



# BEYOND SPUTNIK

## U.S. SCIENCE POLICY IN THE 21ST CENTURY

HOMER A. NEAL, THOMAS J. SMITH,  
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# Beyond Sputnik Us Science Policy In The 21st Century

**Judy Illes,Barbara J. Sahakian**

## **Beyond Sputnik Us Science Policy In The 21st Century:**

**Beyond Sputnik** Homer Alfred Neal,Tobin L. Smith,Jennifer B. McCormick,2008-07-23 DIVA timely introduction to all facets of U S national science policy div    **Beyond Sputnik** Homer A. Neal,2008    **Pioneering Progress** William B. Bonvillian,2024-10-29 An expert exploration of the foundations of America s science and technology policies and the dynamics of its innovation system Why study science and technology policy What role does innovation play and how do we foster it Economics tells us technological innovation drives economic growth and societal well being but technology is always a double edged sword great technological advances offer both opportunities and threats In Pioneering Progress William Bonvillian explains the complex science and technology innovation system and discusses the challenges of emerging industrial policies Drawing on in depth case studies on critical areas such as energy computing advanced manufacturing and health with an emphasis on the needed public policy and the federal government R D role in those systems Bonvillian reviews the foundations of economic growth theory innovation systems theory and innovation organization theory Bonvillian a highly respected expert who has worked as a deputy assistant secretary of transportation in the federal government and a senior advisor in Congress reviews a new theory of direct and indirect economic factors in the innovation system He describes the innovation based competitive and advanced manufacturing challenges now facing the US economy reviews comparative efforts in other nations studies the varied models for how federal science and technology mission agencies are organized and explores the growth of public private partnership and industrial policy models as a way for science mission agencies to pursue mission agendas Pioneering Progress places particular emphasis on the organization and role of medical science and energy innovation agencies and how we can address the gaps in the health energy and advanced production innovation economic models    *Public Policy* Michael Mintrom,2019 Public Policy Investing for a Better Future offers students a contemporary introduction to public policy covering all the major theories approaches and substantive policy areas with three key distinguishing elements First the book includes a chapter on global public policy the first and only book to do this and the theories and concepts introduced there are integrated throughout the book Second the chapters that introduce a substantive policy area are organized in a consistent fashion providing students with an analytical framework that they can extend to policy issues not introduced in text Finally Mintrom s investment perspective provides more conceptual coherence than other books on the market The goal of integrating this perspective is two fold On the one hand it reflects reality In the wake of the global financial crisis budgets are tight and every dollar spent must promote meaningful results in the lives of citizens On the other hand it is pedagogically useful The investment perspective unifies each discussion for the students

**Best of Both Worlds** G. Wayne Clough,2013-09-17 Wayne Clough Secretary of the Smithsonian Institution asks How can we prepare ourselves to reach the generation of digital natives who bring a huge appetite and aptitude for the digital world He explains how the Smithsonian is tackling this issue in Best of Both Worlds Museums Libraries and Archives in a Digital

Age Libraries and archives have already made many documents available through the Internet The digital world presents a bigger challenge for museums producing images of 3D objects is more complicated and collections are built with exhibitions in mind rather than open access on computers In 2009 the Smithsonian began digitizing its vast collections to make them accessible to the millions of people who do not visit the museums in person Digital access can provide limitless opportunities for engagement and lifelong learning Clough sees museums gradually moving beyond showcasing collections to engaging the public online so visitors can access the objects they find most interesting Education has always been at the core of the Smithsonian Today the Smithsonian offers materials and lesson plans that meet state standards for K 12 curricula online summits on many diverse subjects the Collections Search Center website and apps The Smithsonian's website [www.seriouslyamazing.com](http://www.seriouslyamazing.com) draws people in with fun questions and then takes them deeper into the subject The question What European colonizer is still invading the U S today reveals not only the answer earthworms but also in depth info on worms from environmental researchers Clough concludes with this thought While digital technology poses great challenges it also offers great possibilities

**Optimizing the Nation's Investment in Academic Research** National Academies of Sciences, Engineering, and Medicine, Policy and Global Affairs, Board on Higher Education and Workforce, Committee on Science, Technology, and Law, Committee on Federal Research Regulations and Reporting Requirements: A New Framework for Research Universities in the 21st Century, 2016-07-29 Research universities are critical contributors to our national research enterprise They are the principal source of a world class labor force and fundamental discoveries that enhance our lives and the lives of others around the world These institutions help to create an educated citizenry capable of making informed and crucial choices as participants in a democratic society However many are concerned that the unintended cumulative effect of federal regulations undercuts the productivity of the research enterprise and diminishes the return on the federal investment in research Optimizing the Nation's Investment in Academic Research reviews the regulatory framework as it currently exists considers specific regulations that have placed undue and often unanticipated burdens on the research enterprise and reassesses the process by which these regulations are created reviewed and retired This review is critical to strengthen the partnership between the federal government and research institutions to maximize the creation of new knowledge and products to provide for the effective training and education of the next generation of scholars and workers and to optimize the return on the federal investment in research for the benefit of the American people

**Politics and Expertise** Zeynep Pamuk, 2024-11-26 A new model for the relationship between science and democracy that spans policymaking the funding and conduct of research and our approach to new technologies Our ability to act on some of the most pressing issues of our time from pandemics and climate change to artificial intelligence and nuclear weapons depends on knowledge provided by scientists and other experts Meanwhile contemporary political life is increasingly characterized by problematic responses to expertise with denials of science on the one hand and complaints about the ignorance of the

citizenry on the other Politics and Expertise offers a new model for the relationship between science and democracy rooted in the ways in which scientific knowledge and the political context of its use are imperfect Zeynep Pamuk starts from the fact that science is uncertain incomplete and contested and shows how scientists judgments about what is significant and useful shape the agenda and framing of political decisions The challenge Pamuk argues is to ensure that democracies can expose and contest the assumptions and omissions of scientists instead of choosing between wholesale acceptance or rejection of expertise To this end she argues for institutions that support scientific dissent proposes an adversarial science court to facilitate the public scrutiny of science reimagines structures for funding scientific research and provocatively suggests restricting research into dangerous new technologies Through rigorous philosophical analysis and fascinating examples Politics and Expertise moves the conversation beyond the dichotomy between technocracy and populism and develops a better answer for how to govern and use science democratically

**Green Technology** Dustin Mulvaney,2011-06-28

Green Technology An A to Z Guide explores the essential role of technology and its most recent developments toward a sustainable environment Twofold in its definition green technology includes the changing of existing technology toward energy conservation as well as the creation of new clean technology aimed at utilizing renewable resources With a primary focus on waste management the volume presents more than 150 articles in A to Z format featuring such disciplines as nanoscience biochemistry information technology and environmental engineering Scholars and experts in their fields present a full range of topics from applications of green technology to The Green Grid global consortium to membrane technology and water purification systems to waste to energy technology This work culminates in an outstanding reference available in both print and electronic formats for academic university and public libraries Vivid photographs searchable hyperlinks an extensive resource guide numerous cross references and a clear accessible writing style make the Green Society volumes ideal for classroom use as well as for research

**A Political History of Big Science** Katharina C. Cramer,2020-08-31 This book investigates the political history of Big Science in Europe in the late twentieth century and the early twenty first century characterised by the founding histories of two collaborative single sited facilities namely the European Synchrotron Radiation Facility ESRF in Grenoble France and the European X Ray Free Electron Laser European XFEL in Schenefeld Germany Under the heading of the other Europe this book presents the history and politics of European Big Science as an alternative road to Western European integration besides the mainstream political integration process of the European Economic Community and the European Union It shows that Big Science has a role to play in European politics and policymaking and that the crucial and unavoidable symbiosis between science technology and politics brings the creation of Big Science projects back to geopolitical realities

*Science and American Foreign Relations since World War II* Greg

Whitesides,2020-05-28 The sciences played a critical role in American foreign policy after World War II From atomic energy and satellites to the green revolution scientific advances were central to American diplomacy in the early Cold War as the

United States leveraged its scientific and technical pre eminence to secure alliances and markets The growth of applied research in the 1970s exemplified by the biotech industry led the United States to promote global intellectual property rights Priorities shifted with the collapse of the Soviet Union as attention turned to information technology and environmental sciences Today international relations take place within a scientific and technical framework whether in the headlines on global warming and the war on terror or in the fine print of intellectual property rights Science and American Foreign Relations since World War II provides the historical background necessary to understand the contemporary geopolitics of science     *Arming America Through the Centuries* Benjamin Franklin Cooling,2022-09-29 This book examines the roots of the military industrial complex MIC in the eighteenth and nineteenth centuries the MIC s full flowering in the wake of the Cold War and how America s current MIC evolved after the events of 9 11 and throughout the War on Terror Specifically Cooling argues that the MIC has transformed into a problematic demand for absolute security that is neither practicable nor financially sound While emphasizing many aspects of Eisenhower s broad conception of the MIC and Eisenhower s own warning at the close of World War II Cooling s synthesis provides historical perspective on American industry as a matter of national security on the rise of outsourcing practices and on the changing nature of modern warfare     Space Policy in Developing Countries Robert C. Harding,2013 This book analyses the rationale and history of space programs in countries of the developing world Space was at one time the sole domain of the wealthiest developed countries However the last couple of decades of the twentieth century and the first decade of the twenty first century have witnessed the number of countries with state supported space programs blossom Today no less than twenty five developing states including the rapidly emerging economic powers of Brazil seventh largest China second largest and India fourth largest possess active national space programs with already proven independent launch capability or concrete plans to achieve it soon This work places these programs within the context of international relations theory and foreign policy analysis The author categorizes each space program into tiers of development based not only on the level of technology utilised but on how each fits within the country s overall national security and or development policies The text also places these programs into an historical context which enables the author to demonstrate the logical thread of continuity in the political rationale for space capabilities generally This book will be of much interest to students of space power and politics development studies strategic studies and international relations in general     Higher Education in America Derek Bok,2015-03-22 A sweeping assessment of the state of higher education today from former Harvard president Derek Bok Higher Education in America is a landmark work a comprehensive and authoritative analysis of the current condition of our colleges and universities from former Harvard president Derek Bok one of the nation s most respected education experts Sweepingly ambitious in scope this is a deeply informed and balanced assessment of the many strengths as well as the weaknesses of American higher education today At a time when colleges and universities have never been more important to the lives and opportunities of students or to the

progress and prosperity of the nation Bok provides a thorough examination of the entire system public and private from community colleges and small liberal arts colleges to great universities with their research programs and their medical law and business schools Drawing on the most reliable studies and data he determines which criticisms of higher education are unfounded or exaggerated which are issues of genuine concern and what can be done to improve matters Some of the subjects considered are long standing such as debates over the undergraduate curriculum and concerns over rising college costs Others are more recent such as the rise of for profit institutions and massive open online courses MOOCs Additional topics include the quality of undergraduate education the stagnating levels of college graduation the problems of university governance the strengths and weaknesses of graduate and professional education the environment for research and the benefits and drawbacks of the pervasive competition among American colleges and universities Offering a rare survey and evaluation of American higher education as a whole this book provides a solid basis for a fresh public discussion about what the system is doing right what it needs to do better and how the next quarter century could be made a period of progress rather than decline    [Oxford Handbook of Neuroethics](#) Judy Illes,Barbara J. Sahakian,2011-04-07 This handbook presents a pioneering review of a topic central to the sciences and humanities It presents a range of chapters considering key issues discussion and debate at the intersection of brain and ethics    *Space and the American Imagination* Howard E.

McCurdy,2011-03 People dreamed of cosmic exploration winged spaceships and lunar voyages space stations and robot astronauts long before it actually happened Space and the American Imagination traces the emergence of space travel in the popular mind its expression in science fiction and its influence on national space programs Space exploration dramatically illustrates the power of imagination Howard E McCurdy shows how that power inspired people to attempt what they once deemed impossible In a mere half century since the launch of the first Earth orbiting satellite in 1957 humans achieved much of what they had once only read about in the fiction of Jules Verne and H G Wells and the nonfiction of Willy Ley Reaching these goals however required broad based support and McCurdy examines how advocates employed familiar metaphors to excite interest promising for example that space exploration would recreate the American frontier experience and prepare the public for daring missions into space When unexpected realities and harsh obstacles threatened their progress the space community intensified efforts to make their wildest dreams come true This lively and important work remains relevant given contemporary questions about future plans at NASA Fully revised and updated since its original publication in 1997 Space and the American Imagination includes a reworked introduction and conclusion and new chapters on robotics and space commerce    [The Squares](#) Cyrus C. M. Mody,2022-07-12 When ungroovy scientists did groovy science how non activist scientists and engineers adapted their work to a rapidly changing social and political landscape In The Squares Cyrus Mody shows how between the late 1960s and the early 1980s some scientists and engineers who did not consider themselves activists New Leftists or members of the counterculture accommodated their work to the rapidly changing social and political

landscape of the time These square scientists Mody shows began to do many of the things that the counterculture urged turn away from military industrial funding become more interdisciplinary and focus their research on solving problems of civil society During the period Mody calls the long 1970s ungroovy scientists were doing groovy science Mody offers a series of case studies of some of these collective efforts by non activist scientists to use their technical knowledge for the good of society He considers the region around Santa Barbara and the interplay of public universities think tanks established firms new companies philanthropies and social movement organizations He looks at Stanford University s transition from Cold War science to commercialized technoscience NASA s search for a post Apollo mission the unsuccessful foray into solar energy by Nobel laureate Jack Kilby the civilianization of the US semiconductor industry and systems engineer Arthur D Hall s ill fated promotion of automated agriculture

### **Boosting Pharmaceutical Innovation in the Post-TRIPS Era**

Burcu Kiliç,2014-07-31 Boosting Pharmaceutical Innovation In The Post TRIPS Era investigates the concept of innovation and illustrates the crucial role that patent strategies play within processes of pharmaceutical innovation Drawing on extensive country and company case studies it identifies the key issues relevant to the revival of local pharmaceutical industries

**The Evaluation Game** Emanuel Kulczycki,2023-04-27 This text examines the origin and effects of publication metrics that are used to measure academic productivity around the world

*Research Handbook on Intellectual Property and Technology Transfer* Jacob H. Rooksby,2020-02-28 Written by leading experts from across the world this Handbook expertly places intellectual property issues in technology transfer into their historical and political context whilst also exploring and framing the development of these intersecting domains for innovative universities in the present and the future

*The Political Economy of Science, Technology, and Innovation in China* Yutao Sun,Cong Cao,2023-07-20 There are a variety of reasons underlying the remarkable development of science and technology S T and innovation in post 1978 China This book seeks to achieve an understanding of such development from an institutional or a political economy perspective Departing from the literature of S T and innovation studies that treats innovation as a market or enterprise s behavior in Schumpeter s sense Sun and Cao argue that it involves politics institutions and the role of the state In particular they examine how the Chinese state has played its visible role in making innovation policies allocating funding for R D programs making efforts to attract talent and organizing critical S T programs This book appeals to scholars in S T and innovation policy political economy innovation governance and China studies as well as policymakers and business executives

## Decoding **Beyond Sputnik Us Science Policy In The 21st Century**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Beyond Sputnik Us Science Policy In The 21st Century**," a mesmerizing literary creation penned with a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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