HAYABUSA2023 Symposium

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15-17 Nov 2023 at 2F Conference Hall, ISAS/JAXA, Sagamihara, Japan

Day1 (Nov 15, Wed) Time(JST=UTC+9h) Online * 9:00 -Registration - 10:00 Chair: T. Okada 10:00 - 10:15 S11-01 Opening: Logistics Tatsuaki Okada Foru Yada 10:15 - 10:30 S11-02 Overview of S-type asteroid Itokawa, based on the studies on samples returned by Hayabusa [Invited] Tomohiro Usui 10:30 - 10:45 S11-03 Summary of Havabusa2 and Status of JAXA curation [Invited] Future perspective of sampling and curation for extraterrestrial materials in JAXA's small body Ryota Fukai 10:45 - 11:00 S11-04 exploratio [Invited] Shogo Tachibana 11:00 - 11:15 S11-05 Updates on OSIRIS-REx: Return journey to Earth and the sample from Bennu [Invited] Chair: T. Usui 11:15 - 11:30 S12-0 Developing European Curation for MMX Samples Aurore Hutzler 11:30 - 11:45 S12-02 The DLR Sample Analysis Laboratory - the final countdown lörn Helbert Curation of Extraterrestrial samples in France and the future center for extraterrestrial materials in 11:45 - 12:00 S12-0 Jean Duprat 12:00 - 12:15 S12-04 Mars Sample Return: curation activities and planning. Aurore Hutzler Andrea Harrington 12:15 - 12:30 S12-05 Mars Sample Return: Considerations for the Curation of Astromaterials from a Restricted Planet [Invited] 12:30 Lunch Break - 14:15 Chair: J. Duprat Fostering future missions and curation: fine-particle simulant characterization for a lunar highland 14:15 - 14:30 \$13-01 Aliz Zemeny testbed (ESA, European Astronaut Centre - EAC) Jeremie Mathurin 14:30 - 14:45 S13-0 Nanoscale infrared characterization (AFM-IR) of Ryugu samples returned by the Hayabusa 2 space mission [Invited] Guillaume Avice 14:45 - 15:00 S13-03 Sampling and curation of volatile elements in the new era of sample return missions [Invited] 15:00 - 15:15 S13-04 Machine Learning Data Analyses for Asteroid and Micrometeorite Samples Lewis James Pinault 15:15 - 15:30 Characterization of Mg-Fe carbonates in the Ryugu returned samples with MicrOmega S13-05 Damien Loizeau Heterogeneity of Ryugu samples due to space weathering effects: near-infrared spectroscopy and fitting 15:30 - 15:45 S13-06 Soichiro Furukawa analysis 15:45 -Coffee Break - 16:15 Chair: S. Tachibana 16:15 - 16:30 S14-01 NH-rich grains detected by MicrOmega in the Ryugu returned samples Te Jiang 16:30 - 16:45 Nanoscale spectroscopic and microscopic investigation of Ryugu samples Mehmet Yesiltas S14-02 16:45 - 17:00 S14-03 Spectroscopic Evidence of Parent Body Aqueous Alteration on Ryugu Sample A0112 Alessandro Maturilli 17:00 - 17:19 Julie Gamblin S14-04 Nitrogen, neon, and argon analysis of a single Ryugu grain by step-heating Chemical composition and variability of Ryugu samples, CI chondrites and Kainsaz (CO3) assessed by 17:15 - 17:30 S14-05 Frank Wombacher uadrupole ICP-MS analyses Ashley King 17:30 - 17:45 S14-06 The mineralogy of asteroid Ryugu and its relationship to highly altered extraterrestrial materials [Invited] 17:45 - 18:00 Adjourn

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Time(JST=UTC+9h)	Day2 (Nov 16, Thu)		
			Online	*
9:00 - - 9:30		Registration		
		Chair: T. Yada		
9:30 - 9:45	S21-01	Phosphorus, Calcium, and Sulfur in Two Ryugu Samples	George Flynn	*
9:45 - 10:00	S21-02	Paleomagnetic Evidence for Formation of Ryugu in the Distal Solar System	Elias Mansbach	*
10:00 - 10:15	S21-0 3	Experimental Constraints on the Concentration of Dirac Magnetic Monopoles in Primordial Material returned from Asteroid Ryugu by JAXA's Hayabusa2 Mission	Joseph Kirschvink	
10:15 - 10:30	S21-04	Electron holography observation of presudo-magnetites and metallic iron nanoparticles in space weathered Ryugu sample	Yuki Kimura	
10:30 - 10:45	S21-05	Characterization Of Early Solar System Aqueous Fluids In Ryugu Samples	Michael Zolensky	
10:45 - - 11:15		Coffee Break		
		Chair: M. Zolensky		
11:15 - 11:30	S22-01	Three-dimensional description and characterization of lithologies in Ryugu sample	Léna Jossé	
11:30 - 11:45	S22-02	Size distribution and elemental compositions of anhydrous minerals in the Ryugu samples C0224 and C0260: Implications for radial transport mechanism and source regions of anhydrous minerals	Daisuke Nakashima	
11:45 - 12:00	S22-03	Microstructural and microchemical characteristics of dolomite in Ryugu regolith particles	Falko Langenhorst	
12:00 - 12:15	S22-04	Investigating the ammonium-bearing phase in Ryugu samples	Marco Ferrari	
12:15 - 12:30	S22-05	Speciation of various elements using scanning transmission/fluorescnece X-ray microscopy (STXM/SFXM) and bulk XANES analysis related to aqueous environment in the Ryugu parent body	Yoshio Takahashi [Invited]	
12:30 -		<< Group Photo >>		
		Lunch Break		
13:45				
13:45 - 14:15		JAXA Curation Lab Tour(1)		
14:15 -				
		Poster Session		
- 15:45 15:45 -		Coffee Break		
- 16:15		Chair: Y. Kebukawa		
16:15 - 16:30	\$22-01	Investigating the organic compounds in the asteroid Ryugu	Imene Kerraouch	Г
16:15 - 16:30		Investigating the organic compounds in the asteroid kyugu Constraining Ryugu's earliest fluid composition by the analyses of phosphates	Nicolas Greber	*
16:45 - 17:00			Queenie Hoi Shan	*
10:45 - 17:00	325-03	Interpreting the thermal alteration history from organic matter in Ryugu samples	Chan	Ļ
17:00 - 17:15	S23-04	First direct detection of large aromatic molecules on asteroid (162173) Ryugu sample C0083 and A00145: an interstellar heritage	Hassan Sabbah	*
17:15 - 17:30	S23-05	FIB Tomography-STXM-TEM on organic material from Hayabusa-2 grain A0083	Hitesh Changela	*
17:30 - 17:45	S23-06	New view on the paleomagnetic record of samples from asteroid Ryugu	Clara Maurel	*
17:45 - 18:00		Adjourn		

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Time(JST=UTC+9h)	Day3 (Nov 17, Fri)				
			Online *			
9:00 - - 9:30		Registration				
		Chair: F. Moynier				
9:30 - 9:45	S31-01	Cosmogenic Radionuclide Records of Hayabusa Aggregate and Particle Samples	Kunihiko Nishiizumi			
9:45 - 10:00	\$31-02	Noble Gases of the 1st and 2nd AO Ryugu Samples Collected by the Hayabusa2 Spacecraft	Keisuke Nagao			
10:00 - 10:15	\$31-03	Insights into Early Solar System Isotopic Reservoirs Inferred from Ryugu	Quinn Shollenberger			
10:15 - 10:30	S 31-04	Nickel isotopic composition of Ryugu and the link between CI and other carbonaceous chondrites	Thorsten Kleine			
10:30 - 10:45	\$31-05	The magnesium isotope composition of samples returned from asteroid Ryugu	Martin Bizzarro [Invited]			
10:45 - - 11:15		Coffee Break				
		Chair: R. Fukai				
11:15 - 11:30	S32-01	Oxygen isotope systematics of crystalline silicates in comet Wild 2: Comparison to anhydrous minerals in Ryugu and CI chondrites	Noriko Kita			
11:30 - 11:45	\$32-02	Oxygen isotopic composition of dolomite in Ryugu: New insights into the thermal history of the Ryugu parent body	Wataru Fujiya			
11:45 - 12:00	\$32-03	Numerical Simulation of Ryugu's Thermophysical Properties using the Discrete Element Method	Bhuvan Agrawal			
12:00 - 12:15	\$32-04	Defect and exsolution microstructures in four pyroxene-rich grains from Itokawa	Falko Langenhorst			
12:15 - 12:30	\$32-05	Asteroid Itokawa but when did form exactly?	Fred Jourdan			
12:30 -						
13:45		Lunch Break				
13:45 - 14:15		JAXA Curation Lab Tour(2)				
		Chair: M. Abe				
14:15 - 14:30	\$33-01	Characterization of a mass movement site in Bennu's Bralgah Crater and implications for other asteroids	Yuhui Tang			
14:30 - 14:45	\$33-02	Photometry of Ryugu and SCI crater as inferred by ONC images	Andrea Longobardo *			
14:45 - 15:00	\$ 33-03	The shape distributions of sub-mm-sized impact experiment fragments from Allende meteorite	Tatsuhiro Michikami			
15:00 - 15:15	\$33-04	Spectral characterization of (98943) 2001 CC21, fly-by target of Hayabusa2#	Davide Perna			
15:15 - 15:30	\$33-05	Asteroid (142) Polana at 3 μm and its Connection to Primitive Near-Earth Asteroids	Driss Takir			
15:30 - 15:45	\$ 33-06	Unveiling dark objects in Solar System: grain size effects on the infrared spectrum of mineral mixtures in presence of opaque components	Giovanni Poggiali			
15:45 - - 16:15		Coffee Break				
		Chair: T. Okada				
16:15 - 16:30	S34-01	Investigating the effects of space weathering in Ryugu samples using coordinated microanalyses	Lisette Elena * Melendez			
16:30 - 16:45	S34-02	Impact-induced melting and fragmentation of C-type asteroid regolith inferred from impact craters on a large Ryugu sample	Christopher Hamann *			
16:45 - 17:00	\$34-03		Nicol Latsia			
17:00 - 17:15	S34-04	CALICO - an ESA M7 proposal to Explore Dwarf Planet Ceres	Axel Hagermann			
17:15 - 17:30	S34-05	Next Generation small body Sample Return mission: a concept study for a future Japanese mission to a comet	Hiroyuki Kurokawa [Invited]			
17:30 - 17:45	\$34-06	Intermediate bodies of Asteroids and the Moon from an Earth 3GMS model	Yasunori Miura *			
17:45 - 18:00	S34-07	Wrap-up	Tomohiro Usui			
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	Poster Session Online *					
#	Title	Presentor				
P-01	Chrome-spinel in Hayabusa particles: Recorders of Asteroid Itokawa's thermal history	Jemma Davidson				
P-02	Coordinated Analyses of Hayabusa particles RB-CV-0234, RB-QD04-0039, and RA-QD02-0310: Constraints on asteroid Itokawa formation from sulfides and silicates	Devin Lee Schrader				
P-03	Are there 100s of ppm water in nominally anhydrous minerals of non-carbonaceous asteroids?	Dennis Harries				
P-04	Development of Nondestructive X-ray CT Imaging Techniques to Identify and Locate Presolar Grains in Meteorite Sample Jbilet with Application to Ryugu Samples	Danielle Ziva Shulaker				
P-05	X-ray nano-CT and TEM-EDS Analyses of Impact Melt Splashes on Ryugu Samples	Megumi Matsumoto				
P-06	Comparison of Thermal Diffusivity between Ryugu grains and Carbonaceous Chondrites	Takuya Ishizaki				
P-07	Spatial relationship between macromolecular organic matter and organic-bearing phyllosilicates in Ryugu grain	Toru Matsumoto	T			
P-08	Analysis of a thermal correction method for the MIRS infrared spectrometer: preparation for the future observations of the Martian moons Phobos and Deimos	Gael David				
P-09	A Comparative Carbon-XANES and -EELS study of Organic Material from Asteroid 162173 Ryugu and Ivuna	Hitesh Changela				
P-10	Non Destructive Analyses of (Extra-) Terrestrial Materials by Combining Digital Optical Microscopy with LIBS (Element Analyses) and Micro Raman Spectroscopy - A New Approach	Viktor Hoffmann	-			
P-11	Study on Similar Continued Organic Life Systems on the Rocks of Water Planet Earth	Yasunori Miura				