

IAF HUMAN SPACEFLIGHT SYMPOSIUM (B3)
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COMMERCIAL MANNED MISSION TO THE SURFACE OF VENUS.

Abstract

The report will focus on the author's project of a manned expedition to Venus with the landing of one or two crew members on its surface in a special mobile module. The module has the ability to move both on the surface of the planet and in its atmosphere. The mobile module has a set of instruments for studying the lower atmosphere and collecting soil samples from Venus. With the help of the drilling rig, it is possible to collect samples from a depth of 50 meters without disturbing the stratification. With the help of a unique thermal control system, the crew will work on the surface for more than two months. Even the problem of crew walks to the surface of Venus has been solved! The project will be implemented via just one heavy rocket launch with a payload of 20-25 tonnes. Number of the Crew will depend on the number of starts. One rocket launch is - an additional crew member. This project is simple and reliable and can be implemented within 5 years from the start of funding.