4th March (Monday)

Opening Remarks

9:30-9:40	Opening remarks	**Yasuhito Sekine**

Formation of aquaplanets

9:40-10:10	Water on Venus, Earth, Mars, and asteroids predicted by pebble accretion model	**Shigeru Ida**
10:10-10:40	The cool and distant formation of Mars	**Ramon Brasser**
	(break)	
10:55-11:25	Formation of the Galilean satellites: Slow-pebble-accretion scenario	**Yuhito Shibaike**
11:25-11:55	On the origin of ring-satellite systems around giant planets	**Ryuki Hyodo**

Lunch & posters

11:55-13:30

Surface and aqueous environments of aquaplanets

13:30-14:00	Martian Waters During the First Billion Years: Clues from Salts	**Bethany L. Ehlmann**
14:00-14:30	A study on Martian water environment based on the μ-XRF-XAFS analysis for the secondary minerals formed in a nakhlite meteorite (Y 000593)	**Hiroki Suga**
	(break)	
14:45-15:15	Search for evidences of the extraterrestrial water in direct samples from the S-type asteroid “Ryugu”.	**Motoo Ito**
15:15-15:45	Iron-bearing smectites as potential redox indicators for early Mars	**Jeffrey G. Catalano**
	(break)	
16:00-16:30	Surface structure of clay minerals and its affinity for water	**Hiroshi Sakuma**
16:30-17:00	Dynamic climate and redox interactions on early Mars inferred from water chemistry at Gale	**Keisuke Fukushi**

Short talks for posters

17:15-17:45

Banquet and posters

18:30-20:30

5th March (Tuesday)

Interiors of aquaplanets		
9:30-10:00	The differentiation and evolution of terrestrial planets using short-lived isotope systems	**Vinciane Debaille**
10:00-10:30	A new apparatus for high-pressure deformation experiments and deformation microstructures of lower mantle materials	**Shintaro Azuma**
	(break)	
10:45-11:05	Geochemically heterogeneous Martian mantle inferred from Pb isotope systematics of depleted shergottites	**Ryota Moriwaki**
11:05-11:35	Thermal evolution of ocean worlds	**Shunichi Kamata**

Lunch & posters
11:35-13:30

Atmospheres and climates of aquaplanets		
13:30-14:00	Hydrogen loss from aquaplanets and icy moons: Implications for habitability and biosignatures	**Robin Wordsworth**
14:00-14:30	Retaining a habitable atmosphere: Lessons from Mars	**David Brain**
	(break)	
14:45-15:15	Escape and evolution of the Martian atosphere : Influence of water and carbon escapes	**Naoki Terada**
15:15-15:35	Atmospheric Chemistry Simulations for TGO-NOMAD with the GEM-Mars GCM	**Lori Neary**
15:35-15:55	Water environment on the present and past Mars: GCM simulations	**Takeshi Kuroda**
	(break)	
16:10-16:30	Atmospheric Dynamics on Eccentric-Tilted Exoplanets and Implications for Thermal Light Curves	**Kazumasa Ohno**
16:30-17:00	A more dynamic habitable zone	**Ramses Ramirez**
17:00-17:30	The co-evolution of Earth's atmosphere and biosphere	**Kazumi Ozaki**

6th March (Wednesday)

Biospheres and chemospheres of aquaplanets

9:00-9:30	Water-rock reactions on extraterrestrial bodies	**Mikhail Zolotov**
9:30-10:00	Gamma-ray induced amino acid syntheses in the Solar System aqueous environments	**Yoko Kebukawa**
	(break)	
10:15-10:35	Interactions between organic matter and minerals in meteorites' parent bodies	**Naoki Hirakawa**
10:35-10:55	Mineral surfaces and their catalytic effects on amino acid formation during hydrothermal alteration in environments simulating meteorite parent asteroids	**Walaa Elmasry**
10:55-11:25	Hypervelocity impact experiments to simulate chondrite fragmentation in the ocean and implication for the fate of meteoritic organics	**Manabu Nishizawa**
	(break)	
11:40-12:10	Geoelectrochemistry: The drive to life on Earth-type planets	**Norio Kitadai**
12:10-12:40	Biogeochemical sulfur isotope fractionation through time: the role of APS reductase	**Shawn McGlynn**

Closing Remarks

12:40-12:50	Closing remarks	**Tomohiro Usui**

Posters

Behaviour of Tellurium against the Fe-Mn oxides in the ocean	**Yusuke Fukami**
Effects of a binary companion star on habitability of S-type tidal-locked planets	**Ayaka Okuya**
An experimental study of chondrite-water interaction under anoxic condition: Implication for the early stages of aqueous alteration in parent bodies	**Sakiko Kikuchi**
Electrical energy generation at hydrothermal environments in the Solar System; fuel cells potentially power a life	**Hiroyuki Kashima**
Warming on Early Mars with hydrogen peroxide	**Yuichi Ito**
Development for a radiative transfer model applicable to early Mars atmosphere	**Yoshiyuki Takahashi**
Effects of Impact-induced Atmospheric Erosion and Element Partitioning on Earth's volatile composition	**Haruka Sakuraba**
Solubility of monohydrocalcite under low temperature and low partial pressure of CO2	**Takuma Kitajima**
Swelling behavior of Mg saturated smectite	**Koki Morida**
The molecular structure and distribution of organic matter depending on the lithology in the Tagish Lake meteorite	**Kento Kiryu**
Effect of planetesimal collisions for internal of asteroids	**Shigeru Wakita**
Can icy pebble accretion form habitable planets?	**Hiroyuki Kurokawa**
Isotopic fractionation of methane in ice crust of icy satellite and icy planet: Planning of hydrate formation experiment at ice crust environment	**Kushi Kudo**
Spectral and mineralogical characteristics of naturally-heated hydrous chondrites	**Moe Matsuoka**
Subsurface reflectors and its assigned visible exposures in Coprates Chasma, Mars	**Rina Noguchi**
High-resolved thermographic observation of craters and boulders on Ryugu	**Naoya Sakatani**
Global thermal inertia and surface roughness of asteroid Ryugu by TIR on Hayabusa2	**Yuri Shimaki**
Influence of water and clay minerals on slope angles in Coprates Chasma, Mars	**Yuhki Matsuoka**
Sulfate reduction under hydrothermal conditions in Europa's ocean	**Shuya Tan**
Dark streak features in Mongolia: Implications for formation mechanisms of Recurring Slope Lineae on Mars	**Maya Nakamura**