STESSA 2015

THE EIGHTH INTERNATIONAL CONFERENCE ON BEHAVIOUR OF STEEL STRUCTURES IN SEISMIC AREAS Shanghai, China, July 1-4, 2015

PROGRAM



Conference Organizers

Tongji University, Shanghai, China;

University of Naples "FEDERICO II", Naples, Italy

With supports by

State Key Laboratory of Disaster Reduction in Civil Engineering, Tongji University, Shanghai, China;

China Steel Construction Society;

China Construction Metal Structure Association, Steel Construction Sub-association;

Shanghai Metal Construction Society

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Organizations

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In total 30 members from 18 countries: Austria, Canada, Chile, China, Colombia, France, Greece, Italy, Japan, Korea, Mexico, Portugal, Romania, Spain, Switzerland, Turkey, United Kingdom and USA.

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Conference Information

Background and Objective

STESSA is the international specialty conference focused on the seismic design of steel structures. The STESSA Conference aims to enable researchers and engineers to present and assess the results from recent research on minimization of the earthquake damage, on seismic retrofit, and on the collapse behavior of steel structures. In addition, numerous research projects on steel structures using recently-commissioned large-scale earthquake simulation facilities are disseminated in the conference. STESSA is held every three years. The previous conferences were held in Timisoara (Romania 1994), Kyoto (Japan 1997), Montreal (Canada 2000), Naples (Italy 2003), Yokohama (Japan 2006), Philadelphia (United States 2009), and Santiago (Chile 2012). The main mission of STESSA conferences is to provide an opportunity for researchers and engineers to share their research, technology and expertise with their peers at an international forum.

Following the great success of previous conferences, Tongji University was selected to host the 8th International Conference on Behavior of Steel Structures in Seismic Areas (STESSA 2015) in Shanghai on July 1-4, 2015.

Conference Themes

The results of recent research from all over the world in the field of steel structures in seismic areas will be represented in STESSA15 by experts from 25 countries. The papers are subdivided into the following working sessions.

- Performance-Based Design of Structures;
- Resilience Enhancement Technology;
- Member Behaviour;
- Connection Behaviour;
- Global Behaviour;
- Analytical and Experimental Methods;
- Mixed and Composite Structures;
- Passive, Semi-active and Active Control;
- Codification, Design, and Practice;
- Earthquake, Wind and Exceptional Loads.

Conference Venue and Transportation

The Conference will be held at the Tongji Architectural Design (TJAD) (Group) Co., Ltd.

Address: No. 1230 Siping Road, Shanghai, 200092, China

There are two airports in Shanghai: Pudong International Airport (**PVG**) and Hongqiao International Airport (**SHA**). Taking a taxi will cost you around 200/100RMB from PVG/SHA to the conference venue. From Hongqiao International Airport, you may also take the Metro Line 10 and get off at the stop of **Tongji University**, which will take you about 1 hour. The conference venue is within walking distance from the Metro stop. The public transportation from Pudong International Airport to Tongji University will take you more than 2 hours with several transfers. You may take Metro Line 2 from Pudong International Airport and change to another Metro Line 2 at **Guanglan Road** (广兰路) **Stop**, afterwards transfer Metro Line 10 at **East Nanjing Road** (南京东路) **Stop** and get off at the stop of **Tongji University**. Another alternative is that you can take Airport Bus 4 and get off at **Wujiaochang** (五角场) **Stop**, then walk around 430m to transfer Metro Line 10 at Wujiaochang Stop and get off at the stop of **Tongji University**.

On-site Registration

Onsite Registration Hours:

Kingswell Hotel Tongji	Tuesday, June 30	14:00 - 21:00
Conference Venue (TJAD)	Wednesday, July 1	7:30 – 17:30
	Thursday, July 2	8:00 - 17:30
	Friday, July 3	8:00 - 15:30

Onsite Registration fees:

Delegate	USD 700	
Student	USD 450	
Accompanying person	USD 200	
Note: Payment by cash or card		

Note: Payment by cash or card.

Breaks / Lunches

Break stations to provide tea and coffee are located close to the session rooms. Lunches are provided on July 1 (Wednesday), July 2 (Thursday) and July 3 (Friday) at the Conference Venue. Lunch vouchers can be found in your registration package.

Reception	Kingswell Hotel Tongji	July 1	No.50 Zhangwu Road
Party		18:30 – 20:30	(near conference venue)
Conference	Shanghai International	July 2	No. 2727 Binjiang Road
Banquet	Conference Center	19:15-21:30	

Reception Party and Conference Banquet

Presentation of Papers

Oral presentation:

English should be used for presentations and discussions. Each keynote speaker is allowed 25 minutes for presentation and 5 minutes for discussion. All the other speakers are allowed 12 minutes for presentation and 3 minutes for discussion. Please copy your PPT document to the conference organizing committee at least one day before your oral presentation.

Poster Presentation:

The posters will be on exhibition at the hallway between Main Hall and Exhibition Hall throughout the conference. Poster presenters are requested to mount their posters before 9:50 a.m. on July 1st on the provided boards in the right zone (classification of sessions see Page 11). Eight poster sessions are planned combined with Coffee breaks. Authors of the posters are encouraged to be at their posters during the breaks for Q&A discussion, where the authors of Poster Sessions 1-3 are arranged on the first day of the Conference , Poster Sessions 4-6 on the second day and Poster Sessions 7-8 on the third day.

Accommodation

Hotels nearby the conference venue are mentioned on the conference website where reservation forms are provided. Please get reservations by yourself.

Internet

There are computers for use at the secretariat of the conference. Username of Wi-Fi: tj022a Password of Wi-Fi: tj022a

Currency

The current exchange rate is US\$1 = RMB\$6.2 approximately. Most foreign currencies can be freely exchanged at banks and hotels.

Electricity

The voltage and frequency used in Shanghai are 220 volts and 50 Hz, respectively.

Weather

The average temperature of Shanghai at the beginning of July is shown below: Average High Temperature: 28°C; Average Low Temperature: 22°C

Plan of Sites

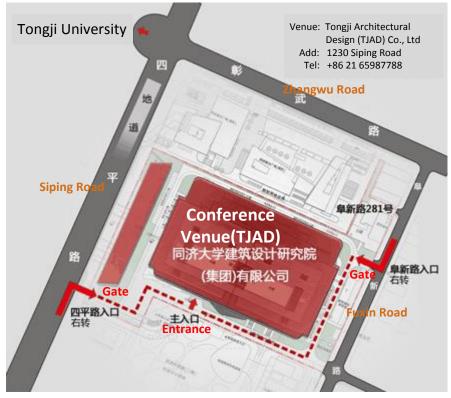


STESSA2015 Conference Venue (TJAD) and Nearby Hotels

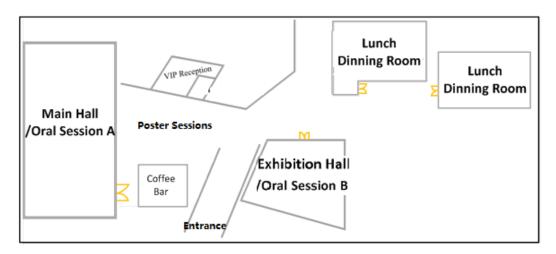
Note: Four hotels are recommended on the conference website of which three are shown in this map. The Crown Plaza Fudan hotel (5-star) not showed in this map will take 25-35 mins by walk and 10 mins by taxi to the conference venue.



Route from Conference Venue (TJAD) to venue of Chinese symposium (Civil Engineering Building)



The conference venue



Arrangement of presentation halls at TJAD (on the ground floor)

Program Overview

Part 1: Oral Sessions

		July 1, 2015			
8:30-9:00	Opening Ceremony (Main Hall)				
9:00-10:00	Plenary Se	ession 1: Keynote	Lectures (Main Hall)	
10:00-10:20		Coffee Bi	eak		
10:20-12:35	Session A1: Resilience E Technology (Main		Session	B1: Member Behaviour 1 (Exhibition Hall)	
12:30-13:30	Lunch: I	Dining Hall, Office	e Building(1	F), TJAD	
13:30-15:30	Session A2: Global Behaviour 1 (Main Hall)		Session	Session B2: Member Behaviour 2 (Exhibition Hall)	
15:30-15:50		Coffee Bi	eak		
15:50-18:05	Session A3: Global Behaviour 2 (Main Hall)		Session	B3: Member Behaviour 3 (Exhibition Hall)	
18:30-20:30	Reception: Kingswell Hotel Tongji				
		July 2, 2015			
8:30-9:30	Plenary Session 2: Keynote Lectures (Main Hall)				
9:30-9:50	Coffee Break				
9:50-12:35	Session A4: Connection Behaviour 1 (Main Hall)	Session I Performance Design of Stru Composite Str (Exhibition	-Based actures / ructures	Session C1: Chinese Symposium (Civil Engineering Building)	
12:30-13:30	Lunch: Dining Hall, Office Building(1F), TJAD				
13:30-15:30	Session A5: Global Behaviour 3 (Main Hall)	Session I Member Beha (Exhibition	aviour 4	Session C2: Chinese Symposium (Civil Engineering Building)	
15:30-15:50		Coffee Bi	eak		
15:50-18:05	Session A6: Codification, Design, and Practice 1 (Main Hall)	Session B6: A and Experin Method (Exhibition	nental s 1	Session C3: Chinese Symposium (Civil Engineering Building)	

19:15-21:30	Banquet: Shanghai International Conference Center (The buses will depart at 18:15 p.m. from the conference venue (TJAD).)		
		July 3, 2015	
8:30-9:30	Plenary Session 3: Keynote Lectures (Main Hall)		
9:30-9:50	Coffee Break		
9:50-12:20	Session A7: Connection Behaviour 2 (Main Hall)	Session B7: Passive, Semi-active and Active Control (Exhibition Hall)	Session C4 : Chinese Symposium (Civil Engineering Building)
12:30-13:30	Lunch: Dining Hall, Office Building(1F), TJAD		
13:30-15:30	Session A8: Connection Behaviour 3 (Main Hall)	Session B8: Analytical and Experimental Methods 2 (Exhibition Hall)	Session C5: Chinese Symposium (Civil Engineering Building)
15:30-15:50	Coffee Break		
15:50-17:50	Session A9: Codification, Design, and Practice 2/ Seismic, Wind and Exceptional Loads (Main Hall)	Session B9: Analytical and Experimental Methods 3 (Exhibition Hall)	Session C6: Chinese Symposium (Civil Engineering Building)
17:50-18:10	Closing Ceremony (Main Hall)		
		July 4, 2015	
9:30-17:00	Technical Visits		
Morning	TV1 : The Multi-functional Shaking Tables Lab of Tongji University (The buses will depart at 9:30 a.m. from Kingswell Hotel Tongji. Please bring your badge and wear comfortable shoes.)		
Afternoon	TV2: The New World Exposition Museum, Shanghai		

Part 2: Poster Sessions

Location: Hallway between Main Hall and Exhibition Hall

		Session 1: Performance-Based Design of Structures
July 1, 2015	10:00-10:20;15:30-15:50	Session 2: Member Behaviour
		Session 3: Connection Behaviour
		Session 4: Global Behaviour
July 2, 2015 9:30-9:50; 15:30-15:50	Session 5: Analytical and Experimental Methods	
	Session 6: Passive, Semi-active and Active Control	
July 3, 2015	5 9:30-9:50; 15:30-15:50	Session 7: Codification, Design, and Practice
	Session 8: Seismic, Wind and Exceptional Loads	

Note:

The poster sessions are planned combined with Coffee breaks. Authors of the posters are encouraged to be at their posters during the breaks for Q&A discussion.

Oral Sessions of STESSA 2015

July 1, 2015			
8:30-9:00	Opening Ceremony (Main Hall) Chairman: Prof. Guo-Qiang Li		
	Plenary Session 1: Keynote Lectures (Main Hall) Chairman: Prof. Stephen Mahin		
9:00-9:30	Major Development of Research and Practices on Seismic Design of Steel Building Structures in China Zu-Yan Shen*		
9:30-10:00	Hybrid Analytical-Experimental Simulation and Applications to Steel Frames with Semi-Rigid Connections <i>Amr S. Elnashai*, Hussam N. Mahmoud</i>		
10:00-10:20	Coffee Break		
	Session A1: Resilience Enhancement Technology (Main Hall)		
	Chairmen: Prof. Roberto T. Leon and Prof. Richard Sause		
10:20-10:35	Self-Centering Steel Plate Shear Walls for Improving Seismic Resilience Patricia M. Clayton*, Daniel M. Dowden, Chao-Hsien Li, Jeffrey W. Berman, Michel Bruneau, Laura N. Lowes, Keh-Chyuan Tsai		
10:35-10:50	Influence of Member Inelasticity on the Performance of Controlled Rocking Steel Braced Frames <i>Taylor C. Steele*, Lydell D. A. Wiebe</i>		
10:50-11:05	Experimental Study of Restoring Force Mechanism in Self- Centering Beam (SCB) Abhilasha Maurya, Matthew R. Eatherton*		
11:05-11:20	Large-Scale Tests on a Re-Centring Dual Eccentrically Braced Frame Aurel Stratan*, Adriana Ioan, Dan Dubina, Martin Poljanšek, Javier Molina, Pierre Pegon, Fabio Taucer, Gabriel Sabău		
11:20-11:35	Seismic Design of Novel Steel Resilient Structures <i>T. Y. Yang, D. P. Tung*, Yuanjie Li</i>		
11:35-11:50	Development and Validation of a Steel Dual-Core Self-Centering Brace for Seismic Resistance: From Brace Member to One-Story One-Bay Braced Frame Tests <i>Chung-Che Chou*, Ping-Ting Chung, Tsung-Han Wu, Alexis Rafael Ovalle Beato</i>		
11:50-12:05	Full-Scale Cyclic Testing of a Low-Ductility Concentrically-Braced Frame Joshua G. Sizemore, Larry A. Fahnestock*, Eric M. Hines, Cameron R. Bradley		
12:05-12:20	Experimental Investigation of Seismic Behavior of Steel Building Structure with Nonlinear Viscous Dampers Using Real-Time Hybrid Earthquake Simulation Baiping Dong*, Richard Sause, James M. Ricles		
12:20-12:35	Braced Frame Using Asymmetrical Friction Connections (AFC) J. Chanchi Golondrino, R. Xie*, G. A. MacRae, G. Chase, G. Rodgers, C. Clifton		

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Session A2: Global Behaviour 1 (Main Hall)		
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	Seismic Performance of Controlled Spine Frame with Energy-Dissipating Members
14:45-15:00	Xingchen Chen*, Toru Takeuchi, Ryota Matsui
	Influence of Detailing of Short Link on Seismic Response of Eccentrically Braced
15:00-15:15	Frames
	Adina Vataman, Daniel Grecea*, Adrian Ciutina
Dual Frames of High Strength Steel RHSCE Columns for Seismic Zones	
15:15-15:30	Dan Dubina*, Cristian Vulcu, Aurel Stratan, Adrian Ciutina
	Session B2: Member Behaviour 2 (Exhibition Hall)
	Chairmen: Prof. Vinceneo Piluso and Assoc. Prof. Larry A. Fahnestock
	Evaluation Method of Plastic Deformation Capacity of Steel Beam Governed by
13:30-13:45	Ductile Fracture at the Toe of The Weld Access Hole
	Satoshi Yamada*, Yu Jiao, Shoichi Kishiki
	Loading Protocols for Evaluating the Seismic Behavior of Steel Beams in Weak-Beam
13:45-14:00	Moment Frames
	Yu Jiao*, Shoichi Kishiki, Satoshi Yamada
14:00-14:15	Cyclic Behavior of Replaceable Steel Coupling Beams
14:00-14:13	Xiaodong Ji*, Yandong Wang, Qifeng Ma, Jiaru Qian
	Lateral Buckling Behavior of Wide-Flange Beams with Concrete Floor Slab Subjected
14:15-14:30	to Cyclic Bending Moment: Part 1 Experiment
	Yuji Koetaka*, Haruna Iga, Jun Iyama, Takashi Hasegawa
	Lateral Buckling Behavior of Wide-Flange Beams with Concrete Floor Slab Subjected
14:30-14:45	to Cyclic Bending Moment: Part 2 Finite Element Analysis
	Jun Iyama*, Yuji Koetaka, Takashi Hasegawa
14:45-15:00	Behaviour of Steel I-Beams with Web Openings
14:43-13:00	Luis Calado*
	Seismic Behavior of Concrete Filled Steel Tubes Subjected to Cyclic Torsion
15:00-15:15	Yu-Hang Wang*, Jian-Guo Nie, Jian-Sheng Fan
	On the Use of Perforated Metal Shear Panels for Seismic-Resistant Applications
15:15-15:30	
15.50	
	A. Formisano*, L. Lombardi, F. M. Mazzolani
15:30-15:50	
	A. Formisano*, L. Lombardi, F. M. Mazzolani
	A. Formisano*, L. Lombardi, F. M. Mazzolani Coffee Break
15:30-15:50	A. Formisano*, L. Lombardi, F. M. Mazzolani Coffee Break Session A3: Global Behaviour 2 (Main Hall)
	A. Formisano*, L. Lombardi, F. M. Mazzolani Coffee Break Session A3: Global Behaviour 2 (Main Hall) Chairman: Prof. Francisco L ópez-Almansa and Dr. Ricardo Herrera
15:30-15:50	A. Formisano*, L. Lombardi, F. M. Mazzolani Coffee Break Session A3: Global Behaviour 2 (Main Hall) Chairman: Prof. Francisco L ópez-Almansa and Dr. Ricardo Herrera Seismic Performance of Dual Frames with Steel Panels Calin Neagu, Florea Dinu*, Dan Dubina
15:30-15:50	A. Formisano*, L. Lombardi, F. M. Mazzolani Coffee Break Session A3: Global Behaviour 2 (Main Hall) Chairman: Prof. Francisco L ópez-Almansa and Dr. Ricardo Herrera Seismic Performance of Dual Frames with Steel Panels
15:30-15:50 15:50-16:05	A. Formisano*, L. Lombardi, F. M. Mazzolani Coffee Break Session A3: Global Behaviour 2 (Main Hall) Chairman: Prof. Francisco L ópez-Almansa and Dr. Ricardo Herrera Seismic Performance of Dual Frames with Steel Panels <i>Calin Neagu, Florea Dinu*, Dan Dubina</i> Influence of Semi-Rigid Connections on the Seismic Behaviour of Braced Frames with Buckling Restrained Braces
15:30-15:50 15:50-16:05	A. Formisano*, L. Lombardi, F. M. Mazzolani Coffee Break Session A3: Global Behaviour 2 (Main Hall) Chairman: Prof. Francisco L ópez-Almansa and Dr. Ricardo Herrera Seismic Performance of Dual Frames with Steel Panels <i>Calin Neagu, Florea Dinu*, Dan Dubina</i> Influence of Semi-Rigid Connections on the Seismic Behaviour of Braced Frames with Buckling Restrained Braces <i>Melina Bosco*, Edoardo M. Marino, Pier Paolo Rossi, Paola R. Stramondo</i>
15:30-15:50 15:50-16:05	A. Formisano*, L. Lombardi, F. M. Mazzolani Coffee Break Session A3: Global Behaviour 2 (Main Hall) Chairman: Prof. Francisco L ópez-Almansa and Dr. Ricardo Herrera Seismic Performance of Dual Frames with Steel Panels <i>Calin Neagu, Florea Dinu*, Dan Dubina</i> Influence of Semi-Rigid Connections on the Seismic Behaviour of Braced Frames with Buckling Restrained Braces

	Seismic Performance Evaluation of Existing High-Rise Steel Building Subjected to
16:35-16:50	Long-Period Ground Motion and Assessment of Retrofit by Steel Dampers
	D. Sato*, T. Nagae, H. Kitamura, M. Nakagawa, K. Sukemura, K. Kajiwara
16:50-17:05	The Optimization of Steel Braced Frame Structure Based on High Strength Steel
	Guochang Li, Yuwei An, Zhijian Yang
	Cyclic Loading Test of Substructure Frame with New Column Support System for
17:05-17:20	Steel Moment Resisting Structures to Perform Beam Yielding Mechanism
	Sachi Furukawa*, Yoshihiro Kimura, Katsunori Kaneda, Akira Wada
	Evaluation of Low- and Medium-Rise Buildings Enhanced Seismic Performance by
	High-Strength Steel and Hysteretic Dampers
17:20-17:35	Yasunari Watanabe*, Toshiaki Sato, Haruyuki Kitamura, Kazuaki Miyagawa, Takuya
	Ueki
	On the Weak Storey Behaviour of Concentrically Braced Frames
17:35-17:50	Daniel B. Merczel*, Jean-Marie Aribert, Hugues Somja, Mohammed Hjiaj, János
17.55 17.50	$L \acute{o}g \acute{o}$
	Session B3: Member Behaviour 3 (Exhibition Hall)
	Chairmen: Prof. Jose Miguel Castro and Prof. Alberto Mandara
	Simulation of Hysteretic Behavior of RHS Columns under Bi-Directional Horizontal
15:50-16:05	Forces and Constant Axial Force
	Takanori Ishida*, Yuko Shimada, Satoshi Yamada
	Seismic Behavior of Large-Section Rectangular CFT Columns with Distributive Beam
16:05-16:20	and Inner Diaphragms
	Yuanzhi Zhang*, Jinhui Luo, Yuanqi Li, Zuyan Shen, Xueyi Fu
16.00.16.25	Plastic Deformation Capacity of RHS Column with Weld Defects
16:20-16:35	Masayuki Takakura*, Tsuyoshi Tanaka, Hayato Asada, Ryo Ueta
	Studies on Axially Compressed SRC Column Using Q460 High-Strength Steel
16:35-16:50	Suwen Chen, Pei Wu*, Qing Liu, Zhao-Xin Hou, Lin-Bo Qiu
	Research on the Hysteretic Behaviors of Cold-Formed Thick-Walled Steel Columns
16:50-17:05	under the Axial Cyclic Loading
	Xiaochao Fu*, Yuanqi Li
	Detection of Nonlinear Behavior in Exposed Column Bases Using the Second Time
17:05-17:20	Derivative of Absolute Acceleration
17.05 17.20	Masaki Wakui*, Jun Iyama, Tsuyoshi Koyama
	Experimental Investigation on Stability Behavior of Q420 High Strength Steel
17:20-17:35	Y-Section Columns
17.20-17.33	
	Hong-Zhou Deng, Xiang-Lin Yu*, Ming-Yu Wei
17.25 17.50	Seismic Behaviour of X Bracings: Analysis of Models and Design Criteria
17:35-17:50	Antonio Formisano, Beatrice Faggiano*, Giuseppe Marino, Federico M. Mazzolani
	Experimental Assessment of the Debuyion of Dubharized Concrete Filled Steel Type
17:50-18:05	Experimental Assessment of the Behavior of Rubberized Concrete Filled Steel Tube Members
17.30-18:03	
	Y. Jiang*, A. Silva, J. M. Castro, R. Monteiro

18:30-	20.30
10.00	-20.30

July 2, 2015		
	Plenary Session 2: Keynote Lectures (Main Hall)	
	Chairman: Prof. Akira Wada	
8:30-9:00	Ten Years of E-Defense Activities — Collapse, Functionality, and Resilience	
0.30-7.00	Masayoshi Nakashima*, Taichiro Okazaki	
	The Activities of the ECCS-TC13 Seismic Committee: Bridging the Gap Between	
9:00-9:30	Research and Standards	
	Raffaele Landolfo*	
9:30-9:50	Coffee Break	
	Session A4: Connection Behaviour 1 (Main Hall)	
	Chairmen: Prof. Dimitrios Lignos and Prof. Zhengqing Chen	
	Finite Element Analysis of Column Base Weak Axis Aligned Asymmetric Friction	
9:50-10:05	(WAFC)	
	M. Hatami*, J. Borzouie, G. A. MacRae, M. Yekrangnia, S. Abubakar	
	Column Base Weak Axis Aligned Asymmetric Friction Connection Cyclic	
10:05-10:20	Performance	
	J. Borzouie*, G. A. MacRae, J. G. Chase, G. W. Rodgers, G. C. Clifton	
	Behavior of External Diaphragm Connections for Square CFST Columns under	
10:20-10:35	Bidirectional Loading	
10.20 10.00	Helmy Tjahjanto*, Gregory MacRae, Anthony Abu, Charles Clifton, Tessa Beetham,	
	Nandor Mago	
	A Finite Element Investigation of Skewed and Sloped Moment Connections in Steel	
10:35-10:50	Construction	
	Kevin E. Wilson, Gian A. Rassati*, James A. Swanson	
	Experimental Investigation on Behavior of Cast Steel Connectors for Beam-to-Column	
10:50-11:05	Connections under Cyclic Loading	
	Ying-Zhi Chen*, Le-Wei Tong, Yi-Yi Chen	
11:05-11:20	Improving the Seismic Behaviour of the Sliding Hinge Joint Using Belleville Springs	
11.03-11.20	Shahab Ramhormozian*, G. Charles Clifton, Gregory A. MacRae, Hsen-Han Khoo	
	The Optimum Use of Belleville Springs in the Asymmetric Friction Connection	
11:20-11:35	Shahab Ramhormozian*, G. Charles Clifton, Gregory A. MacRae, Hsen-Han Khoo	
	Numerical Study on Mechanical Behavior of Shear Plate in Web-Clamped Type	
11:35-11:50	Beam-to-Column Connection	
	Keita Araki*, Jun Iyama, Shiwan Piao	
	Experimental Program and Numerical Simulations of Bolted Beam to Column Joints	
11:50-12:05	with Haunches	
	Cosmin Maris, Cristian Vulcu*, Aurel Stratan, Dan Dubina	
	Full Scale Testing of Extended Beam-to-Column and Beam-to-Girder Shear Tab	
12:05-12:20	Connections Subjected to Shear	
	Jacob Hertz, Dimitrios G. Lignos*, Colin A. Rogers	

Session B4: Performance-Based Design of Structures / Composite Structures (Exhibition Hall)			
	Chairmen: Prof. James Ricles and Prof. Yongfeng Luo		
	Cyclic Loading Test on the Shearing Behavior of Welded Box Section Columns with		
9:50-10:05	Concrete Filled		
	Zhiqiang Li*, Yiyi Chen, Wei Wang		
10:05-10:20	Diaphragm Behavior of Deconstructable Composite Floor Systems		
10.05-10.20	Lizhong Wang , Mark D. Webster , Jerome F. Hajjar*		
	Hysteretic Behaviour of Concrete-Filled Double-Skin Stainless Steel Tube		
10:20-10:35	Beam-Columns		
	Ying-Fei Li*, Feng Zhou		
	Effects of Out of Plane Strength and Stiffness of Composite Floor Slabs on the		
10:35-10:50	Inelastic Response of Eccentrically Braced Frame Structures		
	Amin Momtahan, Charles Clifton*		
10:50-11:05	Behavior of the Composite Steel-Timber Structure with Semi-Rigid Joint		
10.50-11.05	Masanori Fujita*, Tomomichi Hayashi, Yuki Okoshi, Mamoru Iwata		
	Investigation on the Seismic Behavior of Concrete-Filled Steel Plate Composite		
11:05-11:20	Coupling Beams		
	Hong-Song Hu*, Jian-Guo Nie		
	An Energy-Based Nonlinear Static Procedure for Estimating the Seismic Response of		
11:20-11:35	Hybrid Steel Moment Resisting Frames		
	Ke Ke*, Yi-Yi Chen, Guang-Hong Chuan		
	Seismic Design of Multistory Tension-Only Concentrically Braced Beam-Through		
11:35-11:50	Frames Aimed at Uniform Inter-Story Drift		
	Chao Zou*, Wei Wang, Yiyi Chen, Yunfeng Zhang		
	Comparison Between Criteria for Selecting The Parameters of Hysteretic Energy		
11:50-12:05	Dissipators for Seismic Protection of Steel Building Structures		
	David Dom nguez, Francisco López-Almansa*, Amadeo Benavent-Climent		
	Direct Displacement Based Design: Application for Steel Moment Resisting Frames		
12:05-12:20	with CLT Infill Walls		
	Matiyas Ayalew Bezabeh*, Solomon Tesfamariam, Siegfried F. Stiemer		
	Fragility and Seismic Behaviour of Pre- and Post-Retrofit Concentrically Braced		
12:20-12:35	Frames		
	Lucia Tirca*, Ovidiu Serban, Mingzheng Wang		
12:30-13:30	Lunch		
	Session A5: Global Behaviour 3 (Main Hall)		
Chairmen: Prof. Ioannis Vayas and Prof. Xianzhong Zhao			
	Progressive Collapse of Seismic Designed Steel Moment Frames: Nonlinear Static and		
13:30-13:45	Dynamic Analysis		
	Massimiliano Ferraioli, Alberto Mandara*		
	Influence of Seismic Detailing on the Progressive Collapse of Steel Moment Frames		
13:45-14:00	David Cassiano, Mario D'Aniello, Carlos Rebelo*, Raffaele Landolfo, Lu ś Sim ões da		
	Silva		
14.00 14.15	Random Seismic Response Evaluation of Mid-Rise Buildings with Stiffness		
14:00-14:15	Irregularity Considering Soil-Structure Interaction Effects		

14:15-14:30Seismic Response of Special Concentric Braced Frames with Staggered Arrangement of Braces P.C Ashwin Kumar, Abhay Kumar, Dipti Ranjan Sahoo*14:30-14:45An Accurate Modeling Approach for Calculating the Vibration Characteristics of Steel Framed Structures with Semi-Rigid Connections Halil F. Ozel*, Afsin Saritas14:45-15:00Influence of Residual Stresses on the Performance of Special Concentrically Braced Frames Taylor C. Steele*, Lydell D. A. Wiebe15:00-15:15Seismic Performance of RC Structure Retrofitted with Steel Buckling-Restrained Braced Frame An-Chien Wu*, Kuan-Yu Pan, Keh-Chyuan Tsai, Chao-Hsien Li, Pao-Chun Lin, Kung-Juin Wang, Chi-Hsuan Yang15:00-15:15Backward seismic analysis of steel tanks		H. Shakib*, F. Homaei		
P.C Ashwin Kumar, Abhay Kumar, Dipti Ranjan Sahoo*14:30-14:45An Accurate Modeling Approach for Calculating the Vibration Characteristics of Steel14:30-14:45Framed Structures with Semi-Rigid Connections Halil F. Ozel*, Afsin Saritas14:45-15:00Influence of Residual Stresses on the Performance of Special Concentrically Braced14:45-15:00Frames Taylor C. Steele*, Lydell D. A. Wiebe15:00-15:15Seismic Performance of RC Structure Retrofitted with Steel Buckling-Restrained Braced Frame An-Chien Wu*, Kuan-Yu Pan, Keh-Chyuan Tsai, Chao-Hsien Li, Pao-Chun Lin, Kung-Juin Wang, Chi-Hsuan YangBackward seismic analysis of steel tanks				
An Accurate Modeling Approach for Calculating the Vibration Characteristics of Steel14:30-14:45Framed Structures with Semi-Rigid Connections Halil F. Ozel*, Afsin Saritas14:45-15:00Influence of Residual Stresses on the Performance of Special Concentrically Braced14:45-15:00Frames Taylor C. Steele*, Lydell D. A. Wiebe15:00-15:15Seismic Performance of RC Structure Retrofitted with Steel Buckling-Restrained Braced Frame An-Chien Wu*, Kuan-Yu Pan, Keh-Chyuan Tsai, Chao-Hsien Li, Pao-Chun Lin, Kung-Juin Wang, Chi-Hsuan YangBackward seismic analysis of steel tanks	14:15-14:30			
14:30-14:45Framed Structures with Semi-Rigid Connections Halil F. Ozel*, Afsin Saritas14:45-15:00Influence of Residual Stresses on the Performance of Special Concentrically Braced14:45-15:00Frames Taylor C. Steele*, Lydell D. A. Wiebe15:00-15:15Seismic Performance of RC Structure Retrofitted with Steel Buckling-Restrained Braced Frame An-Chien Wu*, Kuan-Yu Pan, Keh-Chyuan Tsai, Chao-Hsien Li, Pao-Chun Lin, Kung-Juin Wang, Chi-Hsuan YangBackward seismic analysis of steel tanks				
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15:00-15:15Seismic Performance of RC Structure Retrofitted with Steel Buckling-Restrained Braced Frame An-Chien Wu*, Kuan-Yu Pan, Keh-Chyuan Tsai, Chao-Hsien Li, Pao-Chun Lin, Kung-Juin Wang, Chi-Hsuan YangBackward seismic analysis of steel tanks	1110 10100			
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Backward seismic analysis of steel tanks	15:00-15:15	An-Chien Wu*, Kuan-Yu Pan, Keh-Chyuan Tsai, Chao-Hsien Li, Pao-Chun Lin,		
Backward seismic analysis of steel tanks		Kung-Juin Wang, Chi-Hsuan Yang		
15.15 15.30	15:15-15:30	Backward seismic analysis of steel tanks		
Patricio A. Pineda*, G. Rodolfo Saragoni	15.15-15.50	Patricio A. Pineda*, G. Rodolfo Saragoni		
Session B5: Member Behaviour 4 (Exhibition Hall)		Session B5: Member Behaviour 4 (Exhibition Hall)		
Chairmen: Prof. Jerome F. Hajjar and Prof. Daniel Dan		Chairmen: Prof. Jerome F. Hajjar and Prof. Daniel Dan		
Study on X-Shape Buckling Restrained Steel Plate Shear Wall with Two-Side		Study on X-Shape Buckling Restrained Steel Plate Shear Wall with Two-Side		
13:30-13:45 Connections	13:30-13:45	Connections		
Wen-Yang Liu*, Guo-Qiang Li				
Application of Coupled Shear Walls with Buckling-Restrained Steel Plates in				
13:45-14:00 High-Rise Buildings	13:45-14:00			
Guo-Qiang Li*, Hai-Jiang Wang, Xiao-Kun Huang		Guo-Qiang Li*, Hai-Jiang Wang, Xiao-Kun Huang		
Numerical Investigation on the Effect of Axial Force to The Behaviour of Composite		Numerical Investigation on the Effect of Axial Force to The Behaviour of Composite		
14:00-14:15 Steel Concrete Shear Walls	14:00-14:15			
Daniel Dan*, Alexandru Fabian, Valeriu Stoian		Daniel Dan*, Alexandru Fabian, Valeriu Stoian		
Experimental Investigation on Seismic Behavior of Cold-Formed Steel Trussing Shear		Experimental Investigation on Seismic Behavior of Cold-Formed Steel Trussing Shear		
14:15-14:30 Walls with Steel Sheathing	14:15-14:30			
Huiwen Tian*, Yuanqi Li		Huiwen Tian*, Yuanqi Li		
OpenSEES modeling of cold-formed steel framed gravity walls		OpenSEES modeling of cold-formed steel framed gravity walls		
14:30-14:45 G. Bian*, D. A. Padilla-Llano, J. Leng, S. G. Buonopane, C. D. Moen, B. W. Schafer	14:30-14:45			
14:45-15:00 Research and Application of Steel Plate Composite Shear Walls Zhong Fan*, Jinjin Wang, Lili Zhang	14:45-15:00			
15:00-15:15 Dog-Bone Details in Seismic Resistant Steel Structures		Dog-Bone Details in Seismic Resistant Steel Structures		
	15:00-15:15	$U_1 = (1 K \cdot 1) + D_{12} + D_{13} + C_{13} \times 1^{\circ} + C_{13} \times 1^{\circ}$		
	15:00-15:15	Helmuth Köber*, Bogdan Cătălin Ștefănescu		
Tsuyoshi Koyama*, Jun Iyama, Satoru Inamoto, Yuka Matsumoto, Tomoki Tamura	15:00-15:15 15:15-15:30	Helmuth Köber*, Bogdan Cătălin Ștefănescu Experimental Study on the Torsional Restrain Effect of the Concrete Slab to Improve Ductility of H-Shaped Steel Beams Subjected to Bending Moment		

15:30-15:50	Coffee Break			
Session A6: Codification, Design, and Practice 1 (Main Hall)				
	Chairmen: Prof. Kazuhiko Kasai and Prof. Pier Paolo Rossi			
	Australian/New Zealand Standard for Composite Structures, AS/NZS 2327, Seismic			
15:50-16:05	Provisions Development			
	Kevin A. Cowie*			
	Design and Application of a Minimal-Disturbance Seismic Rehabilitation Technique			
16:05-16:20	Composed of Light-Weight Steel Elements			
	Lei Zhang, Masahiro Kurata, Miho Sato, Oren Lavan, Masayoshi Nakashima*			
	A Design Approach for Composite Framed Structures Using the Hybrid			
16:20-16:35	Force/Displacement (HFD) Design Method			
	Konstantinos A. Skalomenos*, George D. Hatzigeorgiou, Dimitri E. Beskos			
	Seismic Design Criteria for Steel Moment Resisting Frames for Collapse Risk			
16:35-16:50	Mitigation			
	Ahmed Elkady, Dimitrios G. Lignos*			
	Lessons From Steel Structures in Christchurch Earthquakes			
16:50-17:05	Gregory MacRae, G. Charles Clifton*, Michel Bruneau, Amit Kanvinde, Sean			
	Gardiner			
	Structural Design Aspects of Next Concretion Steel Wind Energy Structures			
17:05-17:20	Structural Design Aspects of Next Generation Steel Wind Energy Structures			
	Evangelos Efthymiou*			
	A New Strategy to Prevent Collapse of Columns in Buildings with Steel Chevron			
17:20-17:35	Braced Structure			
	Francesca Barbagallo, Melina Bosco, Edoardo M. Marino*, Pier Paolo Rossi			
	Optimization of Energy-Dissipation Devices Arrangement for Seismic Retrofit of			
17:35-17:50	Truss Tower Structures			
17:55-17:50	Yusuke Kinouchi, Toru Takeuchi, Ryota Matsui, Toshiyuki Ogawa, Kazuhiro			
	Fujishita*			
	Session B6: Analytical and Experimental Methods 1 (Exhibition Hall)			
	Chairmen: Prof. Yuka Matsumoto and Prof. Carlos Rebelo			
	Experimental Analysis of Dual-Steel Bolted T-Stubs under Monotonic and Cyclic			
15:50-16:05	Loading			
	Andreas Kleiner*, Ulrike Kuhlmann			
	Experimental Studies Of Eccentrically Braced Frame with Rotational Bolted Active			
16:05-16:20	Links			
	Hoi Kit Leung*, G. Charles Clifton, Hsen Han Khoo, Gregory A. MacRae			
16:20-16:35	Large Scale Collapse Experiments of Wide Flange Steel Beam-Columns			
10.20-10.33	Yusuke Suzuki*, Dimitrios G. Lignos			
	Experimental Determination of Base Shear from Full-Scale Shake Table Testing of			
16:35-16:50	Two Cold-Formed Steel Framed Buildings			
	Kara D. Peterman*, Benjamin W. Schafer			

16:50-17:05	Substructure Online Hybrid Test on a Steel Frame Installed with Metallic Dampers
10.30-17.03	Tao Wang*, Yufeng Du, Jinzhen Xie, Haoran Jiang
17:05-17:20	Shaking Table Test on 1000kv UHV Transmission Tower-Wire Coupling System
17:20-17:20	Qiang Xie*, Yun-Zhu Cai, Song-Tao Xue
	Seismic Performance of a New Type Fish-Bone BRB: an Experimental Study
17.20-17.55	Liang-Jiu Jia*, Hanbin Ge, Rikuya Maruyama, Kazuki Shinohara
	Experimental Testing of a Double Acting Ring Spring System for Use in Rocking
17:35-17:50	Steel Shear Walls
	Gary S. Djojo*, G. Charles Clifton, Richard S. Henry, Gregory A. MacRae
17.50 10.05	A Refined Theoretical Model for Predicting the Ultimate Behaviour of Bolted T-Stubs
17:50-18:05	Antonella B. Francavilla, Massimo Latour, Vincenzo Piluso, Gianvittorio Rizzano*
19:15-21:30	Banquet: Shanghai International Conference Center

July 3, 2015			
Plenary Session 3: Keynote Lectures (Main Hall)			
	Chairman: Prof. Mario Fontana		
8:30-9:00	New Zealand Research on Steel Structures in Seismic Areas		
	Gregory A. MacRae*, G. Charles Clifton		
9:00-9:30	30The Application and Design of Viscous Dampers in Super High-Rise Building Da-Sui Wang*		
9:30-9:50	Coffee Break		
	Session A7: Connection Behaviour 2 (Main Hall) Chairmen: Prof. Daniel Grecea and Prof.Feifei Sun		
	Cyclic Behavior of Exposed Column Base Joints: Experimental Analysis and		
9:50-10:05	Mechanical Modeling		
2.30-10.05	M. Latour*, G. Rizzano		
	Subassemblage Tests of the In-Plane Structural Behavior of Buckling Restained Brace		
10:05-10:20	Welded End Connections		
10.05 10.20	Junxian Zhao*, Zhan Wang, Fuxiong Lin		
	Axial Strength and Deformation Demands for T-Stub Connection Components at		
10:20-10:35	Catenary Stage in the Beams		
	Florea Dinu, Dan Dubina, Ioan Marginean*, Calin Neagu, Ioan Petran		
	A Step Forward in the Cyclic Assessment of the F- Δ Components Using Complete		
10:35-10:50	Finite Elements Models of Beam-to-Column Steel End Plate Bolted Joints		
	Hugo Augusto*, Jos é Miguel Castro, Carlos Rebelo, Lu 🕏 Sim ões da Silva		
10:50-11:05	Deformation Limit for Ductile Fracture in Welded Tubular Joints		
10.30-11.03	Xudong Qian*, Aziz Ahmed		
	Numerical Study on the Local Buckling Behavior of End-Plate Connection in Steel		
11:05-11:20	Gabled Frames		
	Yundong Shi*, Yiyi Chen		
11:20-11:35	Seismic Behavior of Braced Frame Column Base Connections		
11.20 11.55	Yao Cui*, Shoichi Kishiki, Satoshi Yamada		
	Ultra-Low Cycle Fatigue Demand on Coped Beam Connections under Vertical		
11:35-11:50	Excitations		
	Huajie Wen, Hussam Mahmoud*		
	Three-Dimensional Numerical Simulations of Steel Concrete Composite		
11:50-12:05	Beam-to-Column Welded and Bolted Joints		
	Claudio Amadio*, Nader Akkad, Marco Fasan		
	Session B7: Passive, Semi-active and Active Control (Exhibition Hall)		
	Chairmen: Prof. Chung-Che Chou and Prof. Dan Dubina		
	Research on the Damping Design Method of Pendulum-Type Tuned Mass Damper		
9:50-10:05	Zhong-Liang Deng*, Zhong Fan, Xian-Ming Liu		
	Damage Control of Composite Gymnasium Structures with Energy-Dissipation Roof		
10:05-10:20	Bearings		

	Yuki Terazawa*, Toru Takeuchi, Kazuhiko Narita, Ryota Matsui, Kou Maehara			
10:20-10:35	Control of Structural Response with a New Semi-active Viscous Damping Device			
10:20-10:55	N. Khanmohammadi Hazaveh*, S. Pampanin, J. G. Chase, G. W. Rodgers			
	Eddy Current Damping and Its Application on Seismic Responses of Steel Structures:			
10:35-10:50	Some New Advances			
	Zheng-Qing Chen*, Zhi-Wen Huang, Xu-Gang Hua, Yong-Kui Wen			
	Seismic Retrofit of a High-Rise Steel Moment Resisting Frame Using Fluid Viscous			
10:50-11:05	Dampers			
	Shanshan Wang*, Jiun-Wei Lai, Matthew Schoettler, Stephen A. Mahin			
	Performance Evaluation of Building Frames with Energy Dissipation Systems FUSEIS			
11:05-11:20	1			
	Georgia Dougka, Danai Dimakogianni, Ioannis Vayas*			
	Equivalent Linearized Model of Damper Response for Seismic Design of Steel			
11:20-11:35	Structures with Nonliner Viscous Dampers			
	Baiping Dong, Richard Sause*, James M. Ricles			
	Integrated Optimal Design for Belt Truss Using Viscous Dampers in Super Tall			
11:35-11:50	Buildings			
	Xin Zhao*, Tao Shi			
11:50-12:05	Optimal Placement of Viscoelastic Coupling Dampers in Super Tall Buildings			
11.50 12.05	Xin Zhao, Lang Qin*			
12:30-13:30	Lunch			
	Lunch			
	Session A8: Connection Behaviour 3 (Main Hall)			
	Session A8: Connection Behaviour 3 (Main Hall) Chairmen: Prof. Toru Takeuchi and Prof. Lewei Tong			
	Session A8: Connection Behaviour 3 (Main Hall)Chairmen: Prof. Toru Takeuchi and Prof. Lewei TongUltimate Strength Evaluation of Inclined Fillet Welds Based on Limit Analysis			
13:30-13:45	Session A8: Connection Behaviour 3 (Main Hall) Chairmen: Prof. Toru Takeuchi and Prof. Lewei Tong Ultimate Strength Evaluation of Inclined Fillet Welds Based on Limit Analysis Misaki Tanaka*, Hayato Asada, Tsuyoshi Tanaka			
13:30-13:45	Session A8: Connection Behaviour 3 (Main Hall) Chairmen: Prof. Toru Takeuchi and Prof. Lewei Tong Ultimate Strength Evaluation of Inclined Fillet Welds Based on Limit Analysis Misaki Tanaka*, Hayato Asada, Tsuyoshi Tanaka Experimental Research of Screw And Riveted Connections in the Steel Thin-Walled			
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13:30-13:45 13:45-14:00	Session A8: Connection Behaviour 3 (Main Hall) Chairmen: Prof. Toru Takeuchi and Prof. Lewei Tong Ultimate Strength Evaluation of Inclined Fillet Welds Based on Limit Analysis <i>Misaki Tanaka*, Hayato Asada, Tsuyoshi Tanaka</i> Experimental Research of Screw And Riveted Connections in the Steel Thin-Walled Structures under Static and Cyclic Loading <i>Eduard Ayrumyan*, Ivan Katranov, Nikolay Kamenshchikov</i> Behaviour of Joint Components of I Beam to Tubular Columns Connections with Welded Reverse Channel <i>Lu ś Magalh ães*, Carlos Rebelo, Sandra Jord ão</i>			
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13:30-13:45 13:45-14:00 14:00-14:15 14:15-14:30 14:30-14:45	Session A8: Connection Behaviour 3 (Main Hall) Chairmen: Prof. Toru Takeuchi and Prof. Lewei Tong Ultimate Strength Evaluation of Inclined Fillet Welds Based on Limit Analysis Misaki Tanaka*, Hayato Asada, Tsuyoshi Tanaka Experimental Research of Screw And Riveted Connections in the Steel Thin-Walled Structures under Static and Cyclic Loading Eduard Ayrumyan*, Ivan Katranov, Nikolay Kamenshchikov Behaviour of Joint Components of I Beam to Tubular Columns Connections with Welded Reverse Channel Lu & Magalhães*, Carlos Rebelo, Sandra Jordão Investigation of Hollow Structural Section Based Collar Connections under Seismic Loads Dan Wei*, Jason P. McCormick Numerical Investigation on the Seismic Response of Bolted Extended Stiffened End-Plate Joints Roberto Tartaglia*, Mariana Zimbru, Mario D'Aniello, Silvia Costanzo, Raffaele Landolfo, Attilio De Martino Seismic Performance of Multistorey Frames with Bolted Extended End-Plate Joints:			

	Simplified Strut Modeling for Beam-to-Column Connection Retrofitted with	
15:00-15:15	Supplemental H-Section Haunches	
	Takuma Uehara*, Hayato Asada, Tsuyoshi Tnaka	
	An Experimental Study of High-Strength Bolted T-Stub Connections to SHS Columns	
15:15-15:30	under Cyclic Loading	
	Zhi-Yu Wang*, Hui Xue, Xiao-Kai Liu, Bei-Lei Lv	
	Session B8: Analytical and Experimental Methods 2 (Exhibition Hall)	
	Chairmen: Prof. Tao Wang and Prof. Claudio Amadio	
	An Approach for Evaluating the Damage-Control Behavior of Steel Frames with	
13:30-13:45	Buckling Restrained Braces Based on Energy Balance Concept	
	Ke Ke*, Xiu-Zhang He, Yi-Yi Chen	
13:45-14:00	Analysis of Hybrid Damping Device with Self-Centring	
13.45-14.00	R. Kordani, G.W. Rodgers*, J.G. Chase	
	Influence of Damping on The Prediction of Dynamic Response of Moment Frames by	
14:00-14:15	Nonlinear Static Methods	
	Francesca Barbagallo, Melina Bosco, Aurelio Ghersi, Edoardo M. Marino*	
	Analytical Study on the Yield Strength of Roof Brace and the In-Plane Defromation of	
14:15-14:30	Steel-Gymnasium Roof	
	Yuka Matsumoto*, Marie Suzuki	
	Calibration of Strength and Stiffness Deterioration Hysteretic Models Using	
14:30-14:45	Optimization Algorithms	
	Miguel Ara újo*, Lu ś Macedo, Jos é Miguel Castro	
14:45-15:00	Quasistatic Experimental Testing of Vulnerable Concentric Braced Frames	
14.45-15.00	Barbara G. Simpson, Stephen A. Mahin*	
	A Method to Avoid Weak Storey Mechanisms in Concentrically Braced Frames	
15:00-15:15	Daniel B. Merczel*, Jean-Marie Aribert, Hugues Somja, Mohammed Hjiaj, János	
	Lógó	
	Modelling on Post-Local Buckling Degradation Behavior of Square Hollow Steel	
15:15-15:30	Section Beam-Columns	
	Yong-Tao Bai*, Masahiro Kurata, Masayoshi Nakashima	
15:30-15:50	Coffee Break	
Session A9:	Codification, Design, and Practice 2/ Seismic, Wind and Exceptional Loads (Main Hall)	
	Chairmen: Prof. Hussam Mahmoud and Prof. Jean-Marie Aribert	
	Development of Ry,Rt Factors and Probable Brace Resistance Axial Loads for the	
15:50-16:05	Seismic Design of Bracing Connections and Other Members	
	Steven Cerri, Harrison Moir, Dimitrios G. Lignos*	
	Seismic Loss Estimation for Efficient Decision Making to Design Moment Resisting	
16:05-16:20	Frames: Eurocode 8 versus TPMC	
	A. Longo, V. Piluso*	
	Seismic Design of CFT-MRF and BRBF Structural Systems for Steel Buildings in	
16:20-16:35	Ecuador	
	Pedro P. Rojas*, Mario E. Aguaguiña, Ricardo A. Herrera	

	Buckling Restrained Brace Retrofit Technique for Existing Electric Power
16:35-16:50	Transmission Towers
10.35-10.50	Marco Trovato, Li Sun*, Bozidar Stojadinovic
	Strength Amplification of Structural Steel under Dynamic Cyclic Loading Due to High
16:50-17:05	Strain-Rate
	Yuko Shimada*, Yu Jiao, Satoshi Yamada
17:05-17:20	Influence of Earthquake Damage on Passive Fire Protection and Structural Fire Behaviour
17.03-17.20	Markus Knobloch, Mario Fontana*
17.20 17.25	The Effect of Earthquake Characteristics on the Localized Behavior of Moment
17:20-17:35	Connections under Fire
	Hussam Mahmoud*, Mehrdad Memari, Collin Turbert
17:35-17:50	The Behavior of Spherical Domes under Wind and Earthquake Action
	Shuai Xu*, Zhihua Chen, Federico M. Mazzolani
	Session B9: Analytical and Experimental Methods 3 (Exhibition Hall)
	Chairmen: Prof. Sachi Furukawa and Dr. Gregory MacRae
	Effect of Strength and Stiffness of Single-Storey Steel Buildings on Content Sliding
15:50-16:05	Response in Earthquakes
	Trevor Z. Yeow*, Gregory A. MacRae, Rajesh R. Dhakal
	Earthquake Sequence Effects on Steel Buildings
16:05-16:20	Ali A. Rad*, Gregory A. MacRae, Trevor Z. Yeow, Desmond Bull
	Influence of Modelling of Steel Link Beams on the Seismic Response of Single-Storey
16:20-16:35	EBFS
	Melina Bosco, Aurelio Ghersi, Pier Paolo Rossi*, Paola Stramondo
	Derivation of Ductility-Equivalent Viscous Damping Relationships for Steel
16:35-16:50	Moment-Resisting Frames with Partial Strength Joints
	Hugo Augusto, Jos é Miguel Castro*, Carlos Rebelo, Lu & Simões da Silva
	Deformation and Strain Histories in Shell-to-Base Joints of Unanchored Steel
16:50-17:05	Storage-Tanks During Seismic Loading
	Clemens Tappauf*, Andreas Tara
15.05.15.00	Comparison of Modelling Strategies for Steel Structures under Cyclic Loads
17:05-17:20	Lu ś Macedo*, Miguel Ara újo, Jos é Miguel Castro
17.00.17.05	Seismic Response of EBFs: Split K-Scheme vs Inverted Y-Scheme
17:20-17:35	Rosario Montuori, Elide Nastri*, Vincenzo Piluso
	Out-of-plane Seismic Design by Testing of Knauf Drywall Partitons
17:35-17:50	Luigi Fiorino*, Dominik Herfurth, Hans U. Hummel, Ornella Iuorio, Raffaele
	Landolfo, Vincenzo Macillo, Tatiana Pali, Maria Teresa Terracciano
17:50-18:10	Closing Ceremony (Main Hall)

Poster Sessions of STESSA 2015

Location: Hallway between Main Hall and Exhibition Hall

	Section 1: Performance-Based Design of Structures				
July 1, 2015	10:00-10:20; 15:30-15:50	Performance Based Design of MR-Frames by TPMC and Energy Approach <i>E. Nastri, V. Piluso</i> Seismic Behavior of Concentric Braced Frames Designed Using Direct Displacement-Based Design Method <i>Dipti Ranjan Sahoo, Ankit Prakash</i>			
	Section 2: Member Behaviour				
July 1, 2015	10:00-10:20; 15:30-15:50	Different Bracing Types in Seismic Resistant Structures Marina Stoian, Helmuth Köber			
		Steel Sliding-Controlled Coupled Beam Modules for Improving Seismic Resilience of Building Systems <i>Ying-Cheng Lin</i>			
		SHS Stub Columns under Cyclic Large Strain Loading: an Experimental and Numerical Study <i>Liang-Jiu Jia, Tsuyoshi Koyama, Hitoshi Kuwamura</i>			
	Section 3: Connection Behaviour				
July 1, 2015	10:00-10:20; 15:30-15:50	Lateral Stiffness and Strength of Steel Column-to-Footong ConnectionsPaul W. Richards, Nicholas BarnwellNumerical Simulation of Q690 Grade Steel Extended End PlateConnectionsFeifei Sun, Mingming Ran, Mi SunStudy on Performance of Flange Cover Plate in Web-ClampedBeam-to-Column ConnectionTong Su, Keita Araki, Jun Iyama			
		Velocity Effects on The Behaviour of Asymmetrical Friction Connections (AFC) Jose C. Chanchi Golondrino, Gregory A. MacRae, James G. Chase, Geoffrey W. Rodgers, George C. Clifton			
		Finite Element Analysis of Steel Frame Beam-Column Joints Under Low-Cyclic Loading Based on OpenSEES <i>Weining Sui, Qingze Shi</i>			
		Seismic Behavior on Joint of PEC Columns-Steel Beam Connection with End-Plate <i>Gentian Zhao, Di Hao</i>			
		Experimental Tests of Compound Battened Column and Its Base-Plate Connection Subject to Axial and Horizontal Forces			

		Gaetano Della Corte, Raffaele Landolfo		
	Section 4: Global Behaviour			
July 2, 2015	9:30-9:50; 15:30-15:50	Modeling Aspects for Collapse Analysis of Steel Moment-Frame BuildingsJohnn Judd, Andrew B. Hardyniec, Finley CharneyNumerical Simulation of Pallet Rack Systems Failure under SeismicActionsAndrei Crisan, Dan Dubina, Ioan MargineanSeismic Performance and Re-Centring Capability of Dual EccentricallyBraced Frames with Replaceable LinksAdriana Ioan, Aurel Stratan, Dan Dubina, Mario D'Aniello, RaffaeleLandolfoEffects of Slab-Beam Interaction on the Seismic Behaviour of DualEccentrically Braced Steel FramesHoratiu-Alin Mociran, Stefan Marius BuruPreliminary Analysis and Design of an Experimental Facility for thePseudodynamic Earthquake Test of a Real Scale Steel Moment ResistingFrame with Partial Strength JointAntonella B. Francavilla, Massimo Latour, Vincenzo Piluso, GianvittorioRizzanoAssessment of Adaptive Pushover Procedures for Earthquake-ResistantSteel Moment FramesM. Ferraioli, A. M. Avossa, A. Lavino, A. Mandara		
		Section 5: Analytical and Experimental Methods		
July 2, 2015	9:30-9:50; 15:30-15:50	An Advanced Hybrid Simulation Model Based on Phenomenological and Artificial Intelligence Approaches to Predict The Response of Structures under Seismic LoadsSyed Murtuza Abbas , Gian Andrea RassatiEvaluation of Two Scaling Methods in Association with a New and Practical Record Selection Procedure Leila Haj Najafi, Mohsen TehranizadehBehaviour of Eccentrically Braced Structures with Vertical Truss Elements Helmuth K öberInfluence of Gravity Load Resisting System on the Application of Theory of Plastic Mechanism Control for Moment Resisting Frames A. Longo, R. Montuori, V. PilusoSeismic Response Analysis under Traveling Wave Effect of an Arch Truss Across Abandoned Mine Pit Jian Zhou, Dong-Ya An, Yao-Kang Zhang, Jia-Chun CuiThe ELISSA Project: Planning of a Research on the Seismic Performance Evaluation of Cold-formed Steel Modular Systems Luigi Fiorino, Ornella Iuorio, Vincenzo Macillo, Maria Teresa		

		Terracciano, Tatiana Pali, Bianca Bucciero, Raffaele Landolfo
		Non-linear Seismic Analysis and Behaviour of CBF-V Beatrice Faggiano, Antonio Formisano, Carmine Castaldo, Luigi Fiorino, Vincenzo Macillo, Federico M. Mazzolani
		Section 6: Passive, Semi-active and Active Control
July 2, 2015	9:30-9:50; 15:30-15:50	Evaluation of Dissipative Effectiveness of a Hybrid System Composed by a Buckling Restrained Brace with a Magneto Rheological Damper <i>Norin Fillip-Vacarescu, Aurel Stratan, Dan Dubina</i> Energy Balance-Based Method for Response Control Structures with Hysteretic Dampers and Viscous Dampers <i>Toshiaki Sato, Haruyuki Kitamura, Daiki Sato, Daisuke Sato, Michio</i> <i>Yamaguchi, Naoya Wakita, Yuta Watanuki</i> The Life Cycle Cost Assessment of Super Tall Buildings with Viscous Damping Walls <i>Xi Zhan, Xin Zhao, Yimin Zheng</i>
		Section 7: Codification, Design, and Practice
July 3, 2015	9:30-9:50; 15:30-15:50	Some Thoughts for the Prediction of The Local Inelastic Capacity of MRFSubjected to Seismic ActionsAnthimos Anastasiadis, Marius Mosoarca, Cristian Petrus, Federico M.MazzolaniDesign of Connections for Composite Special Moment Frames (C-SMF)with Concrete-Filled Steel Tube (CFT) ColumnsErica C. Fischer, Zhichao Lai, Amit H. VarmaCost Comparison of MRF, CBF And EBF Mid-Height Steel Buildings inBogot áMiguel Ángel Montaña, Francisco Lápez-AlmansaAn Approach for Seismic Design of Buildings Structured with EccentricallyBraced Frames in MexicoAlonso G ómez-Bernal, Antonio Gasc ón-Ram rez, Luis Aguilar-Ugarte,Hug ón Ju árez-Garc úSeismic Behavior of Two Steel Solutions for Apartment Extensions in theCase of Large Prefabricated Reinforced Concrete Collective DwellingsMiodrag Popov, Daniel Grecea, Adrian Dogariu, Viorel UngureanuPerformance Assessment of X-CBF Designed according to an Improved(EC8-based) ApproachMelina Bosco, Giuseppe Brandonisio, Edoardo M. Marino, Elena Mele
		Section 8: Seismic, Wind and Exceptional Loads
July 3, 2015	9:30-9:50; 15:30-15:50	Design Constraints for the Optimal Structural Design of Super Tall Buildings under Earthquake and Wind <i>Xin Zhao, Xiang Jiang, Yaomin Dong</i>

Combined Tuned Damper Based Wind and Earthquake Vibration Control
for Super Tall Buildings
Lilin Wang, Yimin Zheng, Xin Zhao
Experimental Study of High-Performance Structural Steel Q345GJ under
Cyclic Loading
Gang Xiong, Bo Yang, Le Shen, Ying Hu, Shidong Nie, Guoxing Dai

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