedures that were used to develop Volume I Topics discussed include traditions of mentorship in science data handling practices in the biological sciences academic policies and standards governing the conduct of research practices congressional interest in issues of misconduct and integrity in science the regulatory experience of human subjects research and the roles of scientific and engineering societies in fostering research integrity The panel also considers numerous institutional policy statements adopted by research universities and professional societies that address different aspects of misconduct or integrity in science These statements have been selected to convey the diverse approaches for addressing such matters within research institutions

*Responsible Science, Volume I:* National Academy of Sciences, National Academy of Engineering, Institute of Medicine, Panel on Scientific Responsibility and the Conduct of Research, National Academy of Engineering, National Academy of Sciences, Institute of Medicine, 1992-01-01 Responsible Science is a comprehensive review of factors that influence the integrity of the research process Volume I examines reports on the incidence of misconduct in science and reviews institutional and governmental efforts to handle cases of misconduct The result of a two year study by a panel of experts convened by the National Academy of Sciences this book critically analyzes the impact of today's research environment on the traditional checks and balances that foster integrity in science Responsible Science is a provocative examination of the role of educational efforts research guidelines and the contributions of individual scientists mentors and institutional officials in encouraging responsible research practices

**Responsible Science, Volume I** Panel on Scientific Responsibility and the Conduct of Research, National Academy of Sciences, National Academy of Engineering, Institute of Medicine, Institute of Medicine, National Academy of Sciences, National Academy of Engineering, 1992-01-15 Responsible Science is a comprehensive review of factors that influence the integrity of the research process Volume I examines reports on the incidence of misconduct in science and reviews institutional and governmental efforts to handle cases of misconduct The result of a two year study by a panel of experts convened by the National Academy of Sciences this book critically analyzes the impact of today's research environment on the traditional checks and balances that foster integrity in science Responsible Science is a provocative examination of the role of educational efforts research guidelines and the contributions of individual scientists mentors and institutional officials in encouraging responsible research practices

Responsible Science Panel on Scientific Responsibility and the Conduct of Research, 1992 Responsible Science is a comprehensive review of factors that influence the integrity of the research process Volume I examines reports on the incidence of misconduct in science and reviews institutional and governmental efforts to handle cases of misconduct The result of a two year study by a

panel of experts convened by the National Academy of Sciences this book critically analyzes the impact of today's research environment on the traditional checks and balances that foster integrity in science Responsible Science is a provocative examination of the role of educational efforts research guidelines and the contributions of individual scientists mentors and institutional officials in encouraging responsible research practices

**Bending Science** Thomas O. McGarity, Wendy E. Wagner, 2012-03-15 What do we know about the possible poisons that industrial technologies leave in our air and water How reliable is the science that federal regulators and legislators use to protect the public from dangerous products As this disturbing book shows ideological or economic attacks on research are part of an extensive pattern of abuse Thomas O McGarity and Wendy E Wagner reveal the range of sophisticated legal and financial tactics political and corporate advocates use to discredit or suppress research on potential human health hazards Scientists can find their research blocked or find themselves threatened with financial ruin Corporations plaintiff attorneys think tanks even government agencies have been caught suppressing or distorting research on the safety of chemical products With alarming stories drawn from the public record McGarity and Wagner describe how advocates attempt to bend science or spin findings They reveal an immense range of tools available to shrewd partisans determined to manipulate research Bending Science exposes an astonishing pattern of corruption and makes a compelling case for reforms to safeguard both the integrity of science and the public health

**CBRN Security Culture in Practice** J. Thompson, S. Gahlaut, 2015-09-03 Evolving threats of chemical biological radiological and nuclear CBRN attack make it imperative to find ways to support global efforts against the proliferation of weapons of mass destruction WMD and terrorism This book contains papers presented at the NATO Advanced Study Institute ASI on CBRN security culture held in Yerevan Armenia in June 2014 The conference was timely in bringing together the various aspects of security culture in the different substantive areas from a CBRN perspective focusing efforts to advance CBRN security culture in the everyday work of those who must deal with these ever present threats The primary aim of the conference was to promote the concept of a CBRN security culture which recognizes synergy across the individual disciplines As a first step in the practical application of this synergistic view the conference introduced assessment methodologies that could be refined and customized to enhance the role of the human factor in CBRN security This we hope will enable countries to fulfill their international obligations and implement United Nations Security Council Resolution 1540 The book reflects the presentations and deliberations of workshop participants and will be of interest to governments international organizations researchers and practitioners whose work involves the human dimension of the security of CBRN materials

*Practical Guidance on Science and Engineering Ethics Education for Instructors and Administrators* National Academy of Engineering, Online Ethics Center, Joint Advisory Group to the Center for Engineering, Ethics, and Society, 2013-09-23 Over the last two decades colleges and universities in the United States have significantly increased the formal ethics instruction they provide in science and engineering Today science and engineering programs socialize students into the values of

scientists and engineers as well as their obligations in the conduct of scientific research and in the practice of engineering

**Practical Guidance on Science and Engineering Ethics Education for Instructors and Administrators** is the summary of a workshop convened in December 2012 to consider best practices for ethics education programs in science and engineering. The workshop focused on four key areas: goals and objectives for ethics instruction, instructional assessment, institutional and research cultures, and development of guidance checklists for instructors and administrators. Leading experts summarized and presented papers on current research knowledge in these areas. This report presents the edited papers and a summary of the discussions at the workshop.

**Philosophy of Science after Feminism** Janet A. Kourany, 2010-10-28. The goal of *Philosophy of Science after Feminism* is a more socially engaged and socially responsible philosophy of science than what we have now.

**The Ethical Dimensions of the Biological and Health Sciences** Ruth Ellen Bulger, Elizabeth Heitman, Stanley Joel Reiser, 2002-06-24. This is the second edition of a highly successful and well received textbook on the responsible conduct of biomedical and health science research. It is aimed at faculty and graduate students in health science and biomedical science programs. In addition, those on National Institute of Health research grants, administrators at universities, academic health centers, and medical and graduate schools will find the book a useful resource. The structure of the book remains the same as the first edition. Each chapter offers an overview together with important primary documents and case studies concerned with core ethical issues underlying responsible research. The major changes from the first edition include new chapters providing overviews of each topic, several new published articles added to the readings, revised case studies along with an essay on how they can be used as well as further readings and web addresses that will serve as invaluable sources of reference.

**Handbook of Research on Science Education, Volume II** Norman G. Lederman, Sandra K. Abell, 2014-07-11. Building on the foundation set in Volume I, a landmark synthesis of research in the field, Volume II is a comprehensive state of the art, new volume highlighting new and emerging research perspectives. The contributors, all experts in their research areas, represent the international and gender diversity in the science education research community. The volume is organized around six themes: theory and methods of science education research, science learning, culture, gender and society, and science learning, science teaching, curriculum, and assessment in science. Each chapter presents an integrative review of the research on the topic, pulling together the existing research, working to understand the historical trends and patterns in that body of scholarship, describing how the issue is conceptualized within the literature, how methods and theories have shaped the outcomes of the research, and where the strengths, weaknesses, and gaps are in the literature. Providing guidance to science education faculty and graduate students and leading to new insights and directions for future research, the *Handbook of Research on Science Education, Volume II* is an essential resource for the entire science education community.

**Evidence Matters** Susan Haack, 2014-07-28. Susan Haack brings her distinctive work in theory of knowledge and philosophy of science to bear on real life legal issues.

**Research Administration and Management** Elliott

Kulakowski, Lynne U. Chronister, 2006 This reference text addresses the basic knowledge of research administration and management and includes everything from a review of research administration and the infrastructure that is necessary to support research to project development and post project plans Examples of concepts case studies a glossary of terms and acronyms and references to books journal articles monographs and federal regulations are also included *Ethical Issues in Biomedical Publication* Anne Hudson Jones, Faith McLellan, 2003-05-01 When the editors of two of the most prominent medical journals in the world the New England Journal of Medicine and the Journal of the American Medical Association JAMA were fired in the same year under circumstances that ranged from acrimonious to politically sensational media attention again focused on biomedical publication The controversy highlighted yet another ethical dimension of scientific research and its publication topics that have generated intense scrutiny in recent years As research funding has become scarcer and competition fiercer with links between scientific discovery and commercial applications increasingly tighter and more lucrative allegations of misconduct have also increased Universities and research institutions notably the NIH have created offices of scientific integrity and mandated educational programs to investigate such allegations and to train researchers in the highest standards of sound ethical scientific research Focusing on publication ethics as an essential aspect of responsible scientific conduct *Ethical Issues in Biomedical Publication* examines a variety of troublesome issues including authorship peer review repetitive publication conflict of interest and electronic publishing The contributors include the editors of distinguished biomedical journals among them past or present editors of Academic Medicine Annals of Internal Medicine British Medical Journal JAMA and the Lancet humanities scholars scientists lawyers and a university administrator Chapters address specific ethical issues and offer recommendations for preventing or solving problems associated with them The result is a book that will serve as a standard reference for biomedical researchers authors editors and teachers of research ethics Educators administrators scientists editors and students should all welcome this comprehensive new book Anne Hudson Jones and Faith McLellan have gathered a veritable who's who in the field of publication ethics for biomedical research All those with a stake in biomedical research will surely want this volume on their bookshelf from the Foreword by Jordan J Cohen M D President Association of American Medical Colleges *Technocracy and the Law* Alessandra Arcuri, Florin Coman-Kund, 2021-05-27 Technocratic law and governance is under fire Not only populist movements have challenged experts NGOs public intellectuals and some academics have also criticized the too close relation between experts and power While the amount of power gained by experts may be contested it is unlikely and arguably undesirable that experts will cease to play an influential role in contemporary regulatory regimes This book focuses on whether and how experts involved in policymaking can and should be held accountable The book divided into four parts combines theoretical analysis with a wide variety of case studies expounding the challenges of holding experts accountable in a multilevel setting Part I offers new perspectives on accountability of experts including a critical comparison between accountability and a

virtue ethical framework for experts a reconceptualization of accountability through the rule of law prism and a discussion of different ways to operationalize expert accountability Parts I IV organized around in depth case studies shed light on the accountability of experts in three high profile areas for technocratic governance in a European and global context economic and financial governance environmental health and safety governance and the governance of digitization and data protection By offering fresh insights into the manifold aspects of technocratic decisionmaking and suggesting new avenues for rethinking expert accountability within multilevel governance this book will be of great value not only to students and scholars in international and EU law political science public administration science and technology studies but also to professionals working within EU institutions and international organizations

*AMA Manual of Style* The JAMA Network Editors,2019-11-01 The AMA Manual of Style is a must have resource for anyone involved in medical health and scientific publishing Written by an expert committee of JAMA Network editors this latest edition addresses issues that face authors editors and publishers in the digital age Extensive updates are included in the References chapter with examples of how to cite digital publications preprints databases data repositories podcasts apps and interactive games and social media Full color examples grace the chapter on data display with newer types of graphic presentations and updated guidance on formatting tables and figures The manual thoroughly covers ethical and legal issues such as authorship conflicts of interest scientific misconduct intellectual property open access and public access and corrections The Usage chapter has been revised to bring the manual up to date on word choice especially in writing about individuals with diseases or conditions and from various socioeconomic racial ethnic and sexual orientation populations Specific nomenclature entries in many disciplines are presented to guide users in issues of diction formatting and preferred terminology Guidance on numbers SI units and math has been updated and the section on statistics and study design has undergone a major expansion In sum the answer to nearly any issue facing a writer or editor in medicine health care and related disciplines can be found in the 11th edition of the AMA Manual of Style Available for institutional purchase or subscription or individual subscription Visit [AMAManualofStyle.com](http://AMAManualofStyle.com) or contact your sales rep for more details

*Future Earth* Diana Dalbotten,Gillian Roehrig,Patrick Hamilton,2014-04-08 Earth now is dominated by both biogeophysical and anthropogenic processes as represented in these two images from a simulation of aerosols Dust red from the Sahara sweeps west across the Atlantic Ocean Sea salt blue rises into the atmosphere from winds over the North Atlantic and from a tropical cyclone in the Indian Ocean Organic and black carbon green from biomass burning is notable over the Amazon and Southeast Asia Plumes of sulfate white from fossil fuel burning are particularly prominent over northeastern North America and East Asia If present trends of dust emissions and fossil fuel burning continues in what we call the Anthropocene epoch then we could experience high atmospheric CO<sub>2</sub> levels leading to unusual warming rarely experienced in Earth s history This book focuses on human influences on land ocean and the atmosphere to determine if human activities are operating within or beyond the safe zones of our planet s biological

chemical and physical systems Volume highlights include Assessment of civic understanding of Earth and its future Understanding the role of undergraduate geoscience research and community driven research on the Anthropocene Effective communication of science to a broader audience that would include the public the K 12 science community or populations underrepresented in the sciences Public outreach on climate education geoscience alliance and scientific reasoning Future Earth is a valuable practical guide for scientists from all disciplines including geoscientists museum curators science educators and public policy makers

**Methods and Applications of Statistics in Clinical Trials, Volume 1**

Narayanaswamy Balakrishnan, 2014-03-05 A complete guide to the key statistical concepts essential for the design and construction of clinical trials As the newest major resource in the field of medical research Methods and Applications of Statistics in Clinical Trials Volume 1 Concepts Principles Trials and Designs presents a timely and authoritative review of the central statistical concepts used to build clinical trials that obtain the best results The reference unveils modern approaches vital to understanding creating and evaluating data obtained throughout the various stages of clinical trial design and analysis Accessible and comprehensive the first volume in a two part set includes newly written articles as well as established literature from the Wiley Encyclopedia of Clinical Trials Illustrating a variety of statistical concepts and principles such as longitudinal data missing data covariates biased coin randomization repeated measurements and simple randomization the book also provides in depth coverage of the various trial designs found within phase I IV trials Methods and Applications of Statistics in Clinical Trials Volume 1 Concepts Principles Trials and Designs also features Detailed chapters on the type of trial designs such as adaptive crossover group randomized multicenter non inferiority non randomized open labeled preference prevention and superiority trials Over 100 contributions from leading academics researchers and practitioners An exploration of ongoing cutting edge clinical trials on early cancer and heart disease mother to child human immunodeficiency virus transmission trials and the AIDS Clinical Trials Group Methods and Applications of Statistics in Clinical Trials Volume 1 Concepts Principles Trials and Designs is an excellent reference for researchers practitioners and students in the fields of clinical trials pharmaceuticals biostatistics medical research design biology biomedicine epidemiology and public health

Preventing Chemical Weapons Michael Crowley, Malcolm Dando, Lijun Shang, 2018-08-20 The life and chemical sciences are in the midst of a period of rapid and revolutionary transformation that will undoubtedly bring societal benefits but also have potentially malign applications notably in the development of chemical weapons Such concerns are exacerbated by the unstable international security environment and the changing nature of armed conflict which could fuel a desire by certain States to retain and use existing chemical weapons as well as increase State interest in creating new weapons whilst a broader range of actors may seek to employ diverse toxic chemicals as improvised weapons Stark indications of the multi faceted dangers we face can be seen in the chemical weapons attacks against civilians and combatants in Iraq and Syria and also in more targeted chemical assassination operations in Malaysia and the UK Using a multi disciplinary approach and



drawing upon an international group of experts this book analyses current and likely near future advances in relevant science and technology assessing the risks of their misuse The book examines the current capabilities limitations and failures of the existing international arms control and disarmament architecture notably the Chemical Weapons Convention in preventing the development and use of chemical weapons Through the employment of a novel Holistic Arms Control methodology the authors also look beyond the bounds of such treaties to explore the full range of international law international agreements and regulatory mechanisms potentially applicable to weapons employing toxic chemical agents in order to develop recommendations for more effective routes to combat their proliferation and misuse A particular emphasis is given to the roles that chemical and life scientists health professionals and wider informed activist civil society can play in protecting the prohibition against poison and chemical weapons and in working with States to build effective and responsive measures to ensure that the rapid scientific and technological advances are safeguarded from hostile use and are instead employed for the benefit of us all

Civic Engagement in Higher Education Institutions in Europe Karl-Heinz Gerholz, 2018-06-19 Over the last decade the concept of Civic Engagement in Higher Education Institutions HEI has led to lively discussions This special issue about Civic Engagement in HEI in Europe presents workshop reports and scientific papers which have an implicit statement in common we need to talk concrete and analytical about Civic Engagement activities approaches and programs on a European and national level without celebrating only normative beliefs and visions Furthermore the contributions describe the starting point of a new field of empirical and theory oriented research

*New and Forthcoming Books* National Academy Press (U.S.), 1993

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