

Schedule

Mar 6 (Fri.)

- 12:00–** Open registration desk (the 4th floor of BlancArt Misasa)
14:00–14:05 Opening remarks
14:05–17:50 Session I "Analysis of rocks delivered by geologist ... or space mission"
18:00–20:00 Icebreak party (the 4th floor of BlanArt Misasa)

Mar 7 (Sat.)

- 08:50–12:10** Session II "Pieces of asteroid and comet, and their connections"
12:10–14:00 Lunch & Poster session
14:00–18:10 Session III "Pieces of larger bodies — Mars and Moon"
18:30–20:30 Banquet

Mar 8 (Sun)

- 08:50–12:05** Session IV "Further Solar exploration with theorist, geologist, and perspectives"
12:05–13:00 Lunch
13:00–15:30 Session V "Depository for References of Extraterrestrial and Analytical Material"
15:30–15:35 Closing remarks

Presentation time table

Mar 6 (Fri.) **14:00–14:05** — Opening remarks

EIZO NAKAMURA

Mar 6 (Fri.) — **Analysis of rocks delivered by geologist ... or space mission**

14:05–14:30 Introduction to comprehensive material analyses: The sensitivity to a process by multi disciplinary analyses

EIZO NAKAMURA (ISEI, OKAYAMA UNIV.)

14:30–15:00 Hayabusa 2: Overview of JAXA's mission to asteroid

HITOSHI KUNINAKA (ISAS/JAXA)

15:00–15:30 Science objectives of Hayabusa-2, a C-type asteroid sample-return mission

SEI-ICHIRO WATANABE (NAGOYA UNIV.) & HAYABUSA2 JOINT SCIENCE TEAM

Coffee break

15:40–16:40 OSIRIS-REx: Overview of NASA's mission to another asteroid

DANTE LAURETTA (ARIZONA UNIV.)

16:40–17:20 Sampling the most primitive materials. D-type asteroids and the proposed marcopolo-2d mission

IAN FRANCHI (OPEN UNIV.), STARKEY, N.A. & THE MARCOPOLO-2D PROPOSAL TEAM

17:20–17:50 Frequency matters: ISAS's strategy for small but edgy planetary exploration

MASAKI FUJIMOTO (ISAS/JAXA), HABU, H. & OZAKI, M.

Mar 7 (Sat.) — **Pieces of asteroid and comet, and their connections**

- 08:50–09:30** Search for dangerous asteroids: Activities in Russia
BORIS SHUSTOV (INSTITUTE OF ASTRONOMY, RAS)
- 09:30–10:10** Rosetta: Similarity and differences of comet landscapes to asteroids
JEREMIE LASUE (UNIVERSITY OF TOULOUSE; UPS-OMP; CNRS; IRAP)
- 10:10–10:50** Connections and distinctions between cometary and asteroidal materials
SCOTT MESSENGER (JSC/NASA) & K. N., MESSENGER
- 10:50–11:10** Structure, properties and fracture of Chelyabinsk meteorite body with different lithology
VICTOR GROKHOVSKIY (URAL FEDERAL UNIV.) *et al.*
- 11:10–11:30** Geological record preserved in the Chelyabinsk meteorite: Shock-induced process and hydrous alteration
TATSUKI TSUJIMORI (ISEI, OKAYAMA UNIV.) *et al.*
- 11:30–11:50** Comprehensive mass-balance on the Chelyabinsk meteorite: Clues to decode the process
TSUTOMU OTA (ISEI, OKAYAMA UNIV.) *et al.*
- 11:50–12:10** Chronology of catastrophic impact on the Chelyabinsk meteorite: Recent process on the asteroid
RYOJI TANAKA (ISEI, OKAYAMA UNIV.) *et al.*

Lunch & Poster session

Mar. 7 (Sat.) — **Pieces of larger bodies — Mars and Moon**

- 14:00–14:40** NASA Mars 2020 Rover mission: Science introduction and sample return considerations
KENNETH WILLIFORD (JPL/NASA)
- 14:40–15:10** Curiosity: Geochemistry of martian atmosphere
ÉRIC LEWIN (INSTITUT DES SCIENCES DE LA TERRE, UNIVERSITÉ GRENOBLE)
- 15:10–15:40** On comparison of some properties of the nucleus of the comets 67p/Churumov-Gerasimenko and 1P/Halley
ZELENYI, L.M. & KSAFOMALITY, L.V. (SPACE RESEARCH INSTITUTE, RAS)

Coffee break

- 15:50–16:20** Untangling detailed geological and shock histories of planetary materials: New developments and opportunities
JAMES DARLING (UNIV. OF PORTSMOUTH) *et al.*
- 16:20–16:50** Enceladus' ongoing hydrothermal activity
YASUHITO SEKINE (UNIV. OF TOKYO)
- 16:50–17:20** The Japanese lunar penetrator: Technical readiness and its applications to the future planetary exploration
SATOSHI TANAKA (ISAS/ISAS) *et al.*
- 17:20–17:50** Russian missions to polar Moon: The importance of in situ preanalysis of the volatiles composition in lunar soil samples before their delivery to the Earth
MIKHAIL GERASIMOV (SPACE RESEARCH INSTITUTE, RAS)
- 17:50–18:10** Formation of primordial continents on the Moon and the Hadean earth
TATSUYUKI ARAI (TOKYO INSTITUTE OF TECHNOLOGY), T. TSUCHIYA & S. MARUYAMA

Mar. 8 (Sun.) — **Further Solar exploration with theorist, geologist, and perspectives**

08:50–09:20 The tandem formation of planetesimals in the accretion disk around a protostar:
The CAIN (Chondrite Accumulation In Nebula) model

TOSHIKAZU EBISUZAKI (RIKEN) & I. IMAEDA

09:20–10:20 A way to establish astrobiology

SHIGENORI MARUYAMA (TOKYO INSTITUTE OF TECHNOLOGY), T. EBISUZAKI & E. NAKAMURA

Coffee break

10:30–12:00 The future of planetary sample return: Multi-national opportunities, and
lessons learned from eleven years on Mars

STEVEN SQUYRES (CORNELL UNIV.)

12:00–12:05 Comments from Director-General of ISAS/JAXA

SAKU TSUNETA (ISAS/JAXA)

Lunch

Mar. 8 (Sun.) — **Depository for References of Extraterrestrial and Analytical Material**

13:00–13:25 Recovery, curation and research of antarctic meteorites at the National Institute
of Polar Research, Japan (NIPR)

AKIRA YAMAGUCHI (NIPR), N. IMAE & H. KOJIMA

13:25–13:50 Extraterrestrial sample curation center in JAXA: Hayabusa and Hayabusa2
sample curation

MASANAO ABE (ISAS/JAXA) *et al.*

13:50–14:15 Hayabusa2: Returned sample analysis in 2021

SHOGO TACHIBANA (HOKKAIDO UNIV.)

14:15–14:55 Curation and analysis of astromaterials returned by NASA's missions

KEIKO N. MESSENGER (JSC/NASA), C. EVANS & NASA/JSC ASTRO MATERIALS CURATION OFFICE

14:55–15:10 Data archiver of JAXA, extended to material analyses

YUKIO YAMAMOTO (ISAS/JAXA)

15:10–15:30 Comprehensive curation that ties your and my dream, stones and material
analyses — Concept of DREAM and status on 2015

TAK KUNIHIRO (ISEI, OKAYAMA UNIV.) *et al.*

Mar 8 (Sun) **15:30–15:35** — Closing remarks

DANTE LAURETTA