

The Second International Symposium on Crustal Dynamics (ISCD-2)
—Toward integrated view of island arc seismogenesis—

March 1st (Fri.) – 3rd (Sun.), 2019

Venue: Kihada Hall, Uji Campus, Kyoto University

Scope

Recent deployment of dense seismic and geodetic observation networks has revealed a detailed pattern of crustal stress and strain rate in tectonically active regions all over the world. Furthermore, the M_w 9.0 2011 Tohoku-oki earthquake provided a unique opportunity to investigate how the Japanese Islands' crust responds to instantaneous as well as transient stress changes due to the giant fault motion. With these precious observations, now is a time to proceed toward integrated understanding of dynamic processes in the Earth's crust, such as great earthquakes and various related phenomena in a variety of spatial and temporal scales. In those approaches, mechanical properties of the crustal and mantle rocks, and frictional properties of intra-plate as well as plate boundary faults, are important. Such goal can be achieved only through a close multidisciplinary collaboration and integrated modeling of various observational as well as experimental knowledge. This symposium aims to bring state-of-the-art research results together to promote multidisciplinary collaborative investigation in the above-mentioned direction for better understanding of crustal dynamics or earthquake generation process in the island arc system. We welcome contributions from international as well as domestic scientists interested in the topic.

This symposium is sponsored by the KAKENHI project “Crustal Dynamics: Unified understanding of intra-island deformation after the great Tohoku-oki earthquake” (No. 2608, FY2014-2018) funded by the Ministry of Education, Culture, Sports, Science and Technology.

Scientific Program

1. Stress state and seismogenesis in the island arc
2. Multiscale deformation of island arc crust
3. Fault zone structure and its evolution
4. Rheological and frictional properties of rocks
5. Geofluids and seismogenesis
6. Integrated modeling of crustal deformation and seismogenesis

Invited Speakers

To be announced

Important Dates

Deadline for abstract submission: December 31, 2018

Deadline for registration: January 31, 2019

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