

Nasa Guidebook For Proposers

More than four decades have passed since a human first set foot on the Moon. Great strides have been made in our understanding of what is required to support an enduring human presence in space, as evidenced by progressively more advanced orbiting human outposts, culminating in the current International Space Station (ISS). However, of the more than 500 humans who have so far ventured into space, most have gone only as far as near-Earth orbit, and none have traveled beyond the orbit of the Moon. Achieving humans' further progress into the solar system had proved far more difficult than imagined in the heady days of the Apollo missions, but the potential rewards remain substantial. During its more than 50-year history, NASA's success in human space exploration has depended on the agency's ability to effectively address a wide range of biomedical, engineering, physical science, and related obstacles--an achievement made possible by NASA's strong and productive commitments to life and physical sciences research for human space exploration, and by its use of human space exploration infrastructures for scientific discovery. The Committee for the Decadal Survey of Biological and Physical Sciences acknowledges the many achievements of NASA, which are all the more remarkable given budgetary challenges and changing directions within the agency. In the past decade, however, a consequence of those challenges has been a life and physical sciences research program that was dramatically reduced in both scale and scope, with the result that the agency is poorly positioned to take full advantage of the scientific opportunities offered by the now fully equipped and staffed ISS laboratory, or to effectively pursue the scientific research needed to support the development of advanced human exploration capabilities. Although its review has left it deeply concerned about the current state of NASA's life and physical sciences research, the Committee for the Decadal Survey on Biological and Physical Sciences in Space is nevertheless convinced that a focused science and engineering program can achieve successes that will bring the space community, the U.S. public, and policymakers to an understanding that we are ready for the next significant phase of human space exploration. The goal of this report is to lay out steps and develop a forward-looking portfolio of research that will provide the basis for recapturing the excitement and value of human spaceflight--thereby enabling the U.S. space program to deliver on new exploration initiatives that serve the nation, excite the public, and place the United States again at the forefront of space exploration for the global good.

This book is a compilation of scientific papers presented at a July 1991 conference which was scheduled to coincide with the 15th anniversary of the unmanned Viking landing on the planet Mars. The conference was planned to cover past, present and future missions to Mars, with the papers of past missions serving as an historic scientific base, and papers of the future missions to Mars serving as the main focus of the conference. Chapters are grouped into six sections: overviews, prior missions, rationale and benefits of future missions, robotic missions, systems concepts and operations, and technology for future missions.

Born in Italy to a well-to-do Jewish family, Emilio Segrè (1905–1989) became Enrico Fermi's first graduate student in 1928, contributed to the discovery of slow neutrons and was appointed director of the University of Palermo's physics laboratory in 1936. While visiting the Radiation Laboratory in Berkeley, California in 1938, he learned that he had been dismissed from his Palermo post by Mussolini's Fascist regime. Ernest O. Lawrence hired him to work on the cyclotron at Berkeley with Luis Alvarez, Edwin McMillan, and Glenn Seaborg. Segrè was one of the first to join Oppenheimer at Los Alamos, where he became a group leader on the Manhattan Project. In 1959, he won the Nobel Prize in physics for the discovery of the antiproton. He was a professor of physics at UC Berkeley from 1946 until 1972. “[A] readable, absorbing, interesting autobiography... A valuable contribution by a person who witnessed the development of much of modern nuclear physics. Segrè's description of the historic neutron experiments performed in Rome during the mid-1930s by Enrico Fermi's group, of which Segrè was a member, is of inestimable worth.” – Glenn T. Seaborg, Physics Today “A Mind Always in Motion is Emilio Segrè's account – published four years after his death in 1989 – of his personal life and his life in physics... It is absorbing, moving in places and frequently revealing. Segrè noted in his preface, ‘I have not sought to display manners and tact I never had, and I have tried to treat myself no better than any one else.’ He ably succeeded in these purposes.” – Daniel J. Kevles, Nature “For general readers with an interest in the history of nuclear physics, Segrè... is among the most personable witnesses.” – Publishers Weekly

Recapturing a Future for Space Exploration

NASA Space Flight Program and Project Management Handbook

Lessons from the Army's Future Combat Systems Program

The Research System in Transition

Freedom of Information Act Guide

NASA Data and Information Systems

Project Management in Practice, 4th Edition focuses on the technical aspects of project management that are directly related to practice.

The U.S. Army's Future Combat Systems program aimed to field an ambitious system of systems, with novel technologies integrated via an advanced wireless network. The largest and most ambitious planned acquisition program in the Army's history, it was cancelled in 2009, and some of its efforts transitioned to follow-on programs. This report documents the program's complex history and draws lessons from its experiences.

Exposure to space flight has been shown to results in changes in many physiological systems, including the musculoskeletal system, the cardiovascular system, the immune system, and the neurovestibular system. These changes could negatively impact the ability of humans to undertake long-term habitation and exploration of space. However, there are limits to the studies that can be done with humans in space. Both ground-based and space flight animal model systems are currently used for these studies as an alternative. This volume covers the latest developments in the use of animal models to study the effects of the space flight environment on human physiological systems. * Includes unique insights into the mechanisms and the potential role of gravity, stress, radiation and other space flight environment factors on physiological systems * A complete history back to the beginnings of space flight * Discusses the development of countermeasures to prevent any damaging effects of the space flight environment on physiological systems

Fostering Integrity in Research

Molecular Modeling and Simulation

An Interdisciplinary Guide

Guidebook for Proposers Responding to a NASA Research Announcement (NRA) Or Cooperative Agreement Notice (CAN).

Structures and Strategies for Complex Problem Solving

Respawn

For some people with disabilities, their interest and skills are best applied to laboratory work. Science laboratories are environments where hazardous materials and processes are in use, and assessments are required to mitigate risk and ensure compliance with Occupational Safety and Health Administration (OSHA) and Environmental Protection Agency (EPA) regulations. Accommodating individuals in a laboratory requires balancing adherence to those regulations, as well as the Americans with Disabilities Act (ADA) technical access standards. Individualized assessment and accommodation are needed to ensure that a qualified individual with a disability can work or study effectively in the laboratory while ensuring a safe working environment for all. This book is intended to be a helpful guide for professionals to understand how to provide equal access to people with disabilities in a laboratory environment. It will review the breadth of protections that are provided by the ADA. This book also covers the roles and responsibilities of persons involved in laboratory oversight, including institutional policies and their limitations with respect to providing appropriate support for individualized assessments in the laboratory.

Contains an updated comprehensive explanation of the criteria, procedures and methodology used in establishing which countries are eligible for inclusion in, or recommended for graduation from, the least developed country (LDC) category. It also provides an overview of the special support measures that can be derived from having least developed country status.

Very broad overview of the field intended for an interdisciplinary audience; Lively discussion of current challenges written in a colloquial style; Author is a rising star in this discipline; Suitably accessible for beginners and suitably rigorous for experts; Features extensive four-color illustrations; Appendices featuring homework assignments and reading lists complement the material in the main text

Preparation, Submission, and Execution of the Budget

Transactions of the Board of Trustees

Accessibility in the Laboratory

Research overview

Open Source Software Policy Options for NASA Earth and Space Sciences

Experimentation with Animal Models in Space

In Respawn Colin Milburn examines the connections between video games, hacking, and science fiction that galvanize technological activism and technological communities. Discussing a wide range of games, from Portal and Final Fantasy VII to Super Mario Sunshine and Shadow of the Colossus, Milburn illustrates how they impact the lives of gamers and non-gamers alike. They also serve as resources for critique, resistance, and insurgency, offering a space for players and hacktivist groups such as Anonymous to challenge obstinate systems and experiment with alternative futures. Providing an essential walkthrough guide to our digital culture and its high-tech controversies, Milburn shows how games and playable media spawn new modes of engagement in a computerized world.

"The best RFP practices, checklists, guidelines, examples and regulations from more than 100 state and local governments and their agencies"--Cover.

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Artificial Intelligence: Structures and Strategies for Complex Problem Solving is ideal for a one- or two-semester undergraduate course on AI. In this accessible, comprehensive text, George Luger captures the essence of artificial intelligence--solving the complex problems that arise wherever computer technology is applied. Ideal for an undergraduate course in AI, the Sixth Edition presents the fundamental concepts of the discipline first then goes into detail with the practical information necessary to implement the algorithms and strategies discussed. Readers learn how to use a number of different software tools and techniques to address the many challenges faced by today's computer scientists.

Gender Differences at Critical Transitions in the Careers of Science, Engineering, and Mathematics Faculty

Car-sharing

Inclusion, Graduation, and Special Support Measures

Artificial Intelligence

Life and Physical Sciences Research for a New Era

Guidebook for Proposers Responding to a NASA Research Announcement (NRA).Guidebook for Proposers Responding to a NASA Research Announcement (NRA).Guidebook for Proposers Responding to a NASA Research Announcement (NRA) Or Cooperative Agreement Notice (CAN).Open Source Software Policy Options for NASA Earth and Space SciencesNational Academies Press

The United States possesses a treasure-trove of extraterrestrial samples that were returned to Earth via space missions over the past four decades. Analyses of these previously returned samples have led to major breakthroughs in the understanding of the age, composition, and origin of the solar system. Having the instrumentation, facilities and qualified personnel to undertake analyses of returned samples, especially from missions that take up to a decade or longer from launch to return, is thus of paramount importance if the National Aeronautics and Space Administration (NASA) is to capitalize fully on the investment made in these missions, and to achieve the full scientific impact afforded by these extraordinary samples. Planetary science may be entering a new golden era of extraterrestrial sample return; now is the time to assess how prepared the scientific community is to take advantage of these opportunities. Strategic Investments in Instrumentation and Facilities for Extraterrestrial Sample Curation and Analysis assesses the current capabilities within the planetary science community for sample return analyses and curation, and what capabilities are currently missing that will be needed for future sample return missions. This report evaluates whether current laboratory support infrastructure and NASA's investment strategy is adequate to meet these analytical challenges and advises how the community can keep abreast of evolving and new techniques in order to stay at the forefront of extraterrestrial sample analysis.

In 2010, NASA and the National Science Foundation asked the National Research Council to assemble a committee of experts to develop an integrated national strategy that would guide agency investments in solar and space physics for the years 2013-2022. That strategy, the result of nearly 2 years of effort by the survey committee, which worked with more than 100 scientists and engineers on eight supporting study panels, is presented in the 2013 publication, Solar and Space Physics: A Science for a Technological Society. This booklet, designed to be accessible to a broader audience of policymakers and the interested public, summarizes the content of that report.

Macro cognition: The Science and Engineering of Sociotechnical Work Systems

Resource Manual for Airport In-terminal Concessions

Where and how it Succeeds

A Guidebook for Selecting Airport Capital Project Delivery Methods

Guidebooks for Post-award Contract Administration for Highway Projects Delivered Using Alternative Contracting Methods

Handbook on the Least Developed Country Category

"Having been born a freeman, and for more than thirty years enjoyed the blessings of liberty in a free State—and having at the end of that time been kidnapped and sold into Slavery, where I remained, until happily rescued in the month of January, 1853, after a bondage of

twelve years—it has been suggested that an account of my life and fortunes would not be uninteresting to the public." -an excerpt

On a mountainside in sunny Tuscany, in October 1989, 96 people from 23 countries on five continents gathered to learn and teach about the problems of managing contemporary science. The diversity of economic and political systems represented in the group was matched by our occupations, which stretched from science policy practitioners, through research scientists and engineers, through academic observers of science and science policy. It was this diversity, along with the opportunities for infonnal discussion provided by long meals and remote location, that made the conference a special learning experience. Except at lecture time, it was impossible to distinguish the "students" at this event from the "teachers," and even the most senior members of the teaching staff went away with a sense that they had learned more from this group than from many a standard conference on science policy they had attended. The flavor of the conference experience cannot be captured adequately in a proceedings volume, and so we have not tried to create a historical record in this book. Instead, we have attempted to illustrate the core problems the panicipants at the conference shared, discussed, and debated, using both lectures delivered by the fonnal teaching staff and summaries of panel discussions, which extended to other panicipants and therefore increased the range of experiences reponed.

This book encompasses the entire range of writing skills that today's experimental scientist may need to employ. Chapters cover routine forms, such as laboratory notes, abstracts, and memoranda; dissertations; journal articles; and grant proposals. Robert Goldbort discusses how best to approach various writing tasks as well as how to deal with the everyday complexities that may get in the way of ideal practice--difficult collaborators, experiments gone wrong, funding rejections. He underscores the importance of an ethical approach to science and scientific communication and insists on the necessity of full disclosure.

Writing for Science

TCRP Report 131

Guidebook for Proposers Responding to a NASA Research Announcement (NRA).

ACRP Report 21

Sustainable Highway Construction Guidebook

Solar and Space Physics

The integrity of knowledge that emerges from research is based on individual and collective adherence to core values of objectivity, honesty, openness, fairness, accountability, and stewardship. Integrity in science means that the organizations in which research is conducted encourage those involved to exemplify these values in every step of the research process.

Understanding the dynamics that support â€” or distort â€” practices that uphold the integrity of research by all participants ensures that the research enterprise advances knowledge. The 1992 report Responsible Science: Ensuring the Integrity of the Research Process evaluated issues related to scientific responsibility and the conduct of research. It provided a valuable service in describing and analyzing a very complicated set of issues, and has served as a crucial basis for thinking about research integrity for more than two decades. However, as experience has accumulated with various forms of research misconduct, detrimental research practices, and other forms of misconduct, as subsequent empirical research has revealed more about the nature of scientific misconduct, and because technological and social changes have altered the environment in which science is conducted, it is clear that the framework established more than two decades ago needs to be updated. Responsible Science served as a valuable benchmark to set the context for this most recent analysis and to help guide the committee's thought process. Fostering Integrity in Research identifies best practices in research and recommends practical options for discouraging and addressing research misconduct and detrimental research practices.

Modern science is ever more driven by computations and simulations. In particular, the state of the art in space and Earth science often arises from complex simulations of climate, space weather, and astronomical phenomena. At the same time, scientific work requires data processing, presentation, and analysis through broadly available proprietary and community software.1 Implicitly or explicitly, software is central to science. Scientific discovery, understanding, validation, and interpretation are all enhanced by access to the source code of the software used by scientists. This report investigates and recommends options for NASA's Science Mission Directorate (SMD) as it considers how to establish a policy regarding open source software to complement its existing policy on open data. In particular, the report reviews existing data and software policies and the lessons learned from the implementation of those policies, summarizes community perspectives, and presents policy options and recommendations for implementing an open source software policy for NASA SMD.

Dies ist der Nachfolgetitel des erfolgreichen "The Fast Forward MBA in Project Management", von dem bislang über 70.000 Exemplare verkauft wurden. "The Portable MBA in Project Management" diskutiert die aktuellsten Themen im Projektmanagement und enthält Beiträge von allen führenden Autoritäten auf diesem Gebiet. Die Beiträge dieser Experten verknüpfen wichtige Ideen mit Originalmaterial und decken alle Trends, alle Themen und alle Aspekte des modernen Projektmanagement ab. Autor Eric Verzuh präsentiert eine Vielzahl von erprobten Techniken für das Managen einzelner Projekte und projektbasierter Unternehmen. Hier erfahren Projektmanager, wie sie die Kraft einzelner Projekterfolge miteinander verbinden können, um das Unternehmen so zu einem höheren Maß an Produktivität und Reaktionsfreudigkeit im Kundenkontakt anzuspornen. "The Portable MBA in Project Management" - der umfassende Ratgeber für erfolgreiches Projektmanagement und ein Muss für jeden ambitionierten Projektmanager. Eric Verzuh ist als Consultant für führende internationale Unternehmen tätig, darunter u.a. Adobe, Boeing, GE und Nordstrom.

Technology Readiness Assessment Guide: Best Practices for Evaluating the Readiness of Technology for Use in Acquisition Programs and Projects (703694)

Government Printing and Binding Regulations

A Mind Always in Motion: The Autobiography of Emilio Segrè

NASA/SP-2014-3705

Cross-Waiver of Liability (Us National Aeronautics and Space Administration Regulation) (Nasa) (2018 Edition)

Twelve Years a Slave

Gender Differences at Critical Transitions in the Careers of Science, Engineering, and Mathematics Faculty presents new and surprising findings about career differences between female and male full-time, tenure-track, and tenured faculty in science, engineering, and mathematics at the nation's top research universities. Much of this congressionally mandated book is based on two unique surveys of faculty and departments at major U.S. research universities in six fields: biology, chemistry, civil engineering, electrical engineering, mathematics, and physics. A departmental survey collected information on departmental policies, recent tenure and promotion cases, and recent hires in almost 500 departments. A faculty survey gathered information from a stratified, random sample of about 1,800 faculty on demographic characteristics, employment experiences, the allocation of institutional resources such as laboratory space, professional activities, and scholarly productivity. This book paints a timely picture of the status of female faculty at top universities, clarifies whether male and female faculty have similar opportunities to advance and succeed in academia, challenges some commonly held views, and poses several questions still in need of answers. This book will be of special interest to university administrators and faculty, graduate students, policy makers, professional and academic societies, federal funding agencies, and others concerned with the vitality of the U.S. research base and economy.

"The use of alternative contracting methods (ACMs) has accelerated the delivery of highway design and construction projects. These changes came about through efforts of the Federal Highway Administration (FHWA) and state agencies over the last 30 years. The TRB National Cooperative Highway Research Program's NCHRP Research Report 939: Guidebooks for Post-Award Contract Administration for Highway Projects Delivered Using Alternative Contracting Methods, Volume 3: Research Overview provides the necessary methods and tools to help state agencies better administer Design-Build (D-B) and construction manager-general contractor (CM-GC) contracts on highway construction projects. This Research Report documents the rigorous process followed to produce these two Guidebooks. Vol. 1, on design-build delivery, and Vol. 2, on construction manager-general contractor delivery, are also available."--

Cross-Waiver of Liability (US National Aeronautics and Space Administration Regulation) (NASA) (2018 Edition) The Law Library presents the complete text of the Cross-Waiver of Liability (US National Aeronautics and Space Administration Regulation) (NASA) (2018 Edition). Updated as of May 29, 2018 The National Aeronautics and Space Administration (NASA) is amending its regulations which provide the regulatory basis for cross-waiver provisions used in the following two categories of NASA agreements: agreements for International Space Station (ISS) activities pursuant to the "Agreement Among the Government of Canada, Governments of Member States of the European Space Agency, the Government of Japan, the Government of the Russian Federation, and the Government of the United States of America concerning Cooperation on the Civil International Space Station" (commonly referred to as the ISS Intergovernmental Agreement, or IGA); and launch agreements for science or space exploration activities unrelated to the ISS. This book contains: - The complete text of the Cross-Waiver of Liability (US National Aeronautics and Space Administration Regulation) (NASA) (2018 Edition) - A table of contents with the page number of each section

Gamers, Hackers, and Technogenic Life

Mars: Past, Present, and Future

The Portable MBA in Project Management

Strategic Investments in Instrumentation and Facilities for Extraterrestrial Sample Curation and Analysis

Progress In Astronautics and Aeronautics

Project Management in Practice

This handbook is a companion to NPR 7120.5E, NASA Space Flight Program and Project Management Requirements and supports the implementation of the requirements by which NASA formulates and implements space flight programs and projects. Its focus is on what the program or project manager needs to know to accomplish the mission, but it also contains guidance that enhances the understanding of the high-level procedural requirements. (See Appendix C for NPR 7120.5E requirements with rationale.) As such, it starts with the same basic concepts but provides context, rationale, guidance, and a greater depth of detail for the fundamental principles of program and project management. This handbook also explores some of the nuances and implications of applying the procedural requirements, for example, how the Agency Baseline Commitment agreement evolves over time as a program or project moves through its life cycle.

The June 2019 OMB Circular No. A-11 provides guidance on preparing the FY 2021 Budget and instructions on budget execution. Released in June 2019, it's printed in two volumes. This is Volume I. Your budget submission to OMB should build on the President's commitment to advance the vision of a Federal Government that spends taxpayer dollars more efficiently and effectively and to provide necessary services in support of key National priorities while reducing deficits. OMB looks forward to working closely with you in the coming months to develop a budget request that supports the President's vision. Most of the changes in this update are technical revisions and clarifications, and the policy requirements are largely unchanged. The summary of changes to the Circular highlights the changes made since last year. This Circular supersedes all previous versions. VOLUME I Part 1-General Information Part 2-Preparation and Submission of Budget Estimates Part 3-Selected Actions Following Transmittal of The Budget Part 4-Instructions on Budget Execution VOLUME II Part 5-Federal Credit Part 6-The Federal Performance Framework for Improving Program and Service Delivery Part7-Appendices Why buy a book you can download for free? We print the paperback book so you don't have to. First you gotta find a good clean (legible) copy and make sure it's the latest version (not always easy). Some documents found on the web are missing some pages or the image quality is so poor, they are difficult to read. If you find a good copy, you could print it using a network printer you share with 100 other people (typically its either out of paper or toner). If it's just a 10-page document, no problem, but if it's 250-pages, you will need to punch 3 holes in all those pages and put it in a 3-ring binder. Takes at least an hour. It's much more cost-effective to just order the bound paperback from Amazon.com This book includes original commentary which is copyright material. Note that government documents are in the public domain. We print these paperbacks as a service so you don't have to. The books are compact, tightly-bound paperback, full-size (8 1/2 by 11 inches), with large text and glossy covers. 4th Watch Publishing Co. is a HUBZONE SDVOSB. https://usgovpub.com

NASA Grant and Cooperative Agreement Handbook

Circular No. A-11

A Science for a Technological Society: An Overview

The Request for Proposal Handbook