

The Second Announcement



(as of November 12, 2012)

Hosted by



**State Key Laboratory of Disaster Reduction in Civil Engineering
(Tongji University)**



College of Civil Engineering, Tongji University

Sponsored by



**State Key Laboratory of Disaster Reduction in Civil Engineering
(Tongji University)**

**Fundamental Research Funds for the Central Government Universities
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Kwang-Hua Fund for College of Civil Engineering, Tongji University

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**Tongji Research Center for New Technology of Earthquake Resistance and
Disaster Mitigation**



Introduction

Since 2008, four Kwang-Hua Forums have been held at Tongji University successfully. The themes of the forums are cautiously selected and closely related to the earthquake engineering society. In May 2008, an 8-magnitude Wenchuan earthquake hit southwestern China and the post-quake reconstruction was the concern of the nation. The First Kwang-Hua Forum in October 2008 was thus focused on *Wenchuan Earthquake and Post-quake Reconstruction*. With the increasing research and application of performance-based earthquake engineering, the theme of the Second Kwang-hua Forum in October 2009 was *Performance-based Design Theory and Code Development for Civil and Structural Engineering*. In October 2010, the Third Kwang-hua Forum was held with the focus on *Sustainable Civil Engineering*. In 2011, a multi-functional 4-table shaking table array with a total payload of 2000 kN was put into operation at Tongji University for the worldwide earthquake engineering research. The Fourth Kwang-Hua Forum and *Opening Symposium of Tongji Multi-functional Shaking Table Array* were held in December 2011.

Following those four successful forums, the Fifth Kwang-Hua Forum on *Innovations and Implementations in Earthquake Engineering Research* is scheduled on December 8-10, 2012. The objective of the event is to provide a forum for experts around the world to present recent progress and exchange views or experiences in innovation and implementations in earthquake engineering. The forum also aims to promote the international collaboration and mutual understanding on how to achieve practical engineering implementation through innovative planning, design, construction, maintenance, hazard mitigation and retrofitting.

Preliminary Program

	Morning	Afternoon	Evening
Dec. 8 SAT		Registration	Registration
Dec. 9 SUN	Plenary Sessions	Parallel Sessions (Including special session for young scholars)	Banquet
Dec. 10 MON	Technical Visit Plenary Sessions	Plenary Sessions, Discussions and Resolutions	Dinner



Scope

The topics on *Innovations and Implementations in Earthquake Engineering Research* include but are not limited to:

1. Roles of shaking table testing and its proper applications in earthquake engineering
2. Research and development of earthquake resilient structures

Rocking structures, self-centering structures, replaceable structures, cost-effective and sustainable structures

3. Seismic behavior and vibration control of taller, longer and lighter structures
4. Seismic retrofitting of structures using advanced technologies

FRP materials, structural control technologies, cost-effective and sustainable materials

5. Performance-based seismic design of structures

6. Long period earthquake ground motions and their effects to structures

7. National Infrastructures for Earthquake Engineering Research

NEES in USA, SERIES in Europe, KOCED in Korea, NCREE in Chinese Taipei, etc.

8. Post-earthquake Collection of Data

Language and form

English is the official language of the forum. PPT file for presentations will be collected at the registration. Technical visit to Multi-functional Shaking Tables on Jiading Campus will be arranged and special session for young scholars will be set up during the forum.

Organizing Committee

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