

**SPECIAL LECTURE**

**JAXA'S STRATEGIC SMALL-BODY SAMPLE  
RETURN PROGRAM:  
FROM HAYABUSA/HAYABUSA 2 TO MMX**



**by Dr. Tomohiro Usui  
JAXA-ISAS**

JAPAN AEROSPACE EXPLORATION AGENCY (JAXA) HAS A STRATEGIC SMALL-BODY SAMPLE RETURN PROGRAM TO UNDERSTAND THE FORMATION, EVOLUTION, AND MIGRATION OF PLANETARY BUILDING BLOCKS, WATER, AND ORGANICS IN THE EARLY SOLAR SYSTEM. THE JAXA'S SAMPLE RETURN PROGRAM STARTED WITH HAYABUSA FOR S-TYPE ASTEROID ITOKAWA IN 2010, FOLLOWED BY HAYABUSA-2 FOR C-TYPE ASTEROID RYUGU IN 2020, AND THE FUTURE MISSION OF MARTIAN MOONS EXPLORATION (MMX) FOR PHOBOS IN 2029. MY PRESENTATION COVERS THE RECENT ACHIEVEMENT OF HAYABUSA 2 CURATION AND SAMPLE ANALYSIS. I ALSO PRESENT AN OVERVIEW OF MMX, PARTICULARLY HOW WE LEVERAGE THE HAYABUSA 2 EXPERIENCE TO DEVELOP THE MMX CURATION AND SAMPLE SCIENCE.

**DATE/TIME: WED. 25 OCT @ 16:00-17:00**

**VENUE: MISHIMA HALL, ELSI**

**OPEN TO TOKYO TECH MEMBERS**