
[JJ] Evening Poster | S (Solid Earth Sciences) | S-EM Earth's Electromagnetism

[S-EM17]Geomagnetism, Paleomagnetism and Rock Magnetism

convener:Nobutatsu Mochizuki(Priority Organization for Innovation and Excellence, Kumamoto University),
Hisayoshi Shimizu(Earthquake Research Institute, University of Tokyo)

Mon. May 21, 2018 5:15 PM - 6:30 PM Poster Hall (International Exhibition Hall7, Makuhari Messe)

We are going to discuss the issues on the magnetic fields of the Earth and planets, paleomagnetism, rock-magnetism, and their applications. This session includes the following topics: (1) observation and analysis of the magnetic fields of the Earth and planets, (2) paleomagnetic field variations obtained from natural and archaeological materials, (3) numerical simulations on the magnetic fields of the Earth and planets, (4) measurements and theories of magnetic properties of rocks, minerals, meteorites and other materials, (5) climate changes and global and local surface tectonics based on the paleomagnetic measurements of rocks and sediments, (6) observations of the magnetic anomalies and the crustal magnetization models of the Earth, planets and satellites, and (7) developments of the experimental method and data analysis. The presentation and discussion will be made in Japanese or English in this session.

[SEM17-P03]On-land geo-electromagnetic research at a subaerial sea-floor spreading center of the divergent plate boundary in Afar depression, Ethiopia

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Keywords:sea-floor spreading center, Afar Depression, geomagnetic anomaly

In order to clarify the formation process of magnetic stripes and structure under a sea-floor spreading center at the divergent plate boundary, we are performing an on-land geo-electromagnetic research project in Afar Depression, Ethiopia, where we can investigate into a subaerial sea-floor spreading center directly. We will introduce the outline of our project and report preliminary results in 2016-2017 field surveys and data analyses.