Oral | Symbol S (Solid Earth Sciences) | S-CG Complex & General

[S-CG61_2AM2]Petrology, Mineralogy and Resource Geology

Convener:*Toshiaki Tsunogae(Faculty of Life and Environmental Sciences (Earth Evolution Sciences), University of Tsukuba), Koichiro Fujinaga(Department of Systems Innovation, School of Engineering, University of Tokyo), Akira Miyake(Department of Geology and Mineralogy, Graduate School of Science, Kyoto University), Nobutaka Tsuchiya(Department of Geology, Faculty of Education, Iwate University), Chair:Koichiro Fujinaga(Department of Systems Innovation, School of Engineering, University of Tokyo), Akira Miyake(Department of Geology and Mineralogy, Graduate School of Science, Kyoto University)
Fri. May 2, 2014 11:00 AM - 12:45 PM 311 (3F)
We widely invite presentations in the fields of petrology, mineralogy and resource geology. Especially description of minerals and rocks, investigation of their origin and evolution by field investigation and/or laboratory experiments, and development of new methods are accepted.

12:15 PM - 12:30 PM

[SCG61-P01_PG]A leucogranite stock rich in high field strength elements, Kanamaru-Oguni area on the Niigata-Yamagata border, NE Japan

3-min talk in an oral session

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Keywords:Granite, HFS elements, Niigata-Yamagata, NE Japan

A small stock of leucocratic Grt-two mica granite enriched in high field strength elements (HFSEs) has recently been found in the Kanamaru?Oguni district of the Asahi?Iide mountains in the Ashio Belt of the NE Japan arc. The granite has a high-K peraluminous composition, and is categorized as an A-type within-plate granitoid, according to several geochemical discriminants based on HFSEs. However, total Zr+Nb+Ce+Y contents are lower (166-192 ppm) and Rb/Ba ratios are higher (19-48) than those typical of A-type granitoids (Zr+Nb+Ce+Y > 350, Rb/Ba