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June 2012 Physical Science Memorandum

Richard Bailey



June 2012 Physical Science Memorandum:

Triennial Review of the National Nanotechnology Initiative National Research Council, Division on Engineering and Physical Sciences, National Materials and Manufacturing Board, Committee on Triennial Review of the National Nanotechnology Initiative: Phase II, 2014-01-20 The National Nanotechnology Initiative NNI is a multiagency multidisciplinary federal initiative comprising a collection of research programs and other activities funded by the participating agencies and linked by the vision of a future in which the ability to understand and control matter at the nanoscale leads to a revolution in technology and industry that benefits society As first stated in the 2004 NNI strategic plan the participating agencies intend to make progress in realizing that vision by working toward four goals Planning coordination and management of the NNI are carried out by the interagency Nanoscale Science Engineering and Technology NSET Subcommittee of the National Science and Technology Council NSTC Committee on Technology CoT with support from the National Nanotechnology Coordination Office NNCO Triennial Review of the National Nanotechnology Initiative is the latest National Research Council review of the NNI an assessment called for by the 21st Century Nanotechnology Research and Development Act of 2003 The overall objective of the review is to make recommendations to the NSET Subcommittee and the NNCO that will improve the NNI's value for basic and applied research and for development of applications in nanotechnology that will provide economic societal and national security benefits to the United States In its assessment the committee found it important to understand in some detail and to describe in its report the NNI's structure and organization how the NNI fits within the larger federal research enterprise as well as how it can and should be organized for management purposes and the initiative's various stakeholders and their roles with respect to research Because technology transfer one of the four NNI goals is dependent on management and coordination the committee chose to address the topic of technology transfer last following its discussion of definitions of success and metrics for assessing progress toward achieving the four goals and management and coordination Addressing its tasks in this order would the committee hoped better reflect the logic of its approach to review of the NNI Triennial Review of the National Nanotechnology Initiative also provides concluding remarks in the last chapter

Open Skies Kenneth I. Kellermann, Ellen N. Bouton, Sierra S. Brandt, 2020-06-29 This open access book on the history of the National Radio Astronomy Observatory covers the scientific discoveries and technical innovations of late 20th century radio astronomy with particular attention to the people and institutions involved The authors have made extensive use of the NRAO Archives which contain an unparalleled collection of documents pertaining to the history of radio astronomy including the institutional records of NRAO as well as the personal papers of many of the pioneers of U S radio astronomy Technical details and extensive citations to original sources are given in notes for the more technical readers but are not required for an understanding of the body of the book This book is intended for an audience ranging from interested lay readers to professional researchers studying the scientific technical political and cultural development of a

new science and how it changed the course of 20th century astronomy With a Foreword by Ron Ekers **An Assessment of the Prospects for Inertial Fusion Energy** National Research Council, Division on Engineering and Physical Sciences, Board on Energy and Environmental Systems, Board on Physics and Astronomy, Committee on the Prospects for Inertial Confinement Fusion Energy Systems, 2013-07-05 The potential for using fusion energy to produce commercial electric power was first explored in the 1950s Harnessing fusion energy offers the prospect of a nearly carbon free energy source with a virtually unlimited supply of fuel Unlike nuclear fission plants appropriately designed fusion power plants would not produce the large amounts of high level nuclear waste that requires long term disposal Due to these prospects many nations have initiated research and development R compares the various technical approaches to IFE and identifies the scientific and engineering challenges associated with developing inertial confinement fusion ICF in particular as an energy source It also provides guidance on an R D roadmap at the conceptual level for a national program focusing on the design and construction of an inertial fusion energy demonstration plant **Commerce, Justice, Science, and Related Agencies Appropriations for 2016** United States. Congress. House. Committee on Appropriations. Subcommittee on Commerce, Justice, Science, and Related Agencies, 2015 **Disorder and the Disinformation Society** Jonathan Paul Marshall, James Goodman, Didar Zowghi, Francesca da Rimini, 2015-04-17 This book is the first general social analysis that seriously considers the daily experience of information disruption and software failure within contemporary Western society Through an investigation of informationalism defined as a contemporary form of capitalism it describes the social processes producing informational disorder While most social theory sees disorder as secondary pathological or uninteresting this book takes disordering processes as central to social life The book engages with theories of information society which privilege information order offering a strong counterpoint centred on disinformation Disorder and the Disinformation Society offers a practical agenda arguing that difficulties in producing software are both inherent to the process of developing software and in the social dynamics of informationalism It outlines the dynamics of software failure as they impinge on of information workers and on daily life explores why computerized finance has become inherently self disruptive asks how digital enclosure and intellectual property create conflicts over cultural creativity and disrupt informational accuracy and scholarship and reveals how social media can extend but also distort the development of social movements Commerce, Justice, Science, and Related Agencies Appropriations for 2017: Justification of the budget estimates United States. Congress. House. Committee on Appropriations. Subcommittee on Commerce, Justice, Science, and Related Agencies, 2016 **Interdisciplinarity** Andrew Barry, Georgina Born, 2013-06-26 The idea that research should become more interdisciplinary has become commonplace According to influential commentators the unprecedented complexity of problems such as climate change or the social implications of biomedicine demand interdisciplinary efforts integrating both the social and natural sciences In this context the question of whether a given knowledge practice is too disciplinary or interdisciplinary or not disciplinary enough has

become an issue for governments research policy makers and funding agencies Interdisciplinarity in short has emerged as a key political preoccupation yet the term tends to obscure as much as illuminate the diverse practices gathered under its rubric This volume offers a new approach to theorising interdisciplinarity showing how the boundaries between the social and natural sciences are being reconfigured It examines the current preoccupation with interdisciplinarity notably the ascendance of a particular discourse in which it is associated with a transformation in the relations between science technology and society Contributors address attempts to promote collaboration between on the one hand the natural sciences and engineering and on the other the social sciences arts and humanities From ethnography in the IT industry to science and technology studies environmental science to medical humanities cybernetics to art science the collection interrogates how interdisciplinarity has come to be seen as a solution not only to enhancing relations between science and society but the pursuit of accountability and the need to foster innovation Interdisciplinarity is essential reading for scholars students and policy makers across the social sciences arts and humanities including anthropology geography sociology science and technology studies and cultural studies as well as all those engaged in interdisciplinary research It will have particular relevance for those concerned with the knowledge economy science policy environmental politics applied anthropology ELSI research medical humanities and art science

Coercive Care Bernadette Mcsherry,Ian Freckelton,2013-06-26 There has been much debate about mental health law reform and mental capacity legislation in recent years with the UN Convention on the Rights of Persons with Disabilities also having a major impact on thinking about the issue This edited volume explores the concept of coercive care in relation to individuals such as those with severe mental illnesses those with intellectual and cognitive disabilities and those with substance use problems With a focus on choice and capacity the book explores the impact of and challenges posed by the provision of care in an involuntary environment The contributors to the book look at mental health capacity and vulnerable adult s care as well as the law related to those areas The book is split into four parts which cover human rights and coercive care legal capacity and coercive care the legal coordination of coercive care and coercive care and individuals with cognitive impairments The book covers new ground by exploring issues arising from the coercion of persons with various disabilities and vulnerabilities helping to illustrate how the capacity to provide consent to treatment and care is impaired by reason of their condition

Forensic Criminology Andy Williams,2014-09-02 This text provides an examination of the aetiological development of forensic criminology in the UK It links the subjects of scientific criminology criminal investigations crime scene investigation forensic science and the legal system and it provides an introduction to the important processes that take place between the crime scene and the courtroom These processes help identify define and label the criminal and are crucial for understanding any form of crime within society The book includes sections on the epistemological and ontological philosophies of the natural sciences the birth of scientific criminology and its search for the criminal body the development of early forms of forensic science and

crime scene investigation investigating crime information material and evidence crime analysis and crime mapping scientific support and crime scene examination and forensic science and detection methods and forensics in the courtroom The text combines coverage of historical research and contemporary criminal justice processes and provides an introduction to the most common forensic practices procedures and uses that enable the identification and successful prosecution of criminals Forensic Criminology is essential for students of criminology criminal justice criminal investigations and crime science It is also useful to those criminal justice practitioners wishing to gain a more in depth understanding of the links between criminology criminal investigations and forensics techniques Green Energy Economies John Byrne,Young-Doo

Wang,2017-09-08 Green Energy Economies offers insight into the major drivers that are shaping a new future powered by clean energy sources Assembling cutting edge researchers as contributors the book provides a comprehensive account of the shift underway examining in detail the complexities and intricacies involved with such a transition The book first details the promises and problems of a green energy transition Next it explores the economic benefits that a comprehensive strategy toward a green energy economy might create Then it investigates how communities will be affected and explores the social cultural and other changes that are likely to result Finally it explores the shift toward new technologies in depth Green Energy Economies concludes with policy options that support a transition to a better energy environmental and economic future The contributors argue that a green energy economy offers great promise but its realization will require making hard choices and soon They argue for investments in renewable energy and economic systems that can deliver a sustainable and equitable future This book makes a forceful case for a green future **Global Issues and Ethical Considerations in**

Human Enhancement Technologies Thompson, Steven John,2014-04-30 With rapid advancements in human enhancement technologies society struggles with many issues such as definition effects participation regulation and control Current and future initiatives in these technologies may not be in the participants best interests therefore it is imperative for research on humanitarian considerations to be available to those affiliated with this field Global Issues and Ethical Considerations in Human Enhancement Technologies compiles prestigious research and provides a well rounded composite of the field s role in emerging technologies Addressing both present and future concerns this publication serves as a valuable reference work for researchers students professionals and practitioners involved in computer science and the humanities as well as many engaged in a humanities approach to metasystems new artificial life and robotics *Crisis and Ontological Insecurity* Filip Ejdus,2019-07-01 This book develops a novel way of thinking about crises in world politics By building on ontological security theory this work conceptualises critical situations as radical disjunctions that challenge the ability of collective agents to go on These ontological crises bring into the realm of discursive consciousness four fundamental questions related to existence finitude relations and autobiography In times of crisis collective agents such as states are particularly attached to their ontic spaces or spatial extensions of the self that cause collective identities to appear more firm and continuous These theoretical

arguments are illustrated in a case study looking at Serbia's anxiety over the secession of Kosovo. The author argues that Serbia's seemingly irrational and self-harming policy vis-à-vis Kosovo can be understood as a form of ontological self-help. It is a rational pursuit of biographical continuity and a healthy sense of self in the face of an ontological crisis triggered by the secession of a province that has been constructed as the ontic space of the Serbian nation since the late 19th century.

Environmental Risk Assessment Ted Simon, 2014-02-05 The purpose of risk assessment is to support science-based decisions about how to solve complex societal problems. The problems we face in the twenty-first century have many social, political, and technical complexities. Environmental risk assessment in particular is of increasing importance as a means of seeking to address the potential effects of **International Handbook of Research in History, Philosophy and Science Teaching**

Michael R. Matthews, 2014-07-03 This inaugural handbook documents the distinctive research field that utilizes history and philosophy in investigation of theoretical, curricular, and pedagogical issues in the teaching of science and mathematics. It is contributed to by 130 researchers from 30 countries; it provides a logically structured, fully referenced guide to the ways in which science and mathematics education is informed by the history and philosophy of these disciplines, as well as by the philosophy of education more generally. The first handbook to cover the field, it lays down a much-needed marker of progress to date and provides a platform for informed and coherent future analysis and research of the subject. The publication comes at a time of heightened worldwide concern over the standard of science and mathematics education, attended by fierce debate over how best to reform curricula and enliven student engagement in the subjects. There is a growing recognition among educators and policy makers that the learning of science must dovetail with learning about science; this handbook is uniquely positioned as a locus for the discussion. The handbook features sections on pedagogical, theoretical, national, and biographical research, setting the literature of each tradition in its historical context. It reminds readers at a crucial juncture that there has been a long and rich tradition of historical and philosophical engagements with science and mathematics teaching, and that lessons can be learnt from these engagements for the resolution of current theoretical, curricular, and pedagogical questions that face teachers and administrators. Science educators will be grateful for this unique encyclopaedic handbook. Gerald Holton, Physics Department, Harvard University. This handbook gathers the fruits of over thirty years' research by a growing international and cosmopolitan community. Fabio Bevilacqua, Physics Department, University of Pavia. *Commerce, Justice, Science, and Related Agencies Appropriations for 2015* United States Congress. House. Committee on Appropriations. Subcommittee on Commerce, Justice, Science, and Related Agencies, 2014.

Scientists' Expertise as Performance Joris Vandendriessche, Evert Peeters, Kaat Wils, 2015-10-06 The essays in this collection explore our reliance on experts within a historical context and across a wide range of fields including agriculture, engineering, health sciences, and labour management. Contributors argue that experts were highly aware of their audiences and used performance to gain both scientific and popular support. **Towards a Sustainable Economy** Pascal da

Costa, Danielle Attias, 2018-06-26 This book provides an interdisciplinary account of how technological advances mainly in the domains of energy and transportation contribute to the transformation towards a more sustainable economic system Drawing on methods from engineering the management sciences and economics which it combines in the framework of a systems sciences approach the book presents qualitative and quantitative studies on government regulation resources management and firms strategy Topics covered include the state market dilemma of government CO2 emission targets implications of the electrification of the economy incentives and coercion in government transport policies and innovations in the electric vehicle industry

Pathways to Reform Alexandra W. Logue, 2017-09-08 A personal account of the implementation of a controversial credit transfer program at the nation's third largest university Change is notoriously difficult in any large organization Institutions of higher education are no exception From 2010 to 2013 Alexandra Logue then chief academic officer of The City University of New York led a controversial reform initiative known as Pathways The program aimed to facilitate the transfer of credits among the university's nineteen constituent colleges in order to improve graduation rates a long recognized problem for public universities such as CUNY Hotly debated Pathways met with vociferous resistance from many faculty members drew the attention of local and national media and resulted in lengthy legal action In *Pathways to Reform* Logue the figure at the center of the maelstrom blends vivid personal narrative with an objective perspective to tell how this hard fought plan was successfully implemented at the third largest university in the United States Logue vividly illustrates why change does or does not take place in higher education and the professional and personal tolls exacted Looking through the lens of the Pathways program and factoring in key players she analyzes how governance structures and conflicting interests along with other institutional factors impede change which Logue shows is all too rare slow and costly In this environment she argues it is shared governance combined with a strong central decision making authority that best facilitates necessary reform Logue presents a compelling investigation of not only transfer policy but also power dynamics and university leadership Shedding light on the inner workings of one of the most important public institutions in the nation *Pathways to Reform* provides the first full account of how despite opposition a complex higher education initiative was realized All net royalties received by the author from sales of this book will be donated to The City University of New York to support undergraduate student financial aid

Problem Solving with the Private Sector Daniel E. Bromberg, 2016-03-31 *Problem Solving with the Private Sector* presents advice and solutions for fruitful government business alliances from the perspective of everyday public management With a focus on job training economic development regulation and finance and innovation each chapter discusses a traditional tool of government presented in a practical and applied manner as well as the implementation of the tool with clear examples Content rich case studies on a wide range of policy issues including regulatory policy natural resources manufacturing financial services and health care highlight opportunities for government and business to collaborate to pursue the public good This book offers current and future public managers possible solutions

to complex problems for effective government business alliances in a range of settings It is essential reading for all those studying public management public administration and public policy

Overcoming Barriers to Deployment of Plug-in Electric Vehicles National Research Council, Transportation Research Board, Division on Engineering and Physical Sciences, Board on Energy and Environmental Systems, Committee on Overcoming Barriers to Electric-Vehicle Deployment, 2015-06-26

In the past few years interest in plug in electric vehicles PEVs has grown Advances in battery and other technologies new federal standards for carbon dioxide emissions and fuel economy state zero emission vehicle requirements and the current administration's goal of putting millions of alternative fuel vehicles on the road have all highlighted PEVs as a transportation alternative Consumers are also beginning to recognize the advantages of PEVs over conventional vehicles such as lower operating costs smoother operation and better acceleration the ability to fuel up at home and zero tailpipe emissions when the vehicle operates solely on its battery There are however barriers to PEV deployment including the vehicle cost the short all electric driving range the long battery charging time uncertainties about battery life the few choices of vehicle models and the need for a charging infrastructure to support PEVs What should industry do to improve the performance of PEVs and make them more attractive to consumers At the request of Congress Overcoming Barriers to Deployment of Plug in Electric Vehicles identifies barriers to the introduction of electric vehicles and recommends ways to mitigate these barriers This report examines the characteristics and capabilities of electric vehicle technologies such as cost performance range safety and durability and assesses how these factors might create barriers to widespread deployment Overcoming Barriers to Deployment of Plug in Electric Vehicles provides an overview of the current status of PEVs and makes recommendations to spur the industry and increase the attractiveness of this promising technology for consumers Through consideration of consumer behaviors tax incentives business models incentive programs and infrastructure needs this book studies the state of the industry and makes recommendations to further its development and acceptance

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