



HOKUDAN
International Symposium
on Active Faulting
January 17th -- 21st, 2010
Awaji City, Awaji Island, Japan

The scope and organization of the symposium

Hokudan International Symposium on Active Faulting will be held again in January 17th to 21st 2010, on the occasion of the 15th anniversary of the 1995 Kobe Earthquake, or the Great Hanshin-Awaji Earthquake Disaster. Hokudan is the name of a town where the source fault of the 1995 earthquake ruptured the ground surface of Awaji Island, and the rupture is preserved in an earthquake memorial museum.

The theme of the 2010 symposium is "Forecasting large earthquakes from active faults --in time and space--". The aim is to understand recurrent behavior of large earthquakes and their effects on human communities.

As to the time, renewal process of large earthquake occurrence, estimation of recurrence interval and elapsed time, time-dependent forecast, shall be the crucial topics to explore and discuss in the symposium. As to the space, to define the extent of source fault in the past and in the future is an important task for active fault research. This issue includes investigations on segmentation, earthquake triggering and fault interaction, dynamic rupture process, as well as off-fault studies on source faults and isoseismal using archaeoseismology and tsunami analyses.

The strong ground motion and hazards induced by recent large earthquakes are also to be examined to understand the effects of active faulting in time and space. Earthquake hazard assessments and other applications of active fault research will be discussed both in empirical and theoretical perspectives.

Multidisciplinary approach from seismology, geophysics, geology, geodesy, geomorphology, earthquake engineering, history, archaeology and so on are the key for the symposium. The organizers expect participants from wider communities dealing with large earthquakes and hazards. Though the 2010 symposium will not be as big as 2000 and 2005, we are going to organize sessions more focused on the hottest issues on active faulting and earthquakes.

The scientific program tentatively includes following topical oral sessions, and topical and general contributions by poster presentations.

Modelling of large earthquakes from paleoseismology
Forecast of large earthquakes and strong motion: theory, observation and application
Submarine active faults and tsunamis
Surface effects and mass movements induced by active faulting
New technologies for mapping and imaging of active faults

The organizers wish to push forward the horizon of active fault research with all of you.