

HUMAN SPACE ENDEAVOURS SYMPOSIUM (B3)
Astronauts: Those Who Make it Happen (5)

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CHINESE ASTRONAUT TRAINING SYSTEM AND ITS INDUSTRIALIZATION DEVELOPMENT
COURSE

Abstract

Manned spaceflight is the landmark in the development course of Chinese science and technology. During the training as long as five years and ten months from year of 1998 when China started to train the first batch of astronauts, until 2003 the first astronaut carried out the mission of Shenzhou V, astronauts center successfully implements all the training subjects including the basic theories and professional skills, shaping a relatively complete astronaut training system. It usually takes three and a half years to finish the training of a professional astronaut accordingly for basic training, spaceflight professional technology and flight procedure mission simulation phases. A assessment will be conducted after all the training to judge if the trained astronaut has achieved the standard. Based on experience working as an astronaut for several years in accordance with the specific conditions and combines with the performance of the six first astronauts carrying out the spaceflight mission, this paper proves that these astronauts has gained relevant knowledge and skills required by flight mission through complete and systematic training, moreover, it proposes the direction of Chinese astronaut training system in the future. In abroad, astronaut training system features directional training, division of labor and coordination of work, in which a long term plan is customized to suit individual and specific characteristics of each astronaut, fully exerting function of social lever. Currently, Chinese manned spaceflight is still in its starting stage, and as the launch of manned spacecraft is affected by various uncertain factors, with low ability in resisting risk and low national psychological withstanding ability correspondingly, which makes China adopt unified training , combine introduced foreign technologies with its own developed ones. But what faces China now is that while the new astronauts haven't been trained yet, the old ones can't meet the increasingly developing long-term requirements of manned spaceflight mission. This paper reflects the astronaut training in the future and puts forward the developing direction of industrialization. The astronaut training mode could be internationalized, diversified and multi-participate through open industry atmosphere, conducting effectively assessment with explicit industry institution and implicit knowledge system, therefore providing reference for sustainable development of astronauts training system.