

## Earthquake Source Physics in Various Aspects

Institute of Earth Sciences, Academia Sinica, 2F Lecture Room

January 16, 2013

### 08:30-09:10 Registration

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09:10-09:20 Welcome Speech Benjamin Fong Chao  
*Director of the Institute of Earth Sciences, Academia Sinica*

09:20-09:30 Welcome Speech Cheng-Horng Lin  
*Director of the Taiwan Earthquake Research Center*

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09:30-09:50 Luis Rivera  
*Using the gravest Earth's free oscillation to study the source of large earthquakes*

09:50-10:10 Po-Fei Chen  
*A warning system in Taiwan for South China Sea tsunamis using W Phase Inversion and unit tsunami methods*

10:10-10:30 Bor-Shouh Huang  
*Source rupture behavior of the 2008 Wen-Chun Earthquake by two arrays*

### 10:30-10:50 Coffee Break

10:50-11:10 Yen-Ting Ko  
*The depth-varying stress drop and seismic energy of earthquakes in Japan subduction zone*

11:10-11:30 Yen-Yu Lin  
*Constant P-wave duration observations for Mw 0.5 to 2.0 events from the TCDP borehole seismometers*

11:30-11:50 Shiann-Jong Lee  
*Recent achievements in real-time computational seismology in Taiwan*

### 11:50-13:40 Lunch

Institute of Earth Sciences, Academia Sinica / Taiwan Earthquake Research Center

13:40-14:00 Tai-Lin Tseng  
*Changes of stress pattern and their possible sources in southern Taiwan*

14:00-14:20 Kate H. Chen  
*Towards the nature of repeating earthquakes*

14:20-14:40 Wen-Nan Wu  
*Empirical relationships between aftershock zone dimensions and moment magnitudes for plate boundary earthquakes in Taiwan*

14:40-15:00 Laetitia Mozziconacci  
*The April 2006 seismic crisis: Behavior of the two main-fault systems of the Longitudinal Valley, Taiwan*

**15:00-15:20 Coffee Break**

15:20-16:00 Discussions

End of the workshop