

SPACE EXPLORATION SYMPOSIUM (A3)  
Space Exploration Overview (1)

Author: Dr. Wenyi CAI

China Academy of Launch Vehicle Technology(CALT), China, caiwenyi0803@hotmail.com

Mr. Donghao Li

China Academy of Launch Vehicle Technology (CALT), China, 179293842@qq.com

Mr. Wenjie Shan

China Academy of Launch Vehicle Technology (CALT), China, ahswjzn@163.com

Mrs. Shaofei Wang

China Academy of Launch Vehicle Technology (CALT), China, wangsf2011@gmail.com

Dr. Saili Tang

China Academy of Launch Vehicle Technology (CALT), China, tangsaili@126.com

ANALYSIS ON THE DEVELOPING TREND OF INTERNATIONAL COOPERATION IN DEEP  
SPACE EXPLORATION

**Abstract**

Deep space exploration has been an important way for the national scientific and technological progress and the verification of the new technology. It has important significance to research on the origin and the evolution of human being, also to understand the development of earth's environment and the utilization of space resources. To explore the unknown world is the eternal power of human development. To explore the origin, development and evolution of the solar system and even the entire universe, is the eternal scientific goal of deep space exploration. In the past 20 years, a great many countries push all the while their own deep space research and exploration. The extension of deep space exploration activities expands gradually, and the exploration tasks tend to be diversiform. The first part of this paper will explain the definition, main content and significance of deep space exploration. The second part will focus on the key technologies that the deep space exploration involves, and the development actuality of the deep space exploration of the world, introducing the international cooperation programs and the development situation in deep space exploration of USA, Japan, Europe and other countries and regions. This part focuses also on the situation of participation in international cooperation and exchanges in space exploration of China. The last part will analyze the importance of international cooperation in deep space exploration, and the developing trend of international cooperation in deep space exploration in the future. To the peaceful use of space resources, to explore the mysteries of the universe, to create a more beautiful tomorrow, all countries of the world need to work together, and Conduct extensive exchanges and cooperation.