

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

Author: Ms. Heng Zhang
Shanghai Insitute of Satellite Engineering, China

Dr. Xi Lu
Shanghai Key Laboratory of Deep Space Exploration Technology, China
Mr. Yuming Peng
Shanghai Institute of Satellite Engineering, China

FEASIBLITY ANALYSIS AND DEVELOPMENT PROPOSAL ON ASTEROID MINING

Abstract

Asteroid, as the products of solar system in early days, of which the chemical element and mineral composition is of scientific significance to the research of evolution of solar system and human origin. Asteroid mining, as the important value in science, technology, economy and society, is paid much attention by more and more countries. Based on asteroid mission and project, current and future asteroid exploration are studied. Then, the feasibility of asteroid mining is clarified in policy, economy, and technology level. In addition, possible political, military, technological and economical benefits brought by asteroid mining are analyzed. At last, development proposal on asteroid mining in the future is put forward.