

2010 Session Outline

Special Sessions	Outline	Presentation Style
S1: Subduction factory Conveners Yoshihiko Tamura: tamuray@jamstec.go.jp Tsukasa Ohba: t-ohba@gipc.akita-u.ac.jp Masao Ban: ban@sci.kj.yamagata-u.ac.jp	We invite papers studying dynamic magma processes, volcano and volcanic rocks, and/or subduction factory by using mineralogical, petrological, geochemical or geophysical methods. It also includes magma interaction with the mantle-crustal materials, magma transport and storage in the crust to upper mantle. Multi-disciplinary approaches to these topics are also welcomed.	Oral Poster
S2: Mineral-water interface and Nanoparticles in surface environment Conveners Keisuke Fukushi: fukushi@kenroku.kanazawa-u.ac.jp Satoshi Utsunomiya utu@chem.rc.kyushu-u.ac.jp	Adsorption and diffusion on mineral surfaces and formation of nanoparticles affect the behavior of elements in surface conditions. It is essential to understand these processes for modeling the macroscopic behavior of element distribution in surface environment. This session will highlight recent research focused on fundamental processes that determine the mobility and distribution of elements in surface environment. We encourage the presentation of new results from laboratory experiments and field observations with advanced characterization techniques (ICP, XAFS, XPS, SAXS, TEM, SEM, etc.) and theoretical studies.	Oral Poster
S3: 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
S4: Hayabusa - Sample return from the asteroid Itokawa Conveners Shogo Tachibana: tachi@eps.s.u-tokyo.ac.jp Shoichi Itoh: sitoh@ep.sci.hokudai.ac.jp	The Hayabusa spacecraft is now on the way back to the Earth, and is expected to bring the sample back from the asteroid Itokawa in June 2010. The session will address the latest results obtained in preliminary examination. The session is open for researches on material evolution in the early solar system based on mineralogy, planetary science, and geochemistry and also encourages mutual interactions between different research disciplines.	Oral (Joint session with GSJ*)
Regular Sessions	Outline	Presentation Style
R1: Crustal materials Conveners Ritsuro Miyawaki: miyawaki@kahaku.go.jp Masahide Akasaka: akasaka@riko.shimane-u.ac.jp Tsutomu Sato: tomsato@eng.hokudai.ac.jp Masanori Kurosawa: kurosawa@geol.tsukuba.ac.jp	This session focuses on sciences of minerals in the Earth's crust and the upper mantle. Descriptions of occurrence, morphology, internal texture, crystal structure, nano-scale structure, crystal imperfections of minerals, crystal chemistry, fluid and solid inclusions, and studies on development of analytical methods for mineral sciences are welcomed.	Oral Poster
R2: Mineral synthesis, crystal growth, physical properties of minerals, and deep-earth minerals Convener Toshiro Nagase: nagase@mail.tains.tohoku.ac.jp Toru Inoue: inoue@sci.ehime-u.ac.jp Hiroyuki Kagi: kagi@eqchem.s.u-tokyo.ac.jp Takaya Nagai: nagai@mail.sci.hokudai.ac.jp	This session focuses on the synthesis of minerals, the nucleation and growth of crystals, the phase transition, the dissolution of minerals, the physical and chemical properties of minerals, and the wide range of mineral sciences in the Earth's interior. The properties of minerals include the mechanical, electric, magnetic, optical, and thermodynamic properties, and also the adsorption and reaction of mineral surfaces. The mineral sciences in the Earth's interior include experimental and computational approaches. Targeted materials are not only minerals but also their analogous, amorphous materials and melt.	Oral Poster
R3: Extraterrestrial materials Convener 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
R4: Metamorphic rocks and magma process Convener Tomoharu Miyamoto: miyamoto@geo.kyushu-u.ac.jp Atsushi Kamei: kamei-a@riko.shimane-u.ac.jp	We invite papers analysis of dynamic magma processes and metamorphic rocks by using geology, petrography, geochemistry (isotopic study), experimental petrology and numerical simulation. Multi-disciplinary approaches to these topics are also welcomed.	Oral Poster
R5: Petrology, mineralogy and economic geology Convener Toshiaki Tsunogae: tsunogae@geol.tsukuba.ac.jp Ichiro Matsumoto: chromim@edu.shimane-u.ac.jp	We invite papers regarding petrology, mineralogy and economic geology.	Oral Poster Joint session with SRG**

* GSJ, The Geochemical Society of Japan

** SRG, The Society of Resource Geology