

66th International Astronautical Congress 2015

HUMAN SPACEFLIGHT SYMPOSIUM (B3)
Advanced Systems, Technologies, and Innovations for Human Spaceflight (7)

Author: Prof. chuanfeng wei
Institute of Manned Space System Engineering, China Academy of Space Technology (CAST), China,
chfwei@163.com

RISKS AND COUNTERMEASURES OF MICROBE CONTROL IN CHINA MANNED SPACE
STATION

Abstract

Chuanfeng, professor, PHD, Member of IAF Human Spaceflight Committee, director of system division of Institute of Manned Space System Engineering, CAST.

Abstract: The pressured cabin of manned spacecraft provides a hospitable environment for long-term onboard residences, which can also be a good condition for the growth of microbes. These microbes bring about certain risks to the astronauts' health and the safety of space station platform. On the basis of lacking experiences in microbes control in China prior tasks, microbe control is of great importance problem on the process of spacecrafts designing in the coming China Manned Space Station Project. Taking the Space Station, the AIT center and launch site into account, the article analyzes difficulties in microbe control, and some corresponding countermeasures are proposed.

Key words: manned spacecraft, microbe, space station