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## Background

The first China-Japan Symposium on Lifeline Earthquake Engineering was held in 1990 at Beijing, China on the cooperative research between CRIBC (Central Research Institute of Building and Construction) and Kobe University in Japan containing wider researchers and engineers in China and Japan who were interested in Lifeline Earthquake Engineering. The second symposium as a tri-lateral symposium of China-Japan and US joint programs was held in 1994 at Xi'an, China under the official US-China protocol program on cooperative earthquake engineering studies. The third, the fourth and the fifth symposiums were held in 1998 at Kunming, in 2002 at Qingdao, and in 2007 at Haikou China, respectively. The sixth symposium will be on the topic of Seismic Resilience of Lifelines under lessons from recent huge earthquakes such as 2008 Wenchuan, 2009 Indonesia, 2010 Haiti, Chile and New Zealand, and 2011 Japan. It will take place in Chengdu in recognition of the Wenchuan earthquake that struck Chengdu in 2008.

## Objective

The objective of the symposium is to provide a forum for Chinese, Japanese and US professional lifeline engineers and researchers, for mutual exchange of recent results of main investigations on Lifeline Earthquake Engineering, including buried pipeline, bridge, road and railway systems, etc. Recent severe earthquakes caused not only the direct community losses of damaged lifeline facilities, but also the indirect loss caused by the interruption of lifeline function. Seismic resilience is thus very important issue to reduce community impacts and the physical and functional damages related to lifelines. The issue of seismic resilience for lifelines will be emphasized in the sixth symposium.

## Cooperation

- China: Southwest Jiaotong University;  
Shanghai Institute of Disaster Prevention and Relief
- Japan: Research Institute of Lifeline Engineering, Inc. ;  
Lifeline Network, Kansai (LiNK)
- U.S.A.: Technical Council on Lifeline Earthquake Engineering, American Society of Civil Engineers ;  
University of Texas at Arlington;  
International Association of Chinese Geotechnical Engineers

## Second Circular

# *Sixth China-Japan-US Trilateral Symposium on Lifeline Earthquake Engineering*

October 23<sup>rd</sup> ~ 27<sup>th</sup>, 2012  
Chengdu, Sichuan, China

## Organized by

Beijing University of Technology, China  
Kanazawa University, Japan  
University of Southern California, U.S.A.

## Hosted by

College of Architecture and Civil  
Engineering, Beijing University of  
Technology, China

## ▪ Secretariat Section :

China: Zhao Xu, Liu Aiwen, Cui Kai  
Japan: Akira Murata  
U.S.A.: Liping Yan

## Seminar Contents

Oct, 23, 2012	Registration
Oct, 24, 2012	Opening, Keynote Speeches, Concurrent Sessions
Oct, 25, 2012	Invited Speeches, Concurrent Sessions, Closing (lecture from Member of Chinese Academy of Engineering )
Oct, 26, 2012	Technical tour to the recovered areas around Wenchuan
Oct, 27, 2012	Visiting the Dujiang Dam and Qingcheng Mountain

## Closing Ceremony Lecture and Keynote Speakers

China: **Xie Lili**, Member of Chinese Academy of Engineering, Institute of Engineering Mechanics, China Earthquake Administration  
China: **Li Jie**, Professor, Tongji University  
Japan: **Shiro Takada**, Emeritus Professor, Kobe University  
U.S.A.: **Jean-Pierre Bardet**, Dean of Engineering, University of Texas at Arlington

## Presentation Topics

- Geotechnical problems of Lifeline
- Tsunami Impacts on Lifelines
- Damage Mechanism and Analysis of Lifeline and Disaster Simulation
- Dynamic Behavior of Buried Pipelines under Near Field Ground Motions and Fault Movement
- Application of GIS and GPS to Lifeline Disaster Prevention
- Monitoring and Sensing Systems of Lifeline Network Performance and Strong Ground Motions Including Permanent Displacement
- Emergency Response for Lifeline Network and

- Disaster Information System
- Restoration, Reconstruction and Function Rehabilitation Strategy
- Socio-Economical Impact and Consequence Control of Lifeline Damage
- Optimum Budget for Counter-measures on Lifeline Systems and Consensus on Acceptable Risk
- Business Continuity Management Related to Lifeline Network System
- The Damage during the 2008 Wenchuan Earthquake and the 2011 off the Pacific Coast of Tohoku Earthquake
- Others

## Official Languages

The official language of the symposium will be Chinese, Japanese and English. For communication, the presentation must be done in English, the papers must be written in English. Discussions can be done in three languages.

## Papers

The papers accepted by the symposium will be collected on a CD and be provided for the participants during the symposium. Selected papers from symposium papers will be accepted by a proceeding published by The American Society of Civil Engineers (ASCE) afterward. Papers should meet the ASCE formatting criteria and be sending to one of the following email addresses:

China: Dr. Zhao Xu  
bjutigue@163.com  
Japan: Prof. Masakatsu Miyajima,  
miyajima@se.kanazawa-u.ac.jp  
U.S.A.: Dr. Craig Davis  
craig.davis@ladwp.com

## ▪ Important Dates

- Deadline to receive the full papers: August 31<sup>st</sup>, 2012
- Notification of paper acceptance to symposium: September 30<sup>th</sup>, 2012
- Comments to authors for ASCE publication: October 15<sup>th</sup>, 2012

- Author submit final revised manuscript: January 4<sup>th</sup>, 2013
- Notification of final acceptance for ASCE publication: February 4<sup>th</sup>, 2013
- Publication of the book: June, 2013

## ▪ Paper Requirements

- Original
- Pertinent to symposium
- Understandable and written in good English,
- Have good technical quality providing an important contribution to lifeline earthquake engineering
- Meet the ASCE formatting criteria (attached to this Circular)
- The maximum page length is limited to 8 pages

## ▪ Signed Documents for publishing

For ASCE publishing the following documents must be provided with the final paper, which can be scanned and sent by emails.

- A signed Copyright Transfer Agreement (CTA) for the paper (attached to this Circular)
- A signed Permission Verification Form (PVE) for the paper (attached to this Circular)

## Registration Fee

US\$ 350.00, including the published proceeding from ASCE.

## Symposium Location

The symposium will be in Chengdu, Sichuan province, China. The venue is Jinniu Hotel locates at No. 2, Jinquan road, Jinniu District, Chengdu.

## For Further Details

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