

**China-Japan Joint Workshop on Inland Earthquakes
Toward understanding on occurrence mechanism of inland
earthquakes**

**Sponsored by
Earthquake Research Institute, University of Tokyo, Japan and
Earthquake Science Institute, China Earthquake Administration,
China**

**Venue : Meeting Room No.1 (Building No.2, 5th floor),
Earthquake Research Institute, University of Tokyo, Japan**

Date: Nov. 24 - Nov. 25, 2010



Oral Presentation Program

Nov. 24, 2010

13:30-13:40

Greetings

Naoshi Hirata / Director of ERI, Univ. of Tokyo

Plenary Talks

Chair: Takashi Iidaka

13:40-13:55

Institute of Earthquake Science and Earthquake Prediction in China

Yi Tang/ Deputy-director of IES – CEA

13:55-14:10

National Project of Prediction Research on Earthquakes and Volcanic Eruptions in
Japan and the scope of this workshop

Yuichi Morita/ ERI, Univ. of Tokyo

Session 1) Recent large earthquakes in both countries and its geological interpretations

Chair: Takashi Iidaka

14:10-14:30

Yushu M7.1 EQ of 14 April 2010 in Tibet plateau of China

Jinwei Ren / Director of IES – CEA

14:30-14:50

Recent damaging earthquakes produced by fault reactivation of Miocene back-arc rift-systems, Honshu, Japan: insights from deep seismic reflection profiling

Hiroshi Sato / ERI, Univ. of Tokyo

14:50-15:10 **Coffee Break**

Session 2) Tectonics and stress field around seismogenic zones

Chair: Masatoshi Miyazawa

15:10-15:30

Tectonic dynamics of Bayan Har block and the correlation of two major earthquake sequences on the East and North boundary fault zones of the block

Xueze Wen / IES – CEA

15:30-15:50

Crustal Strain and Inland Earthquakes: Implications from Dense GPS Observations

Takeshi Sagiya / Nagoya Univ.

15:50-16:10

Shear-wave splitting in the crust and its relationship to stress, fault and earthquakes

Yuan Gao / IES-CEA

16:10-16:30

The upper mantle structure beneath the Japanese Islands inferred from travel-time tomography

Junichi Nakajima / Tohoku Univ.

16:30-16:50

Reactivation of ancient rift systems by ductile loading of crust triggers devastating intraplate earthquakes in Chuetsu region: On the basis of fine-scale seismic structures

Aitaro Kato / ERI, Univ. of Tokyo

16:50-17:10

Crust-lithosphere structure across East Kunlun fault from active source seismic profiling

Zhongjie Zhang / IGG – CAS

17:10-17:30

General features of inland earthquakes and the process by which inland earthquakes are generated

Yoshihisa Iio /DPRI, Kyoto Univ.

18:00-20:00 **Reception**

Nov. 25, 2010

Session 3) The structure of crust and upper mantle and its relation to earthquake generation

Chair: Aitaro Kato

9:00-9:20

Multi-scale seismic tomography in China: New insight into earthquake generation

Jinli Huang / IES – CEA

9:20-9:40

Characteristics of electrical conductivity structure in epicenter areas of several strong earthquakes in China

Ji Tang / IG – CEA

9:40-10:00

Electrical conductivity structure beneath active fault zones in back-arc side of Chubu-District, central Japan

Makoto Uyeshima /ERI, Univ. of Tokyo

10:00-10:20

Dissecting the seismogenic zones in Japan, China and India

Dapeng Zhao / Tohoku Univ.

10:20-10:40 **Coffee Break**

Session 4) Earthquake occurrence predictability used by tectonic consideration and/or simulation method

Chair: Naoyuki Kato

10:40-11:00

Large slip rate detected at the seismogenic zone of the 2008 Mw7.9 Wenchuan earthquake

Qifu Chen / IES-CEA

11:00-11:20

Dynamic modelling of earthquake activity on Xianshuihe-xiaojiang fault zone

Hui Wang / IES-CEA

11:20-11:40

Modeling of fault development and tectonic loading processes for large inland earthquakes around the Backbone Range, NE Japan and in the mid-Niigata region

Bunichiro Shibasaki / BRI, Japan

11:40-12:00

The first earthquake forecast testing experiment in Japan: Scope and recent progress

Kazuyoshi Nanjo / ERI, Univ. of Tokyo

12:00-12:30 **Discussions and Summary**

Chair: Yuichi Morita