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MEMORANDUM

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Physical Sciences November 2014 Memorandum

**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**

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

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, 2018-08-09 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

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 *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 *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*, **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 **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> **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 *Globalization of Defense Materials and Manufacturing* National Academies of Sciences, Engineering, and Medicine,Division on Engineering and Physical Sciences,National Materials and Manufacturing Board,Defense Materials Manufacturing and Infrastructure Standing

Committee,2018-11-02 Emerging economies social and political transitions and new ways of doing business are changing the world dramatically To be the leader in this competitive climate a defense manufacturing enterprise will require up to date capabilities which include improvements in materials processing among other things Also national and international efforts to mitigate environmentally harmful effects of industrial processes and to improve decision making for handling and disposing of industrial contaminants adds additional requirements for any future efforts The objective of retaining high value materials related manufacturing as a key national competitive capability implies a number of factors The value of specific manufacturing capabilities could be defined not only in terms of criticality to defense systems but also in relation to technology and knowledge content importance as a supplier to other industries and importance to U S exports Requested by Department of Defense DoD communities the National Academies of Sciences Engineering and Medicine held a workshop in March 2015 to further explore materials and manufacturing processes The participants explored changes in the global R D landscape technology awareness mechanisms both DoD s mechanisms and other models and collaboration models and issues in R D This publication summarizes the presentations and discussions from the workshop **The Big Con** Nate

Hendley,2016-09-06 This book examines a broad range of infamous scams cons swindles and hoaxes throughout American history and considers why human gullibility continues in an age of easy access to information Covering American cons and hoaxes past and present including the Great Moon Hoax of 1835 the controversy over subliminal messaging do bands filmmakers and advertisers really put secret messages in their works the panic about satanic daycare operators in the 1980s and recent Internet scams this book provides a fascinating fact based look at infamous frauds across the centuries Offering an engaging mix of history sociology and psychology author Nate Hendley gives readers an appreciation of how prominent scams cons confidence men and hoaxes have impacted American society past and present Each entry details the scheme or hoax and the pertinent con artist schemer involved examining the sociological cultural political and or economic effect of the scams Each topic is accompanied by a short bibliography of further reading selections As the old saying goes There is a sucker born every minute and there has always been a keen eyed swindler to take advantage of the situation The Big Con Great Hoaxes Frauds Grifts and Swindles in American History explores this sordid underbelly of American civilization and invites readers to revel in the felonious experience 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.

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web rank second lieutenant unit 761st tank battalion jack roosevelt robinson january 31 1919 october 24 1972 was an american professional baseball player who became the first african american to play in major league baseball mlb in the modern era

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web jan 4 2012 rickey scheduled a seven game exhibition series between the dodgers and the royals to showcase robinson s skills and jackie dominated the contests with a 625 batting average one problem that rickey and robinson had to overcome was that the dodgers had eddie stanky playing second base

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web the big game is a game show created by jackson stanley productions which ran on nbc in prime time from june 13 to september 19 1958 it was hosted by tom kennedy marking his first national hosting gig wendell niles was the original announcer later replaced by johnny jacobs game play

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