

# Origins 2003

*roadmap for the Office of Space Science  
origins theme*



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# Origins 2003 Roadmap For The Office Of Space Science

**R Sanford**



## **Origins 2003 Roadmap For The Office Of Space Science:**

**Origins 2003** ,2003      The Universe in a Mirror Robert Zimmerman,2010-02-22 The Hubble Space Telescope has produced the most stunning images of the cosmos humanity has ever seen It has transformed our understanding of the universe around us revealing new information about its age and evolution the life cycle of stars and the very existence of black holes among other startling discoveries But it took an amazing amount of work and perseverance to get the first space telescope up and running The Universe in a Mirror tells the story of this telescope and the visionaries responsible for its extraordinary accomplishments Robert Zimmerman takes readers behind the scenes of one of the most ambitious scientific instruments ever sent into space After World War II astronomer Lyman Spitzer and a handful of scientists waged a fifty year struggle to build the first space telescope capable of seeing beyond Earth's atmospheric veil Zimmerman shows how many of the telescope's advocates sacrificed careers and family to get it launched and how others devoted their lives to Hubble only to have their hopes and reputations shattered when its mirror was found to be flawed This is the story of an idea that would not die and of the dauntless human spirit Illustrated with striking color images The Universe in a Mirror describes the heated battles between scientists and bureaucrats the perseverance of astronauts to repair and maintain the telescope and much more Hubble and the men and women behind it opened a rare window onto the universe dazzling humanity with sights never before seen This book tells their remarkable story A new afterword updates the reader on the May 2009 Hubble service mission and looks to the future of astronomy including the prospect of a new space telescope to replace Hubble      *A Final Story* Nasser Zakariya,2017-11-14 Popular science readers embrace epics the sweeping stories that claim to tell the history of all the universe from the cosmological to the biological to the social And the appeal is understandable in writing these works authors such as E O Wilson or Steven Weinberg deliberately seek to move beyond particular disciplines to create a compelling story weaving together natural historical events scientific endeavor human discovery and contemporary existential concerns In *A Final Story* Nasser Zakariya delves into the origins and ambitions of these scientific epics from the nineteenth century to the present to see what they reveal about the relationship between storytelling integrated scientific knowledge and historical method While seeking to transcend the perspectives of their own eras the authors of the epics and the debates surrounding them are embedded in political and social struggles of their own times struggles to which the epics in turn respond In attempts to narrate an approach to a final true account these synthesizing efforts shape and orient scientific developments old and new By looking closely at the composition of science epics and the related genres developed along with them we are able to view the historical narrative of science as a form of knowledge itself one that discloses much about the development of our understanding of and relationship to science over time      **A Performance Assessment of NASA's Astrophysics Program** National Research Council,Division on Engineering and Physical Sciences,Board on Physics and Astronomy,Space Studies Board,NASA Astrophysics Performance Assessment Committee,2007-06-21 While a number of

remarkable discoveries in astronomy and astrophysics have taken place over the past 20 years many important questions remain Continued progress in these fields will require NASA s leadership To help determine if NASA can meet this challenge Congress in the 2005 NASA Authorization Act directed the agency to have the performance of each division in the Science directorate reviewed and assessed by the National Academy of Sciences at 5 year intervals In early 2006 NASA asked the NRC to conduct such an assessment for the agency s Astrophysics Division This report presents an assessment of how well NASA s current program addresses the strategies goals and priorities outlined in previous Academy reports The report provides an analysis of progress toward realizing these strategies goals and priorities and a discussion of actions that could be taken to optimize the scientific value of the program in the context of current and forecasted resources **Space**

**Science & Technology in China: A Roadmap to 2050** Huadong Guo,Ji Wu,2010-08-09 As one of the eighteen field specific reports comprising the comprehensive scope of the strategic general report of the Chinese Academy of Sciences this sub report addresses long range planning for developing science and technology in the field of space science They each craft a roadmap for their sphere of development to 2050 In their entirety the general and sub group reports analyze the evolution and laws governing the development of science and technology describe the decisive impact of science and technology on the modernization process predict that the world is on the eve of an impending S T revolution and call for China to be fully prepared for this new round of S T advancement Based on the detailed study of the demands on S T innovation in China s modernization the reports draw a framework for eight basic and strategic systems of socio economic development with the support of science and technology work out China s S T roadmaps for the relevant eight basic and strategic systems in line with China s reality further detail S T initiatives of strategic importance to China s modernization and provide S T decision makers with comprehensive consultations for the development of S T innovation consistent with China s reality Supported by illustrations and tables of data the reports provide researchers government officials and entrepreneurs with guidance concerning research directions the planning process and investment Founded in 1949 the Chinese Academy of Sciences is the nation s highest academic institution in natural sciences Its major responsibilities are to conduct research in basic and technological sciences to undertake nationwide integrated surveys on natural resources and ecological environment to provide the country with scientific data and consultations for government s decision making to undertake government assigned projects with regard to key S T problems in the process of socio economic development to initiate personnel training and to promote China s high tech enterprises through its active engagement in these areas *The Astrophysical Context of Life* National Research Council,Division on Earth and Life Studies,Board on Life Sciences,Division on Engineering and Physical Sciences,Space Studies Board,Committee on the Origins and Evolution of Life,2005-06-25 In 1997 the National Aeronautics and Space Administration NASA formed the National Astrobiology Institute to coordinate and fund research into the origins distribution and fate of life in the universe A 2002 NRC study of that program Life in the Universe An Assessment

of U S and International Programs in Astrobiology raised a number of concerns about the Astrobiology program In particular it concluded that areas of astrophysics related to the astronomical environment in which life arose on earth were not well represented in the program In response to that finding the Space Studies Board requested the original study committee the Committee on the Origins and Evolution of Life to examine ways to augment and integrate astronomy and astrophysics into the Astrobiology program This report presents the results of that study It provides a review of the earlier report and related efforts a detailed examination of the elements of the astrobiology program that would benefit from greater integration and augmentation of astronomy and astrophysics and an assessment of ways to facilitate the integration of astronomy with other astrobiology disciplines

*The New Astronomy: Opening the Electromagnetic Window and Expanding our View of Planet Earth* Wayne Orchiston, 2006-01-17 This is an unusual book combining as it does papers on astrobiology history of astronomy and sundials but after all Woody Sullivan is an unusual man In late 2003 I spent two fruitful and enjoyable months in the Astronomy Department at the University of Washington UW working on archival material accumulated over the decades by Woody for a book we will co author with Jessica Chapman on the early development of Australian astronomy The only serious intellectual distraction I faced during this period was planning for an IAU colloquium on transits of Venus scheduled for June 2004 in England where I was down to present the Cook paper I knew Woody was also interested in transits and indeed anything remotely connected with shadows see his paper on page 3 and in discussing the Preston meeting with him it transpired that his 60th birthday was timed to occur just one week later This was where the seed of Woodfest began to germinate Why not invite friends and colleagues to join Woody in Seattle and celebrate this proud event I put the idea to Woody and others at UW they liked it and Woodfest was born

**Space, Time, and Aliens** Steven J. Dick, 2020-05-11 In this comprehensive and interdisciplinary volume former NASA Chief Historian Steven Dick reflects on the exploration of space astrobiology and its implications cosmic evolution astronomical institutions discovering and classifying the cosmos and the philosophy of astronomy The unifying theme of the book is the connection between cosmos and culture or what Carl Sagan many years ago called the cosmic connection As both an astronomer and historian of science Dr Dick has been both a witness to and a participant in many of the astronomical events of the last half century This collection of papers presents his reflections over the last forty years in a way accessible to historians philosophers and scientists alike From the search for alien life to ongoing space exploration efforts readers will find this volume full of engaging topics relevant to science society and our collective future on planet Earth and beyond

*The Universe in X-Rays* Joachim E. Trümper, Günther Hasinger, 2008-02-05 With contributions from leading scientists in the field and edited by two of the most prominent astronomers of our time this is a totally authoritative volume on X ray astronomy that will be essential reading for everyone interested from students to astrophysicists and physicists All the aspects of this exciting area of study are covered from astronomical instrumentation to extragalactic X ray astronomy

**NASA Space Science Vision Missions** Marc S.

Allen,2008 Using a solar sail the Solar Polar Imager mission would observe the Sun from a polar orbit to observe magnetic fields and convective flows in the polar regions as well as coronal mass ejections and the Sun's outer atmosphere in order to better understand the solar dynamo and solar activity Titan Explorer mission includes an orbiter with remote sensing instruments and an airship platform to investigate the atmosphere clouds haze and surface of Saturn's moon Titan Neptune Orbiter with Probes mission would use aerocapture to explore Neptune's rings and magnetosphere which serve as an analog for the primordial solar nebula and accretion disks around other stars and its satellite Triton which resembles small objects at the outer boundary of our solar system today Neptune Orbiter Probe and Lander mission would use nuclear electric propulsion to investigate Neptune and orbit its satellite Triton Interstellar Probe would leave the heliosphere to explore interstellar space learning about its composition and dynamics and its interaction with our solar system Observing distant stars with ultra high resolution the Stellar Imager mission could reveal their magnetic activity and internal structure helping us understand solar activity and magnetohydrodynamics throughout the Universe By bringing our understanding of other galaxies nearly up to our understanding of our own the Modern Universe Space Telescope could illuminate how the chemical elements are created and dispersed how normal galaxies form and evolve and how stars and planetary systems form Generation X mission could detect the first black holes formed when the Universe was only a few hundred million years old Advanced Compton Telescope is a wide field gamma ray spectrometer designed to uncover how supernovae and other stellar explosions create the chemical elements through an all sky survey of nuclear line emissions Far Infrared Submillimeter Interferometer in Space would use a two element array to study the formation of the earliest born stars and galaxies in the Universe and to probe the structure of the disks of gas and dust collapsing today to form a new generation of stars and planets Single Aperture Far Infrared Observatory would be a single spacecraft large space telescope for observing the early chemical history of the Universe and the structure of young planetary systems tracking the chemistry needed for life from interstellar clouds to young solar systems A final chapter describes an analysis of directions for future technology development inspired by this portfolio of mission concepts Publisher description

**Ultraviolet and Visible Detectors for Future Space Astrophysics Missions** J. Chris Blades,2002 *Life in the Universe* National Research Council,Board on Life Sciences,Space Studies Board,Committee on the Origins and Evolution of Life,2003-04-14 The past decade has seen a remarkable revolution in genomic research the discoveries of extreme environments in which organisms can live and even flourish on Earth the identification of past and possibly present liquid water environments in our solar system and the detection of planets around other stars Together these accomplishments bring us much closer to understanding the origin of life its evolution and diversification on Earth and its occurrence and distribution in the cosmos A new multidisciplinary program called Astrobiology was initiated in 1997 by the National Aeronautics and Space Administration NASA to foster such research and to make available additional resources for individual and consortium based efforts Other agencies have also

begun new programs to address the origin evolution and cosmic distribution of life Five years into the Astrobiology program it is appropriate to assess the scientific and programmatic impacts of these initiatives Edward J Weiler NASA's associate administrator for the Office of Space Science tasked the Committee on the Origins and Evolution of Life COEL with assessing the state of NASA's Astrobiology program

*Space Policy in the Twenty-First Century* W. Henry Lambright, 2003 Though more than forty years old the space age has just begun and questions about its future abound What will replace the Space Shuttle Will the International Space Station justify its 100 billion potential cost Are asteroids real threats to Earth or just the subject of science fiction movies Will humans land on Mars Will the search for extraterrestrial life be rewarded In *Space Policy in the Twenty First Century* W Henry Lambright brings together ten top ranking observers of United States space exploration to address these and other issues relating to the future of the space program While the U S no longer competes with the Soviets for technological firsts they argue ideology and national image remain at the core of space policy with other factors playing subordinate roles Reminding readers of the historical highlights the authors pose searching questions about the priorities and applications of space science manned vs unmanned flights and commercial access to the space enterprise Contributors include Christopher F Chyba SETI Institute and Stanford University Ronald J Deibert University of Toronto Daniel H Deudney the Johns Hopkins University W Henry Lambright Syracuse University Roger D Launius NASA Karl A Leib Syracuse University John M Logsdon George Washington University Howard E McCurdy American University Scott N Pace White House Office of Science and Technology Policy and Debora L VanNijnatten Wilfrid Laurier University

*Focal Plane Arrays for Space Telescopes* Craig Ralph McCreight, Thomas John Grycewicz, 2004 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature

**Modeling and Systems Engineering for Astronomy** Simon C. Craig, M. J. Cullum, 2004 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature

**Exploring the Unknown** Roger D. Launius, 1995 Exploring the unknown is a multi volume series containing a selection of key documents in the history of the U S civil space program Volume V focusing on the exploration of space by robotic spacecraft that have significantly altered our perspectives on the cosmos prints 121 key documents on the history of space science planetary exploration of the solar system and space astrophysics edited for ease of use Many of these documents are published here for the first time Each is introduced by a headnote providing context bibliographical information and background information necessary to understanding the document This documentary history is an essential reference for anyone interested in the history of the U S civil space program and its

development over time It will serve as a valuable source both for students and scholars Additional volumes will appear later that trace space science and the programmatic developments in the history of the U S exploration of space     *Solar System Exploration* ,2006     Are We Alone? Gloria Skurzynski,2004 Presents a study of space and the possibility of extraterrestrial civilizations and discusses UFO sightings throughout the twentieth century crop circles and other paranormal occurrences     Optical, Infrared, and Millimeter Space Telescopes ,2004     **An Astrobiology Strategy for the Search for Life in the Universe** National Academies of Sciences, Engineering, and Medicine,Division on Engineering and Physical Sciences,Space Studies Board,Committee on Astrobiology Science Strategy for the Search for Life in the Universe,2019-03-20 Astrobiology is the study of the origin evolution distribution and future of life in the universe It is an inherently interdisciplinary field that encompasses astronomy biology geology heliophysics and planetary science including complementary laboratory activities and field studies conducted in a wide range of terrestrial environments Combining inherent scientific interest and public appeal the search for life in the solar system and beyond provides a scientific rationale for many current and future activities carried out by the National Aeronautics and Science Administration NASA and other national and international agencies and organizations Requested by NASA this study offers a science strategy for astrobiology that outlines key scientific questions identifies the most promising research in the field and indicates the extent to which the mission priorities in existing decadal surveys address the search for life s origin evolution distribution and future in the universe This report makes recommendations for advancing the research obtaining the measurements and realizing NASA s goal to search for signs of life in the universe



## Decoding **Origins 2003 Roadmap For The Office Of Space Science**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Origins 2003 Roadmap For The Office Of Space Science**," a mesmerizing literary creation penned by a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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