

IAF HUMAN SPACEFLIGHT SYMPOSIUM (B3)
Human Spaceflight Global Technical Session (9-GTS.2)

Author: Mr. Andrey Alyokhin
JSC Glavkosmos, Russian Federation

Ms. Anna Migas
JSC Glavkosmos, Russian Federation

”THE CHALLENGE” PROJECT: A NEW APPROACH TO COMMERCIAL SPACEFLIGHTS

Abstract

Yulia Peresild, Russian actresses, and film director Klim Shipenko returned to Earth in October, 2021, after spending 12 days onboard the International Space Station (ISS) while shooting the first movie in orbit. The project is titled ”The Challenge” as well as the movie to be produced later this year. The project has created new opportunities for non-professional space tourists and space lovers from around the globe by adding a new dimension of outer-space content making. Many companies are competing to make space travels easier and more affordable. The Russian State Space Corporation Roscosmos’ policy is to keep pace with the modern world by constantly evolving and accelerating its activities. Today, there is a strong need in the rapid space travelers training. With ”The Challenge” project, we have now much more tools and technologies that make space tourists learning easier than ever. There’ve also been major improvements in the training management, and space instructors, technicians, psychologists with many other specialists shall apply now state-of-the-art digital and personal approaches. This all has made it possible to make astronauts out of people who didn’t even think of flying into space some four months ago. ”The Challenge” project turned the ISS into an orbital movie studio. Previously, it was only possible to shoot films on Earth, with computer graphics and 3D modeling. But in today’s digital world, the authenticity of the content comes first. ”The Challenge” project is bringing feeling of being in space with new means of visual content making. Besides, ”The Challenge” project has made it possible to work out technology of emergency sending a medical specialist to help the ISS crew. The newly commissioned short two-orbital flight to the ISS takes a bit more than 3 hours which is an hour less than direct flight from Moscow to Paris – instead of previously experienced 2-day difficult space trip to the orbital outpost. Newly invented rehabilitation technologies within ”The Challenge” project have significantly reduced the rehabilitation period for space flight participants. Glavkosmos organizes commercial crewed flights to the International Space Station. It arranged the first ever commercial spaceflight to the orbital Mir station in 1990 and other space tourists from different parts of the world.