

U.S. INDUSTRY RESTRUCTURING AND RENEWAL



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SECURING AMERICA'S INDUSTRIAL STRENGTH

EDWARD CONN. SCHWARTZ, RESEARCH DIRECTOR
ANDREW SCHWARTZ, RESEARCH DIRECTOR

NATIONAL RESEARCH COUNCIL

Securing Americas Industrial Strength

**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**

Securing Americas Industrial Strength:

Securing America's Industrial Strength National Research Council, Board on Science, Technology, and Economic Policy, 1999-06-13 This volume presents the conclusions of the National Research Council's Board on Science Technology and Economic Policy from industry studies published under the title U S Industry in 2000 Studies in Competitive Performance and other work on U S industrial performance It reviews patterns of corporate strategy and industry restructuring and considers the role of the national monetary and fiscal policies as well as trade regulatory and intellectual property policies The report presents new statistical evidence of trends in public and private R D expenditures and outlines a policy agenda for the next decade

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

Trends in Federal Support of Research and Graduate Education National Research Council, Policy and Global Affairs, Board on Science, Technology, and Economic Policy, Committee on Trends in Federal Spending on Scientific and Engineering Research, 2001-10-30 The Board on Science Technology and Economic Policy updated its 1999 analysis Appendix A Securing America's Industrial Strength 1999 of changes since 1990 in the distribution of federal research funding by field of science and engineering by incorporating FY 1998 and FY 1999 obligations from the NSF Federal Funds survey with particular attention to the trends in basic research support changes in research fields relative dependence on research sponsoring agencies and the relationship between changes in research support and changes in enrollment in graduate training in selected fields of research The Board did not recommend funding levels for any discipline but addressed procedural aspects of R D budgeting

H.R. 2086, the Networking and Information Technology Research and Development Act United States. Congress. House. Committee on Science. Subcommittee on Basic Research, 1999

Capitalizing on New Needs and New Opportunities National Research Council, Policy and Global Affairs, Board on Science, Technology, and Economic Policy, 2001-02-11 This report addresses a topic of recognized policy concern To capture the benefits of substantial U S investments in biomedical R D parallel investments in a wide range of seemingly unrelated disciplines are also required This report summarizes a major conference that reviewed our nation's R D support for biotechnology and information

technologies The volume includes newly commissioned research and makes recommendations and findings concerning the important relationship between information technologies and biotechnology It emphasizes the fall off in R D investments needed to sustain the growth of the U S economy and to capitalize on the growing investment in biomedicine It also encourages greater support for inter disciplinary training to support new areas such as bioinformatics and urges more emphasis on and support for multi disciplinary research centers

The Advanced Technology Program National Research Council,Policy and Global Affairs,Board on Science, Technology, and Economic Policy,2001-07-06 This report examines the operations of the APT reviews its extensive assessment program and provides NRC Committee findings concerning the ATP s operations and recommendations for potential improvements to the program The report includes a summary of a major conference held in April 2000 as well as seven papers including surveys of the industry participants or users of the ATP program a summary of the results of fifty awards detailed assessments of major joint ventures and a description of the current selection process It is the most comprehensive study to date of the program s origins operations achievements and assessment Its conclusion the program works

In War and Peace Guy Stever,2002-10-07 Science came into Guy Stever s life as a pure and peaceful pursuit It was only later as he walked through the wreckage of wartime London that he began to see science as central to a desperate struggle to survive Past president of Carnegie Mellon University former Chief Scientist of the U S Air Force one time Director of the National Science Foundation professor at MIT for 20 years member of the National Academies of Sciences and Engineering and science advisor to two presidents Guy Stever was a central figure in twentieth century science consistently on the front lines changing the fate of a nation In this thoughtful and candid memoir Stever recounts an extraordinary life that reveals as much about the man as about the major scientific and technological events of his day Born of humble origins and orphaned at an early age Stever journeyed from a small town in New York to work alongside British comrades who were developing and refining the critical radar technology that was to turn the tide of the war against the Germans As a technical intelligence officer these harrowing wartime years took him from the beachheads of Normandy to the German slave labor factories responsible for building the V 2 rockets Stever returned home committed to serving his country He became intimately involved in America s nascent guided missile program and was to remain a key player in the anti ballistic missile defense program that heralded the era of the Cold War As the decades passed Stever continued to exert lasting influence on countless scientific endeavors He was instrumental in the formation of new institutions from the creation of NASA in the post Sputnik years to the merging of Carnegie Tech and the Mellon Institution giving birth to Carnegie Mellon University As Presidential Science Advisor to both Nixon and Ford Stever shaped the very structure of contemporary presidential science advising And he was to chair the oversight committee that redesigned the space shuttle boosters after the Challenger explosion Guy Stever s life offers remarkable insight into the twentieth century Through his eyes we relive the history of the past 50 years witnesses to a tale of science and technology

that is revealing in its scope and sweep **Science, Money, and Politics** Daniel S. Greenberg, 2003-04-15 Greenberg explores how scientific research is funded in the United States including why the political process distributes the funds the way it does and how it can be corrupted by special interests in academia business and political machines *Improving School-to-Work Transitions* David Neumark, 2007-01-09 As anxieties about America's economic competitiveness mounted in the 1980s so too did concerns that the nation's schools were not adequately preparing young people for the modern workplace Spurred by widespread joblessness and job instability among young adults the federal government launched ambitious educational reforms in the 1990s to promote career development activities for students In recent years however the federal government has shifted its focus to test based reforms like No Child Left Behind that emphasize purely academic subjects At this critical juncture in education reform *Improving School To Work Transitions* edited by David Neumark weighs the successes and failures of the 90s era school to work initiatives and assesses how high schools colleges and government can help youths make a smoother transition into stable well paying employment Drawing on evidence from national longitudinal studies surveys interviews and case studies the contributors to *Improving School To Work Transitions* offer thought provoking perspectives on a variety of aspects of the school to work problem Deborah Reed Christopher Jepsen and Laura Hill emphasize the importance of focusing school to work programs on the diverse needs of different demographic groups particularly immigrants who represent a growing proportion of the youth population David Neumark and Donna Rothstein investigate the impact of school to work programs on the forgotten half students at the greatest risk of not attending college Using data from the 1997 National Longitudinal Study of Youth they find that participation by these students in programs like job shadowing mentoring and summer internships raise employment and college attendance rates among men and earnings among women In a study of nine high schools with National Academy Foundation career academies Terry Orr and her fellow researchers find that career academy participants are more engaged in school and are more likely to attend a four year college than their peers Nan Maxwell studies the skills demanded in entry level jobs and finds that many supposedly low skilled jobs actually demand extensive skills in reading writing and math as well as the new basic skills of communication and problem solving Maxwell recommends that school districts collaborate with researchers to identify which skills are most in demand in their local labor markets At a time when test based educational reforms are making career development programs increasingly vulnerable it is worth examining the possibilities and challenges of integrating career related learning into the school environment Written for educators policymakers researchers and anyone concerned about how schools are shaping the economic opportunities of young people *Improving School To Work Transitions* provides an authoritative guide to a crucial issue in education reform Measuring and Sustaining the New Economy National Research Council, Policy and Global Affairs, Board on Science, Technology, and Economic Policy, 2002-03-08 Sustaining the New Economy will require public policies that remain relevant to the rapid technological changes that characterize it While data

and its timely analysis are key to effective policy making we do not yet have adequate statistical images capturing changes in productivity and growth brought about by the information technology revolution This report on a STEP workshop highlights the need for more information and the challenges faced in measuring the New Economy and sustaining its growth

Capitalizing on Investments in Science and Technology National Academy of Engineering, National Academy of Sciences, Institute of Medicine, National Academy of Sciences, National Academy of Engineering, Institute of Medicine, Committee on Science, Engineering, and Public Policy, 1999-04-18 Although the United States is currently capitalizing on its investment in science and technology effectively there remains much room for improvement This volume identifies the ingredients for success in capitalizing on such investments to produce national benefits assesses current U S performance and identifies future challenges The book cites specific examples and examines several cross cutting issues It explores the possibility that the national research portfolio is losing diversity as a result of less long term research in critical fields such as networking and materials It also examines the implications of imbalances in the supply of and demand for science and engineering talent in emerging interdisciplinary fields such as bioinformatics Capitalizing on Investments in Science and Technology Committee on Science, Engineering, and Public Policy, National Academy of Sciences, National Academy of Engineering, Institute of Medicine, Institute of Medicine, National Academy of Sciences, National Academy of Engineering, 1999-04-01 Although the United States is currently capitalizing on its investment in science and technology effectively there remains much room for improvement This volume identifies the ingredients for success in capitalizing on such investments to produce national benefits assesses current U S performance and identifies future challenges The book cites specific examples and examines several cross cutting issues It explores the possibility that the national research portfolio is losing diversity as a result of less long term research in critical fields such as networking and materials It also examines the implications of imbalances in the supply of and demand for science and engineering talent in emerging interdisciplinary fields such as bioinformatics **Comprehensive Intellectual Capital Management** Nermien Al-Ali, 2003-03-20 Learn the fundamentals practices and models of intellectual capital management with this essential resource Providing a business oriented critical review of the definitions practices tools and models that are available today its approach enables you to understand and retain the cutting edge issues in the emerging field of intellectual capital management Includes a diagnostic tool that you can use to assess your position on the continuum of intellectual capital management and leverage your competitive advantage Provides plenty of real life examples and case studies including Dow Chemical and American Skandia Offers checklists for steps required for the three main processes of intellectual capital management knowledge innovation and intellectual property management and more Order your copy today *The Oxford Handbook of Innovation* Jan Fagerberg, David C. Mowery, Richard R. Nelson, 2006-01-19 This handbook provides academics and students with a comprehensive and holistic understanding of the phenomenon of innovation **Science & Engineering**

Indicators ,2002 **Securing America's Interest in Iraq** United States. Congress. Senate. Committee on Foreign Relations,2007 Materials Needs and R&D Strategy for Future Military Aerospace Propulsion Systems National Research Council,Division on Engineering and Physical Sciences,National Materials and Manufacturing Board,Committee on Materials Needs and R&D Strategy for Future Military Aerospace Propulsion Systems,2011-07-20 The ongoing development of military aerospace platforms requires continuous technology advances in order to provide the nation s war fighters with the desired advantage Significant advances in the performance and efficiency of jet and rocket propulsion systems are strongly dependent on the development of lighter more durable high temperature materials Materials development has been significantly reduced in the United States since the early 1990s when the Department of Defense DOD the military services and industry had very active materials development activities to underpin the development of new propulsion systems This resulted in significant improvements in all engine characteristics and established the United States in global propulsion technology Many of the significant advances in aircraft and rocket propulsion have been enabled by improved materials and materials manufacturing processes To improve efficiency further engine weight must be reduced while preserving thrust Materials Needs and Research and Development Strategy for Future Military Aerospace Propulsion Systems examines whether current and planned U S efforts are sufficient to meet U S military needs while keeping the U S on the leading edge of propulsion technology This report considers mechanisms for the timely insertion of materials in propulsion systems and how these mechanisms might be improved and describes the general elements of research and development strategies to develop materials for future military aerospace propulsion systems The conclusions and recommendations asserted in this report will enhance the efficiency level of effort and impact of DOD materials development activities Commun?c?t?on T?chnolog?c?l D?v?lopment Soukina Toubali,2009-07-01 **Measuring the Impacts of Federal Investments in Research** The National Academies,Policy and Global Affairs,Committee on Science, Engineering, and Public Policy,Board on Science, Technology, and Economic Policy,Committee on Measuring Economic and Other Returns on Federal Research Investments,2011-10-01 The enactment of the America COMPETES Act in 2006 and its reauthorization in 2010 the increase in research expenditures under the 2009 American Recovery and Reinvestment Act ARRA and President Obama s general emphasis on the contribution of science and technology to economic growth have all heightened interest in the role of scientific and engineering research in creating jobs generating innovative technologies spawning new industries improving health and producing other economic and societal benefits Along with this interest has come a renewed emphasis on a question that has been asked for decades Can the impacts and practical benefits of research to society be measured either quantitatively or qualitatively On April 18 19 2011 the Board on Science Technology and Economic Policy STEP and the Committee on Science Engineering and Public Policy COSEPUP of the National Academy of Sciences the National Academy of Engineering and the Institute of Medicine held a workshop to examine this question The workshop sought to assemble the

range of work that has been done in measuring research outcomes and to provide a forum to discuss its method The workshop was motivated by a 2009 letter from Congressman Rush Holt D New Jersey He asked the National Academies to look into a variety of complex and interconnected issues such as the short term and long term economic and non economic impact of federal research funding factors that determine whether federally funded research discoveries result in economic benefits and quantification of the impacts of research on national security the environment health education public welfare and decision making Measuring the Impacts of Federal Investments in Research provides the key observations and suggestions made by the speakers at the workshop and during the discussions that followed the formal presentations

U.S. Industry in 2000 National Research Council, Board on Science, Technology, and Economic Policy, 1999-06-11 U S industry faced a gloomy outlook in the late 1980s Then industrial performance improved dramatically through the 1990s and appears pervasively brighter today A look at any group of industries however reveals important differences in the factors behind the resurgence in industry structure and strategy research performance and location of activities as well as similarities in the national policy environment impact of information technology and other factors U S Industry in 2000 examines eleven key manufacturing and service industries and explores how they arrived at the present and what they face in the future It assesses changing practices in research and innovation technology adoption and international operations Industry analyses shed light on how science and technology are applied in the marketplace how workers fare as jobs require greater knowledge and how U S firms responded to their chief competitors in Europe and Asia The book will be important to a wide range of readers with a stake in U S industrial performance corporate executives investors labor representatives faculty and students in business and economics and public policymakers

Securing Americas Industrial Strength Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has been much more evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Securing Americas Industrial Strength**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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Securing Americas Industrial Strength Introduction

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a break pressure tank which includes a tank structure a pipe arrangement defining a flow line leading through the tank structure from an inlet end connectable to a pipeline from reservoir and entering the tank structure near the top end thereof to an outlet end connectable to a pipeline leading to water supply points and leaving the tank

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construction the break pressure tank consists of the following 1000l 3cr12 stainless steel tank basket strainer with flush valve butterfly valve for isolation diaphragm operated level control valve inlet outlet and overflow pipe work operation the diaphragm valve in the bpt opens and closes as system demand fluctuates

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break pressure tank is a structure that is located between a water reservoir and supply point with the aim of reducing the pressure in the system to zero atmospheric pressure conventional break pressure tank is constructed of concrete in rectangular shape with the depth of the tank about 1.2m

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break pressure tanks which are usually made of concrete or ferrocement if break pressure tanks are used the hydraulic gradient starts again at the tank water level if suitably sized these tanks can be used within the system as storage tanks to meet peak demand reservoir storage tanks although a village's water needs are based upon a

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sep 28 2009 the velocity at the terminal point is 1.02m/s the pressure is assumed to be 18bars at the outlet point the principle of the break pressure tank is not to dissipate this energy via exit losses but rather by discharging the water into a tank with a free surface

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research and insight break tank break tanks are implemented in boosting systems to supply the system if the mains supply becomes insufficient tanks are also implemented in series connected boosting systems a break tank is also used to ensure that a surge from the starting and stopping pumps doesn't affect the mains distribution

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may 2 2016 installation of break pressure tanks bpts at proper locations on such pipelines provides a good solution to control water hammer pressure in the pipeline in some cases the pipeline on the downstream side of the bpt may be in the form of an inverted siphon

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if you need to reduce the pressure in a water network you can either use a break pressure tank or a pressure reducing valve the following video demonstrates how to model and analyse a water network with a break pressure tank this video can also be found in our training on demand site bulk water channel

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aug 17 2020 after planning and selecting the site now turn to construct the bpt mostly the bpt is constructed downstream it is generally constructed of stone masonry rcc ferro cement etc bpt is a rectangular tank structure having a base of 1000mm 1000mm and a height of 1200mm

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nov 14 2020 the water is lifted to break pressure tank by pumping main and thereafter it is conveyed to water treatment plant using gravity main the variable cost parameters of the transmission system such as cost of pipes pumps and energy are studied

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this invention relates to a break pressure tank a break pressure tank as herein envisaged is used in a downstream location with respect to a water reservoir particularly for reducing and

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