

**Liora Salter**

# **MANDATED SCIENCE**

**Science and Scientists  
in the Making of Standards**

**Kluwer Academic Publishers**

# Mandated Science

**L. Salter, W. Leiss, Edwin Levy**



## **Mandated Science:**

*Mandated Science: Science and Scientists in the Making of Standards* L. Salter, W. Leiss, Edwin Levy, 2012-12-06 For a long time I would not eat strawberries In 1977 a scandal broke about a testing laboratory having falsified the data that was used to register a large number of pesticides The Canadian government along with several others began the process of re evaluating both the procedures for testing and these specific chemicals One chemical proved particularly controversial the commonly used pesticide named captan In light of the controversy which was manifest in a conflict between two government departments in 1981 the Canadian government chose to appoint a special panel of experts to advise them I was a member of this expert committee The experience on the captan committee did little to reassure me either about captan or about the way that decisions had been made about many pesticides in widespread use Although it could not be demonstrated that captan was dangerous to people in the amounts to which they would likely be exposed the animal studies provided the basis for concern Prudence required at the very least that consumers take the precaution of washing their fruit for captan is widely used on apples cherries and berry fruits Captan residues wash off apples relatively easily they are less easily removed from berry fruits such as straw berries

**Global Environmental Risk** Jeanne X. Kasperson, Roger E. Kasperson, 2013-05-13 Despite international initiatives such as the Earth Summit in 1992 and ongoing efforts to implement the Kyoto Protocol human activities continue to register a destructive toll on the planetary environment At root research on global environmental risk seeks new pathways for reversing unsustainable trends curtailing ongoing destructive activities and creating a life sustaining planet This book takes stock of the distinctive challenges posed by global environmental risks the capacity of knowledge systems to identify and characterize such risks and the competence of human society to manage the unprecedented complexity Particular attention turns on engaging in ways conducive to enhancing social learning and adaptation the large uncertainties inherent in these risks Various chapters enlist different scales of analysis to explore the manifestation and causes of global environmental risks in all the diversity of their regional expression Throughout the editors and contributors accord prominence to the vulnerability of people and places to environmental degradation Understanding vulnerability is a neglected key to assessing the nature of the risks and determining strategies for altering trajectories of threat Global risk futures the editors argue are not intractable and are still amenable to a risk analysis enterprise that is democratic in principle humanistic in concept and geared to the realities that pertain to the particular societies locales and regions that will ultimately bear the risk

**Ideas Under Fire** Jonathan Lavery, Louis Groarke, William Sweet, 2013 Since Aristotle's famous declaration that the speculative sciences originated with the emergence of a leisure class it has been accepted as a truism that intellectual activity requires political stability and leisure in order to flourish Paradoxically however some of the most powerful and influential contributions to Western intellectual culture have been produced in conditions that were adverse indeed hostile to intellectual activity Examples include Socrates stirring defense of the examined life before a

hostile Athenian jury Boethius writing *The Consolation of Philosophy* under the specter of impending torture and execution Galileo devising key notions for modern mechanics while under house arrest and Jean Paul Sartre drafting portions of *Being and Nothingness* in his war diaries to name only a few of the most famous incidents all extraordinary achievements spawned developed or completed in adversity In cases such as these a philosopher or scientist must manage somehow to remain intellectually creative and focused despite living in conditions that are adverse or hostile to thought In brief they are working on ideas under fire This book is a survey of several momentous cases of philosophers and scientists working under fire Each chapter of *Ideas Under Fire* explores a particular case or set of related cases For each case contributors consider two questions How did the individual at the center of a particular moment of discovery overcome such formidable obstacles to leisure and conceptually abstract thought And how did adversity shape their thinking under fire Each chapter has been written by a specialist on its respective subject and the book covers every period of Western history All the chapters are written in an accessible style that is intended to appeal to both specialists and generalists

**Conflicts Between Protected Species and Fisheries** Riku Varjopuro,2003 **An Agenda for a Study of Government Science Policy** ,1985

*Philosophy of Technology* P.T. Durbin,2012-12-06 The corps of philosophers who make up the Society for Philosophy their typing and retyping of the MSS and especially notes and references also contributes to keeping our standards high PAUL T DURBIN vii Paul T Durbin ed *Philosophy of Technology* p vii

**Representations of Nature of Science in School Science Textbooks** Christine V. McDonald,Fouad Abd-El-Khalick,2017-04-21 Bringing together international research on nature of science NOS representations in science textbooks the unique analyses presented in this volume provides a global perspective on NOS from elementary to college level and discusses the practical implications in various regions across the globe Contributing authors highlight the similarities and differences in NOS representations and provide recommendations for future science textbooks This comprehensive analysis is a definitive reference work for the field of science education

*Science in Environmental Policy* Ann Campbell Keller,2009 In the later more structured legislative and implementation phases scientists working hard to give the appearance of neutral expertise cede the role of persuader to others **Value Assumptions in Risk Assessment** Conrad G. Brunk,Lawrence Haworth,Brenda Lee,2006-01-01 Selected by Choice as one of the outstanding publications for 1991 Are risk debates disputes between those who accept the findings of science and those who do not Between good and bad science Or is it possible that opposing assessments of risk by scientific experts as well as ordinary citizens reflect and are guided by dominant values held by the assessors The following analysis of one of these debates supports the latter view In it we suggest what those dominant values are how they work within a risk assessment and some implications of reconceiving risk debates as primarily debates about values *Risk and Responsibility* William Leiss,Christina Chociolko,1994 Controversies over how to manage health and environmental risks are among the most bitter disagreements in contemporary society Trying to determine what is in the public interest is at the heart of these

disagreements but the core concerns of major sectors industry governments and voluntary associations are also at stake In Canada and elsewhere defusing the controversies and finding solutions acceptable to all parties have met with little success Risk and Responsibility attempts to explain why this is so and what might be done about it Science, Politics and Morality R. von Schomberg,2013-06-29 Current environmental problems and technological risks are a challenge for a new institutional arrangement of the value spheres of Science Politics and Morality Distinguished authors from different European countries and America provide a cross disciplinary perspective on the problems of political decision making under the conditions of scientific uncertainty cases from biotechnology and the environmental sciences are discussed The papers collected for this volume address the following themes i controversies about risks and political decision making ii concepts of science for policy iii the use of social science in the policy making process iv ethical problems with developments in science and technology v public and state interests in the development and control of technology

**More Brain-powered Science** Thomas O'Brien,2011 Author Thomas O'Brien uses 20 inquiry oriented discrepant events or hands on explorations or demonstrations in which the outcomes are not what students expect or to challenge students preconceived ideas and urge them to critically examine the empirical evidence draw logical inferences and skeptically review their initial explanations with their peers It is the perfect dual purpose activity book for science teachers who aim to motivate their students while expanding their own scientific understanding

**The Fifth Branch** Sheila Jasanoff,1998-08-19 How can decisionmakers charged with protecting the environment and the public's health and safety steer clear of false and misleading scientific research Is it possible to give scientists a stronger voice in regulatory processes without yielding too much control over policy and how can this be harmonized with democratic values These are just some of the many controversial and timely questions that Sheila Jasanoff asks in this study of the way science advisers shape federal policy In their expanding role as advisers scientists have emerged as a formidable fifth branch of government But even though the growing dependence of regulatory agencies on scientific and technical information has granted scientists a greater influence on public policy opinions differ as to how those contributions should be balanced against other policy concerns More important who should define what counts as good science when all scientific claims incorporate social factors and are subject to negotiation Jasanoff begins by describing some significant failures such as nitrites Love Canal and alar in administrative and judicial decisionmaking that fed the demand for more peer review of regulatory science In analyzing the nature of scientific claims and methods used in policy decisions she draws comparisons with the promises and limitations of peer review in scientific organizations operating outside the regulatory context The discussion of advisory mechanisms draws on the author's close scrutiny of two highly visible federal agencies the Environmental Protection Agency and the Food and Drug Administration Here we see the experts in action as they deliberate on critical issues such as clean air pesticide regulation and the safety of pharmaceuticals and food additives Jasanoff deftly merges legal and institutional analysis with

social studies of science and presents a strong case for procedural reforms In so doing she articulates a social construction model that is intended to buttress the effectiveness of the fifth branch *Controversial Science* Thomas Brante, Steve Fuller, William Lynch, 1993-07-01 This book represents emerging alternative perspectives to the constructivist orthodoxy that currently dominates the field of science and technology studies Various contributions from distinguished Americans and Europeans in the field provide arguments and evidence that it is not enough simply to say that science is socially situated *Controversial Science* focuses on important political ethical and broadly normative considerations that have yet to be given their due but which point to a more realistic and critical perspective on science policy *Measuring the Science and Engineering Enterprise* National Research Council, Committee on National Statistics, Office of Scientific and Engineering Personnel, Committee to Assess the Portfolio of The Division of Science Resources Studies of NSF, 2000-03-14 The science and engineering enterprise has continued to evolve responding over the last decade to increased economic globalization a post cold war military federal budget fluctuations and structural changes in the way science and engineering are conducted and innovations are adopted This report suggests ways to revise the data collection activities of the Science Resources Studies Division SRS of the National Science Foundation to better capture the current realities of R D funding and S E human resources The report s recommendations would improve the relevance of the data on graduate education the labor market for scientists and engineers and the funding and conduct of research and development and thus better meet the data needs of policymakers managers and researchers *Making Sense of Expertise* Reiner Grundmann, 2022-10-24 Current debates about experts are often polarized and based on mistaken assumptions with expertise either defended or denigrated *Making Sense of Expertise* instead proposes a conceptual framework for the study of expertise in order to facilitate a more nuanced understanding of the role of expertise in contemporary society Too often different meanings of experts and expertise are implied without making them explicit Grundmann s approach to expertise is based on a synthesis of approaches that exist in various fields of knowledge The book aims at dispelling much of the confusion by offering a comprehensive and rigorous framework for the study of expertise A series of in depth case studies drawn from contemporary issues including the climate crisis and the COVID 19 pandemic provide the empirical basis of the author s comprehensive approach This thought provoking book will be of great interests to students instructors and researchers in a range of fields in the humanities social sciences and science and technology studies **Outside the Lines** Liora Salter, Alison Hearn, 1997-01-16 Contributors to this collection address the ways in which interdisciplinarity is defined positioned and handled by researchers universities and critics and examine such topics as myths of interdisciplinarity postmodern critiques of interdisciplinarity interdisciplinarity and research grant allocation women s studies Canadian studies environmental studies and emerging disciplines The collection combines a theoretical examination of disciplinarity and interdisciplinarity as forms of knowledge production and organization with practical information about the basic difficulties and conundrums involved in the practice of

interdisciplinary research     *Environmental Health Risks and Public Policy* David V. Bates,1994 How democratic societies discover and deal with such health hazards is the theme of *Environmental Health Risks and Public Policy* Often frightening in its direct recitation of medical evidence always compelling as the work of a medical man deeply concerned with human health it examines the ways in which science and public policy interact sometimes to protect the public sometimes to thwart prompt action     **Science and Social Context** Lisa Nicole Mills,2002 A critical analysis of the intensely controversial recombinant bovine growth hormone     **Values at Sea** Dorinda G. Dallmeyer,2003 The human impact on vast areas of the oceans remains relatively unregulated Sometimes in fact the only controls over our exploitation of marine resources lie in our environmental consciousness While the field of environmental ethics has explored rights and duties for land use stewardship and policy relatively little attention has been given to comparable issues of marine environments *Values at Sea* makes an important step toward moving environmental ethics discussions into a broader framework Gathered here are fifteen papers by an interdisciplinary group of scholars including ethicists marine scientists anthropologists economists geographers lawyers and activists From the Great Lakes to the Pacific Islands from the open sea to coastal areas the papers cover a broad array of ethical issues and policy matters related to such topics as the valuation of marine life indigenous peoples knowledge and environmental stewardship endemic and exotic species aquaculture oil spills and species protection

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