



14 WCEE

Beijing 2008



Under the Auspices of

International Association for Earthquake Engineering (IAEE)

Hosted by

Chinese Association of Earthquake Engineering (CAEE)

Sponsored by

China Earthquake Administration
Ministry of Construction, China

Co-sponsored by

Beijing Municipal People's Government, China
Ministry of Education, China
Ministry of Science and Technology, China
Chinese Academy of Sciences
Chinese Academy of Engineering
National Natural Science Foundation of China
China Association for Science and Technology

PURPOSE OF THE CONFERENCE

The 14th World Conference on Earthquake Engineering (14WCEE) will serve as an international forum at which specialists, government officials and NGO representatives in earthquake engineering and relevant fields may exchange the latest research results and technologies. The Conference strives to promote innovation, practice and safety in reducing the impact of earthquakes on our society and natural environment.

THEME

INNOVATION PRACTICE SAFETY

LANGUAGE

The official language of the Conference is English.

PRELIMINARY PROGRAM AT A GLANCE

	Morning	Afternoon	Evening
Oct.12 (Sun.)		Registration	
Oct.13 (Mon.)	Opening Ceremony & Keynote Presentations	Parallel Sessions	Reception
Oct.14 (Tue.)	Parallel Sessions	Parallel Sessions	
Oct.15 (Wed.)	Keynote Presentations/ Parallel Sessions	Parallel Sessions	Cultural Experience Night
Oct.16 (Thu.)	Parallel Sessions	Parallel Sessions	Banquet
Oct.17 (Fri.)	Keynote Presentations/ Parallel Sessions	Parallel Sessions & Closing Ceremony	



INVITATION



Dear Colleagues,

I am delighted to have this opportunity on behalf of IAEE to join Prof. Chen Jianmin, President of the Local Organizing Committee and Director General of China Earthquake Administration, in extending our cordial invitation to you to attend the 14th World Conference on Earthquake Engineering (14WCEE).

Since we left Vancouver in the summer of 2004, the world has experienced even worse earthquake disasters. Earthquakes in Iran, Indonesia, and Pakistan, for example, took tens of thousands of lives and caused enormous damage to our economy and society. These terrible experiences serve as a wake up call and to remind us there is much work to be done in reducing earthquake disaster.

Ever since its establishment, IAEE has been contributing all its might to world earthquake disaster mitigation. The World Conference on Earthquake Engineering is just one of the efforts in IAEE's endeavor to make a safer world.

The 14WCEE to be held in Beijing, China, October 12-17, 2008 will be an excellent opportunity for us to share our experience and knowledge and work together for the common goal of earthquake disaster mitigation. I therefore call for your active participation in the upcoming 14WCEE to promote closer international cooperation and extensive interchange of knowledge and ideas, and to share our latest results in research and practice.

I look forward to seeing you in Beijing, China in October 2008.

Tsuneo Katayama
IAEE President

INVITATION



Dear Friends,

As the President of the Local Organizing Committee of the 14th World Conference on Earthquake Engineering and Director General of China Earthquake Administration, I want to extend a warm invitation to you to attend the Conference to be held in Beijing, China, October 12-17, 2008.

The Conference will bring together government officials, NGO representatives, international research and development communities, scholars, and numerous segments of the private industries to present their latest results on earthquake hazard mitigation and to exchange ideas on how to improve earthquake safety around the world. It will also become a phenomenal event for earthquake disaster prevention because of its unique opportunity for professionals from all over the world to learn from each other on earthquake engineering and hazard mitigation. We will do our utmost to make this event one of the best and most successful to date, and we believe that all delegates will find their participation both professionally rewarding and personally enjoyable.

The post-conference field trips will have six options for the participants to choose. Each of these options is designed to allow the participants to better understand the development of earthquake disaster prevention in China, and to enjoy the oriental scenery and the harmonious coexistence of ancient civilization and modern culture.

I look forward to seeing you in Beijing in 2008!

CHEN Jianmin

President

Local Organizing Committee

14th World Conference on Earthquake Engineering

ORGANIZATION

STEERING COMMITTEE

President:

HUI Liangyu, *Vice Premier, State Council, China*

Members:

WANG Guangtao, *Minister, Ministry of Construction, China*

WANG Qishan, *Mayor, Beijing Municipal People's Government, China*

SONG Ruixiang, *Former Director General, China Earthquake Administration*

LOCAL ORGANIZING COMMITTEE

President:

CHEN Jianmin, *Director General, China Earthquake Administration*

Vice Presidents:

HUANG Wei, *Vice Minister, Ministry of Construction, China*

JI Lin, *Vice Mayor, Beijing Municipal People's Government, China*

LIU Yuchen, *Deputy Director General, China Earthquake Administration*

ZHAO Qinping, *Vice Minister, Ministry of Education, China*

LIU Yanhua, *Vice Minister, Ministry of Science and Technology, China*

LI Jiayang, *Vice President, Chinese Academy of Sciences*

DU Xiangwan, *Vice President, Chinese Academy of Engineering*

SUN Jiaguang, *Vice President, National Natural Science Foundation of China*

QI Rang, *Vice President, China Association for Science and Technology*

XIE Lili, *President of Chinese Association of Earthquake Engineering, Vice President of IAEE*

Committee members:

HE Zhende

WU Huijuan

ZHANG Yi

XIE Huanzhong

CHANG Xu

GAO Zhongqi

CHAI Yucheng

LI Ming

ZHANG Hongwei

NIU Zhijun

LI Ke

LU Shoude

HUANG Jianfa

Secretary General:

LIU Yuchen

Deputy Secretary Generals:

ZENG Shaohua

XIE Huanzhong

CHANG Xu

GAO Zhongqi

CHAI Yucheng

ZHAO Ming

QI Xiaozhai

WANG Yayong

HU Chunfeng

ORGANIZATION

SCIENTIFIC COMMITTEE

Chairmen:

XIE Lili , HU Yuxian

Members:

ANAGNOSTOPOULOS, Stavros A. (Greece)

BLAZQUEZ, Rafael (Spain)

CARDONA, Omar D. (Colombia)

CHEN Houqun (China)

CHERRY, Sheldon (Canada)

ESTEVA, Luis (Mexico)

FACCIOLI, E. (Italy)

FAN Lichu (China)

GHAFORY-ASHTIANY, Mohsen (Iran)

GULKAN, Polat (Turkey)

HOPKINS, David C. (New Zealand)

IEMURA, Hirokazu (Japan)

JAIN, Sudhir K. (India)

KATAYAMA, Tsuneo (Japan)

LEE, George (USA)

LIAO Zhenpeng (China)

LIN Gao (China)

LOH Chin-Hsiung (China)

MOEHLE, Jack P. (USA)

O'ROURKE, Thomas D. (USA)

OTANI, Shunsuke (Japan)

OU Jinping (China)

PAN, Tso-Chien (Singapore)

PENZIEN, Joseph (USA)

SHAH, Haresh (USA)

SHEN Zuyan (China)

SPENCER, B. F. (USA)

WANG Guangyuan (China)

ZHOU Fulin (China)

ZHOU Xiyuan (China)

Secretary General:

WANG Zifa (China)

TOPICS AND COORDINATORS

• Lessons learned from recent earthquakes

BELAZOUGUI, Mohamed (Algeria) E-mail: cgsd@wissal.dz

SUN Baitao (China) E-mail: sunbt@iem.net.cn

• Observation and analysis of ground motions

SEO, Kazuoh (Japan) E-mail: seo@enveng.titech.ac.jp

LI Xiaojun (China) E-mail: beerli@vip.sina.com

• Engineering seismology

MILUTINOVIC, Zoran (Macedonia) E-mail: zoran@pluto.iziis.ukim.edu.mk

WEN Kuo-Liang (China) E-mail: wenkl@ncree.org

• Geotechnical engineering

LAW K. Tim (Canada) E-mail: tim_law@carleton.ca

ZHANG Jianmin (China) E-mail: zhangjm@mail.tsinghua.edu.cn

• Structural engineering

KASAI, Kazuhiko (Japan) E-mail: kasai@serc.titech.ac.jp

BLAZQUEZ, Rafael (Spain) E-mail: rafael.blazquez@uclm.es

LU Xilin (China) E-mail: lx1st@mail.tongji.edu.cn

• Lifeline systems

O'ROURKE, Thomas D. (USA) E-mail: tdo1@cornell.edu

LI Jie (China) E-mail: lijie@mail.tongji.edu.cn

• Seismic hazard analysis and zonation

GIARDINI, Domenico (Switzerland) E-mail: giardini@sed.ethz.ch

ZHANG Peizhen (China) E-mail: peizhen@ies.ac.cn

• Seismic codes and standards

ESTEVA, Luis (Mexico) E-mail: LEstevaM@iingen.unam.mx

WANG Yayong (China) E-mail: yayongwang@sina.com

TOPICS AND COORDINATORS

· Earthquake risk reduction for urban and rural areas

SUHADOLC, Peter (Italy) E-mail: suhadolc@dst.units.it
WU Zhongliang (China) E-mail: wuzhl@gucas.ac.cn

· Social and economic impacts of earthquakes

TATANO, Hirokazu (Japan) E-mail: tatano@imdr.dpri.kyoto-u.ac.jp
LIU Weiqing (China) E-mail: wqliu@njut.edu.cn

· Emerging technologies in earthquake engineering

IEMURA, Hirokazu (Japan) E-mail: iemura@catfish.kuciv.kyoto-u.ac.jp
SPENCER, B.F. (USA) E-mail: bfs@uiuc.edu
OU Jinping (China) E-mail: oujinpings@hit.edu.cn

· Experimental studies

MAHIN, Stephen (USA) E-mail: mahin@ce.berkeley.edu
TSAI Keh-Chyuan (China) E-mail: kctsai@ncree.org.tw

· Earthquake and multi-hazards

LEE, George (USA) E-mail: gcllee@buffalo.edu
WANG Lanmin (China) E-mail: wanglm@gssb.gov.cn

· Numerical methods in earthquake engineering

HAO Hong (Australia) E-mail: hao@civil.uwa.edu.au
DU Xiuli (China) E-mail: duxl@iwhr.com

· Tsunami

KING, Andrew (New Zealand) E-mail: a.king@gns.cri.nz
KO Jan-ming (China) E-mail: cejmko@inet.polyu.edu.hk



KEYNOTE PRESENTATIONS

The Local Organizing Committee intends to invite between 10 to 15 leading experts addressing their frontier research results to the attendees in keynote presentations during the Conference. Further information on keynote presentations will be available at <http://www.14wcee.org>.

SPECIAL SESSIONS

Applications are open until June 30, 2007. For questions and inquiry, please contact the Local Organizing Committee at secretariat@14wcee.org. Additional information will be updated at <http://www.14wcee.org>.

CALL FOR ABSTRACTS

The Conference welcomes the submission of abstracts for listed topics and special sessions no later than October 1, 2007.

ABSTRACT PREPARATION AND SUBMISSION

Abstract submission can be completed on-line. Please follow the instructions on the website (<http://www.14wcee.org>). The instructions for abstract preparation can also be downloaded from the website. The Local Organizing Committee reserves the right to accept and reject abstracts for inclusion in the program, and to decide whether it will appear as an oral presentation or a poster session.

IMPORTANT DATES

Deadline for Abstract Submission: **October 1, 2007**

Acceptance Notification: **January 1, 2008**

Deadline for Paper Submission: **May 1, 2008**

Deadline for Early Registration: **May 1, 2008**

CONFERENCE FEES

	Before May 1, 2008	Before Aug. 1, 2008	After Aug. 1, 2008
Full Registration	US\$400.00	US\$475.00	US\$550.00
Full-time Students Registration	US\$240.00	US\$280.00	US\$320.00
Accompanying Persons	US\$160.00	US\$200.00	US\$250.00
One Day Registration	US\$160.00	US\$160.00	US\$160.00

1. Full Registration Fee Covers:

- Submittal fee for one paper
- All technical sessions
- Program and proceedings (CD)
- Conference kit
- Coffee break and working lunch
- Reception
- Traditional performance with dinner
- Banquet

2. Full-time Students Registration Fee Covers:

- Submittal fee for one paper
- All technical sessions
- Program and proceedings (CD)
- Conference kit
- Coffee break and working lunch
- Reception
- Cultural Experience Night with dinner

3. Accompanying Persons Fee Covers:

- Reception
- Cultural Experience Night with dinner
- Banquet.

4. One Day Registration Fee Covers:

- Program pamphlet
- Technical sessions for the registered day
- Conference kit
- Coffee break and working lunch for the registered day

For each additional paper, an extra of US\$ 150 is required.



EXHIBITION

An exhibition “Exhibit On 14WCEE” will be held concurrently with the Conference at the same venue. All companies, universities, and institutions related to earthquake engineering are welcome to set up booths in the exhibition area. For details please visit the Conference website: <http://www.14wcee.org> and contact China International Conference Center for Science and Technology (PCO of 14WCEE) at pco@14wcee.org.

SPONSORSHIP

Sponsorship opportunities are available at various levels, including a limited number of Major Sponsor opportunities. Major Sponsors will be offered the highest profile at the Conference, including funding events such as reception, meals, etc., and maximum visibility through printed materials and on the website. Please contact the 14WCEE Secretariat to discuss how your organization can benefit from sponsoring an event at the 14WCEE.

FIELD TRIP INFORMATION

Field Trips will be organized for participants to better understand the development of earthquake disaster prevention in China and to enjoy China’s unique culture and ancient civilization.

PT1 Beijing-Xi’an-Beijing (3 days)

Review geological features (ground fissures) of Xi’an city which are evolving into a new natural hazard in China. The tour will also include a visit to the Terra-Cotta Warriors and the Small Wild Goose Pagoda (2 stories of which collapsed during the 1556 Hua Xian County M 8.0 Earthquake).

PT2 Beijing-Xi’an-Guilin-Shanghai (6 days)

Review the geological hazard (ground fissures) of Xi’an city and visit the National Key Laboratory for Disaster Prevention in Civil Engineering at Tongji University in Shanghai. Visitors will also have the opportunity to visit the Terra-Cotta Warriors and the Small Wild Goose Pagoda in Xi’an, karst caves and the beautiful Li Jiang River in Guilin and the Yu Garden and the Bund in Shanghai.

PT3 Beijing-Chengdu-Lhasa-Zedang-Chengdu (7 days)

Visit the Dujiangyan Irrigation System, a water project construction of ancient China built over 2,200 years ago in Chengdu. The tour also includes a visit to Giant Panda Research Institute, Qiang Yang Palace, a Chinese native religion-Taoism Palace in Chengdu, the Potala Palace, Tibet Museum and some famous Monasteries.

PT4 Beijing-Urumqi-Turpan-Dunhuang-Jiayuguan-Lanzhou-Beijing (9 days)

Visit Heavenly Lake, a geological relic of the Quaternary Period Glacier in Urumqi and the seismically retrofitted rural houses in Jiayuguan city. The tour also includes a visit to Grape Valley, the Mogao Grottoes, the Crescent Moon Spring, the Jiayuguan Pass of the Great Wall, the Galloping Horse Treading on a Flying Swallow and Labrang Lamasery.

PT5 Beijing-Harbin-Beijing (4 days)

Visit the Institute of Engineering Mechanics (IEM), China Earthquake Administration (CEA), Harbin Institute of Technology (HIT) and the volcanoes of Wudalianchi Geopark that are the best preserved and the most typical recent volcanic cluster in China.

PT6 Beijing-Kunming-Dali-Lijiang-Kunming (6 days)

Survey the remains of 1996 Lijiang earthquake, understand the reconstruction after the quake, and review the Lijiang fault and piedmont fault in Yulong Snow Mountain. The tour also includes a visit to the Three Pagodas Temple, Butterfly Spring Park, the Grand View Pavilion and the Stone Forest.



OPTIONAL TOURS

The organizer of the Conference will offer several local tours during the Conference for accompanying persons. The details will be available at the website: <http://www.14wcee.org>.

CONTACT

For requests about registration, visa application, hotel and tour reservation, payment and confirmation please contact:

China International Conference Center for Science and Technology (PCO of 14WCEE)

No. 86 Xueyuan Nanlu, Beijing 100081, China

Tel: +86-10-62103106

Fax: +86-10-62174126

Email: pco@14wcee.org

<http://www.14wcee.org>

<http://www.14wcee.com>

<http://www.14wcee.net>

For requests about abstract submission, scientific and other academic issues please contact:

14WCEE Secretariat

c/o Chinese Association of Earthquake Engineering

9 Xuefu Road, Harbin 150080

China

Tel: +86-451-86652900

Fax: +86-451-86652651

Email: secretariat@14wcee.org

<http://www.14wcee.org>

<http://www.14wcee.com>

<http://www.14wcee.net>

VENUE

BEIJING JIUHUA SPA & RESORT



In the east of the Changping District of Beijing lies the Jiuhua Spa & Resort. As a royal palace in the old days, Jiuhua features a wealth of history and culture, which is reflected in its Ming & Qing style architecture and wonderful facilities. Next to the 6th Ring Road and only thirty minutes drive from the Beijing Capital International Airport, Jiuhua is the nearest Spa & Resort to downtown Beijing. It provides 2400 guestrooms and suites, many restaurants featuring various cuisines, more than 100 meeting rooms and a variety of entertainment services. The Convention and Exhibition Center at the Jiuhua Spa & Resort is well equipped, supporting a high standard of service and catering to large conventions up to 3500 participants. Jiuhua's Xiaotangshan Hot Spring is one of China's four major hot springs, abundantly rich in minerals and elements which are beneficial to one's overall health and frequently used for medical treatment.



14th WORLD CONFERENCE ON EARTHQUAKE ENGINEERING

Steering Committee

President:

HUI Liangyu Vice Premier, State Council, China

Members:

JIANG Weixin Minister, Ministry of Housing and Urban-Rural
Development, China

GUO Jinlong Mayor, Beijing Municipal People's Government,
China

SONG Ruixiang Former Director General, China Earthquake
Administration



14th WORLD CONFERENCE ON EARTHQUAKE ENGINEERING

Local Organizing Committee

President:

CHEN Jianmin Director General, China Earthquake Administration

Vice Presidents:

HUANG Wei Vice Minister, Ministry of Housing and Urban-Rural
Development, China

CHEN Gang Vice Mayor, Beijing Municipal People's Government,
China

LIU Yuchen Deputy Director General, China Earthquake
Administration

ZHAO Qiping Vice Minister, Ministry of Education, China

LIU Yanhua Vice Minister, Ministry of Science and Technology,
China

DING Zhongli Vice President, Chinese Academy of Sciences

DU Xiangwan Vice President, Chinese Academy of Engineering

SUN Jiaguang Vice President, National Natural Science Foundation of
China

QI Rang Vice President, China Association for Science and
Technology

XIE Lili President of Chinese Association of Earthquake
Engineering, Vice President of IAEE

Committee members:

HE Zhende	WU Huijuan	ZHANG Yi	LI Junhua
XIE Huanzhong	WU Mingshan	CHANG Xu	GAO Zhongqi
CHAI Yucheng	LI Ming	ZHANG Hongwei	NIU Zhijun
LI Ke	LU Shoude	HUANG Jianfa	

Secretary General:

LIU Yuchen

Deputy Secretary Generals:

ZENG Shaohua	XIE Huanzhong	WU Mingshan	CHANG Xu
GAO Zhongqi	CHAI Yucheng	ZHAO Ming	QI Xiaozhai
WANG Yayong	HU Chunfeng		



14th WORLD CONFERENCE ON EARTHQUAKE ENGINEERING

Scientific Committee

Chairmen:

XIE, Lili (China), HU, Yuxian (China)

Members:

ANAGNOSTOPOULOS, Stavros A. (Greece)

BLAZQUEZ, Rafael (Spain)

CARDONA, Omar D. (Colombia)

CHEN, Houqun (China)

CHERRY, Sheldon (Canada)

ESTEVA, Luis (Mexico)

FACCIOLI, E. (Italy)

FAN, Lichu (China)

GHAFORY-ASHTIANY, Mohsen (Iran)

GULKAN, Polat (Turkey)

HOPKINS, David C. (New Zealand)

IEMURA, Hirokazu (Japan)

JAIN, Sudhir K. (India)

KATAYAMA, Tsuneo (Japan)

LEE, George (USA)

LIAO, Zhenpeng (China)

LIN, Gao (China)

LOH, Chin-Hsiung (Chinese Taiwan)

MOEHLE, Jack P. (USA)
O'ROURKE, Thomas D. (USA)
OTANI, Shunsuke (Japan)
OU, Jinping (China)
PAN, Tso-Chien (Singapore)
PENZIEN, Joseph (USA)
SHAH, Haresh (USA)
SHEN, Zuyan (China)
SPENCER, B. F. (USA)
WANG, Guangyuan (China)
ZHANG, Chuhan (China)
ZHOU, Fulin (China)
ZHOU, Xiyuan (China)

Secretary General:

WANG, Zifa (China)



14th WORLD CONFERENCE ON EARTHQUAKE ENGINEERING

Regular Session

Topics and Coordinators

01 Lessons learned from recent earthquakes

BELAZOUGUI, Mohamed (Algeria) E-mail: cgsd@wissal.dz

SUN Baitao (China) E-mail: sunbt@iem.ac.cn

02 Observation and analysis of ground motions

SEO, Kazuoh (Japan) E-mail: seo@enveng.titech.ac.jp

LI Xiaojun (China) E-mail: beerli@vip.sina.com

03 Engineering seismology

MILUTINOVIC, Zoran (Macedonia) E-mail: zoran@pluto.iziis.ukim.edu.mk

WEN Kuo-Liang (Chinese Taiwan) E-mail: wenkl@ncree.org

04 Geotechnical engineering

LAW K. Tim (Canada) E-mail: tim_law@carleton.ca

ZHANG Jianmin (China) E-mail: zhangjm@mail.tsinghua.edu.cn

05 Structural engineering

KASAI, Kazuhiko (Japan) E-mail: kasai@serc.titech.ac.jp

BLAZQUEZ, Rafael (Spain) E-mail: rafael.blazquez@uclm.es

LU Xilin (China) E-mail: lxlst@mail.tongji.edu.cn

06 Lifeline systems

O'ROURKE, Thomas D. (USA) E-mail: tdo1@cornell.edu

LI Jie (China) E-mail: lijie@mail.tongji.edu.cn

07 Seismic hazard analysis and zonation

GIARDINI, Domenico (Switzerland) E-mail: giardini@sed.ethz.ch

ZHANG Peizhen (China)

E-mail: peizhen@ies.ac.cn

08 Seismic codes and standards

ESTEVA, Luis (Mexico)

E-mail: LEstevaM@iingen.unam.mx

WANG Yayong (China)

E-mail: yayongwang@sina.com

09 Earthquake risk reduction for urban and rural areas

SUHADOLC, Peter (Italy)

E-mail: suhadolc@dst.units.it

WU Zhongliang (China)

E-mail: wuzhl@gucas.ac.cn

10 Social and economic impacts of earthquakes

TATANO, Hirokazu (Japan)

E-mail: tatano@imdr.dpri.kyoto-u.ac.jp

LIU Weiqing (China)

E-mail: wqliu@njut.edu.cn

11 Emerging technologies in earthquake engineering

IEMURA, Hirokazu (Japan)

E-mail: iemura@catfish.kuciv.kyoto-u.ac.jp

SPENCER, B.F. (USA)

E-mail: bfs@uiuc.edu

OU Jinping (China)

E-mail: oujinpings@hit.edu.cn

12 Experimental studies

MAHIN, Stephen (USA)

E-mail: mahin@ce.berkeley.edu

TSAI Keh-Chyuan (Chinese Taiwan)

E-mail: kctsai@ncree.org.tw

13 Earthquake and multi-hazards

LEE, George (USA)

E-mail: gcleeb@buffalo.edu

WANG Lanmin (China)

E-mail: wanglm@gssb.gov.cn

14 Numerical methods in earthquake engineering

HAO Hong (Australia)

E-mail: hao@civil.uwa.edu.au

DU Xiuli (China)

E-mail: duxl@iwhr.com

15 Tsunami

KING, Andrew (New Zealand)

E-mail: a.king@gns.cri.nz

KO Jan-ming (China)

E-mail: cejmko@inet.polyu.edu.hk

Special Session

Topics and Conveners

S01 Earthquake Risk & Insurance

S01-01 Micro-Credit and Micro-Insurance for Earthquake Disaster Mitigation

SHAH, Haresh

E-mail: hshah@stanford.edu

S01-02 From Science and Technology to Insurance: Earthquake Insurance as a Risk

Mitigation Measure

DONG, Weimin

E-mail: weimind@rms.com

S02 Researches on Earthquake Prediction

ZHANG, Guomin

E-mail: gmzhang@seis.ac.cn

ZHANG, Xiaodong

E-mail: zxd@seis.ac.cn

S03 Earthquake Risk in Low and Medium Seismicity Regions

ELNASHAI, Amr S.

E-mail: aelnash@uiuc.edu

S04 Open Seismic Risk Analysis

SCAWTHORN, Charles

E-mail: cscawthorn@att.net

S05 JAEF Special Sessions

S05-01 Spectacular Projects of Base-Isolated Buildings

WADA, Akira

KOBORI, Toru

E-mail: Kobori@nikken.co.jp

S05-02 Spectacular Projects of Passively-Controlled Buildings

MARTELLI, Alessandro

KASAI, Kazuhiko

E-mail: kasai@serc.titech.ac.jp

S05-03 Earthquake Early Warning System

MOTOSAKA, Masato

E-mail: motosaka@archi.tohoku.ac.jp

FUJINAWA, Yukio

S06 Recent Contributions of the China-US Cooperative Research Program in

Earthquake Engineering

LEE, George C.

E-mail: gcllee@buffalo.edu

QI, Xiaozhai

E-mail: qxziem@126.com

S07 Historical Aspects of Earthquake Engineering

REITHERMAN, Robert

E-mail: reitherman@curee.org

S08 Architecture and Earthquake Engineering

CHARLESON, Andrew

E-mail: andrew.charleson@vuw.ac.nz

S09 Earthquake Engineering Research and Practices in Seasonally Frozen and Permafrost Conditions

YANG, Z. (Joey)

E-mail: afzy@uaa.alaska.edu

DUTTA, Utpal

E-mail: afud@uaa.alaska.edu

SRITHARAN, Sri

E-mail: sri@iastate.edu

S10 Long-period ground motions and their impacts on large-scale structures

KOKETSU, Kazuki

E-mail: koketsu@eri.u-tokyo.ac.jp

GRAVES, Robert W.

MEGAWATI, Kusnowidjaja

HEATON, Thomas H.

S11 Assessment and Rehabilitation of Historical Buildings

MONTI, Giorgio

E-mail: giorgio.monti@uniroma1.it

S12 Seismic Design of Wood Frame Buildings

VAN DE LINDT, John W.

E-mail: jvw@engr.colostate.edu

S13 Seismic Aspects of Large Embankment and Concrete Dams

WIELAND, Martin

E-mail: martin.wieland@poyry.com

CHEN, Houqun

E-mail: chenhq@iwhr.com

S14 Seismic Design Optimization

PAPADRAKAKIS, Manolis

E-mail: mpapadra@central.ntua.gr

LAGAROS, Nikos D.

E-mail: nlagaros@central.ntua.gr

FRAGIADAKIS, Michalis

E-mail: mfrag@central.ntua.gr

**S15 Collapse simulation and seismic assessment of existing reinforced concrete buildings
- Realistic experimental verification and rigorous analytical modeling**

MOEHLE, Jack

E-mail: moehle@berkeley.edu

KABEYASAWA, Toshimi

E-mail: kabe@eri.u-tokyo.ac.jp

S16 Network for Earthquake Engineering Simulation (NEES) Special Sessions

S16-01 NEES Collaboratory Research Advances

LEON, Roberto T.

E-mail: rleon@ce.gatech.edu

WHITMER, John

E-mail: john.whitmer@nees.org

S16-02 NEES Collaboratory Innovations in Research Methods

McCabe, Steven L.

E-mail: steve.mccabe@nees.org

WHITMER, John

E-mail: john.whitmer@nees.org

S17 E-Defense Special Sessions

**S17-01 E-Defense Steel - Full-Scale Shake Table Tests and Analyses on Conventional,
Value-Added, and Innovative Multi-Story Steel Buildings**

KASAI, Kazuhiko

E-mail: kasai@serc.titech.ac.jp

MAHIN, Stephen

**S17-02 E-Defense Bridge - Verification of Seismic Performance of Bridge Structures
Utilizing Large-Scale Shaking Table**

KAWASHIMA, Kazuhiko

E-mail: kawashima.k.ae@m.titech.ac.jp

S17-03 International Collaboration - Experiences and Challenges for Sharing

Large-Scale Testing Facilities and Sharing and Disseminating Experimental Information

NAKASHIMA, Masayoshi

E-mail: nakashima@archi.kyoto-u.ac.jp

LEON, Roberto

E-mail: rleon@ce.gatech.edu

S18 Earthquake Disaster Mitigation on Non-engineered Houses

ISHIYAMA, Yuji

E-mail: narafu@kenken.go.jp

S19 Fire Resistance of Structures Subsequent to Seismically Induced Damage

USMANI, Asif S

E-mail: asif.usmani@ed.ac.uk

S20 Seismic Risk Reduction of Operational and Functional Components for Buildings

FOO, Simon

E-mail: simon.foo@pwgsc.gc.ca

S21 Quantifying Seismic Resilience

BRUNEAU, Michel

E-mail: bruneau@buffalo.edu

S22 Information Networking on "Implementation Technology" for Earthquake Disaster Reduction - with a framework from the Disaster Reduction Hyperbase (DRH) Initiative

KAMEDA, Hiroyuki

E-mail: kameda@edm.bosai.go.jp

GHAFORY-ASHTIANY, Mohsen

S23 Information sharing and educational initiatives for improving global seismic safety

MURTY, CVR

E-mail: [cvm@iitk.ac.in](mailto:cvr@iitk.ac.in)

SUN, Baitao

E-mail: sunbt@iem.ac.cn

COMARTIN, Craig D.

E-mail: ccomartin@comartin.net

S24 Dr. Kobori Memorial Session

Wilfred D. Iwan

E-mail: wdiwan@caltech.edu

Yoshiyuki Suzuki

E-mail: suzuki@zeisei.dpri.kyoto-u.ac.jp

S25 From Kyoto to Beijing: 20 years of structural control

Fabio Casciati

E-mail: fabio@dipmec.unipv.it

S26 Recent Geotechnical Findings in Destructive Near-Field Earthquakes

Takaji Kokusho

E-mail: kokusho@civil.chuo-u.ac.jp

S27 IASPEI-IAEE Special session on "Dialogue Between Seismologist and Earthquake Engineers On Effective Earthquake Risk Reduction Implementation"

Mohsen Ghafory-Ashtiany

E-mail: ashtiany@iiees.ac.ir

Peter Suhadolc

Zhongliang Wu

Luis Esteva

Hirokazu Iemura

Polat Gulkan

S28 Experimental and analytical investigation of near-source effects on structures

C.C. Spyrakos

E-mail: spyrakos@hol.gr

S29 Seismic Technologies for Rural Dwellings and Model Projects

Wang Lanmin

E-mail: wanglm@gssb.gov.cn

Yuan Zhongxia

S30 ASCE Special session

Alex Tang

E-mail: alexktang@mac.com

S31 Wenchuan Earthquake Special Session

LU Xilin

E-mail: lxlst@mail.tongji.edu.cn

SUN Baitao

E-mail: sunbt@iem.ac.cn



14th WORLD CONFERENCE ON EARTHQUAKE ENGINEERING

International Working Group

CASCIATI, Fabio (Italy)

CHANG, Sung Pil (Korea)

DONG, Weimin (USA)

HAUSEN, Maria (Spain)

HU, Chunfeng (China)

IEMURA, Hirokazu (Japan)

INGHAM, Jason (New Zealand)

KIREMIDJIAN, Anne (USA)

KO, Jan-ming (Hongkong, China)

LAM, Nelson Tung-Kiu (Australia)

LEE, George (USA)

LIU, Shih-Chi (USA)

QI, Xiaozhai (coordinator) (China)

SPENCER, Bill (USA)

SYRMAKEZIS, Costas (Greece)

TSAI, Keh-Chyuan (Chinese Taiwan)

TUBBESING, Susan K. (USA)

XU, Zhizhong (China)

ZHAO, Ming (China)