



Progress Space Rocket Center JSC



Role of Samara in developing of Russian and world cosmonautics

Роль Самары в развитии российской и мировой космонавтики

А.Н. Кирилин, Генеральный директор АО «РКЦ «Прогресс»
Aleksander Kirilin, General Director, Space Rocket Centre Progress

Historical Background

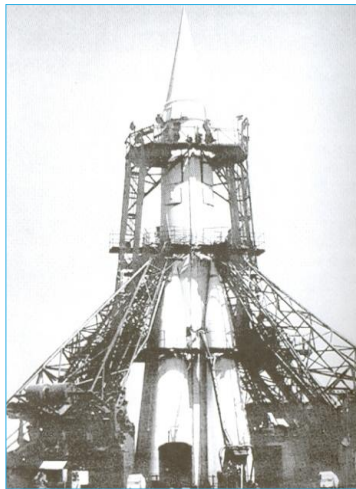
Dirigibles, bicycles, automobiles, propeller sleighs.

Aircraft:

Farman IV, MiG-3, 11863 IL-2 attack planes, MiG-9 and MiG-15 jet airplanes, IL-28 heavy bombers, Tu-16 and other aircraft equipment.

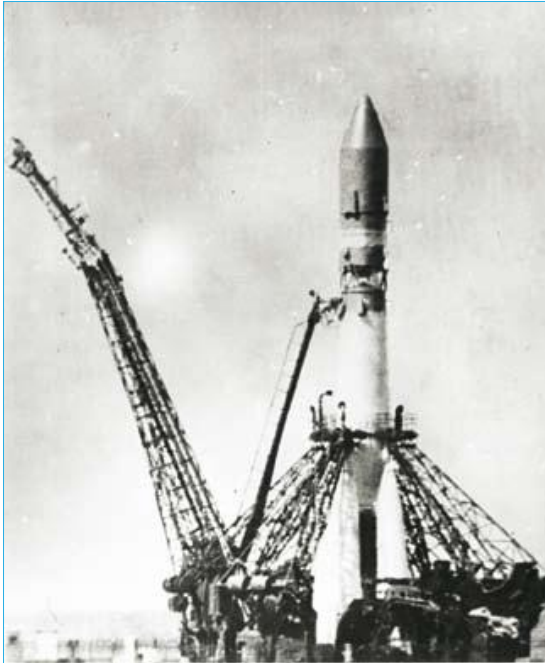
Launch Vehicles:

Since 1958 more than 1,840 launch vehicles including 9 modifications of Korolev's R-7 rocket developed by OKB-1's Kuybyshev subsidiary (subsequently TsSKB) have been built and launched by constructors from Kuibyshev (known today as Samara).



Yuri Gagarin and Samara (Kuibyshev)

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Vostok Launch Vehicle
Two stages manufactured in Kuibyshev



Yuri Gagarin after landing

Yuri Gagarin and Samara (Kuibyshev)

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Yuri Gagarin on the airfield of
the manufacturing plant



Yuri Gagarin on the bank of the
Volga river in Kyibyshev,
April 14, 1961

Valentina Tereshkova – first woman in space

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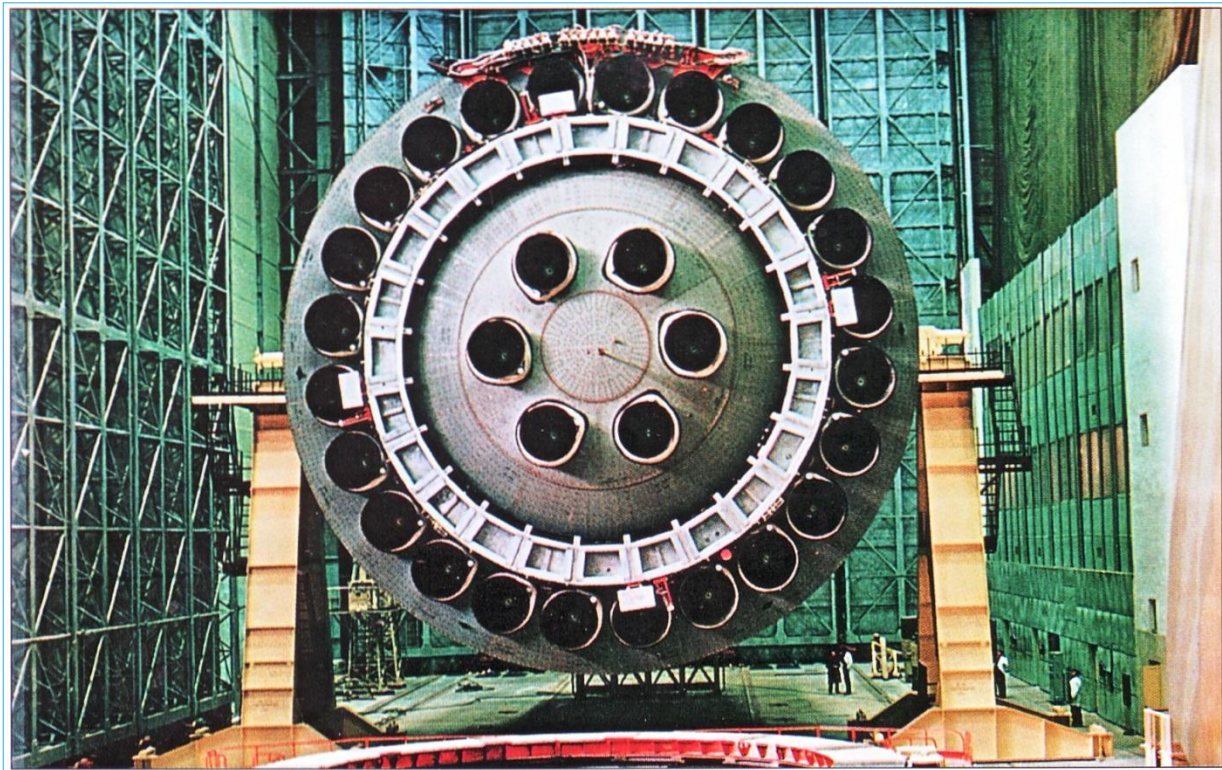
Alexey Leonov – first man in outer space

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Lunar Program

7



Apollo-Soyuz Test Project

8



July 15, 1975 was launched Soyuz-19 spacecraft under the SATP (Apollo-Soyuz) Project.



American Crew :

- Thomas P. Stafford
- Vance D. Brand
- Donald K. Slayton



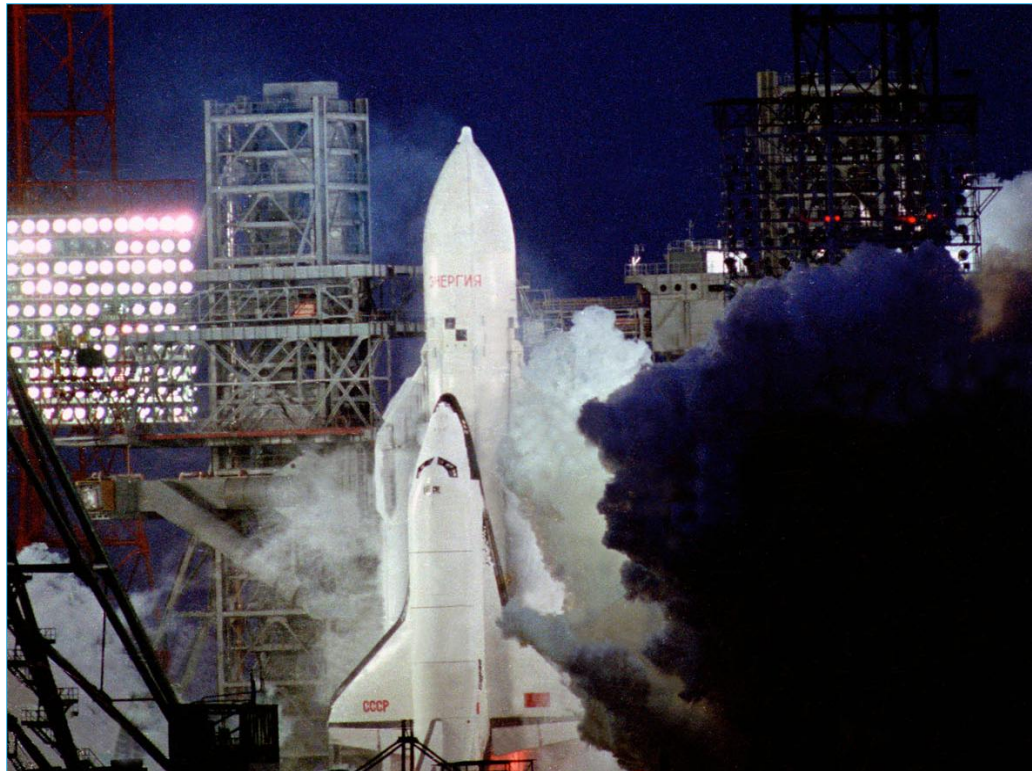
Soviet Crew:

- Alexey Leonov
- Valeri Kubasov



Energia-Buran Reusable Transportation Space System Project

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Launch Vehicles Designed by Progress Space Rocket Center

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Soyuz-FG



Soyuz-2 phase 1A



Soyuz-2 Phase 1B



Soyuz-ST



Soyuz-2 Phase 1V



As of today 1879 carriers have been launched

Manned Launches and Cargo Delivery to the International Space Station

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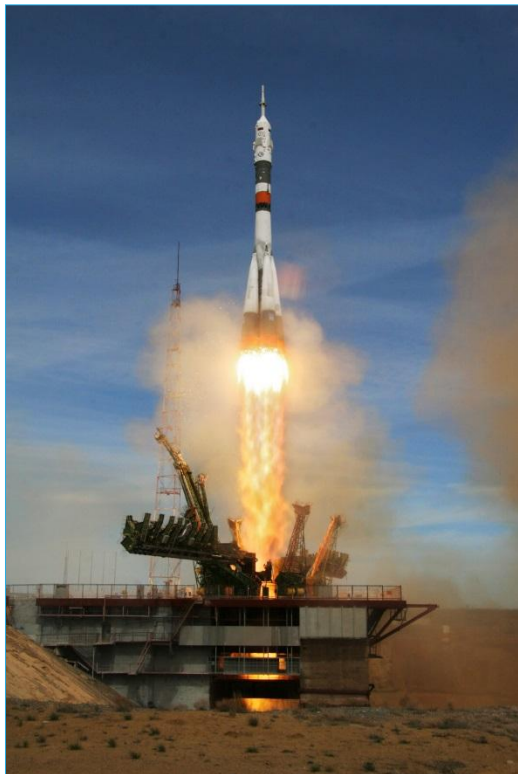


Старт РН №Т15000-145 с ТГК "Прогресс МС-05" №435



22 февраля 2017 года

Manned Launch Campaigns 2017



Feodor Yurchikhin



Jack Fischer



Sergey Ryazansky



Randolph Bresnik



Paolo Nespoli



Alexander Misurkin



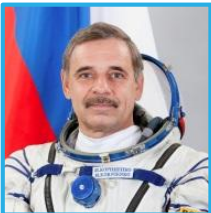
Mark Vande Hei



Joe Acaba

Samara group of cosmonaut

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Mikhail Borisovich KORNIYENKO

The number of flights - 2
Duration of flights: more than 516 days



Oleg Yuryevich ATKOV

The number of flights – 1
Time of flight - 236 days



Gennady Mikhaylovich Manakov

The number of flights – 2
Duration of flights: more than 309 days

Sergey Vasilyevich AVDEEV

The number of flights - 2
the ex-record-holder on stay in space (more than
747 days)



Alexey Aleksandrovich GUBAREV

The number of flights – 2
Duration of flights: 67 days



Valery Fedorovich Bykovsky

The number of flights – 3
Duration of flights: 24 days



Oleg Dmitriyevich Kononenko

The number of flights – 3
Duration of flights: 533 days

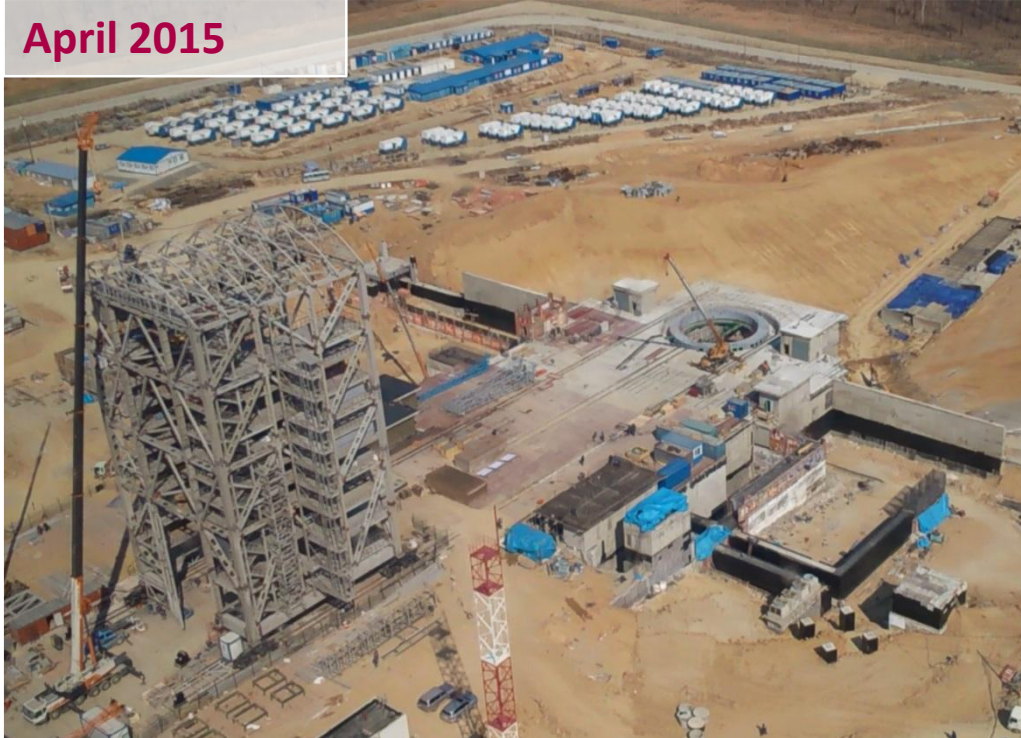




Vostochny Space Range

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April 2015



March 2016



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Mobile service gantry provides convenient access to all the service areas of the launcher placed vertically in the launch system.

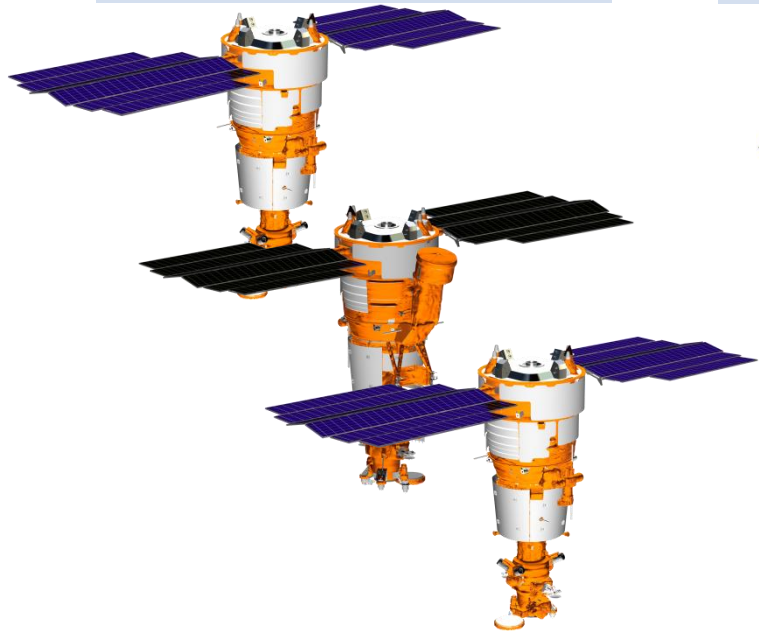


Vostochny Space Range

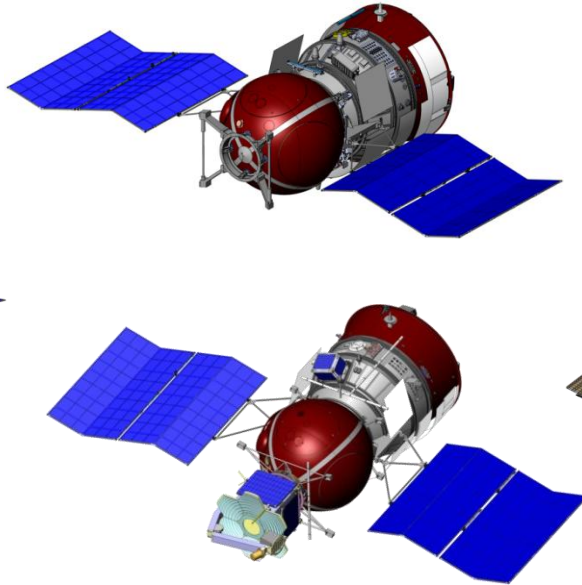
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Resurs-P line



Foton and Bion line



Aist-2D small satellite





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Thank you for your attention!

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