Sunday, July 30:
4:15 PM - Main Session 1: Opening session and keynotes
6:15 PM - Welcome reception and dinner

Monday, July 31:
7:15 AM - Breakfast
8:00 AM - Main Session 2: Composite Construction Design Projects
9:30 AM - Coffee break
10:15 AM - Technical Session B.1 – Fire Behavior
10:15 AM - Technical Session B.2 – Frame Behavior and Modeling
12:45 PM - Lunch
Free afternoon
6:00 PM - Dinner
7:15 PM - Technical Session C.1: Composite Beams
7:15 PM - Technical Session C.2: Composite Columns
10:00 PM - Social Hour

Tuesday, August 1:
7:15 AM - Breakfast
8:00 AM - Technical Session D.1: Composite Connections 1
8:00 AM - Technical Session D.2: Shear Connectors
10:15 AM - Coffee break
10:30 AM - Technical Session E.1: Seismic Behavior of Frames and Components
10:30 AM - Technical Sessions E.2: Bridges
12:25 PM - Lunch
1:45 PM - Technical Sessions E.2: Composite Floors
1:45 PM - Technical Sessions E.1: Composite Connections 2
4:00 PM - Excursion w/ dinner
10:00 PM - Social Hour

Wednesday, August 2:
7:15 AM - Breakfast
8:00 AM - Technical Session G.1: Codes
8:00 AM - Technical Session G.1: Composite Walls
10:15 AM - Coffee break
11:00 AM - Main Session 3: Summary and Closing
12:00 PM - Lunch (on the go)
8th International Conference on Composite Construction in Steel and Concrete
CCVIII – 2017

TECHNICAL PROGRAM

Sunday, July 30:

4:15 PM- 6:15 PM  Main Session 1 (Roberto Leon)

- Welcome – Roberto Leon and Sam Easterling
- Conference Logistics – Kathleen Lakowski

The Future of the AISC Composite Construction Specification, Jerome Hajjar, Northeastern University, Boston (USA)

Recent Developments in Composite Construction in China, Lin-Hai Han, Tsinghua University, Beijing (PRC)

The New Eurocode for Composite Construction (EC4), Ulrike Kuhlmann, University of Stuttgart, Stuttgart (GE)

Looking Back – Some Observations about Composite Frame Construction, Larry Griffis, Walter P. Moore, Austin (USA)

6:15 PM – 9:30 PM  Welcome reception and conference dinner

Monday, July 31

8:00 AM - 9:30 AM  Main Session 2: Composite Construction Design Projects (Sam Easterling)

1. G.T. Land Plaza: Using a Composite Structure to Address the Challenges of a Complex of Slender Tower. Mark Sarkisian, Neville Mathias, John Gordon, and Joanna Zhang (Skidmore, Owings & Merrill LLP, USA)

2. Rainier Square: Concrete Filled Composite Plate Shear Wall High-Rise Tower, Seattle, WA. Brian Morgen, Hee Jae Yang, Ron Klemencic and John Hooper (Magnusson Klemencic Associates, USA)

3. Building Scale Composite Systems. Aaron Mazeika and Ashpica Chhabra (Skidmore, Owings & Merrill LLP, USA)


9:30 AM - 10:15 AM  Coffee break
10:15 AM - 12:45 PM  **Technical Session B.1 – Fire Behavior (Mario Fontana)**

1. **Progressive Collapse Analysis of Composite Steel Frames under Elevated Temperature.** Hussam Mahmoud and Chao Qin (Colorado State University, USA)
2. **Robustness Design and Possible Collapse Mechanisms of Building Frames at Fire.** Kei Kimura, Fuminobu Ozaki and Ryoichi Kanno (Nippon Steel and Sumitomo Metal Corporation, Japan)
3. **Fire Behavior of Blind-Bolted Connections to Concrete Filled Tubular Columns Under Tension.** Ana M. Pascual and Manuel L. Romero (University of Stuttgart - Institute of Structural Design, Germany)
4. **Performance of Composite Beams in Fire: Pre-test Analysis of Full-Scale Experiments.** Joseph Main, Fahim Sadek, Jonathan Weigand, Jian Jiang, Mina Seif, Lisa Choe, Ramesh Selvarajah and John Gross (National Institute of Standards and Technology, USA)
5. **Towards an Engineering Methods for Structural Fire Design of Concrete-Filled Steel Tube Columns with Solid Steel Core.** Martin Neuenschwander, Markus Knobloch and Mario Fontana (Ruhr-Universität Bochum, Institute of Steel, Lightweight and Composite Structures, Germany)
6. **Effects of Composite Slab on Shear strength of Steel Plate Girders.** Peter Wang and Maria Garlock (Princeton University, USA)

10:15 AM - 12:45 PM  **Technical Session B.2 – Frame Behavior and Modeling (Mark Bradford)**

1. **Progressive Collapse: the Case of Composite Steel-Concrete Frames.** Riccardo Zandonini, Nadia Baldassino and Giacomo Roverso (University of Trento, Italy)
2. **Direct Analysis for Structures Made of High Strength Steel.** S.L. Chan, S.W. Liu and T. J. Li (Hong Kong Polytechnic University, Hong Kong)
3. **Structural behavior of Steel-plate Concrete Sperimens under Pure Tension.** Qiangzhao Kong, Jamshaid Sawab, Xin Nie and Y. L. Mo (University of Houston, USA)
4. **Calibration of the Effective Elastic Flexural Rigidity from Ambient Vibrations for a Building with SRC Columns.** Tiziano Perea, Miguel Garcia, Manuel Ruiz-Sandoval and Roberto Leon (Universidad Autónoma Metropolitana, Azcapotzalco, Mexico)
5. **Concrete-filled Steel Tube Dual Lateral-Force Resisting System.** Nipun Pakwan and Johnn Judd (University of Wyoming, USA)

6. **Deflection of Composite Beams.** Roberto Lean and Hongting Zhao (Virginia Tech, USA).

12:45 PM  **Lunch**

6:00 PM  **Dinner**
7:30 PM - 10:00 PM  **Technical Session C.1: Composite Beams** (Ulrike Kuhlmann)

1. *Experimental Studies of Composite Slim Floor Beams.* Dennis Lam, Therese Sheehan and Xianghe Dai (University of Bradford, United Kingdom)
2. *Effect of Post-Welding Residual Stresses on Distortional Buckling of Steel-Concrete Composite Beams.* Marian Gizejowski, Radoslaw Szczesnyba, Marcin Gajewski and Wioleta Barcewicz (Warsaw University of Technology, Poland)
3. *Strength of Lateral-Torsional Buckling of a Composite Steel Beam Subjected to Reverse Curvature Bending.* Satoshi Kitaoka, Ryoichi Kanno, Satoru Hiroshima, Koji Hanya, Keiichi Takada and Fumihisa Yoshida (Nippon Steel and Sumitomo Metal Corporation, Japan)
4. *Influence of the Composite Action on the Load Bearing and Deformation Behavior of Composite Beams with and without Profiled Steel Sheeting.* Florian Eggert and Ulrike Kuhlmann (University of Stuttgart, Institute of Structural Design, Germany)
7. *Deformation-based Reliability Concept for Composite Beams.* Wolfgang Kurz, Karsten Geißler, Natali Kostadinova and Gregor Korpas (University of Kaiserslautern, Germany)

7:30 PM - 10:00 PM  **Technical Session C.2: Composite Columns** (Jerome Hajjar)

1. *Research on Deformation Limits of SRC Columns Based on Experiment Data.* Jing Ji, Xiaolei Han, Tao You and Yuan Cao (South China University of Technology, China)
2. *Buckling Resistance of Hybrid Steel-Concrete Columns.* Pisey Keo, Hugues Somja, Quang-Huy Nguyen and Mohammed Hjiaj (LGCGM, INSA Rennes, France)
3. *Strength of CFT with Various Strengths and Sectional Slenderness.* Ho-Jun Lee and Hong-Gun Park (Seoul National University, Democratic People’s Republic of South Korea)
4. *Pushing the Envelope of Composite Column Design Using High Strength Materials.* Amit Varma and Zhichao Lai (Purdue University, USA)
5. *Seismic Performance of an Innovative Composite Column with Replaceable Steel Slit Dampers: FEM Analysis and Design Method.* Yang Liu, Yifan Liao, Zixiong Guo, Yingting Lu, Xiaojuan Liu and Bahram Shahrooz (College of Civil Engineering, Huaqiao University, China)
6. *Structural Reliability of Steel-Concrete Composite Columns and Frames.* Mark Denavit (University of Tennessee, USA)
7. *Life-Cycle Performance of CFT Columns Subjected to Corrosion and Impact.* Lin-Hai Han and Chuan-Chuan Hou (Tsinghua University, China)

10:00 PM  **Social Hour**
Tuesday, August 1:

8:00 AM - 10:15 AM  **Technical Session D.1: Composite Connections 1 (Gian-Andrea Rassati)**

1. **Steel-to-Concrete Joints with Large Anchor Plates.** Jakob Ruopp and Ulrike Kuhlmann, (University Stuttgart, Germany)
2. **Numerical Investigation of Moment-Resisting Slim-Floor Beam-To_Column Connections.** Cristian Vulcu, Rafaela Don, Adrian Ciutina and Dan Dubina (Universitatea Politehnica Timisoara, Romania)
3. **State-Of-The-Art Report on Beam-To-Column Connections for Composite Special Moment Frames.** Erica Fischer, Amit Varma and Zhichao Lai (Degenkolb Engineers, USA)
4. **Moment-Rotation Characteristics for Deconstructable Flush End Plate Composite Joints.** Mark Bradford, Abdolreza Ataei and Xinpei Liu (UNSW Sydney, Australia)
5. **Braced Frame Connections with Square CFT Columns Penetrated by Gusset Plates.** Jingmin Liang, Jianrong Pan, Zhan Wang and Peng Wang (South China University of Technology, China)
6. **Considerations on Composite Beam Connection Due to Plastic Deformation Capacity and Strength Ratio.** Yuko Shimada and Satoshi Yamada (Graduate School of Engineering, Chiba University, Japan)

8:00 AM - 10:15 AM  **Technical Session D.2: Shear Connectors (Brian Uy)**

1. **Pin Shear Connectors for Steel-Concrete Composite Constructions.** Maik Kopp, Kevin Wolters and Markus Feldmann (RWTH Aachen University, Germany)
2. **Longitudinal Shear Resistance of ComFlor210.** Roland Abspoel, Jan Stark and Henk Prins (Delft University of Technology, Netherlands)
3. **Behaviour of Concrete Dowels Positioned Close the Surface of Concrete Slabs.** Wolfgang Kurz, Yannick Broschart and Joanna Gajda (University of Kaiserslautern, Germany)
4. **Behavior of A New Type of Shear Connectors for U-Shaped Steel-Concrete Hybrid Beams.** Pisey Keo, Clémence Lepourry, Hugues Somja and Franck Palas (Structural Engineering Research Group, LGCGM, INSA Rennes, France)
5. **Shear Performance of Nonparallel Type Twin Perfabond Steel Plate Shear Connectors: FEM Analysis and Experimental Verification.** Hai Chen, Yang Liu, Zixiong Guo, Yong Ye and Bahram Shahrooz (College of Civil Engineering, Huaqiao University, China)
6. **Shear Connections by Beaded Studs Close to the Concrete Edge.** Ulrike Kuhlmann, Jochen Raichle and Ana M. Pascual (University of Stuttgart - Institute of Structural Design, Germany)

10:15 AM – 10:30 AM  **Coffee break**
10:30 AM - 12:25 PM  Technical Session E.1: Seismic Behavior of Frames and Components (Patricia Clayton)

1. Role of the Floor System in the Cyclic Response of Composite Steel Gravity Framing. Sean Donahue, Michael Engelhardt, Patricia Clayton, Eric Williamson and Todd Helwig (University of Texas at Austin, USA)
2. The Seismic Stability and Ductility of Steel Columns Interacting with Concrete Footings. Hiroyuki Inamasu, Amit Kanvinde and Dimitrios Lignos (Swiss Federal Institute of Technology, Lausanne (EPFL), Switzerland)
3. The Influence of a Composite Slab on the Seismic Behavior of Moment Resisting Frames. Roberto Tartaglia, Mario D'Aniello, Gian Andrea Rassati and James Swanson (University of Naples "Federico II", Italy)
5. Seismic Collectors in Composite Steel Deck Diaphragms. Robert Fleischman, Anshul Agarwal, Haitham Ayyad, Richard Sause, Chia-Ming Uang and Jim Ricles (University of Arizona, USA)

10:30 AM - 12:25 PM  Technical Sessions E.2: Bridges (Stephen Hicks)

1. Operational Testing of Composite Railway Bridges with Innovative Composite Dowels. Daniel Pak, Maik Kopp and Günter Seidl (Universität Siegen, Germany)
2. Performance Based Evaluation of a Pier Consists of 4 Concrete Filled Steel Tube Columns and Buckling Restrained Bracings. Chi-Ho Jeon, Dong-Wook Kim and Chang-Su Shim (Chung-Ang University, South Korea)
3. Integral vs. Seismic Control in Composite Deck Bridges. Uwe E. Dorka and Andrea Klarendic (University of Kassel, Germany)
4. Concrete Filled Steel Tubes for Bridge Applications. Charles Roeder and Dawn Lehman (University of Washington, USA)
5. Hot-Dip Galvanizing in Steel and Composite Bridge Constructions. Dieter Ungermann, Svenja Holtkamp and Dennis Rademacher (TU Dortmund University, Institute of Steel Construction, Germany)
6. The New Joint Australian and New Zealand Design Standard for Steel and Composite Bridges AS/NZS 5100.6 - Part 6: Steel and Composite Construction. Stephen Hicks, Brian Uy and Won Hee Kang. (HERA, New Zealand)

12:25 PM - 1:45 PM  Lunch

1:45 PM - 3:45 PM  Technical Sessions F.1: Composite Connections 2 (Roberto Leon)

1. Experimental Study on Exterior RCS Hybrid Joints. Quang Nguyen, Mohammed Hjiaj and Viet Phuong Nguyen (INSA de Rennes, France)
2. Improved Beam-Column Connection for Partially Encased Composite Structure. Yiyi Chen, Guanghong Chuan and Jie Li (Tongji University, China)
3. *Influence of the Composite Slab on the Nonlinear Response of Extended End-Plate Beam-To-Column Connections.* Roberto Tartaglia, Mario D'Aniello, Gian Andrea Rassati and James Swanson (University of Cincinnati, USA)

4. *Innovative Slip-Critical Blind Bolts and Connections for Concrete-filled RHS Columns.* Wei Wang, Mingxiao Li, YiYi Chen and Xiaogang Jian (Tongji University, China)

5. *Steel Beam to Encased Column Composite Connection Prequalification.* Carlos Mauricio Torres Torres, Luis Garza Vasquez, and Ricardo Cruz Hernández (Universidad Nacional de Colombia, Colombia)

6. *Innovative Self-Centering Connection for CCFT Composite Columns.* Roberto Leon and Yu Gao (Virginia Tech, USA)

1:45 PM - 3:45 PM  **Technical Sessions F.2: Composite Floors (Richard Liew)**

1. *A Design Approach for the Serviceability Limit State of Composite Steel-Concrete Slabs.* Gianluca Ranzi (The University of Sydney, Australia)

2. *Behavior of a Sustainable Composite Floor System with Deconstructable Clamping Connectors.* Lizhong Wang, Mark Webster and Jerome Hajjar (Northeastern University, USA)

3. *Slim-Floor Construction - Deformation and Load Carrying Behaviour.* Johannes Schorr, Ulrike Kuhlmann and Gunter Hauf (University of Stuttgart - Institute of Structural Design, Germany)

4. *Experimental and Numerical Study on Mechanical Behaviour of Composite Slabs with Closed Profiled Sheeting.* Guochang Li, Xiao Zhang, Zhijian Yang and Fengwei Guo (School of Civil Engineering, Shenyang Jianzhu University, China)

5. *Influence of Composite Slab Detailing on Robustness of Steel Gravity Framing.* Joseph Main, Jonathan Weigand and Fahim Sadek (National Institute of Standards and Technology, USA)


4:00 PM  **Whitewater rafting excursion (returning 9:30 PM)**

10:00 PM  **Social Hour**
Wednesday, August 2:

8:00 AM – 10:15 AM  **Technical Session G.1: Codes (Ryoichi Kanno)**

1. *Update of Design Provisions for Moment-Resisting Joints between Steel Beams and Reinforced Concrete Columns.* Luis Fargier-Gabaldon, Paul Cordova, **Gustavo Parra-Montesinos** and Gregory Deierlein (University of Wisconsin-Madison, USA)

2. *Development of European Design Guidance for Steel-Concrete (SC) Structures in Nuclear Power plant.* **Bassam Burgan** and Eleftherios Aggelopoulos (The Steel Construction Institute, United Kingdom)

3. *The New Australia/New Zealand Standard on Composite Steel-Concrete Buildings, ASNZS2327.* Brian Uy, **Stephen Hicks**, Won Hee Kang, Huu-Tai Thai and Farhad Aslani (HERA, New Zealand)

4. *Development of a New Push Test for Eurocode 4.* Stephen Hicks, **Adrian Ciutina** and Christoph Odenbreit (Politehnica University Timișoara, Romania)

5. *Towards the Use of High Strength Steel and Concrete in High-rise Construction.* **Richard Liew,** Yanbo Wang and Du Yong (National University of Singapore, Singapore)

6. *Seismic Column base Connections: Experiments, Simulations, Component and Building Models, and Design Implications.* **Amit Kanvinde** (University of California Davis, USA)

8:00 AM – 10:15 AM  **Technical Session G.1: Composite Walls (Yiyi Chen)**

1. *In-Plane Cyclic Testing of Concrete Filled Sanwich Steel Panel Walls with and without Boundary Elements.* Michel Bruneau and Yasser Alzeni (University at Buffalo, USA)

2. *Cyclic Shear Behavior of Steel-Plate Composite Walls for High-Rise Buildings.* Xiaodong Ji, Xiaowei Cheng and Xiangfu Jia (Tsinghua University, China)

3. *Experimental Investigation on Hybrid Steel-RC Walls.* Quang Nguyen, Mohammed Hjiaj and Van Toan Tran (INSA de Rennes, France)

4. *An Introduction to Coupled Composite Core Wall Systems for High-Rise Construction.* Amit Varma, Zhichao Lai and Jungil Seo (Purdue University, USA)

5. *Experimental Study on the Seismic Performance of New Hybrid Coupling Wall Subassemblies with Replaceable Steel Coupling Beam.* Yang Liu, Hao Lin, Zixiong Guo, Hongsong Hu and Bahram Shahrooz (College of Civil Engineering, Huaqiao University, China)

6. *Girder-Wall Connections Using Concrete Anchors in Composite Construction.* Jian Zhao and Bo Yang (University of Wisconsin, USA)

10:15 AM – 11:00 AM  **Coffee Break**

11:00 AM – 12:00 PM  **Closing Session**