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~~Soviet space program - Wikipedia~~

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The Soviet space program faced interesting times as Union began to crumble in the late 1980s and early 1990s. Instead of the Soviet space agency, Mir and its Soviet cosmonauts (who became Russian citizens when the country changed) came under the aegis of Roscosmos, the newly formed Russian space agency. Many of the design bureaus that had dominated space and aerospace design were either shut down or reconstituted as private corporations.

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Russia ' s space agency, Roscosmos, is looking to develop new options for human spaceflight, according to its head Dmitry Rogozin. It wants to replace the current Soyuz MS with a winged space shuttle, similar to the 1980s Buran. The Buran ( ' blizzard ' in Russian) was similar in design to the US space shuttle.

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Eager to outstrip their counterparts in the U.S. space program after the success of the moon landings, the Russians launched the world ' s first space station, Salyut-1, in April 1971. That June,...

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Less than three months after Kennedy ' s inauguration, on April 12, 1961, Soviet cosmonaut Yuri Gagarin became the first human to escape Earth ' s gravity. In the aftermath of his brief flight, the piloted component of the Soviet space program rapidly grew to become indisputably dominant over any other type of space activity.

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Following his release he became a recognized rocket designer and a key figure in the development of the Soviet Intercontinental ballistic missile program. He later directed the Soviet space program and was made a Member of Soviet Academy of Sciences, overseeing the early successes of the Sputnik and Vostok projects including the first human Earth orbit mission by Yuri Alexeyvich Gagarin on 12 April 1961. Korolev's unexpected death in 1966 interrupted implementation of his plans for a Soviet ...

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The Soviet Union achieved the first successful launch with the October 4, 1957, orbiting of Sputnik 1, and sent the first human to space with the orbital flight of Yuri Gagarin on April 12, 1961.

~~Space Race - Wikipedia~~

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In this remarkable oral history, Slava Gerovitch presents interviews with the men and women who witnessed Soviet space efforts firsthand. Rather than comprising a "master narrative," these fascinating and varied accounts bring to light the often divergent perspectives, experiences, and institutional cultures that defined the Soviet space program.

\*Includes pictures \*Profiles the various space missions the Soviets conducted during the 1950s and 1960s

\*Includes footnotes, online resources and a bibliography for further reading \*Includes a table of contents

"This is Moscow This is Moscow calling On the 12th of April, the Soviet Union orbited a spaceship around the Earth with a man on board The astronaut is a Soviet citizen: Major Gagarin, Yuri Alekseyevich The World's first cosmonaut The first to open the door into the unknown The first to step over the threshold of our homeland The whole planet knew him and loved him" Of all the goals the Bolshevik Revolution aimed to bring about, perhaps nowhere were Russian promises delivered on more than in the success of the Soviet Space program of the 1950s and 1960s. As a result of Russian innovation and technology, but also due to incredible drive to modernize and compete with the United States for world power, Russia was finally and triumphantly modernized in the eyes of her own people and the world. Neil deGrasse Tyson recognized the Soviet legacy in space in his Space Chronicles, citing the Soviets' "important measure[s] of space achievement: first spacewalk, longest spacewalk, first woman in space, first docking in space, first space station, longest time logged in space." In fact, the Soviet Union spent much of the 1950s leaving the United States in its dust (and rocket fuel). President Eisenhower and other Americans who could view Soviet rockets in the sky were justifiably worried that Soviet satellites in orbit could soon be spying on them, or, even worse, dropping nuclear bombs on them. Dovetailing off their success developing intercontinental ballistic missiles, the Soviets were the first to make enormous

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advances in actual space exploration, and on the night of October 4, 1957, the Soviets prepared to launch "Object D" atop one of its R-7 rockets. As the world's first ICBMs, R-7 rockets were built primarily to carry nuclear warheads, but "Object D" was a far different payload. "Object D" and the R-7 rocket launched from a hastily constructed launch pad, and within minutes it entered orbit. It took that object, now more famously known as Sputnik-1, about 90 minutes to complete its orbit around the Earth, speeding along at 18,000 miles per hour while transmitting a distinct beeping noise by radio. Eventually, the Space Race produced some of the most iconic moments of the 20th century, including the landing of the first men on the Moon, and today, the race is widely viewed poignantly and fondly as a race to the Moon that culminated with Apollo 11 "winning" the race for the United States. In fact, it encompassed a much broader range of competition between the Soviet Union and the United States that affected everything from military technology to successfully launching satellites that could land on Mars or orbit other planets in the Solar System. Moreover, the notion that America "won" the Space Race at the end of the 1960s overlooks just how competitive the Space Race actually was in launching people into orbit, as well as the major contributions the Space Race influenced in leading to today's International Space Station and continued space exploration. Soviet Russia's Space Program During the Space Race: The History and Legacy of the Competition that Pushed America to the Moon chronicles the history of Russia's space development and the competition it fostered. Along with pictures of important people, places, and events, you will learn about the Russian space program like never before, in no time at all.

This, fifty years after Sputnik, is the definitive book on the Russian space program. The author covers all the key elements of the current Russian space program, including both manned and unmanned missions.

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He examines the various types of unmanned applications programs as well as the crucial military program, and even analyzes the infrastructure of production, launch centres and tracking. You ' ll also find discussion of the commercialization of the program and its relationship with western companies. Russia ' s current space experiment is also put in a comparative global context. Strong emphasis is placed on Russia ' s future space intentions and on new programs and missions in prospect.

Based on new Russian sources, Siddiqi's book reveals the truth about the Soviet space program to tell a technical, political, and personal history of the major Soviet initiatives. Photos & illustrations.

The launch of the Sputnik satellite in October 1957 changed the course of human history. In the span of a few years, Soviets sent the first animal into space, the first man, and the first woman. These events were a direct challenge to the United States and the capitalist model that claimed ownership of scientific aspiration and achievement. Into the Cosmos shows us the fascinating interplay of Soviet politics, science, and culture during the Khrushchev era, and how the space program became a binding force between these elements.

With the launch of the Sputnik 1 satellite on October 4, 1957, the Soviet Union started the space race; the race for the moon soon followed. Here too the USSR was ahead of the game: the first flyby of the moon, the first lunar-impact probe, the first pictures of the far side, and the first soft landing. Defending the lead, and thus demonstrating the superiority of communism, was an ideological must for Soviet leadership. The United States soon caught up and surpassed the Soviet moon program. This book chronologically examines the fifty-nine missions the USSR sent or intended to send to the moon from

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1959 to 1976. Eventually, the Soviets finally abandoned the idea of a manned moon landing and for the following decade and a half claimed that they never conducted such a program. Unmanned Soviet lunar flights continued until 1976, by which time they had used up all of the space probes built in the years previous.

This book tells the story of the Soviet and Russian lunar programme, from its origins to the present-day federal Russian space programme. Brian Harvey describes the techniques devised by the USSR for lunar landing, from the LK lunar module to the LOK lunar orbiter and versions tested in Earth ' s orbit. He asks whether these systems would have worked and examines how well they were tested. He concludes that political mismanagement rather than technology prevented the Soviet Union from landing cosmonauts on the moon. The book is well timed for the return to the moon by the United States and the first missions there by China and India.

The book received the Emme Award for Astronautical Literature at the March 20 2000 luncheon of the Goddard Memorial Symposium, sponsored by the American Astronautical Society. Named in honor of the first NASA Historian, Eugene Emme, the Emme award was created in 1982 to annually recognize an outstanding book that increases public understanding of the past and potential impact of the field of astronautics.

Soviet Robots in the Solar System provides a history of the Soviet robotic lunar and planetary exploration program from its inception, with the attempted launch of a lunar impactor on September 23, 1958, to the last launch in the Russian national scientific space program in the 20th Century, Mars

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96, on November 16, 1996. This title makes a unique contribution to understanding the scientific and engineering accomplishments of the Soviet Union ' s robotic space exploration enterprise from its infancy to its demise with the collapse of the Soviet Union. The authors provide a comprehensive account of Soviet robotic exploration of the Solar System for both popular space enthusiasts and professionals in the field. Technical details and science results are provided and put into an historical and political perspective in a single volume for the first time. The book is divided into two parts. Part I describes the key players and the key institutions that build and operate the hardware, the rockets that provide access to space, and the spacecraft that carry out the enterprise. Part II is about putting these pieces together to enable space flight and mission campaigns. Part II is written in chronological order beginning with the first launches to the Moon. Each chapter covers a particular period when specific mission campaigns were undertaken during celestially-determined launch windows. Each chapter begins with a short overview of the flight missions that occurred during the time period and the political and historical context for the flight mission campaigns, including what the Americans were doing at the time. The bulk of each chapter is devoted to the scientific and engineering details of that flight campaign. The spacecraft and payloads are examined with as much technical detail as is available today, the progress is described, and a synopsis of the scientific result is given.

“ This remarkable account of the 1961 race into space is a thrilling piece of storytelling....It is high definition history: tight, thrilling and beautifully researched. ” (The Times, London, Front Page Lead Review) “ Beyond has the exhilaration of a fine thriller, but it is vividly embedded in the historic tensions of the Cold War, and peopled by men and women brought sympathetically, and sometimes tragically, to life. ” —Colin Thubron, author of *Shadow of the Silk Road* 09.07 am. April 12, 1961. A

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top secret rocket site in the USSR. A young Russian sits inside a tiny capsule on top of the Soviet Union ' s most powerful intercontinental ballistic missile—originally designed to carry a nuclear warhead—and blasts into the skies. His name is Yuri Gagarin. And he is about to make history. Travelling at almost 18,000 miles per hour—ten times faster than a rifle bullet—Gagarin circles the globe in just 106 minutes. From his windows he sees the earth as nobody has before, crossing a sunset and a sunrise, crossing oceans and continents, witnessing its beauty and its fragility. While his launch begins in total secrecy, within hours of his landing he has become a world celebrity – the first human to leave the planet. Beyond tells the thrilling story behind that epic flight on its 60th anniversary. It happened at the height of the Cold War as the US and USSR confronted each other across an Iron Curtain. Both superpowers took enormous risks to get a man into space first, the Americans in the full glare of the media, the Soviets under deep cover. Both trained their teams of astronauts to the edges of the endurable. In the end the race between them would come down to the wire. Drawing on extensive original research and the vivid testimony of eyewitnesses, many of whom have never spoken before, Stephen Walker unpacks secrets that were hidden for decades and takes the reader into the drama of one of humanity ' s greatest adventures – to the scientists, engineers and political leaders on both sides, and above all to the American astronauts and their Soviet rivals battling for supremacy in the heavens.

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