

# RECONSIDERING SPUTNIK

FORTY YEARS SINCE  
THE SOVIET SATELLITE

Edited by  
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# Reconsidering Sputnik Forty Years Since The Soviet Satellite

**Sean N. Kalic**



## **Reconsidering Sputnik Forty Years Since The Soviet Satellite:**

**Reconsidering Sputnik** Roger D. Lanius, John M. Logsdon, Robert W. Smith, 2013-05-13 This book explores Russia's stunning success of ushering in the space age by launching Sputnik and beating the United States into space. It also examines the formation of NASA, the race for human exploration of the moon, the reality of global satellite communications, and a new generation of scientific spacecraft that began exploring the universe. An introductory essay by Pulitzer Prize winner Walter A. McDougall sets the context for Sputnik and its significance at the end of the twentieth century. **Soviet and Russian**

**Lunar Exploration** Brian Harvey, 2007-08-17 When in July 1969 the Americans decisively beat the Soviet Union in the race to put an astronaut on the moon, this event had profound historical, scientific, and political implications. This book tells the story of the Soviet and Russian lunar programme from its origins to the reconsideration of a lunar programme in the present day federal Russian space programme. Following Sputnik, the first Soviet lunar flights achieved the key goals of hitting, circling, and photographing the moon. In 1959, the Soviet Union planned to achieve the biggest prize of them all: the first person to land on the moon and build all the key spaceships required to do so, such as a lunar orbiter and lander. Brian Harvey describes the techniques devised by the USSR for lunar landing, from the LK lunar module to the LOK lunar orbiter, and tested versions in Earth orbit. He asks whether these systems would have worked and examines how well they were tested. He concludes that they would have, but the Soviet Union lost the moon race for political, not technical, reasons. Designs for moon bases were even drawn up. In the end, the Soviet Union ran an impressive series of robotic missions from 1968 to 1976 to circle the moon, map the far side, conduct scientific observations from orbit, recover samples, and rove over the surface. The scientific haul from these missions is surveyed, what was actually learned about the moon, its rocks, and the lunar environment that will be useful for the present plans by the United States to return to the moon and for other countries such as India and China to conduct their own lunar exploration. The book opens in Surgut, Siberia, in August 1976 with a largely forgotten event: the return to Earth after a three-day journey from the moon under a single parachute of the tiny Luna 24 cabin with a core sample drilled deep into the Sea of Crises, a remarkable scientific and engineering achievement. It ends with an examination of projected missions: from plans to explore the far side and set up lunar observatories to the Luna Glob explorer of the 1990s. There is also discussion of lunar tourism using a modernized version of the Zond spacecraft, which flew around the moon from 1968 to 1970. Critical issues in the history of spaceflight Steven J. Dick, 2018

*Satellite* Doug Millard, 2016-11-15 Right now, above our heads, nearly imperceptible to us but hugely important to how we live, are thousands of man-made objects that we have sent into space. Ubiquitous but mysterious, satellites are the technological infrastructure of our globally connected world, helping us do everything from orient ourselves on a map to watch our favorite television shows. Yet we rarely ever think about them. In this book, Doug Millard pays overdue tribute to the stoic existence of the satellite, tracing its simultaneous pathways through the cold silence of space and the noisy turbulence of the past century. How satellites ever

came to be is in itself a remarkable story Telling an astonishing history of engineering experimentation and ingenuity Millard shows how the Cold War space race made the earliest satellites ones like Sputnik Telstar and Early Bird household names He describes how they evolved into cultural signifiers that represented not only our scientific capabilities but our capacity for imagination our ability to broaden the scope of our vision to the farthest reaches From there he follows the proliferation of satellites in the second half of the twentieth century examining their many different forms how they evolved all the things they do what they have enabled and how they have influenced our popular culture Ultimately Millard asks what we can still expect what sort of space age the satellite has initiated that is yet to be fully realized Published in association with the Science Museum London this beautifully illustrated book will appeal to any fan of space exploration and technology

**Remembering the Space Age** Steven J. Dick, 2008 From the Publisher Proceedings of October 2007 conference sponsored by the NASA History Division and the National Air and Space Museum to commemorate the 50th anniversary of the Sputnik 1 launch in October 1957 and the dawn of the space age **Remembering the space age: Proceedings of the 50th Anniversary Conference** , Proceedings of October 2007 conference sponsored by the NASA History Division and the National Air and Space Museum to commemorate the 50th anniversary of the Sputnik 1 launch in October 1957 and the dawn of the space age **Accessory to War: The Unspoken Alliance Between Astrophysics and the Military** Neil

deGrasse Tyson, Avis Lang, 2018-09-11 Extraordinary A feast of history an expert tour through thousands of years of war and conquest Jennifer Carson New York Times Book Review In this far reaching foray into the millennia long relationship between science and military power acclaimed astrophysicist Neil deGrasse Tyson and co author Avis Lang examine how the methods and tools of astrophysics have been enlisted in the service of war Spanning early celestial navigation to satellite enabled warfare Accessory to War is a richly researched and provocative examination of the intersection of science technology industry and power that will introduce Tyson s millions of fans to yet another dimension of how the universe has shaped our lives and our world

**Total Cold War** Kenneth Osgood, 2006-02-23 When President Dwight Eisenhower spoke of waging total cold war he was proposing nothing less than a global all embracing battle for hearts and minds His wide ranging propaganda campaign challenged world communism at every turn and left a lasting mark on the American psyche Kenneth Osgood now chronicles the secret psychological warfare programs America developed at the height of the Cold War These programs which were often indistinguishable from CIA covert operations went well beyond campaigns to foment unrest behind the Iron Curtain The effort was global U S propaganda campaigns targeted virtually every country in the free world Total Cold War also shows that Eisenhower waged his propaganda war not just abroad but also at home U S psychological warfare programs blurred the lines between foreign and domestic propaganda with campaigns that both targeted the American people and enlisted them as active participants in global contest for public opinion Osgood focuses on major campaigns such as Atoms for Peace People to People and cultural exchange programs Drawing on recently declassified

documents that record U S psychological operations in some three dozen countries he tells how U S propaganda agencies presented everyday life in America to the world its citizens living full happy lives in a classless society where economic bounty was shared by all Osgood further investigates the ways in which superpower disarmament negotiations were used as propaganda maneuvers in the battle for international public opinion He also reexamines the early years of the space race focusing especially on the challenge to American propagandists posed by the Soviet launch of Sputnik Perhaps most telling Osgood takes a new look at President Eisenhower s leadership Believing that psychological warfare was a potent weapon in America s arsenal Ike appears in these pages not as a disinterested figurehead as he s often been portrayed but as an activist president who left a profound mark on national security affairs Osgood s distinctive interpretation places Cold War propaganda campaigns in the context of an international arena drastically changed by the communications revolution and the age of mass politics and total war It provides a new perspective on the conduct of public diplomacy even as Americans today continue to grapple with the challenges of winning other hearts and minds in another global struggle

**From Dissent to Diplomacy: The Pugwash Project During the 1960s Cold War** Alison Kraft, 2022-10-22 This book provides new and critical perspectives on the internal development of the Pugwash Conferences on Science and World Affairs the PCSWA Pugwash and its role in international nuclear diplomacy during the 1960s Cold War Conceived by western scientists dissenting from their own government s position on nuclear weapons the conferences brought together elite scientists from across the East West divide to work towards nuclear disarmament and for peace The analysis follows two lines First the book charts the emergence during the conferences of a distinctive form of technopolitical communication that was crucial to the role of Pugwash in Informal cross bloc dialogue about disarmament This enabled Pugwash to realize its paradoxical vision of working both with and against governments to promote disarmament and was key to its role as both a forum for and actor within the realm of informal diplomacy It is argued that Pugwash scientists formed the vanguard of what came in the 1960s to be called Track II diplomacy The relevance of the contemporary concept of Science Diplomacy for Pugwash is discussed The second analytical focus of the book centers on the internal dynamics of the international Pugwash organization It is argued that informal modes of working and a code of confidentiality accorded the leadership enormous power and autonomy this small network of senior figures was able to control the Pugwash agenda and priorities and to launch diplomatic initiatives beyond the conferences However by 1967 competing interests were fueling tensions and instability within Pugwash as it struggled for coherence and direction amid with the political challenges posed by the Vietnam War and European security This crisis manifest the limits of the Pugwash project and placed its future in doubt

Approaches to Future Space Cooperation and Competition in a Globalizing World National Research Council, Division on Engineering and Physical Sciences, Aeronautics and Space Engineering Board, Space Studies Board, 2009-07-23 Numerous countries and regions now have very active space programs and the number is increasing These maturing capabilities around the world

create a plethora of potential partners for cooperative space endeavors while at the same time heightening competitiveness in the international space arena This book summarizes a public workshop held in November 2008 for the purpose of reviewing past and present cooperation coordination and competition mechanisms for space and Earth science research and space exploration identifying significant lessons learned and discussing how those lessons could best be applied in the future particularly in the areas of cooperation and collaboration Presentations and initial discussion focused on past and present experiences in international cooperation and competition to identify lessons learned Those lessons learned were then used as the starting point for subsequent discussions on the most effective ways for structuring future cooperation or coordination in space and Earth science research and space exploration The goal of the workshop was not to develop a specific model for future cooperation or coordination but rather to explore the advantages and disadvantages of various approaches and stimulate further deliberation on this important topic

**Politics of Learning, Politics of Space** Tom Holert,2021-02-22

How the relationships between education and outer space have developed historically is exemplified in an incisive way by the decades that followed the Sputnik shock of 1957 The wake up call that resulted from the Soviet space program set the global landscape of learning in motion New schools and universities came into being against the backdrop of the reform euphoria and mood of catastrophe At the same time traditional pedagogical concepts were severely called into question including the call to do away with institutions of education What is shown in the architectures of learning is not only a politics of space but also the educational shock that intensively shook up the global societies of the 1960s and 1970s while they were gradually being transformed into knowledge societies

**Italy in Space** Michelangelo De Maria,Lucia Orlando,2008

**Militarizing**

**Outer Space** Alexander C.T. Geppert,Daniel Brandau,Tilman Siebeneichner,2020-12-02 Militarizing Outer Space explores the dystopian and destructive dimensions of the Space Age and challenges conventional narratives of a bipolar Cold War rivalry Concentrating on weapons warfare and violence this provocative volume examines real and imagined endeavors of arming the skies and conquering the heavens The third and final volume in the groundbreaking European Astroculture trilogy Militarizing Outer Space zooms in on the interplay between security technopolitics and knowledge from the 1920s through the 1980s Often hailed as the site of heavenly utopias and otherworldly salvation outer space transformed from a promised sanctuary to a present threat where the battles of the future were to be waged Astroculture proved instrumental in fathoming forms and functions of warfare s futures past both on earth and in space The allure of dominating outer space the book shows was neither limited to the early twenty first century nor to current American space force rhetorics

The First

Space Race Matt Bille,Erika Lishock,2004 Offers an account of the competitive technological and political race between the United States and the Soviet Union and their leaders to launch satellites

**US Presidents and the Militarization of**

**Space, 1946-1967** Sean N. Kalic,2012-04-10 In the clash of ideologies represented by the Cold War even the heavens were not immune to militarization Satellites and space programs became critical elements among the national security objectives

of both the United States and the Soviet Union According to US Presidents and the Militarization of Space 1946-1967 three American presidents in succession shared a fundamental objective of preserving space as a weapons free frontier for the benefit of all humanity Between 1953 and 1967 Presidents Eisenhower Kennedy and Johnson all saw nonaggressive military satellite development as well as the civilian space program as means to favorably shape the international community's opinion of the scientific technological and military capabilities of the United States Sean N Kalic's reinterpretation of the development of US space policy based on documents declassified in the past decade demonstrates that a single vision for the appropriate uses of space characterized American strategies across parties and administrations during this period Significantly Kalic's findings contradict the popular opinion that the United States sought to weaponize space and calls into question the traditional interpretation of the space race as a simple action reaction paradigm Indeed beyond serving as a symbol and ambassador of US technological capability its satellite program provided the United States with advanced nonaggressive military intelligence gathering platforms that proved critical in assessing the strategic nuclear balance between the United States and the Soviet Union It also aided the three administrations in countering the Soviet Union's increasing international prestige after its series of space firsts beginning with the launch of Sputnik in 1957

**Toward a Theory of Spacepower** Charles D. Lutes, 2011-03-07 This volume is a product of the efforts of the Institute for National Strategic Studies Spacepower Theory Project Team which was tasked by the Department of Defense to create a theoretical framework for examining spacepower and its relationship to the achievement of national objectives The team was charged with considering the space domain in a broad and holistic way incorporating a wide range of perspectives from U S and international space actors engaged in scientific commercial intelligence and military enterprises This collection of papers commissioned by the team serves as a starting point for continued discourse on ways to extend modify refine and integrate a broad range of viewpoints about human initiated space activity its relationship to our globalized society and its economic political and security interactions It will equip practitioners scholars students and citizens with the historical background and conceptual framework to navigate through and assess the challenges and opportunities of an increasingly complex space environment

**Outer Space and Popular Culture** Annette Froehlich, 2019-08-01 This book provides detailed insights into how space and popular culture intersect across a broad spectrum of examples including cinema music art arcade games cartoons comics and advertisements This is a pertinent topic since the use of space themes differs in different cultural contexts and these themes can be used to explore various aspects of the human condition and provide a context for social commentary on politically sensitive issues With the use of space imagery evolving over the past sixty years of the space age this is a topic ripe for in depth exploration The book also discusses the contrasting visions of space from the late 19th and early 20th centuries and the reality of today and analyzes space vehicles and habitats in popular depictions of space from an engineering perspective exploring how many of those ideas have actually been implemented in practice and why or why not a

case of life imitating art and vice versa As such it covers a wide array of relevant and timely topics examining intersections between space and popular culture and offering accounts of space and its effect on culture language and storytelling from the southern regions of the world [To Reach the High Frontier](#) Roger D. Launius,Dennis R. Jenkins,2014-07-11 Access no single word better describes the primary concern of the exploration and development of space Every participant in space activities civil military scientific or commercial needs affordable reliable frequent and flexible access to space To Reach the High Frontier details the histories of the various space access vehicles developed in the United States since the birth of the space age in 1957 Each case study has been written by a specialist knowledgeable about the vehicle described and places each system in the larger context of the history of spaceflight The technical challenge of reaching space with chemical rockets the high costs associated with space launch the long lead times necessary for scheduling flights and the poor reliability of the rockets themselves show launch vehicles to be the space program s most difficult challenge **Handbook of Space Engineering, Archaeology, and Heritage** Ann Darrin,Beth L. O'Leary,2009-06-26 Some might think that the 27 thousand tons of material launched by earthlings into outer space is nothing more than floating piles of debris However when looking at these artifacts through the eyes of historians and anthropologists instead of celestial pollution they are seen as links to human history and heritage Space The New Frontier for Ar [Russian Space Probes](#) Brian Harvey,Olga Zakutnyaya,2011-05-04 Brian Harvey recounts for the first time the definitive history of scientific Russian space probes and the knowledge they acquired of the Earth its environment the Moon Mars and Venus He examines what Russian Space Science has actually achieved in furthering our knowledge of the Solar System focusing on the instrumentation and scientific objectives and outcomes the information gained and lessons learnt Boxes and charts are used extensively in order to convey in an easily understandable manner for the non scientific reader the problems and issues addressed and solved by Soviet space science The book opens with the story of early space science in Russia which started when the first Russian rockets were fired into the high atmosphere from Kapustin Yar in the late 1940s Instruments were carried to measure and map the atmosphere and later rockets carried dogs to test their reactions to weightlessness In order to beat America into Earth orbit two simpler satellites than originally planned were launched Sputnik and Sputnik 2 which provided some initial information on atmospheric density while the following Sputnik 3 carried twelve instruments to measure radiation belts solar radiation the density of the atmosphere and the Earth s magnetic field The author recounts how by the 1960s the Soviet Union had developed a program of investigation of near Earth space using satellites within the Cosmos program in particular the DS Dnepropetrovsky Sputnik small satellites developed to investigate meteoroids radiation the magnetic fields the upper atmosphere solar activity ionosphere charged particles cosmic rays and geophysics Brian Harvey then gives the scientific results from Russian lunar exploration starting with the discovery of the solar wind by the First Cosmic Ship and the initial mapping of the lunar far side by the Automatic Interplanetary Station He describes Luna 10 which made the first full study of



the lunar environment Luna 16 which brought soil back to Earth and the two Moon rovers which travelled 50 kms across the lunar surface taking thousands of measurements soil analyses and photographs as well as profiles of discrete areas Chapters 4 and 5 describe in detail the scientific outcomes of the missions to Venus and Mars before considering the orbiting space stations in Chapter 6 Space science formed an important part of the early manned space program the prime focus being the human reaction to weightlessness how long people could stay in orbit and the effects on the body as well as radiation exposure Chapter 7 looks at the later stage of Soviet and Russian space science including Astron and Granat the two observatories of the 1980s and Bion the space biology program which flew monkeys and other animals into orbit The final chapter looks forward to a new period of Russian space science with the Spektr series of observatories and a range smaller science satellites under the Federal Space Plan 2006 2015

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