

Special Sessions	Outline	Presentation Style
S1: Water-rock interaction Conveners Noriyoshi Tsuchiya: tsuchiya@mail.kankyo.tohoku.ac.jp Yasuko Okuyama: okuyama-gsj@aist.go.jp Koichiro Fujimoto: koichiro@u-gakugei.ac.jp	The Earth's crust is composed from solid materials and fluids, and Water - Rock Interaction is one of essential processes for understanding Evolution of the Earth. This special session on "Water-Rock Interaction" includes wide range of topics which are from basic science to engineered technologies for underground utilization and development.	Oral Poster (Joint session with MMJ*)
S2: Early differentiation and internal evolution of the Moon Conveners Shogo Tachibana tachi@eps.s.u-tokyo.ac.jp Takehiko Hiraga hiraga@eri.u-tokyo.ac.jp Tetsuo Kawakami t-kawakami@kueps.kyoto-u.ac.jp	There are still unsolved issues with the early differentiation and internal evolution of the Moon. The session will address the latest results obtained by the Japanese lunar explorer, Kaguya, and the latest models of the origin and evolution of the Moon. The session is open for researches on differentiation and evolution of the Moon based on petrology, mineralogy, and planetary science, and also encourages mutual interactions between different research disciplines.	Oral Poster (Joint session with JSPS**)
Regular Sessions	Outline	Presentation Style
R1: Magma process and subduction factory Conveners Yoshihiko Tamura: ytamura@ucsc.edu Tsukasa Ohba: t-ohba@gipc.akita-u.ac.jp Masao Ban: ban@sci.kj.yamagata-u.ac.jp Jun-ichi Kimura: jkimura@jamstec.go.jp	We invite papers studying dynamic magma processes and/or subduction factory by using mineralogical, petrological, geochemical or geophysical methods. Multi-disciplinary approaches to these topics are also welcomed.	Oral Poster
R2: Plutonic and metamorphic rocks Conveners Tomoharu Miyamoto: miyamoto@geo.kyushu-u.ac.jp Atsushi Kamei: kamei-a@riko.shimane-u.ac.jp	We invite papers analysis of plutonic and metamorphic rocks by using geology, petrography, geochemistry (isotopic study), experimental petrology and numerical simulation.	Oral Poster
R3: Petrology, mineralogy and economic geology Conveners Toshiaki Tsunogae: tsunogae@geol.tsukuba.ac.jp Ken-ichiro Hayashi : khayashi@geol.tsukuba.ac.jp	We invite papers regarding petrology, mineralogy and economic geology.	Oral Poster Joint session with SRG***
R4: Mineral descriptions and analytical methods of earth and planetary materials Conveners Masanori Kurosawa: kurosawa@geol.tsukuba.ac.jp Ritsuro Miyawaki: miyawaki@kahaku.go.jp	This session focuses on mineral descriptions and analytical methods of earth and planetary materials. Descriptions of occurrence, morphology, internal texture, crystal structure, chemistry, fluid inclusion, solid inclusion, crystal imperfections in minerals, and studies on development of analytical methods for mineral sciences are welcomed.	Oral Poster
R5: Crystal structure Conveners Kazumasa Sugiyama: kazumasa@imr.tohoku.ac.jp Akira Yoshiasa: yoshiasa@sci.kumamoto-u.ac.jp	The structural analysis of natural and synthetic minerals is main topics for this session. New challenging analytical approach for the structural inhomogeneity and the nano-scaled structure realized in minerals should be welcomed.	Oral Poster
R6: Mineral synthesis, crystal growth and dissolution, and properties of minerals Conveners Toshiro Nagase: nagase@mail.tains.tohoku.ac.jp Masaya Suzuki: masaya-suzuki@aist.go.jp	This session focuses on the synthesis of minerals, the nucleation and growth of crystals, the phase transition, the dissolution of minerals, and the properties of minerals. The properties of minerals include the mechanical, electric, magnetic, optical, and thermodynamic properties, and also the adsorption and reaction of mineral surfaces. We would like to encourage authors to submit papers on the application of minerals.	Oral Poster
R7: Mineralogical sciences of the Earth surface Conveners Motoharu Kawano: kawano@sci.kagoshima-u.ac.jp Toshihiro Kogure: kogure@eps.s.u-tokyo.ac.jp Tsutomu Sato: tomsato@eng.hokudai.ac.jp	This session aims to present the latest advances in the mineralogical sciences of the Earth surface, covering crystal structure, chemical composition, surface property, dissolution, precipitation, biomineralization, mineral-water-atmosphere-microbe interactions, inorganic -organic interactions, and others.	Oral Poster
R8: Mineral sciences in the Earth's interior Conveners Takaya Nagai: nagai@mail.sci.hokudai.ac.jp Toru Inoue: inoue@sci.ehime-u.ac.jp	It is significantly important to understand the wide range of mineral sciences in the Earth's interior, because dynamics in the Earth's interior must be closely related to not only the evolution of the Earth but also the environment near the Earth' surface. The aim of this session will be to discuss the full range of physical and chemical properties of minerals on the basis of experimental and computational approaches. Targeted materials are not only minerals but also their analogous, amorphous materials and melt.	Oral Poster
R9: Mineralogical sciences of extraterrestrial materials Conveners Hisayoshi Yurimoto: yuri@mail.sci.hokudai.ac.jp Hiroshi Kaiden: kaiden@nipr.ac.jp	Oral and poster contributions on any aspects of mineralogical sciences of extraterrestrial materials such as presolar grains, cosmic dust, meteorites, and lunar samples are invited.	Oral Poster

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R10: Eruption and eruptive history of volcanoes Conveners Tsukasa Ohba: t-ohba@gipc.akita-u.ac.jp Yoshihiko Tamura: tamuray@jamstec.go.jp Masao Ban: ban@sci.kj.yamagata-u.ac.jp	This session will include papers on modes of eruption, eruptive history, dispersal and emplacement of the volcanic products as well as eruption forecasting. The discussion will span geological, petrological, geochemical, geophysical processes related with volcanic activity and products in the geological past and the present.	Oral Poster

* **MMIJ, The Mining and Materials Processing Institute of Japan**

****JSPS, The Japanese Society for Planetary Sciences**

*** **SRG, The Society of Resource Geology**