Paper ID: 90013
student

IAF SPACE TRANSPORTATION SOLUTIONS AND INNOVATIONS SYMPOSIUM (D2)
Interactive Presentations - IAF SPACE TRANSPORTATION SOLUTIONS AND INNOVATIONS SYMPOSIUM (IP)

Author: Mr. Ramil Abdullayev
Azerbaijan State Pedagogical University (ASPU), Azerbaijan

# MOON: THE DOOR TO THE FUTURE

**Abstract**

The purpose of this article is to build a space station on the moon. During space flights from Earth, there is a significant amount of fuel consumption, and also, the spacecraft becomes useless due to atmospheric resistance when returning to Earth. The fact that the Moon's gravity is much smaller than the Earth's, makes it much easier to overcome its gravitational field compared to the Earth. In other words, it is very convenient to go into space using very little fuel on the Moon. Moreover, since there is no atmosphere on moon's surface, rockets will not be subjected to any wear or heating. This will increase the lifespan of rockets. For these reasons, during space flights, flying from the Moon and returning to the Moon is more cost-effective than to Earth. In this case, the number of space flights will increase. As a result, our experiences in this field will also increase. The space station to be built on the moon must have some specific characteristics. To protect it from solar ultraviolet radiation, the station should be built within the extinct volcanoes on the Moon. We can protect the station from ultraviolet radiation by Creating an artificial ozone layer inside the volcano. We will use solar panels to power the station. With artificial intelligence, we can minimize the live workforce on the station. Tasks that AI cannot handle can be executed by robots, controlled from Earth. We can supply fuel for spacecraft both from Earth and from the Moon itself. By separating the hydrogen and oxygen atoms in the ice crystals present on the Moon through the process of electrolysis, we can provide the necessary fuel for rockets. We can prepare a concrete-like substance to protect infrastructure from external influences by mixing the lunar soil with these ice crystals, . With this substance, we can cover the infrastructure using special technology operated by robots.