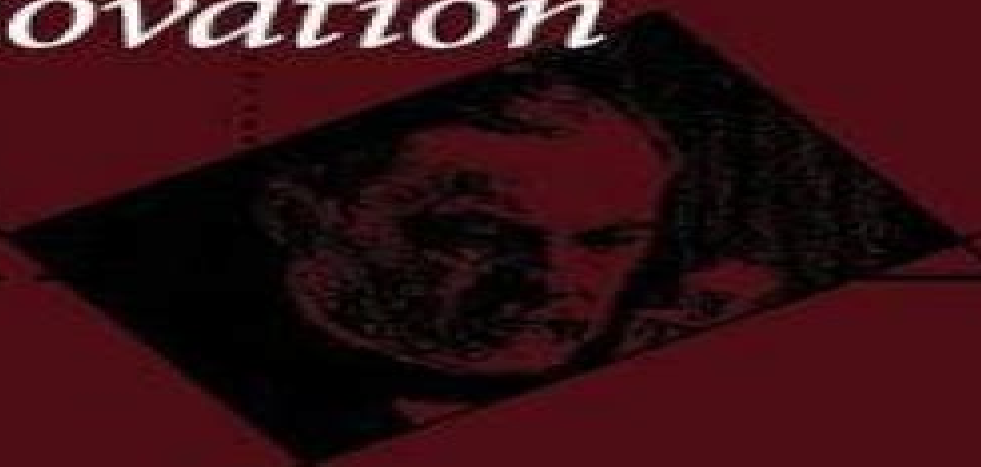


PASTEUR'S QUADRANT

*Basic Science
and Technological
Innovation*



Donald E. Stokes

Pasteurs Quadrant Basic Science And Technological Innovation

Ulrich A.K. Betz

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Pasteurs Quadrant Basic Science And Technological Innovation:

Pasteur's Quadrant Donald E. Stokes, 1997 The author recasts the widely accepted view of the tension between scientific understanding and use and builds a convincing case that by recognizing the importance of use inspired basic research we can frame a new contract between science and government *Pasteur's Quadrant* Donald E. Stokes, 2011-03-01 Over fifty years ago Vannevar Bush released his enormously influential report *Science the Endless Frontier* which asserted a dichotomy between basic and applied science This view was at the core of the compact between government and science that led to the golden age of scientific research after World War II a compact that is currently under severe stress In this book Donald Stokes challenges Bush's view and maintains that we can only rebuild the relationship between government and the scientific community when we understand what is wrong with that view Stokes begins with an analysis of the goals of understanding and use in scientific research He recasts the widely accepted view of the tension between understanding and use citing as a model case the fundamental yet use inspired studies by which Louis Pasteur laid the foundations of microbiology a century ago Pasteur worked in the era of the second industrial revolution when the relationship between basic science and technological change assumed its modern form Over subsequent decades technology has been increasingly science based But science has been increasingly technology based with the choice of problems and the conduct of research often inspired by societal needs An example is the work of the quantum effects physicists who are probing the phenomena revealed by the miniaturization of semiconductors from the time of the transistor's discovery after World War II On this revised interactive view of science and technology Stokes builds a convincing case that by recognizing the importance of use inspired basic research we can frame a new compact between science and government His conclusions have major implications for both the scientific and policy communities and will be of great interest to those in the broader public who are troubled by the current role of basic science in American democracy *Science, the Endless Frontier* Vannevar Bush, 2021-02-02 The classic case for why government must support science with a new essay by physicist and former congressman Rush Holt on what democracy needs from science today *Science the Endless Frontier* is recognized as the landmark argument for the essential role of science in society and government's responsibility to support scientific endeavors First issued when Vannevar Bush was the director of the US Office of Scientific Research and Development during the Second World War this classic remains vital in making the case that scientific progress is necessary to a nation's health security and prosperity Bush's vision set the course for US science policy for more than half a century building the world's most productive scientific enterprise Today amid a changing funding landscape and challenges to science's very credibility *Science the Endless Frontier* resonates as a powerful reminder that scientific progress and public well being alike depend on the successful symbiosis between science and government This timely new edition presents this iconic text alongside a new companion essay from scientist and former congressman Rush Holt who offers a brief introduction and consideration of what

society needs most from science now Reflecting on the report's legacy and relevance along with its limitations Holt contends that the public's ability to cope with today's issues such as public health the changing climate and environment and challenging technologies in modern society requires a more capacious understanding of what science can contribute Holt considers how scientists should think of their obligation to society and what the public should demand from science and he calls for a renewed understanding of science's value for democracy and society at large A touchstone for concerned citizens scientists and policymakers Science the Endless Frontier endures as a passionate articulation of the power and potential of science

Cycles of Invention and Discovery Venkatesh Narayanamurti,Toluwalogo Odumosu,2016-10-24 Using Nobel Prize winning examples like the transistor laser and magnetic resonance imaging Venky Narayanamurti and Tolu Odumosu explore the daily micro practices of research and show that distinctions between the search for knowledge and creative problem solving break down when one pays attention to how pathbreaking research actually happens

The Fifth Wave Michael M. Crow,William B. Dabars,2020-04-14 Out of the crises of American higher education emerges a new class of large scale public universities designed to accelerate social change through broad access to world class knowledge production and cutting edge technological innovation America's research universities lead the world in discovery creativity and innovation but are captive to a set of design constraints that no longer aligns with the changing needs of society Their commitment to discovery and innovation which is carried out largely in isolation from the socioeconomic challenges faced by most Americans threatens to impede the capacity of these institutions to contribute decisively and consistently to the collective good The global preeminence of our leading institutions moreover does not correlate with overall excellence in American higher education Sadly admissions practices that flatly exclude the majority of academically qualified applicants are now the norm in our leading universities both public and private In The Fifth Wave Michael M Crow and William B Dabars argue that colleges and universities need to be comprehensively redesigned in order to educate millions more qualified students while leveraging the complementarities between discovery and accessibility Building on the themes of their prior collaboration Designing the New American University this book examines the historical development of American higher education the first four waves and describes the emerging standard of institutions that will transform the field What must emerge in this Fifth Wave of universities Crow and Dabars posit are institutions that are responsive to the needs of students focused on access embedded in their regions and committed to solving global problems The Fifth Wave in American higher education Crow and Dabars write comprises an emerging league of colleges and universities that aspires to accelerate positive social outcomes through the seamless integration of world class knowledge production with cutting edge technological innovation This set of institutions is dedicated to the advancement of accessibility to the broadest possible demographic that is representative of the socioeconomic and intellectual diversity of our nation Recognizing the fact that both cooperation and competition between universities is essential if higher education hopes to truly serve the needs of the nation Fifth Wave schools like

Arizona State University are already beginning to spearhead a network spanning academia business and industry government agencies and laboratories and civil society organizations Drawing from a variety of disciplines including design economics public policy organizational theory science and technology studies sociology and even cognitive psychology and epistemology **The Fifth Wave** is a must read for anyone concerned with the future of higher education in our society

The Secret Life of Science Jeremy J. Baumberg, 2018-05-15 A revealing and provocative look at the current state of global science We take the advance of science as given But how does science really work Is it truly as healthy as we tend to think How does the system itself shape what scientists do The Secret Life of Science takes a clear eyed and provocative look at the current state of global science shedding light on a cutthroat and tightly tensioned enterprise that even scientists themselves often don't fully understand The Secret Life of Science is a dispatch from the front lines of modern science It paints a startling picture of a complex scientific ecosystem that has become the most competitive free market environment on the planet It reveals how big this ecosystem really is what motivates its participants and who reaps the rewards Are there too few scientists in the world or too many Are some fields expanding at the expense of others What science is shared or published and who determines what the public gets to hear about What is the future of science Answering these and other questions this controversial book explains why globalization is not necessarily good for science nor is the continued growth in the number of scientists It portrays a scientific community engaged in a race for limited resources that determines whether careers are lost or won whose research visions become the mainstream and whose vested interests end up in control The Secret Life of Science explains why this hypercompetitive environment is stifling the diversity of research and the resiliency of science itself and why new ideas are needed to ensure that the scientific enterprise remains healthy and vibrant

The DARPA Model for Transformative Technologies: Perspectives on the U.S. Defense Advanced Research Projects Agency William Boone Bonvillian, Richard Van Atta, Patrick Windham, 2020-01-09 The authors have done a masterful job of charting the important story of DARPA one of the key catalysts of technological innovation in US recent history By plotting the development achievements and structure of the leading world agency of this kind this book stimulates new thinking in the field of technological innovation with bearing on how to respond to climate change pandemics cyber security and other global problems of our time The DARPA Model provides a useful guide for governmental agency and policy leaders and for anybody interested in the role of governments in technological innovation Dr Kent Hughes Woodrow Wilson International Center for Scholars This volume contains a remarkable collection of extremely insightful articles on the world's most successful advanced technology agency Drafted by the leading US experts on DARPA it provides a variety of perspectives that in turn benefit from being presented together in a comprehensive volume It reviews DARPA's unique role in the US innovation system as well as the challenges DARPA and its clones face today As the American model is being considered for adoption by a number of countries worldwide this book makes a welcome and timely contribution to the policy dialogue on

the role played by governments in stimulating technological innovation Prof Charles Wessner Georgetown University The U S Defense Advanced Research Projects Agency DARPA has played a remarkable role in the creation new transformative technologies revolutionizing defense with drones and precision guided munitions and transforming civilian life with portable GPS receivers voice recognition software self driving cars unmanned aerial vehicles and most famously the ARPANET and its successor the Internet Other parts of the U S Government and some foreign governments have tried to apply the DARPA model to help develop valuable new technologies But how and why has DARPA succeeded Which features of its operation and environment contribute to this success And what lessons does its experience offer for other U S agencies and other governments that want to develop and demonstrate their own transformative technologies This book is a remarkable collection of leading academic research on DARPA from a wide range of perspectives combining to chart an important story from the Agency s founding in the wake of Sputnik to the current attempts to adapt it to use by other federal agencies Informative and insightful this guide is essential reading for political and policy leaders as well as researchers and students interested in understanding the success of this agency and the lessons it offers to others

Curious2018 Ulrich A.K. Betz,2019-08-13 This book expands the debate on the future of science and technology at the Curious2018 Future Insight Conference held on the occasion of Merck s 350 year anniversary In the respective chapters some of the world s top scientists managers and entrepreneurs explore breakthrough technologies and how they can be applied to make a better world for humanity Divided into three parts the book begins with an introduction to the vision of the conference and to the importance of curiosity for innovation while also exploring the latest scientific developments that are shaping the future of healthcare medicine the life and material sciences digitalization and new ways of working together In the second part particular attention is paid to new therapies and diagnostics here readers will learn how synthetic biology and chemistry are being used to solve problems that are essential to the future of humanity The role of in silico research is also discussed In the final part of the book readers will find some thoughts on ethical principles guiding our application of science and technology to create a bright future for humanity Given its interdisciplinary appeal the book will inspire curiosity in a wide readership from scholars and researchers to professionals with an interest in exploring the future of science and technology solving the problems of today and paving the way for a better tomorrow Chapters 1 2 3 and 17 are available open access under a Creative Commons Attribution NonCommercial 4 0 International License via link [springer.com](https://www.springer.com)

Scholarship in the Digital Age Christine L. Borgman,2010 In Scholarship in the Digital Age Christine Borgman explores the technical social legal and economic aspects of the kind of infrastructure that we should be building for scholarly research in the twenty first century Borgman describes the roles that information technology plays at every stage in the life cycle of a research project and contrasts these new capabilities with the relatively stable system of scholarly communication which remains based on publishing in journals books and conference proceedings Analyzing scholarly practices in the sciences social sciences and

humanities Borgman compares each discipline's approach to infrastructure issues. In the process she challenges the many stakeholders in the scholarly infrastructure: scholars, publishers, libraries, funding agencies, and others to look beyond their own domains to address the interaction of technical, legal, economic, social, political, and disciplinary concerns. Scholarship in the Digital Age will provoke a conversation among all who depend on a rich and robust scholarly environment. Jacket

The Triple Helix Henry Etzkowitz, 2008-02-05 A Triple Helix of university, industry, government interactions is the key to innovation in increasingly knowledge-based societies. As the creation, dissemination, and utilization of knowledge moves from the periphery to the center of industrial production and governance, the concept of innovation in product and process is itself being transformed. In its place is a new sense of innovation: the restructuring and enhancement of the organizational arrangements and incentives that foster innovation. This triple helix intersection of relatively independent institutional spheres generates hybrid organizations such as technology transfer offices in universities, firms, and government research labs, and business and financial support institutions such as angel networks and venture capital for new technology-based firms that are increasingly developing around the world. The Triple Helix describes this new innovation model and assists students, researchers, and policymakers in addressing such questions as: How do we enhance the role of universities in regional economic and social development? How can governments at all levels encourage citizens to take an active role in promoting innovation? In innovation and conversely, how can citizens so encourage their governments? How can firms collaborate with each other and with universities and government to become more innovative? What are the key elements and challenges to reaching these goals?

A Companion to the History of Science Bernard Lightman, 2019-11-12 The Wiley Blackwell Companion to the History of Science is a single volume companion that discusses the history of science as it is done today, providing a survey of the debates and issues that dominate current scholarly discussion, with contributions from leading international scholars. Provides a single volume overview of current scholarship in the history of science, edited by one of the leading figures in the field. Features forty essays by leading international scholars providing an overview of the key debates and developments in the history of science. Reflects the shift towards deeper historical contextualization within the field. Helps communicate and integrate perspectives from the history of science with other areas of historical inquiry. Includes discussion of non-Western themes which are integrated throughout the chapters. Divided into four sections based on key analytic categories that reflect new approaches in the field.

Applying Social Science David Byrne, 2011-02-16 This important book examines how social science is applied now and how it might be applied in the future in relation to social transformation in a time of crisis.

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.

Computational Technology for Effective Health Care National Research Council, Division on Engineering and Physical Sciences, Computer Science and Telecommunications Board, Committee on Engaging the Computer Science Research Community in Health Care

Informatics,2009-02-24 Despite a strong commitment to delivering quality health care persistent problems involving medical errors and ineffective treatment continue to plague the industry Many of these problems are the consequence of poor information and technology IT capabilities and most importantly the lack cognitive IT support Clinicians spend a great deal of time sifting through large amounts of raw data when ideally IT systems would place raw data into context with current medical knowledge to provide clinicians with computer models that depict the health status of the patient Computational Technology for Effective Health Care advocates re balancing the portfolio of investments in health care IT to place a greater emphasis on providing cognitive support for health care providers patients and family caregivers observing proven principles for success in designing and implementing IT and accelerating research related to health care in the computer and social sciences and in health biomedical informatics Health care professionals patient safety advocates as well as IT specialists and engineers will find this book a useful tool in preparation for crossing the health care IT chasm **Annual Report of the**

National Science Foundation National Science Foundation (U.S.),1950 Open Science: the Very Idea Frank Miedema,2021-10-29 This open access book provides a broad context for the understanding of current problems of science and of the different movements aiming to improve the societal impact of science and research The author offers insights with regard to ideas old and new about science and their historical origins in philosophy and sociology of science which is of interest to a broad readership The book shows that scientifically grounded knowledge is required and helpful in understanding intellectual and political positions in various discussions on the grand challenges of our time and how science makes impact on society The book reveals why interventions that look good or even obvious are often met with resistance and are hard to realize in practice Based on a thorough analysis as well as personal experiences in aids research university administration and as a science observer the author provides while being totally open regarding science s limitations a realistic narrative about how research is conducted and how reliable objective knowledge is produced His idea of science which draws heavily on American pragmatism fits in with the global Open Science movement It is argued that Open Science is a truly and historically unique movement in that it translates the analysis of the problems of science into major institutional actions of system change in order to improve academic culture and the impact of science engaging all actors in the field of science and academia Peerless Science Daryl E. Chubin,Edward J. Hackett,1990-07-05 This book examines the structure and operation of peer review as a family of quality control mechanisms and looks at the burdens placed on the various forms of peer review Assuming that peer review is central to the functioning of U S science policy Chubin and Hackett explore the symbolic and practical value of peer review in the making implementing and analysis of this policy **Unraveling**

Environmental Disasters Daniel A. Vallero,Trevor Letcher,2023-10-17 Unraveling Environmental Disasters Second Edition provides scientific explanations of the most threatening current and future environmental disasters including an analysis of ways disasters could have been prevented and how to minimize risk of similar disasters in the future In this new edition the

authors provide foundational knowledge on why certain environmental disasters occur and ways of reducing the risk of recurrences Anyone involved in teaching or working in the main sciences of physics chemistry and biology or in the applied sciences including engineering design planning and homeland security should read the book to become acquainted with these very important issues Evaluates natural hazards and disasters with an emphasis on lessons learned for better future forecasting Considers the impact of human systems on environmental disasters treating disasters as complex systems Provides detailed predictions based upon sound science on why disasters occur Includes fully updated chapters on food health and water Focuses on both theoretical and practical aspects of each disaster Includes disasters related to climate change and pollution

Soft Machines Richard A. L. Jones, 2004-08-26 Enthusiasts look forward to a time when tiny machines reassemble matter and process information with unparalleled power and precision But is their vision realistic Where is the science heading As nanotechnology a new technology that many believe will transform society in the next one hundred years rises higher in the news agenda and popular consciousness there is a real need for a book which discusses clearly the science on which this technology will be based Whilst it is most easy to simply imagine these tiny machines as scaled down versions of the macroscopic machines we are all familiar with the way things behave on small scales is quite different to the way they behave on large scales Engineering on the nanoscale will use very different principles to those we are used to in our everyday lives and the materials used in nanotechnology will be soft and mutable rather than hard and unyielding *Soft Machines* explains in a lively and very accessible manner why the nanoworld is so different to the macro world which we are all familiar with Why does nature engineer things in the way it does and how can we learn to use these unfamiliar principles to create valuable new materials and artefacts which will have a profound effect on medicine electronics energy and the environment in the twenty first century With a firmer understanding of the likely relationship between nanotechnology and nature itself we can gain a much clearer notion of what dangers this powerful technology may potentially pose as well as come to realise that nanotechnology will have more in common with biology than with conventional engineering

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