

TIME (JST: UTC+9h)

Hayabusa 2022 Symposium

version: 2022/11/15

14-16 Nov 2022, at 2F Conference Hall, ISAS/JAXA, Sagamihara, Japan + Online via Zoom Meeting

Oral Sessions

(15 min talk + 5 min discussion for invited, 12 min talk + 3 min discussion for contributed talks)

DAY-1 (Nov 14) AM

9:30 -	Registration Desk open (Coffee open)
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Chairs: T. Okada

10:20 - 10:30	S11-01	Opening and Logistics		Tatsuaki Okada, Tomohiro Usui	
10:30 - 10:50	S11-02	Update of the initial descriptions and distributions of individual Ryugu samples and preparation for curation of OSIRIS-REx returned samples		Toru Yada	On_site
10:50 - 11:10	S11-03	The Direct Asteroid Redirection Test (DART) - Preliminary Findings	Invited	Olivier Barnouin	Online
11:10 - 11:25	S11-04	Radiolytic solar wind water in rims on an Itokawa regolith grain		John P. Bradley	Online
11:25 - 11:40	S11-05	Importance of Material Properties on the Thermal Evolution Models of Parent Bodies		Jonas Hallstrom	Online
11:40 - 11:55	S11-06	Molecular descriptors for dictating the aqueous-alteration-induced organic decomposition in carbonaceous chondrites and return sample from Ryugu asteroid		Yamei Li	Online
11:55 - 12:10	S11-07	The reproduction experiment of radial pyroxene chondrules using aerodynamic levitator furnace in a reduced condition		Tomoyo Clera Morita	On_site
12:10 - 12:20	S11-08	< Discussion >			

	<< Long Lunch Break >>
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13:30 - 14:00 <<<< JAXA Sagamihara Campus Emergency Training >>>>

DAY-1 (Nov 14) PM

14:00 -	Registration Desk Re-open (Coffee open)
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Chairs: T. Usui

14:30 - 14:50	S12-01	Curation Challenges Associated with the Apollo Next Generation Sample Analysis Program	Invited	Ryan Andrew Zeigler	On_site
14:50 - 15:10	S12-02	Sample Return and Preliminary Examination Processes for the OSIRIS-REx Mission	Invited	Anjani Thim Polit	On_site
15:10 - 15:30	S12-03	Coordinated Thermal and Physical Analysis of OSIRIS-REx Samples of Asteroid Bennu	Invited	Andrew J Ryan	On_site
15:30 - 15:45	S12-04	Contamination monitoring of the OSIRIS-REx ISO5 asteroid sample cleanroom		Kevin Righter	On_site
	S12-05	<< Coffee Break >>			
16:15 - 16:30	S12-06	A study of the curation protocol by sample analysis working team (SAWT) in Martian Moons eXploration (MMX) project		Ryota Fukai	On_site
16:30 - 16:45	S12-07	Bridging the gap - linking remote sensing, in-situ and laboratory spectroscopy		Alessandro Maturilli	Online
16:45 - 17:00	S12-08	An infrared look at Ryugu returned samples in the meteorite/asteroid perspective		Rosario Brunetto	Online
17:00 - 17:15	S12-09	P-rich compounds within the Ryugu sample collection: a perspective from joint MicrOmega/Curation, the OU and Phase2 Kochi curation activities		Cedric Pilorget	Online
17:15 - 17:35	S12-10	Overviews of the Hayabusa2 mission and its integrated science	Invited	Sei-ichiro Watanabe	Online
17:35 - 17:45		< Discussion >			

17:45 - 20:00	Poster	Poster Session (2 min flash talks at the beginning of the session, only by applicants)
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DAY-2 (Nov 15)AM

9:00 -	Registration Desk open
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Charis: S. Tachibana

9:30 - 9:50	S21-01	MMX samples curation in Europe	Invited	Enrica Bonato	On_site
9:50 - 10:05	S21-02	Can SIMS measurements constrain the D/H ratio of water on Ryugu?		Larry Nittler	Online
10:05 - 10:20	S21-03	Pentlandite: A Compositional Indicator of Oxygen Fugacity for Chondrites		Devin Lee Schrader	Online
10:20 - 10:35	S21-04	1H and 13C Solid state Nuclear Magnetic Resonance (NMR) spectroscopy of an HCl extracted Ryugu C0002 particle		George D Cody	Online

<< Coffee Break >>

11:05 - 11:20	S21-05	Oxygen isotope analyses of magnetite in Ryugu		Noriko T. Kita	Online
11:20 - 11:35	S21-06	Magnetite and non-magnetite frambooids in Ryugu sample		Yuki Kimura	On_site
11:35 - 11:50	S21-07	Nitrization of magnetite on the surface of C-type asteroid Ryugu.		Toru Matsumoto	Online
11:50 - 12:05	S21-08	Neutron Capture 36Cl in Ryugu Samples		Kunihiko Nishiizumi	On_site
12:05 - 12:15		<Discussion >			

12:15 - 12:20		<< Group Photo (1)>>
		<< Lunch >>
13:00 - 13:20		<< Curation Facility Tour (1) >>

DAY-2 (Nov 15) PM

Chairs: R. Kanamaru, R. Fukai, T. Okada

13:30 - 13:45	S22-01	Lithological variation of asteroid Ryugu samples returned by the Hayabusa2 spacecraft: Assessment from the 18 particles distributed to the initial analysis "Stone" team		Takashi Mikouchi	On_site
13:45 - 14:00	S22-02	Non-destructive analysis of C-type asteroid Ryugu using negative Muon: Determination of bulk chemistry of Ryugu samples		Kentaro Terada	On_site
14:00 - 14:15	S22-03	Chondrule-like objects and CAIs in asteroid Ryugu: Earlier generations of chondrules		Daisuke Nakashima	On_site
14:15 - 14:30	S22-04	GEMS-like material from asteroid Ryugu regolith		Hope A. Ishii	Online

<< Coffee Break >>

15:00 - 15:15	S22-05	Zinc, copper and calcium isotopic composition of Ryugu's samples		Frederic Moynier	On_site
15:15 - 15:30	S22-06	Molybdenum and Osmium isotopic compositions of Ryugu sample		Nao Nakanishi	On_site
15:30 - 15:45	S22-07	Ryugu's volatiles investigated using stepped combustion and EGA methods		Alexander B Verchovsky	Online
15:45 - 16:00	S22-08	Defect microstructure of pyrrhotite in regolith material returned from C-type asteroid 162173 Ryugu – evidence for shock metamorphism		Falko Langenhorst	Online
16:00 - 16:15	S22-09	Chemical heterogeneity of insoluble organic matter in Ryugu grains		Eric Quirico	Online

<< Coffee Break >>

16:45 - 17:00	S22-10	Properties of the asteroid Bennu's surface based on contact measurements and their implications		Daniel J Scheeres	On_site
17:00 - 17:15	S22-11	Formation of Moons and Equatorial Ridge around Top-shaped Asteroids after Surface Landslide: Applications to asteroids Ryugu, Bennu, Didymos, and more		Ryuki Hyodo	On_site
17:15 - 17:30	S22-12	Yarkovsky-Driven Orbital Migration of Asteroid Ryugu: Implications for its Collisional History and Source Family		Masanori Kanamaru	On_site
17:30 - 17:50	S22-13	The ESA Hera mission: detailed investigation of the NASA DART impact outcome and characterization of the binary asteroid Didymos	Invited	Patrick Michel	Online
17:50 - 18:05	S22-14	The ANIME mission and beyond: SmallSat exploration of near-Earth asteroids		Davide Perna	On_site
18:05 - 18:15		<Discussion >			

18:20 - 18:40		<< Curation Facility Tour (2) >>
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DAY-3 (Nov 16) AM

9:00 -	Registration open
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Chairs: M. Grott, T. Yada

9:30 - 9:50	S31-01	The Physical Properties of Carbonaceous Asteroids	Invited	Daniel Britt	Online
9:50 - 10:05	S31-02	New theoretical results on asteroid regolith specific heat, cohesion and heat transfer, and a revisit of comet 67P surface strength		Jens Biele	On_site
10:05 - 10:20	S31-03	Comparison of Thermal Inertia between Ryugu Sample and Carbonaceous Chondrites		Takuya Ishizaki	On_site
10:20 - 10:35	S31-04	Thermal properties of asteroid Ryugu from global, local, and micro-scale observations and the possible formation and evolution scenario of Ryugu		Tatsuaki Okada	On_site

<< Coffee Break >>

11:05 - 11:20	S31-05	Evidence of Permafrost Processes in C-Asteroid Regoliths		Michael Zolensky	On_site
11:20 - 11:35	S31-06	Modeling of aqueous alteration in the parent body of the asteroid Ryugu		Akira Tsuchiyama	Online
11:35 - 11:55	S31-07	Chemical abundances in Ryugu, nugget effect, and cosmic composition	Invited	Nicolas Dauphas	Online
11:55 - 12:10	S11-05	Importance of Material Properties on the Thermal Evolution Models of Parent Bodies		Jonas Hallstrom	Online

12:10 - 12:15	<< Group Photo (2) >>
	<< Lunch >>
13:00 - 13:20	<< Curation Facility Tour (3) >>

DAY-3(Nov 16) PM

Charis: T. Yada, S. Sugita, J. Duprat

13:30 - 13:45	S32-01	Abundance and properties of Ryugu diffuse organic matter		Rhonda Stroud	On_site
13:45 - 14:00	S32-02	Sulfur-XANES of intact Ryugu grains and the isolated IOM		Hiroki Suga	Online
14:00 - 14:15	S32-03	Investigating the noble gas and nitrogen relationship between Ryugu and other carbonaceous chondrites		Bernard Marty	On_site
14:15 - 14:30	S32-04	Nitrogen isotopes in Ryugu return samples revealed by the stepwise combustion analysis, in comparison with CI falls and Antarctic finds		Ko Hashizume	On_site

<< Coffee Break >>

15:00 - 15:15	S32-05	Visible to near-Infrared spectrophotometry of C0002 powder samples of asteroid 162173 Ryugu in comparison with ONC-T and NIRS3 instruments onboard Hayabusa2 spacecraft		Takahiro Hiroi	On_site
15:15 - 15:30	S32-06	Reflectance spectrum of Ryugu grains and their acid-extracted residues in the UV-VIS range		Koki Yumoto	On_site
15:30 - 15:45	S32-07	Nano-infrared spectroscopy of Ryugu samples using AFM-IR measurement		Van Thi Hai Phan	On_site
15:45 - 16:00	S32-08	Multi-scale variations of the ~2.7 μ m feature in Ryugu samples, observed by MicrOmega		Tania Le Pivert-Jolivet	On_site
16:00 - 16:15	S32-09	Organics in Ryugu samples, from MicrOmega and FTIR analyses within the ISAS curation facility		Jean-Pierre Bibring	On_site

<< Coffee Break >>

16:45 - 17:00	S32-10	MicrOmega detections of carbonates in Ryugu returned samples within the Hayabusa 2 JAXA Extraterrestrial Curation Center		Damien Loizeau	Online
17:00 - 17:15	S32-11	Oxygen and carbon isotope compositions of Ryugu's carbonates: Constraints on the conditions of aqueous alteration		Wataru Fujiya	On_site
17:15 - 17:30	S32-12	Extraterrestrial Amino Acids and Amines Identified in Asteroid Ryugu Samples Returned by the Hayabusa2 Mission		Eric Thomas Parker	On_site
17:30 - 17:50	S32-13	Carbon dust, from the ISM to the Solar System	Invited	Emmanuel Dartois	On_site

17:50 - 18:00	Wrap up			Tomohiro Usui	
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18:00 -	Adjourn
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Poster Session (Online) : Day-1 (Nov 14) 17:45-20:00

- All the posters are presented online at the breakout room in Zoom. In addition, a hard copy poster can be displayed on site, if requested.
- 2 min flash talks at the beginning of the poster core time, only for applicants

Chair: T. Ishizaki

P-01	Utilizing Chemical Optical Sensor Technology to Assess Oxygen Permeability of Candidate Asteroid Regolith Sample Containers	Christopher Jorge Snead	on_site
P-02	Space Resources – From the Moon to Near-Earth Asteroids and Back	Dennis Harries	on_site
P-03	Formation processes of spherulitic magnetite in the Ryugu samples	Elena Dobrica	online
P-04	The Aguas Zarcas breccia - similarities to surface features of C-type asteroids Ryugu and Bennu	Imene Kerraouch	on_site
P-05	An Astromaterial Curation Facility at MNHN-Paris, the National Center for Extraterrestrial Material	Jean Duprat	on_site
P-06	Distinct ages and temperatures of aqueous activities recorded in Ryugu samples	Kazuhide Nagashima	online
P-07	Elastic property of Ryugu samples collected at the second touch-down site	Keisuke Onodera	on_site
P-08	Slickenside as a record of shock metamorphism on asteroid Ryugu	Masaaki Miyahara	online
P-09	Spectral variations in serpentine and saponite 2.7 μ m band due to heating under vacuum.	Sahejpal Sidhu	online
P-10	Mn/Cr relative sensitivity factors of SIMS determined for synthetic Mn-, Cr-, and Fe-bearing dolomites	Shingo Sugawara	on_site
P-11	Winchcombe CM2 meteorite fall 2021 – first results of systematic LASER Raman Spectroscopy	Viktor H Hoffmann	online
P-12	Asteroids as Localized Rocks with Mixed and Less Activity	Yasunori Miura	online
P-13	Grains to Press: Outreach ideas for sharing analysis results from the Ryugu sample	Elizabeth Tasker	on_site
P-14	TOF-SIMS analysis of macromolecular organic matter in Ryugu samples	Minako Hashiguchi	on_site
P-15	Continuing preparations for NASA curation of the OSIRIS-REx asteroid sample	Nicole Gabriel Lunning	on_site

Notices

N-01	<p>On-site Oral presentation: You will use your own PC and share the window via Zoom during your talk, or send your presentation file to LOC (#) at least 30 minutes before your presentation starts and LOC will display your presentation via Zoom.</p>
N-02	<p>Online Oral presentation: You will use your own PC and share the window via Zoom during your talk, or send your presentation file to LOC (#) at least 30 minutes before your presentation starts and LOC will display your presentation via Zoom. A pre-recorded VTR presentation is allowed especially in case you cannot present on time, which must be sent to LOC (#) at least 30 minutes before your presentation starts.</p>
N-03	<p>Poster Presentation (all): You will use your own PC and display your poster (any format is acceptable) in the breakout room of Zoom (a breakout room is prepared for each poster presentation during the Poster Session core time). A hard copy poster (AO size = W841 x H1189 [mm] or smaller) can be displayed at the PV area if you bring it with you.</p>
N-04	<p>Poster Presentation (only for applicants): In addition to the online poster presentation, you can give your 2 min flash talk at the beginning of the Poster Session core time. A short (2-3 pages) presentation file should be sent to LOC (#) at least 30 minutes before the Poster Session starts. LOC will also display the flash talk files during the lunch times and/or coffee breaks on the 2nd and 3rd days.</p>

#: <https://curation.isas.jaxa.jp/symposium/file/Fileuploader.html>

(Username and password are sent by email to all the presenters)