December 9-11, 2016 Shanghai, China

Hosted by



State Key Laboratory of Disaster Reduction in Civil Engineering



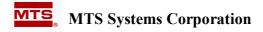
International Joint Research Laboratory of Earthquake Engineering



College of Civil Engineering, Tongji University

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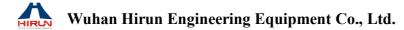
State Key Laboratory of Disaster Reduction in Civil Engineering
International Joint Research Laboratory of Earthquake Engineering
Tongji Research Center for New Technology of Earthquake Resistance and
Disaster Mitigation











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Program at a glance

Thursday, De	ecember 8	
12:00-22:00	Registration	Room 525, Kingswell Hotel-Tongji 同济君禧大酒店 525 房
		No.50 Zhangwu Road, Shanghai 彰武路 50 号
		Main Lobby (before 10 PM) or Room 1101 (after 10
		PM), Jinjiang Magnolia 锦江白玉兰宾馆
40.20 04.00	D. ffat	No.1251 Siping Road, Shanghai 四平路 1251 号
18:30-21:00	Buffet	Kingswell Hotel-Tongji(1F) 同济君禧大酒店一层
Friday, Decer	mhor O	No.50 Zhangwu Road, Shanghai 彰武路 50 号
08:30-09:05	Opening Ceremony	Lecture Hall, Office Building(1F), Architectural Design
06.30-09.03	Opening Ceremony	and Research Institute of Tongji University Co., Ltd.
		(ADRI)
		No.1230 Siping Road, Yangpu District, Shanghai
		同济大学建筑设计研究院,四平路 1230 号
09:05-10:45	Plenary Session 1	Lecture Hall, Office Building (1F), ADRI
10:45-11:00	Coffee Break	Office Building (1F), ADRI
11:00-12:15	Plenary Session 2	Lecture Hall, Office Building (1F), ADRI
12:15-13:20	Lunch	Dining Hall, Office Building (1F), ADRI
13:20-15:20	Parallel Session 1A	Lecture Hall, Office Building (1F), ADRI
13:20-15:20	Parallel Session 1B	Exhibition Hall, Office Building (1F), ADRI
13:20-15:20	Parallel Session 1C	Room 103, Office Building (1F), ADRI
13:20-15:20	Parallel Session 1D	Room 106, Office Building (1F), ADRI
13:20-15:20	Parallel Session 1E	Room 107, Office Building (1F), ADRI
15:20-15:35	Coffee Break	Office Building (1F), ADRI
15:35-17:50	Parallel Session 2A	Lecture Hall, Office Building (1F), ADRI
15:35-17:35	Parallel Session 2B	Multifunctional Room, Office Building (1F), ADRI
15:35-17:50	Parallel Session 2C	Room 103, Office Building (1F), ADRI
15:35-17:50	Parallel Session 2D	Room 106, Office Building (1F), ADRI
15:35-17:50	Parallel Session (S)	Room 107, Office Building (1F), ADRI
18:30-20:30	Banquet	Shanghai Classical Hotel(2F) 上海老饭店二层
		No. 242 Fuyou Road, Shanghai 福佑路 242 号
Saturday, De	cember 10	
08:30-10:10	Plenary Session 3	Lecture Hall, Office Building (1F), ADRI
10:10-10:25	Coffee Break	Office Building (1F), ADRI
10:25-12:05	Plenary Session 4	Lecture Hall, Office Building (1F), ADRI
12:05-13:20	Lunch	Dining Hall, Office Building (1F), ADRI
13:20-15:25	Plenary Session 5	Lecture Hall, Office Building (1F), ADRI
15:25-15:40	Coffee Break	Office Building (1F), ADRI
15:40-17:20	Free Discussion	Lecture Hall, Office Building (1F), ADRI
18:00-20:00	Dinner	Kunlun Hall(15F), Jinjiang Magnolia 锦江白玉兰宾馆 15 层
		No.1251 Siping Road, Shanghai 四平路 1251 号
Sunday, Dec		
08:30-11:30	Technical Visit	Route 1: Multi-functional Shaking Table Lab & Shanghai
		Automotive Wind Tunnel Center
		4800 Caoan Highway, Shanghai 同济大学嘉定校区
		Route 2: Shanghai Tower 上海中心
44.00 40 00	Lunah	479 Lujiazui Road, Shanghai 陆家嘴路 479 号
11:30-12:30	Lunch	Route 1: Dining Room, Tongji Jiading Campus Poute 2: Sanhaguru Dining Room/2E) Tongji University
		Route 2: Sanhaowu Dining Room(2F), Tongji University

Thursday, December 8, 2016

12:00-22:00 Registration

Room 525, Kingswell Hotel-Tongji 同济君禧大酒店, 525 房间

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

50 Zhangwu Road, Yangpu District, Shanghai 上海杨浦区彰武路 50 号

Tel: +86-21-33626868

Main Lobby (before 10 PM) or Room 1101 (after 10 PM), Jinjiang Magnolia

锦江白玉兰宾馆,大厅(晚上10点前)或1101房间(晚上10点后)

No.1251 Siping Road, Yangpu District, Shanghai 上海杨浦区四平路 1251 号

Tel: +86-21-65986888

18:30-21:00 Buffet

1st Floor, Kingswell Hotel-Tongji 同济君禧大酒店,一层自选餐厅

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

50 Zhangwu Road, Yangpu District, Shanghai

Tel: +86-21-33626868

Friday, December 9, 2016

08:30-09:05 Opening Ceremony

Lecture Hall, 1F, Office Building, Architectural Design and Research

Institute of Tongji University (Group) Co., Ltd.

1230 Siping Road, Yangpu District, Shanghai

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

08:30-08:40 Welcome Address

Xianglin Gu, Vice President of Tongji University, China

08:40-08:50 Introduction to International Joint Research Laboratory of Earthquake

Engineering (ILEE)

Xilin Lu, Director of Scientific Committee of ILEE

08:50-09:05 **Group Photo**

09:05-10:45 Plenary Session 1

Lecture Hall, 1F, Office Building, Architectural Design and Research

Institute of Tongji University (Group) Co., Ltd.

Chair: Keh-Chyuan Tsai (National Taiwan University, Chinese Taipei)

Note: 22-minute oral presentation; 3-minute Q/A.

09:05-09:30 On the civil engineering disasters and their mitigation

Lili Xie (Institute of Engineering Mechanics, China Earthquake Administration,

China)

09:30-09:55 Preservation of cultural heritage in earthquake-prone countries

Akira Wada (Tokyo Institute of Technology, Japan)

	The Seventh Kwang-Hua Forum on Innovations and Implementations in Earthquake Engineering Research
09:55-10:20	Research advances and prospects on evolution from earthquake hazard to engineering disaster in China - part of the major research program of NSFC
	Jinping Ou (Harbin Institute of Technology, China)
10:20-10:45	Near real-time monitoring of super tall buildings: a smartsync system
	Ahsan Kareem (University of Notre Dame, USA)
10:45-11:00	Coffee Break 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd.
11:00-12:15	Plenary Session 2 Lecture Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd. Chair: Tetsuo Kubo (University of Tokyo, Japan) Note: 22-minute oral presentation; 3-minute Q/A.
11:00-11:25	From ductility-based seismic design of concrete structures to design for resilience to multiple hazards <u>Michael N. Fardis</u> (University of Patras, Greece)
11:25-11:50	Long-period ground motion simulation and its impact on seismic response and performance monitoring of tall building Youlin Xu (Hong Kong Polytechnic University, Hong Kong, China)
11:50-12:15	Collapse simulation of non-ductile RC column under lateral load Sashi K. Kunnath (University of California at Davis, USA)
12:15-13:20	Lunch Dining Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd.
13:20-15:20	Parallel Session 1A Lecture Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd. Chair: Goto Yoshiaki (Nagoya Institute of Technology, Japan) Note: 12-minute oral presentation; 3-minute Q/A.
13:20-13:35	Development of bridge seismic performance testing protocols <u>Phillip Yen</u> (Tongji University, China)
13:35-13:50	Performance-based seismic retrofit design of girder bridges with damping-enhanced strengthening Genda Chen (Missouri University of Science and Technology, USA)



	Innovations and Implementations in Earthquake Engineering Research
13:50-14:05	Shake table studies of effect of skew on bridge abutment backfill response
	M. Saiid Saiidi (University of Nevada at Reno, USA)
14:05-14:20	Cases study of seismic damages of double-layer lattice space structures in 2013
	m 7.1 Lushan earthquake
	Junwu Dai (Institute of Engineering Mechanics, China Earthquake
	Administration, China)
14:20-14:35	Optimal strategies for controllable damping
	Eric A. Johnson (University of Southern California, USA)
14:35-14:50	Dynamic response analysis of super high rise building with displacement
	amplification damper
	Wenguang Liu (Shanghai University, China)
14:50-15:05	Study on dynamic structural response of lager absorber tower by shaking table
	test
	Bo Song (University of Science & Technology Beijing, China)
15:05-15:20	FE analysis of collapsing behavior of thin-walled steel piers in a 2-span
	elevated-girder bridge model subject to shake table accelerations
	Ebisawa Takemasa (Nagoya Institute of Technology, Japan)
40.00 47.00	
13:20-15:20	Parallel Session 1B
13:20-15:20	Exhibition Hall, 1F, Office Building, Architectural Design and Research
13:20-15:20	Exhibition Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd.
13:20-15:20	Exhibition Hall, 1F, Office Building, Architectural Design and Research
13:20-15:20	Exhibition Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd. Chair: Jenn-Shin Hwang (National Taiwan University of Science & Technology,
13:20-15:20 13:20-13:35	Exhibition Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd. Chair: Jenn-Shin Hwang (National Taiwan University of Science & Technology, Chinese Taipei)
	Exhibition Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd. Chair: Jenn-Shin Hwang (National Taiwan University of Science & Technology, Chinese Taipei) Note: 12-minute oral presentation; 3-minute Q/A.
	Exhibition Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd. Chair: Jenn-Shin Hwang (National Taiwan University of Science & Technology, Chinese Taipei) Note: 12-minute oral presentation; 3-minute Q/A. Current research on buckling restrained braces (BRBs) at Istanbul Technical
	Exhibition Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd. Chair: Jenn-Shin Hwang (National Taiwan University of Science & Technology, Chinese Taipei) Note: 12-minute oral presentation; 3-minute Q/A. Current research on buckling restrained braces (BRBs) at Istanbul Technical University
13:20-13:35	Exhibition Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd. Chair: Jenn-Shin Hwang (National Taiwan University of Science & Technology, Chinese Taipei) Note: 12-minute oral presentation; 3-minute Q/A. Current research on buckling restrained braces (BRBs) at Istanbul Technical University Oguz C. Celik (Istanbul Technical University, Turkey)
13:20-13:35	Exhibition Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd. Chair: Jenn-Shin Hwang (National Taiwan University of Science & Technology, Chinese Taipei) Note: 12-minute oral presentation; 3-minute Q/A. Current research on buckling restrained braces (BRBs) at Istanbul Technical University Oguz C. Celik (Istanbul Technical University, Turkey) Stochastic damage—reduction spectrum for seismic design of buildings with
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13:20-13:35 13:35-13:50	Exhibition Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd. Chair: Jenn-Shin Hwang (National Taiwan University of Science & Technology, Chinese Taipei) Note: 12-minute oral presentation; 3-minute Q/A. Current research on buckling restrained braces (BRBs) at Istanbul Technical University Oguz C. Celik (Istanbul Technical University, Turkey) Stochastic damage—reduction spectrum for seismic design of buildings with structural fuses Gang Li (Dalian University of Technology, China)
13:20-13:35 13:35-13:50	Exhibition Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd. Chair: Jenn-Shin Hwang (National Taiwan University of Science & Technology, Chinese Taipei) Note: 12-minute oral presentation; 3-minute Q/A. Current research on buckling restrained braces (BRBs) at Istanbul Technical University Oguz C. Celik (Istanbul Technical University, Turkey) Stochastic damage—reduction spectrum for seismic design of buildings with structural fuses Gang Li (Dalian University of Technology, China) On modeling uncertainty in earthquake soil structure interaction analysis
13:20-13:35 13:35-13:50 13:50-14:05	Exhibition Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd. Chair: Jenn-Shin Hwang (National Taiwan University of Science & Technology, Chinese Taipei) Note: 12-minute oral presentation; 3-minute Q/A. Current research on buckling restrained braces (BRBs) at Istanbul Technical University Oguz C. Celik (Istanbul Technical University, Turkey) Stochastic damage—reduction spectrum for seismic design of buildings with structural fuses Gang Li (Dalian University of Technology, China) On modeling uncertainty in earthquake soil structure interaction analysis Boris Jeremić (University of California at Davis, USA)
13:20-13:35 13:35-13:50 13:50-14:05	Exhibition Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd. Chair: Jenn-Shin Hwang (National Taiwan University of Science & Technology, Chinese Taipei) Note: 12-minute oral presentation; 3-minute Q/A. Current research on buckling restrained braces (BRBs) at Istanbul Technical University Oguz C. Celik (Istanbul Technical University, Turkey) Stochastic damage—reduction spectrum for seismic design of buildings with structural fuses Gang Li (Dalian University of Technology, China) On modeling uncertainty in earthquake soil structure interaction analysis Boris Jeremić (University of California at Davis, USA) Monitoring, seismic assessment and fast retrofitting technique system and
13:20-13:35 13:35-13:50 13:50-14:05	Exhibition Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd. Chair: Jenn-Shin Hwang (National Taiwan University of Science & Technology, Chinese Taipei) Note: 12-minute oral presentation; 3-minute Q/A. Current research on buckling restrained braces (BRBs) at Istanbul Technical University Oguz C. Celik (Istanbul Technical University, Turkey) Stochastic damage—reduction spectrum for seismic design of buildings with structural fuses Gang Li (Dalian University of Technology, China) On modeling uncertainty in earthquake soil structure interaction analysis Boris Jeremić (University of California at Davis, USA) Monitoring, seismic assessment and fast retrofitting technique system and engineering application of traditional ancient wooden structures
13:20-13:35 13:35-13:50 13:50-14:05 14:05-14:20	Exhibition Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd. Chair: Jenn-Shin Hwang (National Taiwan University of Science & Technology, Chinese Taipei) Note: 12-minute oral presentation; 3-minute Q/A. Current research on buckling restrained braces (BRBs) at Istanbul Technical University Oguz C. Celik (Istanbul Technical University, Turkey) Stochastic damage—reduction spectrum for seismic design of buildings with structural fuses Gang Li (Dalian University of Technology, China) On modeling uncertainty in earthquake soil structure interaction analysis Boris Jeremić (University of California at Davis, USA) Monitoring, seismic assessment and fast retrofitting technique system and engineering application of traditional ancient wooden structures Shaofei Jiang (Fuzhou University, China)



	Innovations and Implementations in Earthquake Engineering Research
14:35-14:50	Collapse behavior of reinforced concrete squat walls under axial and shear
	loads
	Ray K.L. Su (University of Hong Kong, Hong Kong, China)
14:50-15:05	Strong ground motion simulation and efficiency tests
	Guoxin Wang (Dalian University of Technology, China)
15:05-15:20	Duration effect of spectrally matched ground motion records on collapse
	resistance capacity evaluation of RC frame structures
	Jianping Han (Lanzhou University of Technology, China)
13:20-15:20	Parallel Session 1C
	B103, 1F, Office Building, Architectural Design and Research Institute of
	Tongji University (Group) Co., Ltd.
	Chair: Yin-Nan Huang (National Taiwan University, Chinese Taipei)
	Note: 12-minute oral presentation; 3-minute Q/A.
13:20-13:35	Physics-based simulation and high-fidelity visualization of fire following
	earthquake considering building seismic damage
	Xinzheng Lu (Tsinghua University, China)
13:35-13:50	Recent advancements in seismic design and nonlinear modelling of steel
	columns for performance-based earthquake engineering
	<u>Dimitrios Lignos</u> (Swiss Federal Institute of Technology, Switzerland)
13:50-14:05	Substructure online hybrid test method and its applications
	Tao Wang (Institute of Engineering Mechanics, China Earthquake
	Administration, China)
14:05-14:20	Seismic response prediction of the coupled long-span bridge and traffic system-
	a full-response strategy
44.00 44.05	Suren Chen (Colorado State University, USA)
14:20-14:35	Central Italy earthquakes from August 24 to October 30 2016, signal data and
	induced damages Comillo Nuti (Roma Tro University Italy)
14:35-14:50	<u>Camillo Nuti</u> (Roma Tre University, Italy) Formulation and implementation of a hypoplastic macroelement for single piles
14.55-14.50	in sand
	Panagiotis Kotronis (Ecole Centrale de Nantes, France)
14:50-15:05	An elastoplastic numerical substructure method for study of seismic damage
14.00 10.00	and failure process of super high-rise buildings
	Quan Gu (Xiamen University, China)
15:05-15:20	Parametric modeling and seismic analysis of RC structure based on secondary
. 5.55 . 6.25	development in ABAQUS
	Qiang Wang (Shenyang Jianzhu University, China)



42.00 45.00	Innovations and Implementations in Earthquake Engineering Research
13:20-15:20	Parallel Session 1D
	B106, 1F, Office Building, Architectural Design and Research Institute of
	Tongji University (Group) Co., Ltd.
	Chair: Ivo Vanzi (Pescara University, Italy)
	Note: 12-minute oral presentation; 3-minute Q/A.
13:20-13:35	Creating innovative seismic protective systems for civil structures using
	inerters—a review of the state of the art
	Kohju Ikago (Tohoku University, Japan)
13:35-13:50	Application and testing of hybrid mass dampers for Canton Tower
	Ping Tan (Guangzhou University, China)
13:50-14:05	Seismic energy dissipation device with displacement dependent stiffness for
	uniform energy dissipation along the building height
	Murat Dicleli (Middle East Technical University, Turkey)
14:05-14:20	Behavior of base isolation buildings under long period earthquake ground
	motions
	Taiki Saito (Toyohashi University of Technology, Japan)
14:20-14:35	Adaptive Rubber Bearings with Extremely High Damping
	Chong-Shien Tsai (Feng Chia University, Chinese Taipei)
14:35-14:50	Performance assessment of energy-dissipation light rocking frame and
	dynamic reliability analysis
	Yongfeng Du (Lanzhou University of Technology, China)
14:50-15:05	Integration algorithms for hybrid simulation to collapse
	Gilberto Mosqueda (University of California at San Diego, USA)
15:05-15:20	Experimental investigation of stress and damage characterization of steel beam
	buckling using magnetic memory signals
	Wei Wang (Xi`an University of Architecture and Technology, China)
13:20-15:20	Parallel Session 1E
	B107, 1F, Office Building, Architectural Design and Research Institute of
	Tongji University (Group) Co., Ltd.
	Chair: Yajie(Jerry) Lee (ImageCat, Inc, USA)
	Note: 12-minute oral presentation; 3-minute Q/A.
13:20-13:35	Behaviour and design procedure of elevated conical tanks under seismic and
	wind excitations
	Ashraf El Damatty (University of Western Ontario, Canada)
13:35-13:50	Time based fragility curves for typical buildings
	Feng Xiong (Sichuan University, China)
13:50-14:05	The natural hazards engineering research infrastructure (NHERI)—reducing the
	impact from earthquakes, windstorms and associated natural hazards tsunami



	innovations and implementations in Earthquake Engineering research
	and storm surge
	Julio Ramirez (Purdue University, USA)
14:05-14:20	Collapse mechanism of reinforced concrete multi-story frame
	Xun Guo (Institute of Disaster Prevention, China)
14:20-14:35	Hybrid simulations with large numerical models on Greek temples and
	large-span bridges
	Uwe E. Dorka (Universität Kassel, Germany)
14:35-14:50	Seismic performance and shaking table test investigation on the corroded
	coastal bridge piers with non-uniform corrosion
	Anxin Guo (Harbin Institute of Technology, China)
14:50-15:05	Recent research on multiple hazards of bridge engineering at NCREE
	Yu-Chi Sung (National Center for Research on Earthquake Engineering,
	Chinese Taipei)
15:05-15:20	Simplified loss estimation using Markov chain: case study for nonductile RC
	buildings in Victoria, BC, Canada
	Solomon Tesfamariam (University of British Columbia, Canada)
15:20-15:35	Coffee Break
	1F, Office Building, Architectural Design and Research Institute of Tongji
	University (Group) Co., Ltd.
15:35-17:50	Parallel Session 2A
15:35-17:50	Parallel Session 2A Lecture Hall, 1F, Office Building, Architectural Design and Research
15:35-17:50	Parallel Session 2A Lecture Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd.
15:35-17:50	Parallel Session 2A Lecture Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd. Chair: Yi Liu (Dalhousie University, Canada)
	Parallel Session 2A Lecture Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd. Chair: Yi Liu (Dalhousie University, Canada) Note: 12-minute oral presentation; 3-minute Q/A.
15:35-17:50 15:35-15:50	Parallel Session 2A Lecture Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd. Chair: Yi Liu (Dalhousie University, Canada)
	Parallel Session 2A Lecture Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd. Chair: Yi Liu (Dalhousie University, Canada) Note: 12-minute oral presentation; 3-minute Q/A. Repair and retrofitting of RC bridge piers to improve plastic dissipation and
	Parallel Session 2A Lecture Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd. Chair: Yi Liu (Dalhousie University, Canada) Note: 12-minute oral presentation; 3-minute Q/A. Repair and retrofitting of RC bridge piers to improve plastic dissipation and shear strength
15:35-15:50	Parallel Session 2A Lecture Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd. Chair: Yi Liu (Dalhousie University, Canada) Note: 12-minute oral presentation; 3-minute Q/A. Repair and retrofitting of RC bridge piers to improve plastic dissipation and shear strength Bruno Briseghella (Fuzhou University, China)
15:35-15:50	Parallel Session 2A Lecture Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd. Chair: Yi Liu (Dalhousie University, Canada) Note: 12-minute oral presentation; 3-minute Q/A. Repair and retrofitting of RC bridge piers to improve plastic dissipation and shear strength Bruno Briseghella (Fuzhou University, China) Seismic behavior of integral abutment bridges in high seismic zones
15:35-15:50 15:50-16:05	Parallel Session 2A Lecture Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd. Chair: Yi Liu (Dalhousie University, Canada) Note: 12-minute oral presentation; 3-minute Q/A. Repair and retrofitting of RC bridge piers to improve plastic dissipation and shear strength Bruno Briseghella (Fuzhou University, China) Seismic behavior of integral abutment bridges in high seismic zones Qiuhong Zhao (Tianjin University, China)
15:35-15:50 15:50-16:05	Parallel Session 2A Lecture Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd. Chair: Yi Liu (Dalhousie University, Canada) Note: 12-minute oral presentation; 3-minute Q/A. Repair and retrofitting of RC bridge piers to improve plastic dissipation and shear strength Bruno Briseghella (Fuzhou University, China) Seismic behavior of integral abutment bridges in high seismic zones Qiuhong Zhao (Tianjin University, China) Inertia mass damper and its application
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15:35-15:50 15:50-16:05 16:05-16:20 16:20-16:35	Parallel Session 2A Lecture Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd. Chair: Yi Liu (Dalhousie University, Canada) Note: 12-minute oral presentation; 3-minute Q/A. Repair and retrofitting of RC bridge piers to improve plastic dissipation and shear strength Bruno Briseghella (Fuzhou University, China) Seismic behavior of integral abutment bridges in high seismic zones Qiuhong Zhao (Tianjin University, China) Inertia mass damper and its application Katsuaki Sunakoda (Akita National University, Japan) Seismic behavior and design method of blind bolted CFST frames Jingfeng Wang (Hefei University of Technology, China) Effects and mechanical properties of large-span cable-stayed bridge with ultra
15:35-15:50 15:50-16:05 16:05-16:20 16:20-16:35	Parallel Session 2A Lecture Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd. Chair: Yi Liu (Dalhousie University, Canada) Note: 12-minute oral presentation; 3-minute Q/A. Repair and retrofitting of RC bridge piers to improve plastic dissipation and shear strength Bruno Briseghella (Fuzhou University, China) Seismic behavior of integral abutment bridges in high seismic zones Qiuhong Zhao (Tianjin University, China) Inertia mass damper and its application Katsuaki Sunakoda (Akita National University, Japan) Seismic behavior and design method of blind bolted CFST frames Jingfeng Wang (Hefei University of Technology, China) Effects and mechanical properties of large-span cable-stayed bridge with ultra high damping level damper caused by large-sized longitudinal fluid viscous



	Innovations and Implementations in Earthquake Engineering Research
16:50-17:05	Point estimates method for dynamical reliability assessment considering
	uncertainties of structural parameters
	Zhaohui Lu (Central South University, China)
17:05-17:20	Vector from intrinsic finite element (VFIFE) method for entire-process
	simulation of bridge seismic collapse
	Yuanfeng Duan (Zhejiang University, China)
17:20-17:35	Application and research on steel-concrete multi composite shear wall
17:35-17:50	Hongying Dong (Beijing University of Technology, China) Seismic collapse behavior of tall core-outrigger structure
17.00 17.00	Feifei Sun (Tongji University, China)
	<u>i cher dan</u> (Tongji diliversity, dilina)
15:35-17:50	Parallel Session 2B
	Exhibition Hall, 1F, Office Building, Architectural Design and Research
	Institute of Tongji University (Group) Co., Ltd.
	Chair: Thierry Chaudat (Atomic Energy Commission, France)
	Note: 12-minute oral presentation; 3-minute Q/A.
15:35-15:50	Pseudo-static and shaking table experiment on seismic performance of
	hollow-section high pier
	Changjiang Shao (Southwest Jiaotong University, China)
15:50-16:05	Experimental response of curved surface sliders under 2D and 3D input motion
	Alberto Pavese (University of Pavia, Italy)
16:05-16:20	Study on performance-based seismic strengthening RC pier using SFC precast
	segments
	Qingli Meng (Southwest University of Science and Technology, China)
16:20-16:35	Earthquake damages and lessons learned from recent earthquakes Ren-Zuo Wang (National Center for Research on Earthquake
	Engineering/National Taiwan University, Chinese Taipei)
16:35-16:50	Study on numerical method of soil-structure dynamic interaction and its
	application
	Yin Gu (Fuzhou University, China)
16:50-17:05	Beam hinge model and capacity vulnerability of fortified RC frames based on
	tests
	Yumei Wang (Institute of Engineering Mechanics, China Earthquake
	Administration, China)
17:05-17:20	Development of replaceable steel coupling beams for enhanced seismic
	resiliency of high-rise buildings
	Xiaodong Ji (Tsinghua University, China)
17:20-17:35	Seismic optimization design of water distribution network based on auto
	generation stagey



Wei Liu (Tongji University, China)

15:35-17:50	Parallel Session 2C B103, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd.
	Chair: Richard Henry (University of Auckland, New Zealand)
	Note: 12-minute oral presentation; 3-minute Q/A.
15:35-15:50	Test on antiseismic devices—dynamic tests temperature effect
	Roberto Dalpedri (Wuhan Hirun Engineering Equipment Co., LTD, China)
15:50-16:05	Damage monitoring of the RC frame shake table test
	Shuang Hou (South China University of Technology, China)
16:05-16:20	Study on seismic fragility modeling of high-rise base-isolated structure
	<u>Di Wu</u> (Guangzhou University, China)
16:20-16:35	An innovative lateral isolation system for a long-span cable-stayed bridge with
	heavyweight concrete girder in a high seismic region
	Zhongguo Guan (Tongji University, China)
16:35-16:50	Quantitative assessment of building resilience: a case study
	Zhe Qu (Institute of Engineering Mechanics, China Earthquake
	Administration, China)
16:50-17:05	Seismic design of joints in braced frames
	Yao Cui (Dalian University of Technology, China)
17:05-17:20	Characterization and representation of near-fault ground motions using
	cumulate peak point method
	Ning Li (Tianjin University, China)
17:20-17:35	Motion capture of NDI with high precision active infrared mark point
	Huakai Wu (Ruituotech Ltd, China)
17:35-17:50	Optical measurement of structures in civil engineering field
	Xianjun Wang (Dom 3d Ltd, China)
15:35-17:50	Parallel Session 2D
10.00	B106, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd.
	Chair: Alain Le Maoult (Atomic Energy Commission, France) Note: 12-minute oral presentation; 3-minute Q/A.
15:35-15:50	Application of modern control techniques on advances in shaking table
	experiment: floor response reproduction of high-rise buildings subjected to
	earthquakes
	Pei-Ching Chen (National Taiwan University, Chinese Taipei)
15:50-16:05	Seismic vulnerability analysis on large-span continuous bridges of high speed
	railway



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	Biao Wei (Central South University, China)
16:05-16:20	Experimental study on multi row slit shear walls made from low-yield-point steel
	<u>Liusheng He</u> (Tongji University, China)
16:20-16:35	Pilot study on multiple hazards issues for scoured bridges
	Chun-Chung Chen (National Center for Research on Earthquake Engineering,
	Chinese Taipei)
16:35-16:50	Seismic behavior of self-centering reinforced concrete wall with superelastic
	shape memory alloy bars
	Bin Wang (Hong Kong Polytechnic University, Hong Kong, China)
16:50-17:05	Seismic damage study of curved beam bridges in small radius
	Chiyu Jiao (Beijing University of Civil Engineering and Architecture, China)
17:05-17:20	Parallel time integration in hybrid simulation of structural systems
	Legia He (Fuzhou University, China)
17:20-17:35	Seismic collapse of high-rise steel and composite frames subjected to long
	period ground motion
	Yongtao Bai (Xi'an Jiaotong University, China)
17:35-17:50	The analysis of outrigger numbers and locations in outrigger-braced structures
	by using multi-objective genetic algorithm
	Yue Chen (Ningbo University of Technology, China)
15:35-17:50	Parallel Session (Student Session)
	B107, 1F, Office Building, Architectural Design and Research Institute of
	Tongji University (Group) Co., Ltd.
	Tongji University (Group) Co., Ltd. Chair: <u>Keiko Morita</u> (Fukuoka University, Japan)
	Chair: Keiko Morita (Fukuoka University, Japan) Note: 12-minute oral presentation; 3-minute Q/A.
15:35-15:50	Chair: Keiko Morita (Fukuoka University, Japan) Note: 12-minute oral presentation; 3-minute Q/A. Effects of long duration ground motion on the seismic performance and collapse
15:35-15:50	Chair: Keiko Morita (Fukuoka University, Japan) Note: 12-minute oral presentation; 3-minute Q/A. Effects of long duration ground motion on the seismic performance and collapse capacity of timber structures
	Chair: Keiko Morita (Fukuoka University, Japan) Note: 12-minute oral presentation; 3-minute Q/A. Effects of long duration ground motion on the seismic performance and collapse capacity of timber structures Yuxing Pan (University of British Columbia, Canada)
15:35-15:50 15:50-16:05	Chair: Keiko Morita (Fukuoka University, Japan) Note: 12-minute oral presentation; 3-minute Q/A. Effects of long duration ground motion on the seismic performance and collapse capacity of timber structures Yuxing Pan (University of British Columbia, Canada) Experimental study on seismic performance of laminated rubber bearings as
	Chair: Keiko Morita (Fukuoka University, Japan) Note: 12-minute oral presentation; 3-minute Q/A. Effects of long duration ground motion on the seismic performance and collapse capacity of timber structures Yuxing Pan (University of British Columbia, Canada) Experimental study on seismic performance of laminated rubber bearings as structural fuses
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	Chair: Keiko Morita (Fukuoka University, Japan) Note: 12-minute oral presentation; 3-minute Q/A. Effects of long duration ground motion on the seismic performance and collapse capacity of timber structures Yuxing Pan (University of British Columbia, Canada) Experimental study on seismic performance of laminated rubber bearings as structural fuses Nailiang Xiang (Tongji University, China) Testing of reinforced concrete walls with minimum vertical reinforcement
15:50-16:05 16:05-16:20	Chair: Keiko Morita (Fukuoka University, Japan) Note: 12-minute oral presentation; 3-minute Q/A. Effects of long duration ground motion on the seismic performance and collapse capacity of timber structures Yuxing Pan (University of British Columbia, Canada) Experimental study on seismic performance of laminated rubber bearings as structural fuses Nailiang Xiang (Tongji University, China) Testing of reinforced concrete walls with minimum vertical reinforcement Yiqiu Lu (University of Auckland, New Zealand)
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15:50-16:05 16:05-16:20 16:20-16:35	Chair: Keiko Morita (Fukuoka University, Japan) Note: 12-minute oral presentation; 3-minute Q/A. Effects of long duration ground motion on the seismic performance and collapse capacity of timber structures Yuxing Pan (University of British Columbia, Canada) Experimental study on seismic performance of laminated rubber bearings as structural fuses Nailiang Xiang (Tongji University, China) Testing of reinforced concrete walls with minimum vertical reinforcement Yiqiu Lu (University of Auckland, New Zealand) Design and validation procedures for innovative earthquake resilient structures Dorian Tung (University of British Columbia, Canada)



	innovations and implementations in Earthquake Engineering Research
16:50-17:05	Structural control with a double skin façade damper system
	Rui Zhang (University of New Hampshire, USA)
17:05-17:20	Characteristic parameters for long period ground motions
	Shunming Gong (Tongji University, China)
17:20-17:35	Stochastic optimization of buckling restrained braced frames under seismic
	loading
	<u>Jiaqi Xu</u> (Tongji University, China)
17:35-17:50	Research on the influencing factors for residual displacement of RC bridge
	columns subjected to earthquake loading
	Hu Cheng (Dalian University of Technology)

18:30-20:30 **Banquet**

Shanghai Classical Hotel

No. 242 Fuyou Road, Shanghai

Welcome address: Yaojun Ge, Director of State Key Laboratory of Disaster Reduction in Civil Engineering, Tongji University

Note: There will be shuttle buses taking the forum participants to the restaurant. Buses will depart from the conference venue (Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd.) at 18:00.

Saturday, I	<u>December 10, 2016</u>
8:30-10:10	Plenary Session 3
	Lecture Hall, 1F, Office Building, Architectural Design and Research
	Institute of Tongji University (Group) Co., Ltd.
	Chair: Songtao Xue_(Tohoku Institute of Technology, Japan/Tongji University,
	China)
	Note: 22-minute oral presentation; 3-minute Q/A.
08:30-08:55	Spectral seismic analysis of underground tunnels
	Yeong-Bin Yang (Chongqing University, China/National Taiwan University,
	Chinese Taipei)
08:55-09:20	Effect of out-of-plane loading on the in-plane seismic response of steel-plate
	concrete wall pier
	Andrew Whittaker (State University of New York at Buffalo, USA)
09:20-09:45	Structural shear wall systems with metal energy dissipation mechanism
	Guoqiang Li (Tongji University, China)
09:45-10:10	Shake table test and correlative analysis of full-scale steel building collapse
	caused by two-directional column deteriorations
	Kazuhiko Kasai (Tokyo Institute of Technology, Japan)

10:10-10:25 **Coffee Break**



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

	Omversity (Group) Goi, Ltd.
10:25-12:05	Plenary Session 4 Lecture Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd. Chair: David T. Lau (Carleton University, Canada) Note: 22-minute oral presentation; 3-minute Q/A.
10:25-10:50	Recent research activities at NCREE <u>Kuo-Chun Chang</u> (National Center for Research on Earthquake Engineering/National Taiwan University, Chinese Taipei)
10:50-11:15	Earthquake engineered systems: a pathway to structural resiliency <u>Phillip Gould</u> (Washington University in St.Louis / Saint Louis University, USA)
11:15-11:40	Deformable floor diaphragm connection for earthquake-resistant buildings to reduce acceleration and force responses <u>Richard Sause</u> (Lehigh University, USA)
11:40-12:05	Large-scale experiments on earthquake-resilient bridges for earthquakes and tsunamis <u>lan Buckle</u> (University of Nevada at Reno, USA)
12:05-13:20	Lunch Dining Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd.
12:05-13:20 13:20-15:00	Dining Hall, 1F, Office Building, Architectural Design and Research
	Dining Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd. Plenary Session 5 Lecture Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd. Chair: Shyh-Jiann Hwang (National Center for Research on Earthquake Engineering/National Taiwan University, Chinese Taipei) Note: 22-minute oral presentation; 3-minute Q/A. Toward a better understanding of the effects of subduction ground motions on the response of buildings
13:20-15:00	Dining Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd. Plenary Session 5 Lecture Hall, 1F, Office Building, Architectural Design and Research Institute of Tongji University (Group) Co., Ltd. Chair: Shyh-Jiann Hwang (National Center for Research on Earthquake Engineering/National Taiwan University, Chinese Taipei) Note: 22-minute oral presentation; 3-minute Q/A. Toward a better understanding of the effects of subduction ground motions on



Robert Tremblay (Ecole Polytechnique de Montreal, Canada)

14:35-15:00 Residual capacity of concrete buildings and other post-earthquake challenges

Kenneth Elwood (University of Auckland, New Zealand)

15:00-15:25 Review of 2011 Tohoku earthquake and preparation for Nankai Trough

earthquake

Masanori Izumi (Tohoku University, Japan)

15:25-15:40 Coffee Break

1F, Office Building, Architectural Design and Research Institute of Tongji

University (Group) Co., Ltd.

15:40-17:20 Free Discussion for Forum Resolution

Lecture Hall, 1F, Office Building, Architectural Design and Research

Institute of Tongji University (Group) Co., Ltd.

Chairs: Billie Spencer (University of Illinois at Urbana-Champaign, USA), and

Khalid Mosalam (University of California, Berkeley, USA)

Recorder: <u>Tony Yang</u> (Tongji University, China)

18:00-20:00 Dinner

Kunlun Hall (15F), Jinjiang Magnolia,

No.1251 Siping Road, Shanghai

Sunday, December 11, 2016

08:30-11:30 Technical Visit

Route 1: Multi-functional Shaking Table Laboratory, Jiading Campus,

Tongji University & Shanghai Automotive Wind Tunnel Center

4800 Caoan Highway, Jiading District, Shanghai

Route 2: Shanghai Tower

479 Lujiazui Rd., Shanghai

Note: There will be shuttle buses taking the forum participants to Jiading Campus or Shanghai

Tower. Buses will depart from the Kingswell Hotel-Tongji at 8:30 AM.

11:30-12:30 Lunch

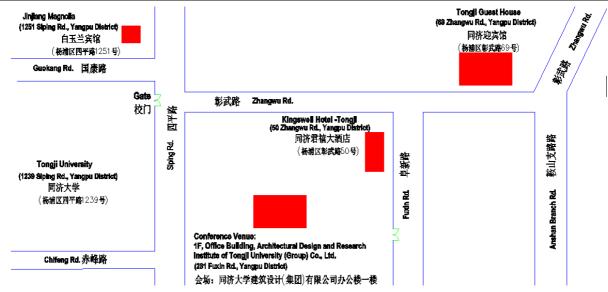
Route 1: Dining Room, Tongji Jiading Campus

4800 Caoan Highway, Jiading District, Shanghai

Route 2: Sanhaowu Dining Room (2F), Tongji University

No.1239 Siping Road, Shanghai



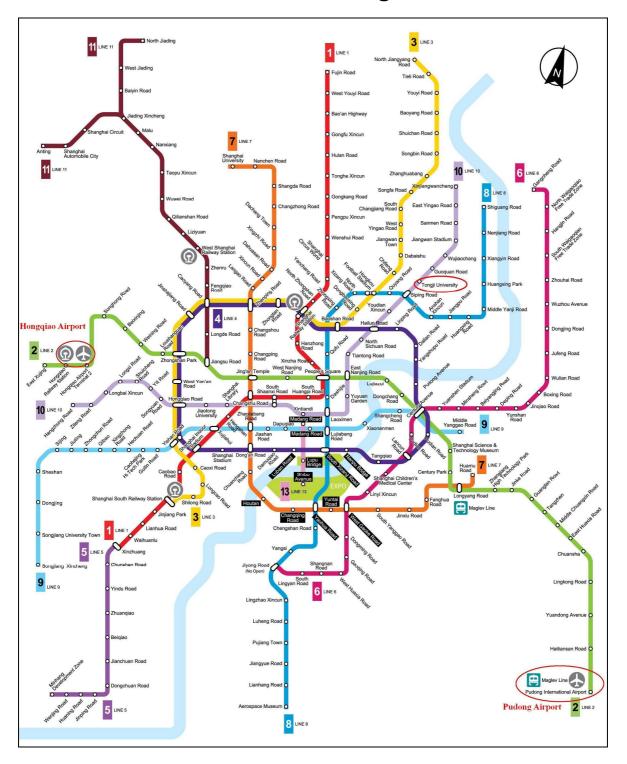








Metro of Shanghai





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 (Jinjiang Magnolia 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 (Jinjiang Magnolia 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.

<u>Note</u>