

## 7<sup>th</sup> CUEE and 5<sup>th</sup> ICEE Joint Conference

### 7<sup>th</sup> International Conference on Urban Earthquake Engineering & 5<sup>th</sup> International Conference on Earthquake Engineering

March 3-5, 2010

*Promoting International Collaborations  
on Earthquake Engineering Frontiers and Mitigation Practices*

#### Conference Dates and Venue

March 3<sup>rd</sup>-5<sup>th</sup>, 2010 at Tokyo Institute of Technology,  
Ookayama Campus, Tokyo, Japan

#### Organized by

Center for Urban Earthquake Engineering (CUEE)



## Welcome Message from the 7th CUEE and 5th ICEE Joint Conference

It is our great pleasure to invite you to this specially coordinated event that combines two major international conferences on earthquake engineering: the 7th International Conference on Urban Earthquake Engineering (7th CUEE) and the 5th International Conference on Earthquake Engineering (5th ICEE).

The 7th CUEE is an integral part of the research activities of the Center for Urban Earthquake Engineering (CUEE), Tokyo Institute of Technology, Japan. CUEE is supported by the Ministry of Education, Culture, Sport, Science and Technology (MEXT) in Japan, as the Global Center of Excellence (COE) in the field of earthquake engineering. The CUEE conference has been held annually since fiscal year 2003 under two consecutive COE programs (FY 2003-2007 and FY 2008-2012). The current program aims not only to promote research to mitigate the seismic “mega” risk confronting vast, modern cities in earthquake regions throughout the world, but also to produce next-generation practitioners and researchers who will develop the new strategies and practices for seismic risk reduction. The conference will continue to stimulate intensive information dissemination and technology transfer, as well as to promote and maintain an international network directed toward nurturing young researchers through a sustained international collaborative effort.

The 5th International Conference on Earthquake Engineering (5th ICEE) is a core activity of the Asian-Pacific Network of Centers for Earthquake Engineering Research (ANCER). The ICEE was conceived in 2000 when the China-US Millennium Symposium on Earthquake Engineering was held in Beijing, China. The China-US Millennium Symposium had the clear aim of creating a detailed research plan for US-China cooperative research in the field of earthquake engineering and hazard mitigation. In the year of 2001, based on the resolutions of the China-US Symposium, ANCER was founded by seven national earthquake engineering research centers, including the Korean Earthquake Engineering Research Center (Korea), Institute of Engineering Mechanics of China Seismological Bureau (China), Multidisciplinary Center for Earthquake Engineering Research (USA), Mid-America Earthquake Center (USA), Pacific Earthquake Engineering Research Center (USA), Disaster Prevention Research Institute of Kyoto University (Japan), and the National Center for Research on Earthquake Engineering (Taiwan). The aim

of ANCER is to make significant impact on current seismic hazard mitigation practice through cooperative research activities that can be best advanced on a center-to-center collaboration focused on areas of common interest.

The organizers of the 7th CUEE and 5th ICEE Conferences are excited by the opportunity to combine the two conferences. As a joint conference, a broad range of research topics will be showcased so that a new multilateral research platform that disseminates state-of-the-art information, illustrates new and emerging mitigation technologies, and promotes new education initiatives will be formed. The conference will also reinforce the commitment of CUEE and ANCER to promote international collaboration and facilitate the open exchange of state-of-the-art and state-of-the-practice research findings with the aim of improving pre-earthquake preparedness, emergency response, and post-earthquake recovery. The organizers of the conference are committed to four major conference themes: 1) Vulnerability of megacities to seismic hazards; 2) Multihazard mitigation solutions; 3) Adoption of sensor, actuation, and control technologies within future mitigation strategies; 4) Education initiative aimed toward cultivating interdisciplinary and cross-cultural earthquake engineering curricula.

#### Sponsored by

- Global COE Program “International Urban Earthquake Engineering Center for Mitigating Seismic Mega Risk”, funded by Ministry of Education, Culture, Sports, Science, and Technology (MEXT), Japan
- Asia-Pacific Network of Centers of Earthquake Engineering Research (ANCER)
- Asia-Pacific Network of Centers for Research in Smart Structures Technology (ANCRISST)
- International Association for Earthquake Engineering (IAEE)
- Natural Science Foundation (NSFC), China
- National Center for Research on Earthquake Engineering (NCREE), Taiwan

#### Language

English will be the official language of the conference.

#### Conference Venue

The conference will be held at West Building No.9,  
Ookayama Campus, Tokyo Institute of Technology.

## Conference Chair

Tokimatsu, Kohji (Japan)

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Elwood, Kenneth J. (Canada)	Lu, Xi-Lin (China)	Usami, Tsutomu (Japan)
Fan, Li-Chu (China)	Lukkunaprasit, Panitan (Thailand)	Wang, Ya-Yong (China)
Fennes, Gregory L. (USA)	Lynch, Jerome P. (USA)	Wen, Kuo-Liang (Taiwan)
Foutch, Douglas A. (USA)	Mahin, Stephen A. (USA)	Wenzel, Helmut (Austria)
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Geradin, Michel (Italy)	Mo, Yi-Lung (USA)	Yamada, Satoshi (Japan)
Han, Sang Whan (Korea)	Nakashima, Masayoshi (Japan)	Ye, Liao-Yuan (China)
Hu, Yu-Xian (China)	Okada, Tsuneo (Japan)	Ye, Lie-Ping (China)
Huang, Shyh-Jiann (Taiwan)	O' Rourke, Thomas D. (USA)	Yuan, Fu-Hwo (USA)
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Kasai, Kazuhiko (Japan)	Pan, Tso-Chien (Singapore)	Zhou, Xi-Yuan (China)
Kim, Dong-Soo (Korea)		Zhou, Yun (China)

## Conference Topics

- **Engineering Seismology:** seismicity, ground and site effects, and seismic hazard analysis
- **Geotechnical Engineering:** foundations, ground-failure, liquefaction, and underground structures
- **Structural Engineering:** materials, structural systems and elements, structural response, evaluation and retrofit of buildings, bridges, industrial, heritage buildings, and special structures
- **Advanced Technologies:** base isolation systems, passive energy dissipation, semi-active structural control, smart materials and structures, and health monitoring
- **Lifeline Systems:** design and analysis, network assessment, mitigation, components and systems
- **Non-Structural Components and Contents:** modeling, control and mitigation strategies
- **New Design Criteria and Methods:** seismic codes and standards, applications
- **Earthquake Engineering Practice:** recent projects, design, and construction
- **Earthquake Loss Estimation:** vulnerability analysis, risk assessment and management
- **Multihazards:** Expanding earthquake technologies to the protection of infrastructure systems to multiple hazards
- **Information and Computing Technology:** simulation, modeling, earthquake wave generation, computer graphics, database information, GIS
- **Lessons Learnt:** lessons from recent earthquakes and tsunamis
- **Socio-economic Issues:** loss assessment, risk, seismic awareness, preparedness, education
- **Human Behavior:** egress management, human modeling, recovery methods
- **Others:** earthquake-induced fire; early warning systems; earthquake prediction; post-quake reconstruction; seismic behavior of non-engineered structures

## Call for Papers

Prospective authors are invited to submit abstracts of no more than 500 words. Submission of abstracts should be made on the conference website.

## Important Deadlines

Submission of abstracts:	October 31, 2009
Notification of abstract acceptance:	November 3, 2009
Submission of final paper:	December 31, 2009
Registration:	December 31, 2009

## Publication of Proceedings

Papers presented in the conference will be published in the Proceedings of the Joint 7<sup>th</sup> CUEE & 5<sup>th</sup> ICEE Conference.

## Fees for Registration and Others

Full Registration:	\$250
(Including one copy of proceedings, welcome party, 3-day lunch, and banquet)	
Partial Registration:	\$150
(Including one copy of proceedings, welcome party and 3-day lunch)	

## Banquet

Formal Japanese dinner, entertainment, and speech on March 4<sup>th</sup> at Meguro Gajoen, Meguro Ward, Tokyo, Japan.  
<http://www.megurogajoen.co.jp/english/index.html>

## Conference Web Site

The conference website is: <http://www.cuee.titech.ac.jp/conf/>  
This website will be constructed and continuously updated with the latest conference information.  
Submission of abstracts/papers can be made through this web site.

## Best Presentation Awards for Young Researchers:

Best Presentation Awards for Young Researchers will be presented. The Organizing Committee will select the best presentations as judged from the quality and interest of research demonstrated, and the ability of the presenter to explain and answer questions about the material. Winners of the awards will be announced during the Closing Session on March 5<sup>th</sup>.

## Travel Support for Young Researchers

Each member institute of ANCER is invited to recommend its graduate student for financial support that would cover expenses for transportation including air flights and accommodations in Tokyo. The recipient of the support must be a presenter of the conference paper. Travel support will be provided by CUEE.

## Inquiry

CUEE office secretary : [conf@cuee.titech.ac.jp](mailto:conf@cuee.titech.ac.jp)  
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