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State Key Laboratory of Disaster Reduction in Civil Engineering



College of Civil Engineering, Tongji University

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National Natural Science Foundation of China



Tongji University

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Program at a glance

Thursday, December 11		
12:00-22:00	Registration	Room 525, Kingswell Hotel-Tongji 50 Zhangwu Road, Yangpu District, Shanghai Main Lobby, Tongji Guest House 69 Zhangwu Road, Yangpu District, Shanghai
Friday, December 12		
08:30-09:10	Opening Ceremony	Lecture Hall, Office Building(1F), Architectural Design and Research Institute of Tongji University Co., Ltd (ADRI) 281 Fuxin Road, Yangpu District, Shanghai
09:10-10:19	Plenary Session 1	Lecture Hall, Office Building (1F), ADRI
10:19-10:35	Coffee Break	Office Building (1F), ADRI
10:35-12:07	Plenary Session 2	Lecture Hall, Office Building (1F), ADRI
12:07-13:30	Lunch	Dining Hall, Office Building (1F), ADRI
13:30-14:39	Plenary Session 3	Lecture Hall, Office Building (1F), ADRI
14:39-14:50	Coffee Break	Office Building (1F), ADRI
14:50-16:14	Parallel Session 1A	Lecture Hall, Office Building (1F), ADRI
14:50-16:14	Parallel Session 1B	Room 108, Office Building (1F), ADRI
14:50-16:14	Parallel Session 1C	Room 103, Office Building (1F), ADRI
14:50-16:14	Parallel Session 1D	Room 107, Office Building (1F), ADRI
16:14-16:25	Coffee Break	Office Building (1F), ADRI
16:25-17:49	Parallel Session 2A	Lecture Hall, Office Building (1F), ADRI
16:25-17:49	Parallel Session 2B	Room 108, Office Building (1F), ADRI
16:25-17:49	Parallel Session 2C	Room 103, Office Building (1F), ADRI
16:25-18:01	Parallel Session (S)	Room 107, Office Building (1F), ADRI
18:30-20:30	Banquet	Tang Dynasty (2F) 18 Zhangwu Road, Yangpu District, Shanghai
Saturday, December 13		
08:30-10:25	Plenary Session 4	Lecture Hall, Office Building (1F), ADRI
10:25-10:40	Coffee Break	Office Building (1F), ADRI
10:40-12:12	Plenary Session 5	Lecture Hall, Office Building (1F), ADRI
12:12-13:30	Lunch	Dining Hall, Office Building (1F), ADRI
13:30-15:02	Plenary Session 6	Lecture Hall, Office Building (1F), ADRI
15:02-15:15	Coffee Break	Office Building (1F), ADRI
15:15-16:24	Plenary Session 7	Lecture Hall, Office Building (1F), ADRI
16:24-16:35	Coffee Break	Office Building (1F), ADRI
16:35-18:05	Free Discussion	Lecture Hall, Office Building (1F), ADRI
18:30-20:00	Dinner	Restaurant (1F), Tongji Guest House
Sunday, December 14		
08:00-11:00	Technical Visit	Multi-functional Shaking Table Laboratory, Jiading Campus of Tongji University 4800 Caoan Highway, Jiading District, Shanghai



Thursday, December 11, 2014

12:00-22:00 Registration

Room 525, Kingswell Hotel-Tongji

<http://www.kingswelltongji.com/home.html>

50 Zhangwu Road, Yangpu District, Shanghai

Tel: +86-21-33626868

Main Lobby, Tongji Guest House

69 Zhangwu Road, Yangpu District, Shanghai

Tel: +86-21-65016969

Friday, December 12, 2014

08:30-09:10 Opening Ceremony

Lecture Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd.

281 Fuxin Road, Yangpu District, Shanghai

Chair: [Xilin Lu](#), Organizing Committee Chair (Tongji University, China)

Opening Address

[Jinming Ma](#), Vice President of Tongji University, China

[Yaojun Ge](#), Director of State Key Laboratory of Disaster Reduction in Civil Engineering, Tongji University, China

[Huanjun Jiang](#), Chair of Research Institute of Structural Engineering and Disaster Reduction, Tongji University, China

Group Photo

09:10-10:19 Plenary Session 1

Lecture Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd.

Chair: [Ian Buckle](#) (University of Nevada at Reno, USA)

Note: 20-minute oral presentation; 3-minute Q/A.

- 09:10-09:33 Towards the resilient design of tall buildings
[Gregory G. Deierlein](#) (Stanford University, USA)
- 09:33-09:56 Seismic response of underground twin tunnels by the finite/infinite element method
[Yeong-bin Yang](#) (National Taiwan University, Chinese Taipei; Chongqing University, China)
- 09:56-10:19 Integration and cooperation of European research infrastructures in earthquake engineering
[Fabio Taucer](#) (ELSA Unit, Joint Research Centre, European Commission, Italy)



10:19-10:35 Coffee Break

1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd.

10:35-12:07 Plenary Session 2

Lecture Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd.

Chair: [Songtao Xue](#) (Tohoku Institute of Technology, Japan)

Note: 20-minute oral presentation; 3-minute Q/A.

- 10:35-10:58 'Ductility' is 'damage', people don't want to live in damaged buildings
[Akira Wada](#) (Tokyo Institute of Technology, Japan)
- 10:58-11:21 Developments in the application of steel-plate concrete composite walls to safety-related nuclear structures
[Andrew Whittaker](#) (State University of New York at Buffalo, USA)
- 11:21-11:44 Analytical verifying the behavior of Saipai RCC Arch Dam during 2008 Wenchuan earthquake
[Houqun Chen](#) (China Institute of Water Resources and Hydropower Research, China)
- 11:44-12:07 Evaluation method of life-cycle seismic performance for offshore bridges based on a new chloride ions corrosion model
[Hongnan Li](#) (Dalian University of Technology, China)

12:07-13:30 Lunch

Dining Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd.

13:30-14:39 Plenary Session 3

Lecture Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd.

Chair: [Han Seon Lee](#) (Korea University, Korea)

Note: 20-minute oral presentation; 3-minute Q/A.

- 13:30-13:53 Nonlinear stochastic response analysis of concrete structures considering stochastic damage evaluation
[Jie Li](#) (Tongji University, China)
- 13:53-14:16 The new launched activities of the SEISM Institute
[Evelyne Foerster](#) (Atomic Energy Commission, France)
- 14:16-14:39 Design of a new large-scale structures testing equipment – HNU-MUST
[Yan Xiao](#) (University of Southern California, USA; Hunan University, China)



14:39-14:50 Coffee Break

1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd.

14:50-16:14 Parallel Session 1A

Lecture Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd.

Chair: [Khalid Mosalam](#) (University of California, Berkeley, USA)

Note: 10-minute oral presentation; 2-minute Q/A.

- 14:50-15:02 Mechanical performance and seismic failure control on high-rise diagrid tube structures
[Jun Teng](#) (Shenzhen Graduate School, Harbin Institute of Technology, China)
- 15:02-15:14 Dynamic instability issues in high-rise buildings subjected to extreme ground motions: a review of state-of-the-art
[Kohju Ikago](#) (Tohoku University, Japan)
- 15:14-15:26 Seismic performance of embedded steel plate concrete shear wall in high-rise buildings
[Qiyun Qiao](#) (Beijing University of Technology, China)
- 15:26-15:38 Challenges in seismic fragility estimation of reinforced concrete structures
[Bing Li](#) (Nanyang Technological University, Singapore)
- 15:38-15:50 Applications of fragility analysis to the new-generation performance-based earthquake engineering
[Dagang Lu](#) (Harbin Institute of Technology, China)
- 15:50-16:02 Simplified seismic assessment of tall buildings using Timoshenko beam model in low-to-moderate seismicity regions
[Ray K.L. Su](#) (The University of Hong Kong, China)
- 16:02-16:14 Study on collapse patterns of multi-story building structures under earthquake
[Junwu Dai](#) (Institute of Engineering Mechanics, China Earthquake Administration, China)

14:50-16:14 Parallel Session 1B

Room 108, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd.

Chair: [Sharlie Huffman](#) (BCMinistry of Transportation & Infrastructure, Canada)

Note: 10-minute oral presentation; 2-minute Q/A.

- 14:50-15:02 Support length requirements in skew bridges during earthquakes
[Ian Buckle](#) (University of Nevada at Reno, USA)
- 15:02-15:14 Study on the calculation method for hydrodynamic pressure of bridge piers in



- deep water under earthquakes
Bo Song (University of Science and Technology, Beijing, China)
- 15:14-15:26 Ultimate behavior of elevated girder bridge focusing on interaction between superstructure, rubber bearings and steel piers
Goto Yoshiaki (Nagoya Institute of Technology, Japan)
- 15:26-15:38 Quasi-static testing study of the double skin steel-concrete composite box piers of bridge
Zhouhong Zong (Southeast University, China)
- 15:38-15:50 Resilient bridge columns with copper-based shape memory alloy reinforcement
M. Saiid Saiidi (University of Nevada at Reno, USA)
- 15:50-16:02 Seismic performances of high-speed train bridges
Lizhong Jiang (Central South University, China)
- 16:02-16:14 Multiple shaking tables test for bridge models
Jianzhong Li (Tongji University, China)

14:50-16:14 **Parallel Session 1C**

Room 103, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd.

Chair: Yi Liu (Dalhousie University, Canada)

Note: 10-minute oral presentation; 2-minute Q/A.

- 14:50-15:02 Seismic performance of high-rise RC wall-type buildings in Korea
Han Seon Lee (Korea University, Korea)
- 15:02-15:14 An efficient time-domain explicit formulation method for nonlinear random vibration of large complex structures subjected to non-stationary seismic excitations
Cheng Su (South China University of Technology, China)
- 15:14-15:26 Advances on building structure seismic design in mountain areas
Yingmin Li (Chongqing University, China)
- 15:26-15:38 The experimental campaign and associated benchmark of the SMART 2013
Thierry Chaudat (Atomic Energy Commission, France)
- 15:38-15:50 Research and application of hybrid simulation
Bin Wu (Harbin Institute of Technology, China)
- 15:50-16:02 A new low-stories seismic and energy-saving building with precast sandwich panels
Feng Xiong (Sichuan University, China)
- 16:02-16:14 Response analysis of a tall frame-tube structure beyond the code-specification with energy-dissipated outriggers under long-period ground motions
Jianping Han (Lanzhou University of Technology, China)



14:50-16:14 Parallel Session 1D

Room 107, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd.

Chair: [Carlos Ventura](#) (University of British Columbia, Canada)

Note: 10-minute oral presentation; 2-minute Q/A.

- 14:50-15:02 Developments in buckling restrained brace with inspection windows
[Chong-Shien Tsai](#) (Feng Chia University, Chinese Taipei)
- 15:02-15:14 Earthquake mitigation and engineering application by using viscoelastic technique
[Zhaodong Xu](#) (Southeast University, China)
- 15:14-15:26 Advances in seismic isolation of existing buildings
[Bruno Briseghella](#) (Fuzhou University, China)
- 15:26-15:38 Random buckling of rubber bearing serially connected with column and verification using dynamic test
[Yongfeng Du](#) (Lanzhou University of Technology, China)
- 15:38-15:50 Next generation hybridized polymeric tuned composites for 21st century advances in earthquake engineering
[Thomas Attard](#) (University of Alabama at Birmingham, USA)
- 15:50-16:02 Performance evaluation of a tall building with damped outriggers
[Ping Tan](#) (Guangzhou University, China)
- 16:02-16:14 Experimental assessment of curved surface sliders under biaxial input motion
[Alberto Pavese](#) (University of Pavia, Italy)

16:14-16:25 Coffee Break

1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd.

16:25-17:49 Parallel Session 2A

Lecture Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd.

Chair: [Fabio Taucer](#) (ELSA Unit, Joint Research Centre, European Commission, Italy)

Note: 10-minute oral presentation; 2-minute Q/A.

- 16:25-16:37 Several novel techniques for seismic strengthening of structures and their applications
[Gang Wu](#) (Southeast University, China)
- 16:37-16:49 New methods to include fluid-structure interaction effects in seismic assessment of civil engineering infrastructure



- Najib Bouaanani (Polytechnique Montréal, Québec, Canada)
- 16:49-17:01 Model-free data-based structural restoring force and excitation identification for post-event behavior evaluation
- Bin Xu (Hunan University, China)
- 17:01-17:13 Seismic strengthening of R/C beam-column joints with wing walls
- Yasushi Sanada (Osaka University, Japan)
- 17:13-17:25 Fast retrofitting techniques and seismic assessment on new type piles
- Shaofei Jiang (Fuzhou University, China)
- 17:25-17:37 GPU-based high-performance computing for urban seismic damage prediction and visualization
- Xinzheng Lu (Tsinghua University, China)
- 17:37-17:49 Global reliability of nonlinear engineering structures subjected to strong earthquakes
- Jianbin Chen (Tongji University, China)

16:25-17:49 Parallel Session 2B

Room 108, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd.

Chair: Goto Yoshiaki (Nagoya Institute of Technology, Japan)

Note: 10-minute oral presentation; 2-minute Q/A.

- 16:25-16:37 Solution to improve seismic performance of high-rise concrete structures with shear walls
- Tao Wang (Institute of Engineering Mechanics, China Earthquake Administration, China)
- 16:37-16:49 Earthquake resilient multistory buildings at near fault regions using base isolation and rocking core-walls
- Marios Panagiotou (University of California, Berkeley, USA)
- 16:49-17:01 Experimental and numerical study of seismic performances of RC frame structure infill walls
- Changhai Zhai (Harbin Institute of Technology, China)
- 17:01-17:13 A new macroelement for pile foundations
- Panagiotis Kotronis (Ecole Centrale de Nantes, France)
- 17:13-17:25 Seismic response simulation of tall buildings considering resilient function
- Quan Gu (Xiamen University, China)
- 17:25-17:37 Development of resilient high-rise buildings
- Peng Pan (Tsinghua University, China)
- 17:37-17:49 Experimental study of buried pipe network subjected to earthquakes
- Wei Liu (Tongji University, China)



16:25-17:49 Parallel Session 2C

**Room 103, 1F, Office Building, Architectural Design and Research
Institute of Tongji University (Group) Co., Ltd.**

Chair: [Thierry Chaudat](#) (Atomic Energy Commission, France)

Note: 10-minute oral presentation; 2-minute Q/A.

- 16:25-16:37 Simulation of nonlinear behavior of UHTCC (ultra high toughness cementitious composites) column by vector mechanics
[Yuanfeng Duan](#) (Zhejiang University, China)
- 16:37-16:49 Performance-based seismic design of tall buildings in Vancouver Canada
[Tony Yang](#) (University of British Columbia, Canada)
- 16:49-17:01 Shaking table test of a full concrete cable stayed bridge model
[Yan Xu](#) (Tongji University, China)
- 17:01-17:13 The eigenvalue problem for cylindrical liquid-filled shells
[Britta Holtschoppen](#) (RWTH Aachen University, Germany)
- 17:13-17:25 Damping modification factors for structures subjected to near-fault earthquake motions
[Wuchuan Pu](#) (Wuhan University of Technology, China)
- 17:25-17:37 Comparative experimental study of vibration control effects of particle damper and tuned mass damper
[Zheng Lu](#) (Tongji University, China)
- 17:37-17:49 Model reference monitoring of earthquake-damaged structures: interstory drift estimation and nonlinearity assessment
[Jiazeng Shan](#) (Tongji University, China)

16:25-18:01 Parallel Session (S)

**Room 107, 1F, Office Building, Architectural Design and Research
Institute of Tongji University (Group) Co., Ltd.**

Chair: [Thomas Attard](#) (University of Alabama at Birmingham, USA)

Note: 10-minute oral presentation; 2-minute Q/A.

- 16:25-16:37 Influence of ground motion duration on structural collapse risk
[Reagan Chandramohan](#) (Stanford University, USA)
- 16:37-16:49 Numerical modeling and collapse safety assessment of an unbonded post-tensioned cast-in-place concrete wall
[Hao Wu](#) (Tongji University, China)
- 16:49-17:01 Quasi-static experimental tests of three full-scale concentric braced frames
[Barbara Simpson](#) (University of California, Berkeley, USA)
- 17:01-17:13 Multi-site real-time hybrid simulation of MR dampers for response reduction
[Xin Li](#) (Tongji University, China)



- 17:13-17:25 Seismic protection of building structures using a synergistic combination of multiple nonlinear energy sinks
Nicholas E. Wierschem (University of Illinois at Urbana-Champaign, USA)
- 17:25-17:37 A new elastomeric material damper: theory, experiment, and simulation
Shunming Gong (Tongji University, China)
- 17:37-17:49 Seismic analysis of reinforced concrete non-planar walls and buildings using three-dimensional beam-truss models
Yuan Lu (University of California, Berkeley, USA)
- 17:49-18:01 Seismic evaluation and retrofit of tall buildings
Shanshan Wang (University of California, Berkeley, USA)

18:30-20:30 Banquet

Tang Dynasty (2F)

18 Zhangwu Road, Yangpu District, Shanghai

Welcome address: Xianglin Gu, Dean of College of Civil Engineering,
Tongji University, China



Saturday, December 13, 2014

8:30-10:25 Plenary Session 4

Lecture Hall, 1F, Office Building, Architectural Design and Research
Institute of Tongji University (Group) Co., Ltd.

Chair: [M. Saiid Saiidi](#) (University of Nevada at Reno, USA)

Note: 20-minute oral presentation; 3-minute Q/A.

- 08:30-08:53 Earthquake loss assessment in China
[Baitao Sun](#) (Institute of Engineering Mechanics, China Earthquake Administration, China)
- 08:53-09:16 Hybrid simulation of coupled thermal and mechanical response of structures
[Bozidar Stojadinovic](#) (Swiss Federal Institute of Technology Zurich, Switzerland)
- 09:16-09:39 Unresolved issues in ground motion scaling, intensity measures and seismic demand modeling
[Sashi K. Kunnath](#) (University of California at Davis, USA)
- 09:39-10:02 Progress of earthquake engineering and damage of Fukushima No.1 nuclear power station
[Masanori Izumi](#) (Tohoku University, Japan)
- 10:02-10:25 Accelerated bridge construction detail in high seismicity area
[Philip Yen](#) (Federal highway administration, USA)

10:25-10:40 Coffee Break

1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd.

10:40-12:12 Plenary Session 5

Lecture Hall, 1F, Office Building, Architectural Design and Research
Institute of Tongji University (Group) Co., Ltd.

Chair: [Richard Sause](#) (Lehigh University, USA)

Note: 20-minute oral presentation; 3-minute Q/A.

- 10:40-11:03 Performance-based seismic design of tall buildings in the United States
[Jack Moehle](#) (University of California, Berkeley, USA)
- 11:03-11:26 Response control of two super tall buildings in Shanghai
[Xilin Lu](#) (Tongji University, China)
- 11:26-11:49 Developments in seismic-resilient steel structures
[Constantin Christopoulos](#) (University of Toronto, Canada)
- 11:49-12:12 Multiple disaster behavior and control of bridges
[Hui Li](#) (Harbin Institute of Technology, China)



12:12-13:30 Lunch

Dining Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd.

13:30-15:02 Plenary Session 6

Lecture Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd.

Chair: [Chong-Shien Tsai](#) (Feng Chia University, Chinese Taipei)

Note: 20-minute oral presentation; 3-minute Q/A.

- 13:30-13:53 Real-time hybrid earthquake simulations on steel frame structure with dampers
[Richard Sause](#) (Lehigh University, USA)
- 13:53-14:16 Studies on steel and composite frames with dampers by the test method simulating two distinct phases of forces
[Kazuhiko Kasai](#) (Tokyo Institute of Technology, Japan)
- 14:16-14:39 Improving FE models of tall buildings through field testing and monitoring
[Carlos Ventura](#) (University of British Columbia, Canada)
- 14:39-15:02 Structural response of bent caps in as-built and retrofitted reinforced concrete box-girder bridges
[Khalid Mosalam](#) (University of California, Berkeley, USA)

15:02-15:15 Coffee Break

1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd.

15:15-16:24 Plenary Session 7

Lecture Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd.

Chair: [Kohju Ikago](#) (Tohoku University, Japan)

Note: 20-minute oral presentation; 3-minute Q/A.

- 15:15-15:38 Fib model code for a concrete structures 2010
[Balazs Gyorgy Laszlo](#) (Budapest University of Technology and Economics, Hungary)
- 15:38-16:01 Durability based life-cycle design of concrete structures
[Weiliang Jin](#) (Zhejiang University, China)
- 16:01-16:24 Real-time hybrid simulation with shaker table coupled with structure actuators
[Shawn You](#) (MTS, USA)



16:24-16:35 Coffee Break

1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd.

16:35-18:05 Free Discussion for Forum Resolution

Lecture Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd.

Chairs:

[Gongkang Fu](#) (Illinois Institute of Technology, USA)

[David T. Lau](#) (Carleton University, Canada)

Recorder:

[Tony Yang](#) (University of British Columbia, Canada)

18:30-20:00 Dinner

Restaurant (1F), Tongji Guest House

69 Zhangwu Road, Yangpu District, Shanghai



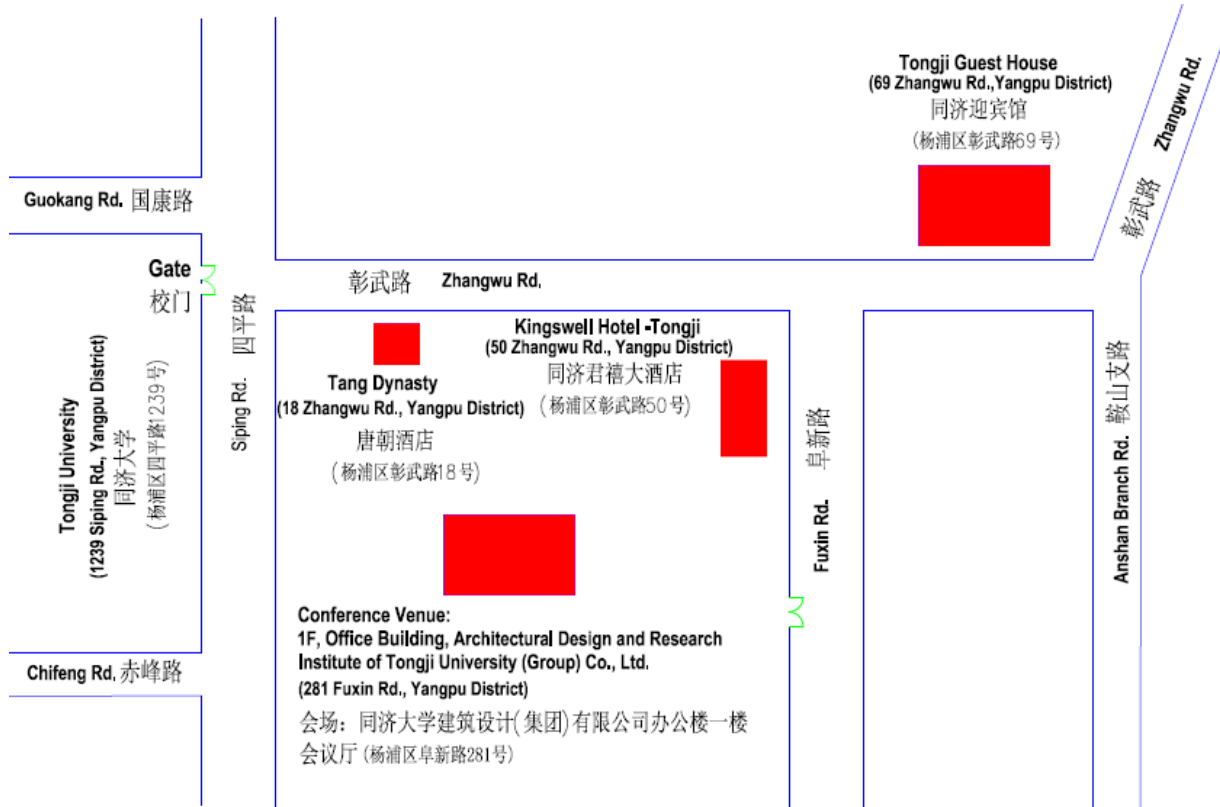
Sunday, December 14, 2014

08:00-11:00 Technical Visit

Multi-functional Shaking Table Laboratory, Jiading Campus, Tongji University

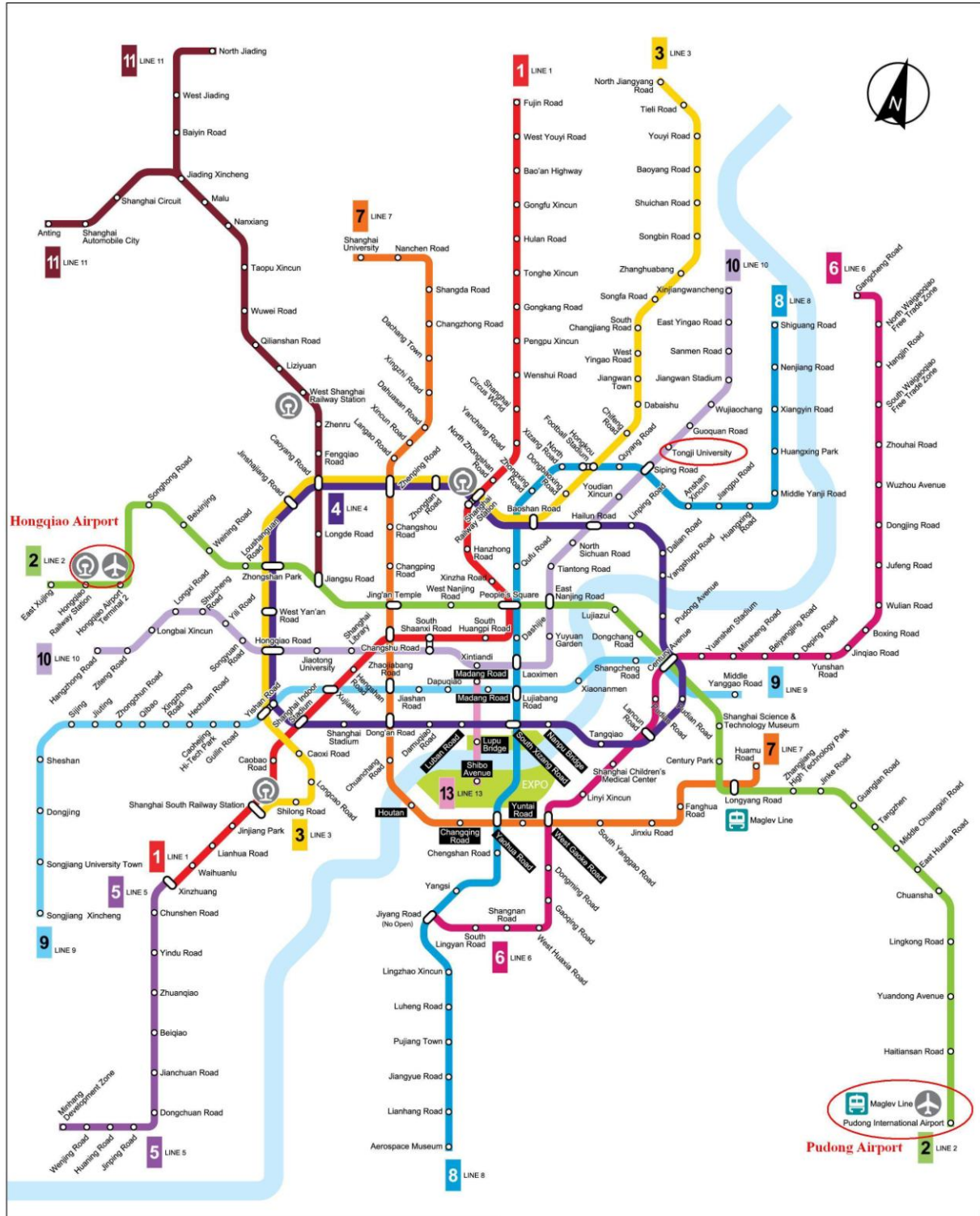
4800 Caoan Highway, Jiading District, Shanghai

Note: There will be shuttle buses taking the forum participants to **Jiading Campus**. Buses will depart from **the Kingswell Hotel-Tongji at 8:00 AM**.





Metro of Shanghai





Note: Taxis are available outside the terminal at ground floor of Pudong International Airport (PVG) at a cost of approximately RMB 180 and It takes about 60 minutes from PVG to the conference registration hotels (Tongji Guest House and Kingswell Hotel-Tongji), which are close to the campus of Tongji University. Attendees can also take metro. First take Line 2 at the station of Pudong International Airport; interchange the train at the station of Guanglan Road; and interchange for Line 10 at the station of East Nanjing Road; you need to take off at the station of Tongji University and then walk to the registration hotels.



Note: Taxis are available outside the terminal at ground level of Hongqiao Airport (SHA) at a cost of approximately RMB 120 and it takes about 50 minutes from SHA to the conference registration hotels (Tongji Guest House and Kingswell Hotel-Tongji), which are close to the campus of Tongji University. Attendees can also take metro. Take Line 10 at the station of Hongqiao Airport; take off at the station of Tongji University, and then walk to the registration hotels.

Note Page

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