The significance of Gagarin's flight into space

April 12, 1961, the era of the conquest of outer space. On this day, Soviet cosmonaut Yuri Gagarin orbited the Earth on an orbital spacecraft "Vostok-1". Carrier rocket "Vostok" spaceship "Vostok-1" was launched from the Baikonur Cosmodrome. His flight lasted 108 minutes, and these minutes turned all ideas about the achievable and the unthinkable, about the possible and the impossible.

That meant the flight of Yuri Gagarin for our country and for humanity as a whole? This flight was rejoiced not only in our country, but, in fact, all over the world. Because ordinary people were sincerely happy about this event, realizing that it is a huge event for all of humanity.

Yuri Gagarin was there, where never been any man on Earth, and in general no creature of the universe, has a mind like the human mind. He experienced weightlessness. This quite normal for the human condition, he was about a half hour. Gagarin was not only "exist" in this state. He worked. He calmly answered his compatriots who followed his flight, relayed messages, thought ...

The problem of space flight can be broken down into two main parts. First, we need a cabin equipped with all the devices necessary to create and maintain normal living conditions at various stages of flight: launch, entry into orbit, flight in outer space, descent to Earth, passage through dense regions of the earth's atmosphere. The second part consists in the mechanics of the flight itself, in its last stage - in ensuring a reliable return to Earth of the spacecraft and the astronaut, excluding any chances.

As for the first question, even with the current state of physics, chemistry, physical and chemical instrumentation and mechanical engineering, and automation, our scientists and engineers had to work hard to successfully solve it. The final results of this huge work speak for themselves.

Regarding the second issue, spacecraft flight control is a broad concept that encompasses a wide range of individual issues. It should be borne in mind that space flight control should differ significantly from the control of a conventional aircraft, the flight of which occurs only in the presence of lift. The plane is flying in the atmosphere. Space flight takes place in an airless environment. Nevertheless, our specialists were able to successfully control the flight of the spacecraft and the descent of the astronaut to the ground. Yuri Gagarin has successfully landed in the Saratov region.

The first flight in the history of mankind in outer space, implemented by Soviet cosmonaut Yuri Gagarin on the satellite-spacecraft "Vostok", led to the conclusion of enormous scientific value of the feasibility of human spaceflight. He showed that a person can normally endure the conditions of space flight, launching into orbit and returning to the surface of the Earth. This flight has shown that in conditions of weightlessness, a person fully retains working capacity, coordination of movements, and clarity of thinking.

The first space flight of man has shown that science and technology in our country is completely solved the fundamental problem of creating a managed and returned to Earth a spacecraft. All complex control systems worked flawlessly in flight.

The flight of Yuri Gagarin showed that the way a person in interplanetary space, to the moon, other planets, in principle, open and only requires time for the further working out of theoretical and practical issues. For example, in the flight of the cosmonaut G. Titov, the data obtained by Y. Gagarin were used. The ship was slightly improved, installed on board the regeneration setting differs from the recovery plant "Vostok-1" made of blocks, chemicals and has been more perfect.

The value of the flight of Yuri Gagarin is extremely high for the further development of the near-Earth space, and for the development of interplanetary travel.

Now is the moment when the International Space Station is successfully operating in Earth orbit with a permanent crew, and the cosmonauts have been working for years. In fact, this is a rehearsal for a flight to Mars, although there is still a lot of unknown in preparation for this flight. The next step is to create a permanent base on the moon.