



basic education

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MEMORANDUM

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Physical Sciences November 2014 Memorandum

**National Research Council, Division on
Engineering and Physical
Sciences, Space Studies
Board, Committee on Assessment of
Impediments to Interagency
Cooperation on Space and Earth
Science Missions**

Physical Sciences November 2014 Memorandum:

Historical Guide to NASA and the Space Program Ann Beardsley, C. Tony Garcia, Joseph Sweeney, 2016-09-09 NASA the National Aeronautics and Space Administration created in the wake of the Space Act has and continues to accomplish those precepts every day With many hundreds of satellites launched into space and close to 200 human spaceflights NASA is a proven leader in space exploration Most of the US space exploration efforts have been led by NASA including the Apollo moon landing missions the Skylab space station and later the Space Shuttle Currently NASA is supporting the International Space Station and is overseeing the development of the Orion Multi Purpose Crew Vehicle the Space Launch System and Commercial Crew vehicles NASA is also responsible for the Launch Services Program which provides oversight of launch operations and countdown management for unmanned NASA launches The Historical Guide to NASA and the Space Program contains a chronology an introduction appendixes and an extensive bibliography The dictionary section has over 500 cross referenced entries on space missions astronauts technical terms space shuttles satellites and the international space station This book is an excellent access point for students researchers and anyone wanting to know more about NASA and space exploration Force Multiplying Technologies for Logistics Support to Military Operations National Research Council, Division on Engineering and Physical Sciences, Board on Army Science and Technology, Committee on Force Multiplying Technologies for Logistics Support to Military Operations, 2014-12-15 The mission of the United States Army is to fight and win our nation's wars by providing prompt sustained land dominance across the full range of military operations and spectrum of conflict in support of combatant commanders Accomplishing this mission rests on the ability of the Army to equip and move its forces to the battle and sustain them while they are engaged Logistics provides the backbone for Army combat operations Without fuel ammunition rations and other supplies the Army would grind to a halt The U S military must be prepared to fight anywhere on the globe and in an era of coalition warfare to logistically support its allies While aircraft can move large amounts of supplies the vast majority must be carried on ocean going vessels and unloaded at ports that may be at a great distance from the battlefield As the wars in Afghanistan and Iraq have shown the costs of conveying vast quantities of supplies is tallied not only in economic terms but also in terms of lives lost in the movement of the materiel As the ability of potential enemies to interdict movement to the battlefield and interdict movements in the battlespace increases the challenge of logistics grows even larger No matter how the nature of battle develops logistics will remain a key factor Force Multiplying Technologies for Logistics Support to Military Operations explores Army logistics in a global complex environment that includes the increasing use of antiaccess and area denial tactics and technologies by potential adversaries This report describes new technologies and systems that would reduce the demand for logistics and meet the demand at the point of need make maintenance more efficient improve inter and intratheater mobility and improve near real time in transit visibility Force Multiplying Technologies also explores options for the Army to operate with the other services and improve

its support of Special Operations Forces This report provides a logistics centric research and development investment strategy and illustrative examples of how improved logistics could look in the future

Crime, Violence, and Global Warming John Crank,Linda Jacoby,2015-05-20 Crime Violence and Global Warming introduces the many connections between climate change and criminal activity Conflict over natural resources can escalate to state and non state actors resulting in wars asymmetrical warfare and terrorism Crank and Jacoby apply criminological theory to each aspect of this complicated web helping readers to evaluate conflicting claims about global warming and to analyze evidence of the current and potential impact of climate change on conflict and crime Beginning with an overview of the science of global warming the authors move on to the links between climate change scarce resources and crime Their approach takes in the full scope of causes and consequences present and future in the United States and throughout the world The book concludes by looking ahead at the problem of forecasting future security implications if global warming continues or accelerates This fresh approach to the criminology of climate change challenges readers to examine all sides of this controversial question and to formulate their own analysis of our planet s future

Quantum Legacies David Kaiser,2020-03-25 A series of engaging essays that explore iconic moments of discovery and debate in physicists ongoing quest to understand the quantum world The ideas at the root of quantum theory remain stubbornly famously bizarre a solid world reduced to puffs of probability particles that tunnel through walls cats suspended in zombielike states neither alive nor dead and twinned particles that share entangled fates For more than a century physicists have grappled with these conceptual uncertainties while enmeshed in the larger uncertainties of the social and political worlds around them a time pocked by the rise of fascism cataclysmic world wars and a new nuclear age In Quantum Legacies David Kaiser introduces readers to iconic episodes in physicists still unfolding quest to understand space time and matter at their most fundamental In a series of vibrant essays Kaiser takes us inside moments of discovery and debate among the great minds of the era Albert Einstein Erwin Schr dinger Stephen Hawking and many more who have indelibly shaped our understanding of nature as they have tried to make sense of a messy world Ranging across space and time the episodes span the heady 1920s the dark days of the 1930s the turbulence of the Cold War and the peculiar political realities that followed In those eras as in our own researchers ambition has often been to transcend the vagaries of here and now to contribute lasting insights into how the world works that might reach beyond a given researcher s limited view In Quantum Legacies Kaiser unveils the difficult and unsteady work required to forge some shared understanding between individuals and across generations and in doing so he illuminates the deep ties between scientific exploration and the human condition

Space Studies Board Annual Report 2014 National Research Council,Division on Engineering and Physical Sciences,Space Studies Board,2015-04-10 The original charter of the Space Science Board was established in June 1958 3 months before the National Aeronautics and Space Administration NASA opened its doors The Space Science Board and its successor the Space Studies Board SSB have provided expert external and

independent scientific and programmatic advice to NASA on a continuous basis from NASA's inception until the present. The SSB has also provided such advice to other executive branch agencies including the National Oceanic and Atmospheric Administration, NOAA, the National Science Foundation, NSF, the U.S. Geological Survey, USGS, the Department of Defense, as well as to Congress. Space Studies Board Annual Report 2014 covers a message from the chair of the SSB, David N. Spergel. This report also explains the origins of the Space Science Board, how the Space Studies Board functions today, the SSB's collaboration with other National Research Council units, assures the quality of the SSB reports, acknowledges the audience and sponsors, and expresses the necessity to enhance the outreach and improve dissemination of SSB reports. This report will be relevant to a full range of government audiences in civilian space research including NASA, NSF, NOAA, USGS, and the Department of Energy, as well as members of the SSB policy makers and researchers.

Plant Defense Mechanisms Joseph N. Kimatu, 2022-06-28. Recent human migrations, technological advances, agricultural activities, and climate change-induced phenomenon have forced plants to increasingly adapt to new environments. This book highlights current morphological, anatomical, physiological, molecular, and genomic advances in plant defense mechanisms. These advances, including epigenetic mechanisms, have been linked to observed phenotypic plant plasticity. Researchers have found intriguing plant interactions and novel mechanisms which have increased our understanding of how sessile plants adapt to and thrive in challenging environments. The studies in this book consider the resilience and sustainability of plant genomes and epigenomes and the role they will play in the next generation of food systems.

Owning the Technical Baseline for Acquisition Programs in the U.S. Air Force. National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Air Force Studies Board, Committee on Owning the Technical Baseline for Acquisition Programs in the U.S. Air Force: A Study, 2016-11-25. While there are examples of successful weapon systems acquisition programs within the U.S. Air Force, USAF, many of the programs are still incurring cost growth, schedule delays, and performance problems. The USAF now faces serious challenges in acquiring and maintaining its weapons systems as it strives to maintain its current programs, add new capabilities to counter evolving threats, and reduce its overall program expenditures. Owning the technical baseline is a critical component of the Air Force's ability to regain and maintain acquisition excellence. Owning the technical baseline allows the government acquisition team to manage and respond knowledgeably and effectively to systems development, operations, and execution, thereby avoiding technical and other programmatic barriers to mission success. Additionally, owning the technical baseline ensures that government personnel understand the user requirements, why a particular design and its various features have been selected over competing designs, and what the options are to pursue alternative paths to the final product given unanticipated cost, schedule, and performance challenges. *Owning the Technical Baseline for Acquisition Programs in the U.S. Air Force* discusses the strategic value to the Air Force of owning the technical baseline and the risk of not owning it, and highlights key aspects of how agencies other than the Air Force own the technical baseline for their

acquisition programs This report identifies specific barriers to owning the technical baseline for the Air Force and makes recommendations to help guide the Air Force in overcoming those barriers

Social Science and National Security Policy Janeen M. Klinger, 2019-02-07 This book examines how deterrence coercion and modernization theory has informed U S policy addressing why former Defense Secretary Robert McNamara s famous description of the Vietnam War as the social scientist s war is so accurate By tracing the evolution of ties between social scientists and the government beginning in World War I and continuing through the Second World War and the early Cold War the narrative highlights the role of institutions like the RAND Corporation the Social Science Research Council and MIT s Center for International Studies that facilitate these ties while providing a home for the development of theory The author compares and contrasts the ideas of Bernard Brodie Herman Kahn Albert Wohlstetter Thomas Schelling Gabriel Almond Lucian Pye and Walt Rostow among others and offers a cautionary tale concerning the difficulties and problems encountered when applying social science theory to national security policy

Professional Journal of the United States Army , 2015 *Open Science by Design* National Academies of Sciences, Engineering, and Medicine, Policy and Global Affairs, Board on Research Data and Information, Committee on Toward an Open Science Enterprise, 2018-09-09 Openness and sharing of information are fundamental to the progress of science and to the effective functioning of the research enterprise The advent of scientific journals in the 17th century helped power the Scientific Revolution by allowing researchers to communicate across time and space using the technologies of that era to generate reliable knowledge more quickly and efficiently Harnessing today s stunning ongoing advances in information technologies the global research enterprise and its stakeholders are moving toward a new open science ecosystem Open science aims to ensure the free availability and usability of scholarly publications the data that result from scholarly research and the methodologies including code or algorithms that were used to generate those data Open Science by Design is aimed at overcoming barriers and moving toward open science as the default approach across the research enterprise This report explores specific examples of open science and discusses a range of challenges focusing on stakeholder perspectives It is meant to provide guidance to the research enterprise and its stakeholders as they build strategies for achieving open science and take the next steps

Aligning the Governance Structure of the NNSA Laboratories to Meet 21st Century National Security Challenges National Research Council, Division on Engineering and Physical Sciences, Laboratory Assessments Board, Committee on Assessment of the Governance Structure of the NNSA National Security Laboratories, 2015-03-13 Aligning the Governance Structure of the NNSA Laboratories to Meet 21st Century National Security Challenges is an independent assessment regarding the transition of the National Nuclear Security Administration NNSA laboratories Los Alamos National Laboratory Lawrence Livermore National Laboratory and Sandia National Laboratories to multiagency federally funded research and development centers with direct sustainment and sponsorship by multiple national security agencies This report makes recommendations for the governance of NNSA

laboratories to better align with the evolving national security landscape and the laboratories increasing engagement with the other national security agencies while simultaneously encouraging the best technical solutions to national problems from the entire range of national security establishments According to this report the Department of Energy should remain the sole sponsor of the NNSA laboratories as federally funded research and development centers The NNSA laboratories will remain a critically important resource to meet U S national security needs for many decades to come The recommendations of Aligning the Governance Structure of the NNSA Laboratories to Meet 21st Century National Security Challenges will improve the governance of the laboratories and strengthen their strategic relationship with the non DOE national security agencies

The Growing Threat to Air Force Mission-Critical Electronics National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Intelligence Community Studies Board, Air Force Studies Board, Committee on a Strategy for Acquiring Secure and Reliable Electronic Components for Air Force Weapon Systems, 2019-07-09 High performance electronics are key to the U S Air Force s USAF s ability to deliver lethal effects at the time and location of their choosing Additionally these electronic systems must be able to withstand not only the rigors of the battlefield but be able to perform the needed mission while under cyber and electronic warfare EW attack This requires a high degree of assurance that they are both physically reliable and resistant to adversary actions throughout their life cycle from design to sustainment In 2016 the National Academies of Sciences Engineering and Medicine convened a workshop titled Optimizing the Air Force Acquisition Strategy of Secure and Reliable Electronic Components and released a summary of the workshop This publication serves as a follow on to provide recommendations to the USAF acquisition community

Treaties in Force ,2016 *Semiconductor TeraHertz Technology* Guillermo Carpintero, Enrique Garcia-Munoz, Hans Hartnagel, Sascha Preu, Antti Raisanen, 2015-09-28 Key advances in Semiconductor Terahertz THz Technology now promises important new applications enabling scientists and engineers to overcome the challenges of accessing the so called terahertz gap This pioneering reference explains the fundamental methods and surveys innovative techniques in the generation detection and processing of THz waves with solid state devices as well as illustrating their potential applications in security and telecommunications among other fields With contributions from leading experts Semiconductor Terahertz Technology Devices and Systems at Room Temperature Operation comprehensively and systematically covers semiconductor based room temperature operating sources such as photomixers THz antennas radiation concepts and THz propagation as well as room temperature operating THz detectors The second part of the book focuses on applications such as the latest photonic and electronic THz systems as well as emerging THz technologies including whispering gallery resonators liquid crystals metamaterials and graphene based devices This book will provide support for practicing researchers and professionals and will be an indispensable reference to graduate students in the field of THz technology Key features Includes crucial theoretical background sections to photomixers photoconductive switches and electronic THz generation detection Provides

an extensive overview of semiconductor based THz sources and applications Discusses vital technologies for affordable THz applications Supports teaching and studying increasingly popular courses on semiconductor THz technology **United States Department of State Treaties in Force; A List of Treaties and Other International Agreements of the United States in Force on January 1, 2018 , Assessment of Impediments to Interagency Collaboration on Space and Earth Science Missions** National Research Council,Division on Engineering and Physical Sciences,Space Studies Board,Committee on Assessment of Impediments to Interagency Cooperation on Space and Earth Science Missions,2011-07-01 Through an examination of case studies agency briefings and existing reports and drawing on personal knowledge and direct experience the Committee on Assessment of Impediments to Interagency Cooperation on Space and Earth Science Missions found that candidate projects for multiagency collaboration in the development and implementation of Earth observing or space science missions are often intrinsically complex and therefore costly and that a multiagency approach to developing these missions typically results in additional complexity and cost Advocates of collaboration have sometimes underestimated the difficulties and associated costs and risks of dividing responsibility and accountability between two or more partners they also discount the possibility that collaboration will increase the risk in meeting performance objectives This committee s principal recommendation is that agencies should conduct Earth and space science projects independently unless It is judged that cooperation will result in significant added scientific value to the project over what could be achieved by a single agency alone or Unique capabilities reside within one agency that are necessary for the mission success of a project managed by another agency or The project is intended to transfer from research to operations necessitating a change in responsibility from one agency to another during the project or There are other compelling reasons to pursue collaboration for example a desire to build capacity at one of the cooperating agencies Even when the total project cost may increase parties may still find collaboration attractive if their share of a mission is more affordable than funding it alone In these cases alternatives to interdependent reliance on another government agency should be considered For example agencies may find that buying services from another agency or pursuing interagency coordination of spaceflight data collection is preferable to fully interdependent cooperation **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,2013-12-20 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

Treaties In Force: A List Of Treaties and Other International Agreements of the United States in Force on January 1, 2016 State Dept., Office of the Legal Adviser, Treaty Affairs Staff, 2017-02-02

Treaties in Force is prepared by the Department of State for the purpose of providing information on treaties and other international agreements to which the United States has become a party and which are carried on the records of the Department of State as being in force as of its stated publication date January 1 2016 *Treaties in Force* is arranged in two sections Section 1 includes bilateral treaties and other international agreements listed by country or other international entity with subject headings under each entry Arrangements with territorial possessions of a country appear at the end of the entry for that country In some cases treaties and international agreements applicable to a territory prior to its independence are included in the entry for that country on the basis of its assumption of treaty obligations upon becoming independent as noted at the beginning of the entry for that country For convenience some treaties and agreements concluded with countries whose name or statehood status has changed continue to be listed under the name in use at the time the agreement was concluded if the title of the treaty or agreement has not been formally amended Section 2 lists multilateral treaties and other international agreements to which the United States is a party arranged by subject The depositary is the authoritative source for a current list of parties and information on other matters concerning the status of the agreement and status information often changes Information is provided on the depositary for the agreement in question and contact information including an Internet site is provided for the depositary where available Related products International Foreign Affairs resources collection can be found here <https://bookstore.gpo.gov/catalog/international-foreign>

affairs **Atomic Doctors** James L. Nolan Jr.,2020-08-06 An unflinching examination of the moral and professional dilemmas faced by physicians who took part in the Manhattan Project After his father died James L Nolan Jr took possession of a box of private family materials To his surprise the small secret archive contained a treasure trove of information about his grandfather s role as a doctor in the Manhattan Project Dr Nolan it turned out had been a significant figure A talented ob gyn radiologist he cared for the scientists on the project organized safety and evacuation plans for the Trinity test at Alamogordo escorted the Little Boy bomb from Los Alamos to the Pacific Islands and was one of the first Americans to enter the irradiated ruins of Hiroshima and Nagasaki Participation on the project challenged Dr Nolan s instincts as a healer He and his medical colleagues were often conflicted torn between their duty and desire to win the war and their oaths to protect life Atomic Doctors follows these physicians as they sought to maximize the health and safety of those exposed to nuclear radiation all the while serving leaders determined to minimize delays and maintain secrecy Called upon both to guard against the harmful effects of radiation and to downplay its hazards doctors struggled with the ethics of ending the deadliest of all wars using the most lethal of all weapons Their work became a very human drama of ideals co optation and complicity A vital and vivid account of a largely unknown chapter in atomic history Atomic Doctors is a profound meditation on the moral dilemmas that ordinary people face in extraordinary times *Strangely, Friends* Karen Dubinsky,2025-09-23 *Strangely Friends* delves into the rich often overlooked history of personal and cultural connections between Cubans and Canadians From the early days of the Cuban Revolution to the present this book uncovers the stories of Canadians who were drawn to Cuba teachers artists development aid workers filmmakers and activists who left an indelible mark on the island and Cubans especially the musicians who found a home in Canada Through intimate portraits and serendipitous encounters Karen Dubinsky explores how these relationships transcended political ideologies and state policies revealing a shared humanity that defies borders From the classrooms of Havana to the jazz clubs of Toronto this book captures the enduring bonds forged through music education and mutual curiosity offering a fresh perspective on the power of people to people connections

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