



WITH A
NEW AFTERWORD

THE SPACE TELESCOPE

A study of NASA,
science, technology,
and politics

ROBERT W. SMITH

Space Telescope A Study Of Nasa Science Technology And Politics

**Wesley Shrum, Joel Genuth, Ivan
Chompalov**



Space Telescope A Study Of Nasa Science Technology And Politics:

The Space Telescope Robert W. Smith, 1989-10-27 Robert Smith's *The Space Telescope* sets the fascinating and disturbing history of this massive venture within the context of Big Science. Launched at a cost of no more than 2 billion the Space Telescope turned out to be seriously flawed by imperfections in the construction of its lenses and by solar panels that caused it to shudder when moving from daylight to darkness. Smith analyses how the processes of Big Science especially those involving the government's funding process for large scale projects contributed to those failures. He reveals the astonishingly complex interactions that took place among the scientific community, government and industry and describes the great range of personalities and forces scientific, technical, political, social, institutional and economic that played roles in the Space Telescope's history.

The Space Telescope Robert W. Smith, Paul A. Hanle, 1993. The Space Telescope launched into orbit aboard the Space Shuttle late in 1989 promised to be the most powerful optical telescope ever built, yielding new insights into the past, present and future of the universe. The authors trace the Telescope's history and detail the astonishingly complex interactions that took place between the scientific community, government and private industry in the course of its development. The Telescope is thus much more than a new astronomical instrument but instead must be seen as the product of a great range of forces: scientific, technical, political, social, institutional and economic. The history of the Space Telescope is set in the context of post World War II science and Big Science: large scale scientific projects that require massive federal funding and are as much political and managerial efforts as they are scientific and technical ones. The Space Telescope is an example of a Big Science program of the very largest kind and the book thus reveals the many complex factors and new institutions and strategies that are involved in funding and carrying out large scale scientific projects in the late twentieth century.

Space telescope, 1993

The Space Telescope Robert William Smith, 1989

Space and the American Imagination Howard E. McCurdy, 2011-03. People dreamed of cosmic exploration: winged spaceships and lunar voyages, space stations and robot astronauts long before it actually happened. *Space and the American Imagination* traces the emergence of space travel in the popular mind, its expression in science fiction and its influence on national space programs. Space exploration dramatically illustrates the power of imagination. Howard E. McCurdy shows how that power inspired people to attempt what they once deemed impossible. In a mere half century since the launch of the first Earth orbiting satellite in 1957, humans achieved much of what they had once only read about in the fiction of Jules Verne and H. G. Wells and the nonfiction of Willy Ley. Reaching these goals, however, required broad based support and McCurdy examines how advocates employed familiar metaphors to excite interest, promising for example that space exploration would recreate the American frontier experience and prepare the public for daring missions into space. When unexpected realities and harsh obstacles threatened their progress, the space community intensified efforts to make their wildest dreams come true. This lively and important work remains relevant given contemporary questions about future plans at NASA. Fully revised and

updated since its original publication in 1997 *Space and the American Imagination* includes a reworked introduction and conclusion and new chapters on robotics and space commerce

The Historiography of Contemporary Science and Technology Thomas Söderquist, 2013-01-11 More than ninety percent of all scientific history has been made during the last half century So far however only a fraction of historical scholarship has dealt with this period Merely a decade ago most scientific historians considered recent science the scientific culture created lived and remembered by contemporary scientists an area of study best left to the historical actors themselves

Reinventing NASA Roger Handberg, 2003-12-30 From its beginnings NASA was convinced that its real mission was to create the opportunity for a much different and better society on Earth namely through human space flight Pursuit of such a goal has led the agency to persist in certain activities even when they conflict with the wishes of Congress and the President Recent changes in the international environment changes that began well before September 11 2001 have brought the military back into the field of human space flight a situation that holds certain hazards for NASA since the military is more powerful politically Dramatic changes could be in store changes that could severely damage NASA's capacity for continuing what it sees as its primary objective While most analyses see the agency as riddled with incompetence Handberg argues that NASA's troubles are a product of its internal values He begins with an historical overview of the major themes in NASA's history followed by chapters on specific areas of concentration such as the space station space transportation space science and internal reforms He also discusses the long term future of the agency and human space flight in general both domestically and internationally

A Companion to the History of American Science Georgina M. Montgomery, Mark A. Largent, 2019-09-23 A Companion to the History of American Science offers a collection of essays that give an authoritative overview of the most recent scholarship on the history of American science Covers topics including astronomy agriculture chemistry eugenics Big Science military technology and more Features contributions by the most accomplished scholars in the field of science history Covers pivotal events in U S history that shaped the development of science and science policy such as WWII the Cold War and the Women's Rights movement

Conceptions of Cosmos Helge Kragh, 2007 This book is a historical account of how natural philosophers and scientists have endeavoured to understand the universe at large first in a mythical and later in a scientific context Starting with the creation stories of ancient Egypt and Mesopotamia the book covers all the major events in theoretical and observational cosmology from Aristotle's cosmos over the Copernican revolution to the discovery of the accelerating universe in the late 1990s It presents cosmology as a subject including scientific as well as non scientific dimensions and tells the story of how it developed into a true science of the heavens Contrary to most other books in the history of cosmology it offers an integrated account of the development with emphasis on the modern Einsteinian and post Einsteinian period Starting in the pre literary era it carries the story onwards to the early years of the 21st century

Reader's Guide to the History of Science Arne Hessenbruch, 2013-12-16 The Reader's Guide to the History of Science looks at the literature of science in some

550 entries on individuals Einstein institutions and disciplines Mathematics general themes Romantic Science and central concepts Paradigm and Fact The history of science is construed widely to include the history of medicine and technology as is reflected in the range of disciplines from which the international team of 200 contributors are drawn The Universe in a Mirror Robert Zimmerman, 2010-03-14 The Universe in a Mirror describes the heated battles between scientists and bureaucrats the perseverance of astronauts to repair and maintain the telescope and more **Structures of Scientific Collaboration** Wesley Shrum, Joel Genuth, Ivan Chompalov, 2007 How technology and bureaucracy shape collaborative scientific research projects an empirical study of multiorganizational collaboration in the physical sciences Collaboration among organizations is rapidly becoming common in scientific research as globalization and new communication technologies make it possible for researchers from different locations and institutions to work together on common projects These scientific and technological collaborations are part of a general trend toward more fluid flexible and temporary organizational arrangements but they have received very limited scholarly attention Structures of Scientific Collaboration is the first study to examine multi organizational collaboration systematically drawing on a database of 53 collaborations documented for the Center for History of Physics of the American Institute of Physics By integrating quantitative sociological analyses with detailed case histories Shrum Genuth and Chompalov pioneer a new and truly interdisciplinary method for the study of science and technology Scientists undertake multi organizational collaborations because individual institutions often lack sufficient resources including the latest technology to achieve a given research objective The authors find that collaborative research depends on both technology and bureaucracy scientists claim to abhor bureaucracy but most collaborations use it constructively to achieve their goals The book analyzes the structural elements of collaboration among them formation size and duration organization technological practices and participant experiences and the relationships among them The authors find that trust though viewed as positive is not necessarily associated with successful projects indeed the formal structures of bureaucracy reduce the need for high levels of trust and make possible the independence so valued by participating scientists *The Last of the Great Observatories* George H. Rieke, 2021-11-09 The Spitzer Space Observatory originally known as the Space Infrared Telescope Facility SIRTf is the last of the four Great Observatories which also include the Hubble Space Telescope the Chandra X ray Observatory and the Compton Gamma Ray Observatory Developed over twenty years and dubbed the Infrared Hubble Spitzer was launched in the summer of 2003 and has since contributed significantly to our understanding of the universe George Rieke played a key role in Spitzer and now relates the story of how that observatory was built and launched into space Telling the story of this single mission within the context of NASA space science over two turbulent decades he describes how after a tortuous political trail to approval Spitzer was started at the peak of NASA's experiment with streamlining and downsizing its mission development process termed faster better cheaper Up to its official start and even afterward Spitzer was significant not merely in terms of its scientific value but

because it stood at the center of major changes in space science policy and politics Through interviews with many of the project participants Rieke reconstructs the political and managerial process by which space missions are conceived approved and developed He reveals that by the time Spitzer had been completed a number of mission failures had undermined faith in faster better cheaper and a more conservative approach was imposed Rieke examines in detail the premises behind faster better cheaper their strengths and weaknesses and their ultimate impact within the context of NASA s continuing search for the best way to build future missions Rieke s participant s perspective takes readers inside Congress and NASA to trace the progress of missions prior to the excitement of the launch revealing the enormously complex and often disheartening political process that needs to be negotiated He also shares some of the new observations and discoveries made by Spitzer in just its first year of operation As the only book devoted to the Spitzer mission **The Last of the Great Observatories** is a story at the nexus of politics and science shedding new light on both spheres as it contemplates the future of mankind s exploration of the universe

The Last of the Great Observatories George Henry Rieke, 2006-05-11 The Spitzer Space Observatory originally known as the Space Infrared Telescope Facility SIRTf is the last of the four Great Observatories which also include the Hubble Space Telescope the Chandra X ray Observatory and the Compton Gamma Ray Observatory Developed over twenty years and dubbed the Infrared Hubble Spitzer was launched in the summer of 2003 and has since contributed significantly to our understanding of the universe George Rieke played a key role in Spitzer and now relates the story of how that observatory was built and launched into space Telling the story of this single mission within the context of NASA space science over two turbulent decades he describes how after a tortuous political trail to approval Spitzer was started at the peak of NASA s experiment with streamlining and downsizing its mission development process termed faster better cheaper Up to its official start and even afterward Spitzer was significant not merely in terms of its scientific value but because it stood at the center of major changes in space science policy and politics Through interviews with many of the project participants Rieke reconstructs the political and managerial process by which space missions are conceived approved and developed He reveals that by the time Spitzer had been completed a number of mission failures had undermined faith in faster better cheaper and a more conservative approach was imposed Rieke examines in detail the premises behind faster better cheaper their strengths and weaknesses and their ultimate impact within the context of NASA s continuing search for the best way to build future missions Rieke s participant s perspective takes readers inside Congress and NASA to trace the progress of missions prior to the excitement of the launch revealing the enormously complex and often disheartening political process that needs to be negotiated He also shares some of the new observations and discoveries made by Spitzer in just its first year of operation As the only book devoted to the Spitzer mission **The Last of the Great Observatories** is a story at the nexus of politics and science shedding new light on both spheres as it contemplates the future of mankind s exploration of the universe

Changing Modes Andre Kraak, 2000 This book examines the influence of an important body of international

literature on the development of post apartheid policies in higher education and training and in science and technology The book also examines a related phenomenon the so called massification and democratisation of higher education world wide over the past two decades Engineering the Environment David P. D. Munns,2017-07-19 Promising an end to global hunger and political instability huge climate controlled laboratories known as phytotrons spread around the world to thirty countries after the Second World War The United States built nearly a dozen including the first at Caltech in 1949 Made possible by computers and other novel greenhouse technologies of the early Cold War phytotrons enabled plant scientists to experiment on the environmental causes of growth and development of living organisms Subsequently they turned biologists into technologists who in their pursuit of knowledge about plants also set out to master the machines that controlled their environment Engineering the Environment tells the forgotten story of a research program that revealed the shape of the environment the limits of growth and development and the limits of human control over complex technological systems As support and funding for basic science dwindled in the mid 1960s phytotrons declined and ultimately disappeared until nearly thirty years later the British built the Ecotron to study the impact of climate change on biological communities By revisiting this history of phytotrons David Munns reminds us of the vital role they can play in helping researchers unravel the complexities of natural ecosystems in the Anthropocene Science in the 20th Century and Beyond Jon Agar,2013-05-20 A compelling history of science from 1900 to the present day this is the first book to survey modern developments in science during a century of unprecedented change conflict and uncertainty The scope is global Science s claim to access universal truths about the natural world made it an irresistible resource for industrial empires ideological programs and environmental campaigners during this period Science has been at the heart of twentieth century history from Einstein s new physics to the Manhattan Project from eugenics to the Human Genome Project or from the wonders of penicillin to the promises of biotechnology For some science would only thrive if autonomous and kept separate from the political world while for others science was the best guide to a planned and better future Science was both a routine if essential part of an orderly society and the disruptive source of bewildering transformation Jon Agar draws on a wave of recent scholarship that explores science from interdisciplinary perspectives to offer a readable synthesis that will be ideal for anyone curious about the profound place of science in the modern world **History of Astronomy** John Lankford,2013-03-07 This Encyclopedia traces the history of the oldest science from the ancient world to the space age in over 300 entries by leading experts

Spies and Shuttles James E. David,2015-01-27 Revealing the connections between NASA and the United States defense community In this real life spy saga James E David reveals the extensive and largely hidden interactions between NASA and U S defense and intelligence departments The story begins with the establishment of NASA in 1958 and follows the agency through its growth not only in scope but also in complexity In Spies and Shuttles David digs through newly declassified documents to ultimately reveal how NASA became a strange bedfellow to the Department of Defense DoD and the Central

Intelligence Agency CIA He tracks NASA's early cooperation supplying cover stories for covert missions analyzing the Soviet space program providing weather and other scientific data from its satellites and monitoring missile tests that eventually devolved into NASA's reliance on DoD for political and financial support for the Shuttle David also examines the restrictions imposed on such activities as photographing the Earth from space and the intrusive review mechanisms to ensure compliance The ties between NASA and the intelligence community have historically remained unexplored and David's riveting book is the first to investigate the twists and turns of this labyrinthine relationship

Shaping Biology Toby A. Appel, 2003-04-30 Historians of the postwar transformation of science have focused largely on the physical sciences especially the relation of science to the military funding agencies In *Shaping Biology* Toby A Appel brings attention to the National Science Foundation and federal patronage of the biological sciences Scientists by training NSF biologists hoped in the 1950s that the new agency would become the federal government's chief patron for basic research in biology the only agency to fund the entire range of biology from molecules to natural history museums for its own sake Appel traces how this vision emerged and developed over the next two and a half decades from the activities of NSF's Division of Biological and Medical Sciences founded in 1952 through the cold war expansion of the 1950s and 1960s and the constraints of the Vietnam War era to its reorganization out of existence in 1975 This history of NSF highlights fundamental tensions in science policy that remain relevant today the pull between basic and applied science funding individuals versus funding departments or institutions elitism versus distributive policies of funding issues of red tape and accountability In this NSF funded study Appel explores how the agency developed how it worked and what difference it made in shaping modern biology in the United States Based on formerly untapped archival sources as well as on interviews of participants and building upon prior historical literature *Shaping Biology* covers new ground and raises significant issues for further research on postwar biology and on federal funding of science in general

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