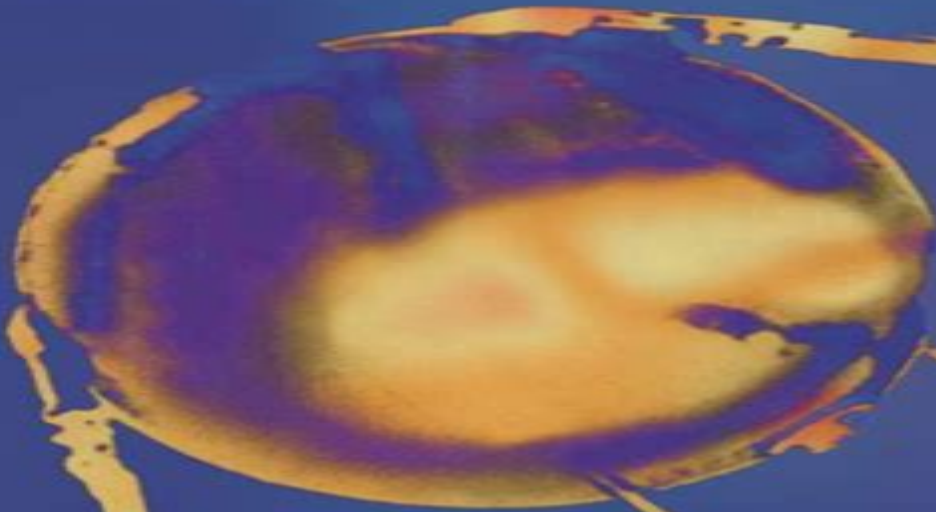


Helen Gavaghan



# **Something New Under the Sun**

Satellites and the  
Beginning of the Space Age

# Something New Under The Sun Satellites And The Beginning Of The Space Age

**E. Sadeh**



### **Something New Under The Sun Satellites And The Beginning Of The Space Age:**

Something New Under the Sun Helen Gavaghan,1997-11-07 In this the first history of artificial satellites and their uses Helen Gavaghan shows how the idea of putting an object in orbit around the earth changed from science fiction to indispensable technology in the twinkling of an eye Focusing on three major areas of development navigational satellites communications and weather observation and forecasting Gavaghan tells the remarkable inside story of how obscure men and women often laboring under strict secrecy made satellite technology possible a gripping read NEW SCIENTIST

**Something New Under the Sun** Helen Gavaghan,2012-12-06 In this the first history of artificial satellites and their uses Helen Gavaghan shows how the idea of putting an object in orbit around the earth changed from science fiction to indispensable technology in the twinkling of an eye Thanks to satellites we can now send data and images anywhere in the world in an instant The satellite based navigational system can pinpoint your exact location anywhere in the world it is so precise that from outer space it can detect the sag on an airplane's wing Focusing on three major areas of development navigational satellites communications and weather observation and forecasting Gavaghan tells the remarkable inside story of how obscure men and women often laboring under strict secrecy made the extraordinary scientific and technological discoveries needed to make these miracles happen Written by a science journalist with support from the Sloane Foundation the book describes the birth of the modern scientific era in the twentieth century with creation of satellite technology The narrative is part history beginning with the Russian U S contest with the launch of Sputnik part politics as scientists and visionary engineers compete for scarce funding that will bring their dreams to reality partly the story of the singular and fascinating individuals who were present at the creation of our modern technological era *Critical Issues in the History of Spaceflight* Stephen J. Dick,Steven J. Dick,Roger D. Launius,2006 In March 2005 the NASA History Division and the Division of Space History at the National Air and Space Museum brought together a distinguished group of scholars to consider the state of the discipline of space history This volume is a collection of essays based on those deliberations The meeting took place at a time of extraordinary transformation for NASA stemming from the new Vision of Space Exploration announced by President George W Bush in January 2004 to go to the Moon Mars and beyond This Vision in turn stemmed from a deep reevaluation of NASA's goals in the wake of the Space Shuttle Columbia accident and the recommendations of the Columbia Accident Investigation Board The new goals were seen as initiating a New Age of Exploration and were placed in the context of the importance of exploration and discovery to the American experience Amazon *Critical issues in the history of spaceflight* Steven J. Dick,2018 **The Rise of the Commercial Space Industry** Brian C. Odom,2024-09-13 This collection explores the evolution of the commercial space industry from the beginning of the space age through the early twenty first century Today the space industry is taking on an increased leadership and innovation role in both space access and exploration The growth of commercial space over the past decades offers a potential new paradigm for space exploration

one in which industry transitions from supplier to partner. However many questions remain. This book seeks to bring to light these questions which span from the most seemingly consequential how will humanity explore the Moon and Mars to the most basic what is commercial space. To further develop the historical context of commercial space and thereby better inform decision making at NASA in the future this volume examines a broad range of questions related to the history of commercial space operations including but not limited to how has the concept of commercial space evolved in different fields and disciplines. What have been the major events and milestones in the emergence and evolution of commercial space activities in the USA and internationally. How has the US Government assisted or impeded the emergence and evolution of commercial space activities. Providing contributions from a range of different disciplines and backgrounds the authors of this volume offer valuable insights for scholars researching the history of space and space policy as well as decision makers working at NASA or within the wider space industry.

**Postwar America** James Ciment, 2015-03-26 From the outbreak of the Cold War to the rise of the United States as the last remaining superpower the years following World War II were filled with momentous events and rapid change. Diplomatically economically politically and culturally the United States became a major influence around the globe. On the domestic front this period witnessed some of the most turbulent and prosperous years in American history. *Postwar America: An Encyclopedia of Social Political Cultural and Economic History* provides detailed coverage of all the remarkable developments within the United States during this period as well as their dramatic impact on the rest of the world. A-Z entries address specific persons groups concepts events geographical locations organizations and cultural and technological phenomena. Sidebars highlight primary source materials items of special interest statistical data and other information and Cultural Landmark entries chronologically detail the music literature arts and cultural history of the era. Bibliographies covering literature from the postwar era and about the era are also included as are illustrations and specialized indexes.

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.

Spying from Space David Christopher Arnold, 2008-06-12 On August 14 1960 a revolution quietly occurred in the reconnaissance capabilities of America. When the Air Force C-119 Flying Boxcar Pelican 9 caught a bucket returning from space with film from a satellite the American intelligence community gained access to previously denied information about the Soviet Union. The Corona reconnaissance satellite missions that followed lifted the veil of secrecy from the communist bloc revealing among other things that no Missile Gap existed. This revolution in military intelligence could not have occurred without the development of the command and control systems that made the Space Race possible. In *Spying from Space*

David Christopher Arnold tells the story of how military officers and civilian contractors built the Air Force Satellite Control Facility AFSCF to support the National Reconnaissance Program The AFSCF also had a unique relationship with the National Reconnaissance Office a secret organization that the U S government officially concealed as late as the 1990s Like every large technology system the AFSCF evolved as a result of the interaction of human beings with technology and with each other Spying from Space fills a gap in space history by telling the story of the command and control systems that made rockets and satellites useful Those interested in space flight or intelligence efforts will benefit from this revealing look into a little known aspect of American achievement Those fascinated by how large complex organizations work will also find this an intriguing study of inter service rivalries and clashes between military and civilian cultures **The Sun from Space**

Kenneth R. Lang, 2008-10-20 The First Edition of The Sun from Space completed in 1999 focused on the early accomplishments of three solar spacecraft SOHO Ulysses and Yohkoh primarily during a minimum in the Sun s 11 year cycle of magnetic activity The comprehensive Second Edition includes the main findings of these three spacecraft over an entire activity cycle including two minima and a maximum and discusses the significant results of six more solar missions Four of these the Hinode RHESSI STEREO and TRACE missions were launched after the First Edition was either finished or nearly so and the other two the ACE and Wind spacecraft extend our investigations from the Sun to its varying input to the Earth The Second Edition does not contain simple updates or cosmetic patch ups to the material in the First Edition It instead contains the relevant discoveries of the past decade integrated into chapters completely rewritten for the purpose This provides a fresh perspective to the major topics of solar enquiry written in an enjoyable easily understood text accessible to all readers from the interested layperson to the student or professional **The Idea Factory** Jon Gertner, 2013-02-26 The definitive

history of America s greatest incubator of innovation and the birthplace of some of the 20th century s most influential technologies Filled with colorful characters and inspiring lessons The Idea Factory explores one of the most critical issues of our time What causes innovation Walter Isaacson The New York Times Book Review Compelling Gertner s book offers fascinating evidence for those seeking to understand how a society should best invest its research resources The Wall Street Journal From its beginnings in the 1920s until its demise in the 1980s Bell Labs officially the research and development wing of AT T was the biggest and arguably the best laboratory for new ideas in the world From the transistor to the laser from digital communications to cellular telephony it s hard to find an aspect of modern life that hasn t been touched by Bell Labs In The Idea Factory Jon Gertner traces the origins of some of the twentieth century s most important inventions and delivers a riveting and heretofore untold chapter of American history At its heart this is a story about the life and work of a small group of brilliant and eccentric men Mervin Kelly Bill Shockley Claude Shannon John Pierce and Bill Baker who spent their careers at Bell Labs Today when the drive to invent has become a mantra Bell Labs offers us a way to enrich our understanding of the challenges and solutions to technological innovation Here after all was where the foundational ideas on

the management of innovation were born

**Cosmic Fragments** Asif A. Siddiqi, 2025-05-20 Looking beyond the well trodden celebratory narratives of space exploration and the powerful nostalgia of lunar landings *Cosmic Fragments* focuses instead on the moral ambiguities of spaceflight Beyond the fetishization of machines men and manifest destiny and the Cold War tensions of the space race lies a history rife with violence racial inequity colonial ambitions and catastrophe This volume yields new insights on the crucial role of environmental damage Indigenous dispossession population displacements infrastructural entanglements and narratives of decline in space exploration situated within larger questions in the history of science technology and the environment Each chapter explores histories of space travel across nations and regions to better understand the destructive power of infrastructure waste and exploitative legal regimes at the height of the space age Drawing from postcolonial science studies science and technology studies and anthropology contributors suggest that phenomena designed to disenfranchise and dislocate such as the displacement of Indigenous peoples were deeply imbedded in the coloniality of space travel By confronting and challenging problematic early accounts rooted in the cultural mores of settler colonialism *Cosmic Fragments* offers a fundamental repositioning of the history of spaceflight

**Secret Empire** Philip Taubman, 2003 During the most dangerous years of the Cold War a handful of Americans secretly built machines that revolutionized spying and warfare while protecting the United States from a surprise nuclear attack This is their story told in full for the first time of photos

**Space Exploration and Humanity** American Astronautical Society, 2010-08-23 A complete history of human endeavors in space this book also moves beyond the traditional topics of human spaceflight space technology and space science to include political social cultural and economic issues and also commercial civilian and military applications In two expertly written volumes *Space Exploration and Humanity A Historical Encyclopedia* covers all aspects of space flight in all participating nations ranging from the Cold War era beginnings of the space race to the lunar landings and the Apollo Soyuz mission from the Shuttle disasters and the Hubble telescope to Galileo the Mars Rover and the International Space Station The book moves beyond the traditional topics of human spaceflight space technology and space science to include political social cultural and economic issues and also commercial civilian and military applications Produced in conjunction with the History Committee of the American Astronautical Society this work divides its coverage into six sections each beginning with an overview essay followed by an alphabetically organized series of entries on topics such as astrophysics and planetary science civilian and commercial space applications human spaceflight and microgravity science space and society and space technology and engineering Whether investigating a specific issue or event or tracing an overarching historic trend students and general readers will find this an invaluable resource for launching their study of one of humanity's most extraordinary endeavors

**Space Politics and Policy** E. Sadeh, 2006-04-11 *Space Politics and Policy An Evolutionary Perspective* provides a comprehensive survey of Space Policy This book is organized around two themes Space Policy is evolutionary in that it has responded to dramatic political events such as the launching of Sputnik and the Cold War

and has undergone dynamic and evolutionary policy changes over the course of the space age Space Policy is an integral part of and interacts with public policy processes in the United States and abroad The book analyzes Space Policy at several levels including historical context political actors and institutions political processes and policy outcomes It examines the symbiotic relationships between policy technology and science provides a review and synthesis of the existing body of knowledge in Space Policy and identifies Space Policy trends and developments from the beginnings of the space age through the current era of the twenty first century

**Is War Necessary for Economic Growth?** Vernon W. Ruttan, 2006 Publisher Description

The Spacefaring Earth Michael G. Smith, 2024-12-04 This engaging survey of the Space Age links science and technology with politics and popular culture war and peace and crises and controversies It examines the history of spaceflight as a mirror of human thought and action across the Earth The volume encompasses the new astronomy and sciences of the modern era the early dreamers and pioneers after 1903 the national competitions of the First World War the rocket states that prepared for the Second World War the rivalries and space race of the Cold War between the US and USSR as well as more recent developments including the Space Shuttle the International Space Station national space programs orbital technologies transhumanism and military and commercial ventures in space It also stresses the importance of geography in the geopolitics of spaceflight competition and in the nature of the planetary biosphere Taking a chronological approach to lived human experience and threshold achievements the chapters show how these themes have been reflected in literature art music film and our new digital worlds This book is essential reading for students of the history of the Space Age as well as an excellent companion to courses on twentieth century science and technology the Cold War and American history

**Cold War Journalism** Kevin Grieves, 2021-04-29 This book explores Cold War journalism and journalists as threat representing enemy systems and ideologies The book also examines Cold War aspirations of forging transnational journalistic connections across the Iron Curtain as well as finding common journalistic ground within the East and West blocs The book shines a critical light on overly idealistic visions for that journalistic common ground drawing on primary archival source material to investigate journalists and reporting work journalistic content and journalistic venues during the Cold War era This is not a book about traditional war correspondence rather it is about the rhetorical battles and the ideological fronts that have shaped and continue to shape our world By fully understanding how journalism and journalists have intersected with hostile barriers and divisions in the past we can have a more nuanced understanding of the current global media environment

**Satellite Boy** Andrew Amelinckx, 2024-09-03 Mr Amelinckx is an adroit storyteller and thorough researcher and in Satellite Boy he has written a good engrossing yarn The Wall Street Journal Spanning the underworld haunts of Montreal to Havana and Miami in the early days of the Cold War Satellite Boy reveals the unlikely connection between an audacious bank heist and the other Space Race that gave birth to the modern communication age On April 6 1965 Georges Lemay was relaxing on his yacht in a south Florida marina following one of the largest and most daring bank heists in Canadian history

For four years the roguishly handsome criminal mastermind hid in plain sight eluding capture and the combined efforts of the FBI Interpol and the Royal Canadian Mounted Police His future appeared secure What Lemay didn't know was that less than two hundred miles away at Cape Canaveral a brilliant engineer named Harold Rosen was about to usher in the age of global live television with the launch of the world's first twenty-four hour commercial communications satellite Rosen's extraordinary accomplishment would not only derail Lemay's cushy life but change the world forever Brimming with criminal panache and technological intrigue and set against a turbulent and iconic period that includes the moon landing and the civil rights movement Satellite Boy tells the largely forgotten high stakes story of the two equally driven men who inadvertently launched the modern era

**After the Map** William Rankin, 2016-07-01 For most of the twentieth century maps were indispensable They were how governments understood managed and defended their territory and during the two world wars they were produced by the hundreds of millions Cartographers and journalists predicted the dawning of a map minded age where increasingly state of the art maps would become everyday tools By the century's end however there had been a decisive shift in mapping practices as the dominant methods of land surveying and print publication were increasingly displaced by electronic navigation systems In *After the Map* William Rankin argues that although this shift did not render traditional maps obsolete it did radically change our experience of geographic knowledge from the God's eye view of the map to the embedded subjectivity of GPS Likewise older concerns with geographic truth and objectivity have been upstaged by a new emphasis on simplicity reliability and convenience *After the Map* shows how this change in geographic perspective is ultimately a transformation of the nature of territory both social and political

Carl Sagan Keay Davidson, 2000-09-01 A penetrating mesmerizing biography of a scientific icon Absolutely fascinating Davidson has done a remarkable job Sir Arthur C Clarke Engaging accessible carefully documented sophisticated Dr David Hollinger for The New York Times Book Review Entertaining Davidson treats the nuances of Sagan's complex life with understanding and sympathy The Christian Science Monitor Excellent Davidson acts as a keen critic to Sagan's works and their vast uncertainties Scientific American A fascinating book about an extraordinary man Johnny Carson Davidson an award winning science writer has written an absorbing portrait of this Pied Piper of planetary science Davidson thoroughly explores Sagan's science wrestles with his politics and plumbs his personal passions with a telling instinct for the revealing underside of a life lived so publicly Los Angeles Times Carl Sagan was one of the most celebrated scientists of this century the handsome and alluring visionary who inspired a generation to look to the heavens and beyond His life was both an intellectual feast and an emotional rollercoaster Based on interviews with Sagan's family and friends including his widow Ann Druyan his first wife acclaimed scientist Lynn Margulis and his three sons as well as exclusive access to many personal papers this highly acclaimed life story offers remarkable insight into one of the most influential provocative and beloved figures of our time a complex contradictory prophet of the Space Age



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