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**PHYSICAL SCIENCES: CHEMISTRY (P2)  
FISIESE WETENSKAPPE: CHEMIE (V2)**

**NOVEMBER 2014**

**MEMORANDUM**

**MARKS/PUNTE: 150**

*This memorandum consists of 14 pages./  
Hierdie memorandum bestaan uit 14 bladsye.*

# Physical Sciences November 2014 Memorandum

**Rubén Arcos,Irena Chiru,Cristina Ivan**



## **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 *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 members of the SSB policy makers and researchers

**Professional Journal of the United States Army**, 2015 *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

**Semiconductor TeraHertz Technology** Guillermo Carpintero, Enrique Garcia-Munoz, Hans Hartnagel, Sascha Preu, Antti Raisanen, 2015-07-14 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

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* , Military Review , 2015

*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

*Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions* National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Board on Mathematical Sciences and Their Applications, Committee on Applied and Theoretical Statistics, Committee on Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions, 2017-02-06 The Office of the Under Secretary of Defense Personnel Readiness referred to throughout this report as P R is responsible for the total force management of all Department of Defense DoD components including the recruitment readiness and retention of personnel Its work and policies are supported by a number of organizations both within DoD including the Defense Manpower Data Center DMDC and externally including the federally funded research and development centers FFRDCs that work for DoD P R must be able to answer questions for the Secretary of Defense such as how to recruit people with an aptitude for and interest in various specialties and along particular career tracks and how to assess on an ongoing basis service members career satisfaction and their ability to meet new challenges P R must also address larger scale questions such as how the current realignment of forces to the Asia Pacific area and other regions will affect recruitment readiness and retention While DoD makes use of large scale data and mathematical analysis in intelligence surveillance reconnaissance and elsewhere exploiting techniques such as complex network analysis machine learning streaming social media analysis and

anomaly detection these skills and capabilities have not been applied as well to the personnel and readiness enterprise

Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions offers and roadmap and implementation plan for the integration of data analysis in support of decisions within the purview of P R

**Treaties in Force**, 2016 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

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Routledge Handbook of Disinformation and National Security Rubén Arcos, Irena Chiru, Cristina Ivan, 2023-11-17

This interdisciplinary Handbook provides an in depth analysis of the complex security phenomenon of disinformation and offers a toolkit to counter such tactics

Disinformation used to propagate false inexact or out of context information is today a frequently used tool of political manipulation and information warfare both online and offline

This Handbook evidences a historical thread of continuing practices and modus operandi in overt state propaganda and covert information operations

Further it attempts to unveil current methods used by propaganda actors the inherent vulnerabilities they exploit in the fabric of democratic societies and last but not least to highlight current practices in countering disinformation and building resilient audiences

The Handbook is divided into six thematic sections

The first part provides a set of theoretical approaches to hostile influencing disinformation and covert information operations

The second part looks at disinformation and propaganda in historical perspective offering case study analysis of disinformation and the third focuses on providing understanding of the contemporary challenges posed by disinformation and

hostile influencing The fourth part examines information and communication practices used for countering disinformation and building resilience The fifth part analyses specific regional experiences in countering and deterring disinformation as well as international policy responses from transnational institutions and security practitioners Finally the sixth part offers a practical toolkit for practitioners to counter disinformation and hostile influencing This handbook will be of much interest to students of national security propaganda studies media and communications studies intelligence studies and International Relations in general

*National Security Implications of Climate Change for U.S. Naval Forces* National Research Council, Division on Engineering and Physical Sciences, Naval Studies Board, Committee on National Security Implications of Climate Change for U.S. Naval Forces, 2011-06-26 In response to the Chief of Naval Operations CNO the National Research Council appointed a committee operating under the auspices of the Naval Studies Board to study the national security implications of climate change for U S naval forces In conducting this study the committee found that even the most moderate current trends in climate if continued will present new national security challenges for the U S Navy Marine Corps and Coast Guard While the timing degree and consequences of future climate change impacts remain uncertain many changes are already underway in regions around the world such as in the Arctic and call for action by U S naval leadership in response The terms of reference TOR directed that the study be based on Intergovernmental Panel on Climate Change IPCC scenarios and other peer reviewed assessment Therefore the committee did not address the science of climate change or challenge the scenarios on which the committee s findings and recommendations are based *National Security Implications of Climate Change for U S Naval Forces* addresses both the near and long term implications for U S naval forces in each of the four areas of the TOR and provides corresponding findings and recommendations This report and its conclusions are organized around six discussion areas all presented within the context of a changing climate

Tunnel Visions Michael Riordan, Lilian Hoddeson, Arienne W. Kolb, 2015-11-20 A detailed and engaging account of the development of the superconducting supercollider one of the largest scientific undertakings in the United States *Journal of American History* Starting in the 1950s US physicists dominated the search for elementary particles aided by the association of this research with national security they held this position for decades In an effort to maintain their hegemony and track down the elusive Higgs boson they convinced President Reagan and Congress to support construction of the multibillion dollar Superconducting Super Collider project in Texas the largest basic science project ever attempted But after the Cold War ended and the estimated SSC cost surpassed ten billion dollars Congress terminated the project in October 1993 Drawing on extensive archival research contemporaneous press accounts and over one hundred interviews with scientists engineers government officials and others involved *Tunnel Visions* tells the riveting story of the aborted SSC project The authors examine the complex interrelated causes for its demise including problems of large project management continuing cost overruns and lack of foreign contributions In doing so they ask whether Big Science has become too large and expensive

including whether academic scientists and their government overseers can effectively manage such an enormous undertaking Focusing on the scientific technical and political conflicts that led to delays ever rising costs and eventually the SSC s cancelation by Congress Tunnel Visions is a true techno thriller Burton Richter winner of the Nobel Prize in Physics Most good science stories are tales of discovery and success but failure can be just as riveting Here two historians and an archivist describe the greatest particle physics experiment that never was Scientific American *The War Report* Annyssa Bellal,2015-12-10 This War Report provides detailed information on every armed conflict which took place during 2014 offering an unprecedented overview of the nature range and impact of these conflicts and the legal issues they created In Part I the Report describes its criteria for the identification and classification of armed conflicts under international law and the legal consequences that flow from this classification It sets out a list of armed conflicts in 2014 categorising each as international non international or a military occupation with estimates of civilian and military casualties In Part II each of these conflicts are examined in more detail with an overview of the belligerents means and methods of warfare the applicable treaties and rules and any prosecutions for investigations into or robust allegations of war crimes Part III of the Report provides detailed thematic analysis of key legal developments which arose in the context of these conflicts allowing for a more in depth reflection on cross cutting questions and controversies The Report gives a full and accessible overview of armed conflicts in 2014 It should be the first port of call for everyone working in the field **The Rationalist's Guide to the Galaxy** Tom Chivers,2019-06-13 A fascinating and delightfully written book about some very smart people who may not or may be about to transform humanity forever JON RONSON Beautifully written and with wonderful humour this is a thrilling adventure story of our own future LEWIS DARTNELL author of THE KNOWLEDGE and ORIGINS Are paperclips going to destroy life as we know it What can Mickey Mouse teach us about how to programme AI Could a more rational approach to life be what saves us all This is a book about about a community of people who are trying to think rationally about intelligence and what insight they can and can t give us about the future of the human race It explains why these people are worried about an AI apocalypse why they might be right and why they might be wrong It is a book about the cutting edge of our thinking on intelligence and rationality right now by the people who stay up all night worrying about it

#### **Accessions of Unlimited Distribution Reports ,1972-09      Demystifying the Academic Research Enterprise**

Kelvin K. Droegemeier,2023-12-19 What next generation scholars need to know in order to thrive and how they can actively participate in shaping the academic research enterprise The academic research enterprise is highly complex involving multiple sectors of society and a vast array of approaches In Demystifying the Academic Research Enterprise Kelvin K Droegemeier shows next generation scholars across all disciplines how to become more productive earlier in their career as well as how to help shape the academic research enterprise The topics covered include public perceptions of scholarly work and its use in policy understanding the big picture of funding and national priorities as well as identifying funding sources

research methods collecting data and materials writing grant proposals publishing results ethical conduct bias and peer review intellectual property and compliance regulations partnerships and collaboration diversity equity and inclusion and the future of research Droegemeier's two principal goals are to enhance and accelerate scholars understanding of the academic research process and to democratize that understanding particularly at institutions that traditionally are underrepresented or lack robust resources While intended for undergraduate and graduate students postdoctoral scholars and early career faculty Demystifying the Academic Research Enterprise is also relevant to mid career and senior faculty research administrators funding organizations congressional staff policymakers and the general public Droegemeier places scholars in a broader national and international context not as passive recipients of the existing system but as key actors who actively participate in helping to set priorities determine policies drive systemic change and advance knowledge

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