

David Suzuki  
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the **BIG**  
PICTURE

reflections on science,  
humanity, and a quickly  
changing planet



# Reflections On Big Science

**Martin L. Perl**



## **Reflections On Big Science:**

**Reflections on Big Science** Alvin M. Weinberg, 1968 Alvin M Weinberg has played a key role in scientific developments of the 20th century In 1941 he joined the University of Chicago group that developed the first chain reactor As a member of this team he worked on the reactor that produced the plutonium that would ultimately be used for the bomb dropped on Nagasaki Japan He served as director of ORAU s Institute for Energy Analysis IEA which pioneered investigations of the greenhouse effect alternate energy sources and maximizing energy sources at minimum cost to the economy and the environment Throughout his career Weinberg has been a leading figure in the development of nuclear energy Among his accomplishments was the proposal to use pressurized water for nuclear submarine propulsion Weinberg has been recognized many times winning the Atoms for Peace Award the Harvey Prize the Heinrich Award and the Fermi Award He is a member of the National Academy of Sciences the National Academy of Engineering the American Academy of Arts and Sciences the American Philosophical Society and a Foreign Member of the Royal Netherlands Academy of Sciences In addition to his writings concerning scientific and administrative works he is also a prolific writer on the interaction between modern technology and society He has coined many phrases that have become part of our everyday language big science technological fix and faustian bargain are just a few examples May of his earlier essays are published in this book **Reflections on Big Science** These essays treat a number of acute or chronic problems and many prescribe remedies Included are considerations of the population expansion and the concomitant expansion of energy and information the new social structures built by the new technology the effects of the organization and financing of Big Science on the nature of scientific inquiry the potential contribution of the federal laboratories to science education and the role of the scientist which is distinct from and as vital as the role of the documentalist is closing the Information Gap

**Reflections on Big Science** Alvin M. Weinberg, 1968-07-01 A gathering of essays answering fundamental questions about the changes in science by one of its keenest observers

**Bulletin of the Atomic Scientists** , 1968-05 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world

**Reflections on Experimental Science** Martin L. Perl, 1996 This is a collection of important lecture and original articles and commentaries by Martin Perl discoverer of the tau lepton and the third generation of elementary particles and this year s Nobel Prize winner This book contains a fascinating and realistic picture of experimental science based on the high energy physics research work carried out by him Using reprints of his articles with his commentaries the author presents the various aspects of experimental research in science the pleasures and risks of experimental work the pain and frustration with experiments that are useless or fail the dreaming about experiments that were not carried out the constant search for innovation and creativity in the work and the special joy of discovery The articles and commentaries range from the early days of bubble chambers and spark

chambers in the 1950 s to the author s present research experiments at an electron positron collider and a search for free quarks The book is for the general reader as well as the scientist      History of Science in United States Marc Rothenberg,2012-10-12 This Encyclopedia examines all aspects of the history of science in the United States with a special emphasis placed on the historiography of science in America It can be used by students general readers scientists or anyone interested in the facts relating to the development of science in the United States Special emphasis is placed in the history of medicine and technology and on the relationship between science and technology and science and medicine      **The Neutron's Children** Sean F. Johnston,2012-04-26 The first nuclear engineers emerged from the Manhattan Project in the USA UK and Canada but remained hidden behind security for a further decade Cosseted and cloistered by their governments they worked to explore applications of atomic energy at a handful of national labs This unique bottom up history traces how the identities of these unusually voiceless experts forming a uniquely state managed discipline were shaped in the context of pre war nuclear physics wartime industrial management post war politics and utopian energy programmes Even after their eventual emergence at universities and companies nuclear workers carried the enduring legacy of their origins Their shared experiences shaped not only their identities but our collective memories of the late twentieth century And as illustrated by the Fukushima accident seven decades after the Manhattan project began this book explains why they are still seen conflictly as selfless heroes or as mistrusted guardians of a malevolent genie      Discerning Experts Michael Oppenheimer,Naomi Oreskes,Dale Jamieson,Keynyn Brysse,Jessica O'Reilly,Matthew Shindell,Milena Wazeck,2019-03-07 Discerning Experts assesses the assessments that many governments rely on to help guide environmental policy and action Through their close look at environmental assessments involving acid rain ozone depletion and sea level rise the authors explore how experts deliberate and decide on the scientific facts about problems like climate change They also seek to understand how the scientists involved make the judgments they do how the organization and management of assessment activities affects those judgments and how expertise is identified and constructed Discerning Experts uncovers factors that can generate systematic bias and error and recommends how the process can be improved As the first study of the internal workings of large environmental assessments this book reveals their strengths and weaknesses and explains what assessments can and cannot be expected to contribute to public policy and the common good      Imperial Technoscience Amit Prasad,2014-03-14 A study of science and technology practices that shows how even emergent aspects of research and development remain entangled with established hierarchies In the last four decades during which magnetic resonance imaging MRI has emerged as a cutting edge medical technology and a cultural icon technoscientific imaginaries and practices have undergone a profound change across the globe Shifting transnational geography of tecchnoscientific innovations is making commonly deployed Euro West centric divides such as west versus non west or innovating north versus non innovating south increasingly untenable the world is indeed becoming flatter Nevertheless such dualist divides which are

intimately tied to other dualist categories that have been used to describe scientific knowledge and practice continue to undergird analyses and imaginaries of transnational technoscience Imperial Technoscience puts into broad relief the ambivalent and contradictory folding of Euro west centrism with emergent features of technoscience It argues Euro West centric historicism and resulting over determinations not only hide the vibrant albeit hierarchical transnational histories of technoscience but also tell us little about shifting geography of technoscientific innovations The book utilizes a deconstructive empirical approach to explore entangled histories of MRI across disciplines physics chemistry medicine etc institutions university hospitals industry etc and nations United States Britain and India Entangled histories of MRI it shows better explain emergence and consolidation of particular technoscientific trajectories and shifts in transnational geography of science and technology e g centers and peripheries

**Culture and Politics** Jan-Erik Lane,Uwe Wagschal,2013-06-17 This concise accessible text presents an overview of the relevance of culture for politics Culture figures prominently in the theories of the great classics such as Marx Durkheim and Weber Recently the cultural approach to politics has developed quickly and the concept of political culture has played a role in these developments particularly given the emergence of large scale survey research into political value orientations Seeking to outline this rapid development the book is divided into three sections Section I of the book discusses the relevance of cultural perspectives to political analysis including discussion of the most significant concepts and methods Section II looks at the core elements of political culture tradition ethnicity and religion Section III examines emerging research avenues and opportunities including social capital value orientations in the postmodern world newer formulations of political culture such as gender and sexuality and the influence of the environment Drawing on a wealth of examples and a comprehensive analysis of comparative data this textbook is essential reading for all students of political culture research methods political sociology and comparative politics

**The Oxford Handbook of Local Competitiveness** David B. Audretsch,Albert N. Link,Mary Lindenstein Walshok,2015-08-03 The local levels of economies have felt the impact of technological change and globalization These forces have triggered the need to understand the dynamic mechanisms that enable locales to respond to such changes For example the downsizing of traditional employers because of a major loss in market share due to new competitors acquisition by global firms or off shoring of production or services was traditionally thought to be beyond the scope of powers of local policy makers thinkers and business leaders In the world of practice those concerned about the economic performance of place city region or state are increasingly focused on how to adapt to these trends and leverage their existing resources to respond to these global challenges as a positive opportunity The Oxford Handbook of Local Competitiveness brings together some of the leading minds in the fields of business economics and the social sciences to identify articulate and analyze what influences and shapes local competitiveness and what places can do to enhance their economic performance The contributors to the Handbook provide a body of systematic analyses suggesting that the local context is a critical element of the forces that shape competitiveness

The challenges to generate and sustain economic performance vary across places and the factors and conditions that either enhance or impede competitiveness also are place specific. Finally, the characteristics and nature of what constitutes success also vary across places. This Handbook is essential reading material for academics in the fields of economics and public policy as well as business leaders who hope to gain a more in-depth understanding of their field. Informative and intellectually rigorous. The Oxford Handbook of Local Competitiveness is the definitive volume of scholarly analysis regarding the relationship between place and economic competition.

### **Big Science and Research Infrastructures in Europe**

Katharina C. Cramer, Olof Hallonsten, 2020-08-28. This thought-provoking book expands on the notion that Big Science is not the only term to describe and investigate particularly large research projects, scientific collaborations, and facilities. It investigates the significant overlap between Big Science and Research Infrastructures (RIs) in a European context since the early twenty-first century. Contributions to this innovative book not only augment the study of Big Science with new perspectives but also launch the study of RIs as a promising new line of inquiry.

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Library of Congress. Copyright Office, 1970.

Making Art Work W. Patrick McCray, 2020-10-20. The creative collaborations of engineers, artists, scientists, and curators over the past fifty years. Artwork as opposed to experiment. Engineer versus artist. We often see two different cultural realms separated by impervious walls. But some fifty years ago, the borders between technology and art began to be breached. In this book, W. Patrick McCray shows how in this era, artists eagerly collaborated with engineers and scientists to explore new technologies and create visually and sonically compelling multimedia works. This art emerged from corporate laboratories, artists' studios, publishing houses, art galleries, and university campuses. Many of the biggest stars of the art world—Robert Rauschenberg, Yvonne Rainer, Andy Warhol, Carolee Schneemann, and John Cage—participated, but the technologists who contributed essential expertise and aesthetic input often went unrecognized. Coming from diverse personal backgrounds, this roster of engineers and scientists includes Frank J. Malina, the American rocket pioneer turned kinetic artist who launched the art/science journal *Leonardo*, and Swedish-born engineer Billy Klüver, who established the group Experiments in Art and Technology (EAT) at schools ranging from MIT to Caltech. Engineers engaged with such figures as artist György Kepes and celebrity curator Maurice Tuchman. Today we are in the midst of a new surge of corporate and academic promotion of projects and programs combining art, technology, and science. *Making Art Work* reveals how artists and technologists have continually constructed new communities in which they exercise imagination, display creative expertise, and pursue commercial innovation.

*Techno-Fixers* Sean F. Johnston, 2020-03-26. This is the story of a seductive idea. Over the past century, the potential of new technology to solve social dilemmas has captivated modern culture. From apps that encourage physical activity to airport scanners meant to prevent terrorism, the concept that clever innovation can improve society is irresistible, but faith in such technological fixes is seldom questioned. Where did this idea come from, what makes it so appealing, and how does it endanger our future? *Techno-Fixers* traces the source of modern confidence in

technology to engineering hubris radical utopian movements science fiction fanzines policy makers soundbites corporate marketing and optimistic consumer culture from the turn of the twentieth century until today Sean Johnston demonstrates that through the promotion of prominent government scientists technocrats entrepreneurs and popular media modern invention became the favourite tool for addressing human problems and society's ills. Nonetheless when it comes to assessing the success of cigarette filters as the solution to safe smoking or DDT as the answer for agricultural productivity the evidence is sobering. Cautioning that the rhetoric of technological fixes seldom matches reality Johnston examines how employing innovation to bypass traditional methods can foster as many problems as it solves. A critical examination of modern faith in technology *Techno Fixers* evaluates past mistakes present implications and future opportunities for innovating societies.

**Beyond Sputnik** Homer A. Neal, 2008 *Millennial Biology: The National Science Foundation and American Biology, 1975-2005* Donald J. McGraw, 2021-01-25 National Science Foundation NSF is a unique federal agency because it supports scientific research financially but does not engage in scientific work itself. Its history is known only in part because the NSF is a vibrant expanding and living entity that makes the final telling of its story impossible. Much can be learned from its beginning as well as its component parts. If the founding of the NSF in 1950 was couched in an era of physics especially atomic physics certainly by the end of the 20th century and the beginning of the 21st biology was and remains the queen of sciences for the predictable future. This book highlights the elite status of America's biological sciences as they were funded, affected and to a very real degree interactively guided by the NSF. It examines important events in the earlier history of the Foundation because they play strongly upon the development of the various biology directorates. Issues such as education applied research medical science the National Institutes of Health the beginnings of biotechnology and other matters are also discussed.

**Managerial Practice Issues in Strategy and Organization** T. K. Das, 2022-12-01 The field of strategy science has grown in both the diversity of issues it addresses and the increasingly interdisciplinary approaches it adopts in understanding the nature and significance of problems that are continuously emerging in the world of human endeavor. These newer kinds of challenges and opportunities arise in all forms of organizations encompassing private and public enterprises and with strategies that experiment with breaking the traditional molds and contours. The field of strategy science is also perhaps inevitably being impacted by the proliferation of hybrid organizations such as strategic alliances the upsurge of approaches that go beyond the customary emphasis on competitiveness and profit making and the intermixing of time honored categories of activities such as business industry commerce trade government the professions and so on. The blurring of the boundaries between various areas and types of human activities points to a need for academic research to address the consequential developments in strategic issues. Hence research and thinking about the nature of issues to be tackled by strategy science should also cultivate requisite variety in issues recognized for research inquiry including the conceptual foundations of strategy and strategy making and the examination of the critical roles of strategy makers strategic

thinking time and temporalities business and other goal choices diversity in organizing modes for strategy implementation and the complexities of managing strategy to name a few This book series on Research in Strategy Science aims to provide an outlet for ideas and issues that publications in the field do not provide either expressly or adequately especially as regards the comprehensive coverage deserved by certain emerging areas of interest The topics of the volumes in the series will keep in view this objective to expand the research areas and theoretical approaches routinely found in strategy science the better to permit expanded and expansive treatments of promising issues that may not sufficiently align with the usual research coverage of publications in the field Managerial Practice Issues in Strategy and Organization contains contributions by leading scholars on significant issues relating to managerial practices in the field of strategy science research The 11 chapters in this volume cover the topics of Big Science collaborations open innovations in pharmaceutical companies complementary roles and relative optimism of company CEOs CFOs and Board Chairs business modelling management of uncertainty meta management practices proximity in innovation networks institutional logics in alliances and using technology in teaching The chapters collectively present a wide ranging review of the noteworthy research perspectives on the managerial practice issues in strategy and organization

*The Scientific Life* Steven Shapin, 2009-08-01 Who are scientists What kind of people are they What capacities and virtues are thought to stand behind their considerable authority They are experts indeed highly respected experts authorized to describe and interpret the natural world and widely trusted to help transform knowledge into power and profit But are they morally different from other people The Scientific Life is historian Steven Shapin's story about who scientists are who we think they are and why our sensibilities about such things matter Conventional wisdom has long held that scientists are neither better nor worse than anyone else that personal virtue does not necessarily accompany technical expertise and that scientific practice is profoundly impersonal Shapin however here shows how the uncertainties attending scientific research make the virtues of individual researchers intrinsic to scientific work From the early twentieth century origins of corporate research laboratories to the high flying scientific entrepreneurship of the present Shapin argues that the radical uncertainties of much contemporary science have made personal virtues more central to its practice than ever before and he also reveals how radically novel aspects of late modern science have unexpectedly deep historical roots His elegantly conceived history of the scientific career and character ultimately encourages us to reconsider the very nature of the technical and moral worlds in which we now live Building on the insights of Shapin's last three influential books featuring an utterly fascinating cast of characters and brimming with bold and original claims The Scientific Life is essential reading for anyone wanting to reflect on late modern American culture and how it has been shaped

*Supersizing Science* Niki Vermeulen, 2010 In recent years there has been a clear rise in scientific collaboration as well as in studies on the subject While most scholars examine disciplines traditionally known to be collaborative such as physics and space research this book focuses on biology It investigates the growing collaboration in the



life sciences or the emergence of what is called big biology While the Human Genome Project is often presented as the first large scale research project in biology cooperation in the life sciences has a longer history A comparison between centralised big physics and big biology reveals how the latter has a networked structure which evolved in interaction with the integration of information and communication technologies By concentrating on the construction of these networks three contemporary large scale research collaborations are analysed the Census of Marine Life that aims to make an inventory of life in the oceans the Silicon Cell initiative that wants to design a replica of a cell in a computer and the VIRGO consortium which investigates host virus interaction to develop a new therapy against influenza This book demonstrates how the process of making science bigger or the supersizing of science transforms the ways in which science is organised while it also changes the work of scientists involved As such this has both scholarly and professional implications for the next generation of scientists

*Quantum Generations* Helge Kragh, 2020-06-16 At the end of the nineteenth century some physicists believed that the basic principles underlying their subject were already known and that physics in the future would only consist of filling in the details They could hardly have been more wrong The past century has seen the rise of quantum mechanics relativity cosmology particle physics and solid state physics among other fields These subjects have fundamentally changed our understanding of space time and matter They have also transformed daily life inspiring a technological revolution that has included the development of radio television lasers nuclear power and computers In *Quantum Generations* Helge Kragh one of the world's leading historians of physics presents a sweeping account of these extraordinary achievements of the past one hundred years The first comprehensive one volume history of twentieth century physics the book takes us from the discovery of X rays in the mid 1890s to superstring theory in the 1990s Unlike most previous histories of physics written either from a scientific perspective or from a social and institutional perspective *Quantum Generations* combines both approaches Kragh writes about pure science with the expertise of a trained physicist while keeping the content accessible to nonspecialists and paying careful attention to practical uses of science ranging from compact disks to bombs As a historian Kragh skillfully outlines the social and economic contexts that have shaped the field in the twentieth century He writes for example about the impact of the two world wars the fate of physics under Hitler Mussolini and Stalin the role of military research the emerging leadership of the United States and the backlash against science that began in the 1960s He also shows how the revolutionary discoveries of scientists ranging from Einstein Planck and Bohr to Stephen Hawking have been built on the great traditions of earlier centuries Combining a mastery of detail with a sure sense of the broad contours of historical change Kragh has written a fitting tribute to the scientists who have played such a decisive role in the making of the modern world

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