

Joint Event

5<sup>th</sup> World Congress and Exhibition on  
**CONSTRUCTION AND STEEL STRUCTURE**

&

World Congress on  
**CONCRETE STRUCTURES & CONCRETE TECHNOLOGY**

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October 05-06, 2018 | Los Angeles, USA



**Day 1      October 05, 2018**  
**Conference Hall: Colombard**

09:00-9:30 Registrations

09:30-09:45 Opening Ceremony

**Keynote Forum**

**Introduction**

09:45-10:30 **Title: Seismic lessons from the full-scale testing of Sideplate, an innovative steel moment frame connection**  
**Behzad Rafezy, SidePlate Systems, Inc, USA**

**Panel Discussion**

**Networking & Refreshment Break 10:30-10:45 @ Foyer**

10:45-11:15 **Title: Future trends in high strength steel and composite steel-concrete structures in construction**

**Brian Uy, The University Of Sydney, Australia**

11:15-11:45 **Title: The future surrounds us: Deep learning in the concrete industry**

**Rex C Donahey, American Concrete Institute, USA**

11:45-12:15 **Title: Design issues of prestressed concrete bridges with corrugated steel webs**

**Francis T K Au, The University of Hong Kong, China**

12:15-12:45 **Title: Concrete extradosed and cable-stayed bridges recently built in Poland**

**Jan Biliszczyk, Wroclaw University of Science and Technology, Poland**

12:45-13:15 **Title: Recent development of cold-formed steel shear walls using corrugated steel sheathing**

**Cheng Yu, University of North Texas, USA**

**Panel Discussion**

**Group Photo @ 13:15-13:20**

**Lunch Break 13:20-14:00 @ Foyer**

14:00-14:30 **Title: Sensor-enhanced analysis and behaviour of steel beams in fire**

**Genda Chen, Missouri University of Science and Technology, USA**

14:30-15:00 **Title: A semantic approach to building lifecycle information integration**

**Saeed Karshenas, Marquette University, USA**

15:00-15:30 **Title: External bonded fiber reinforced polymer seismic strengthening of RC structures**

**Ferrier Emmanuel, Université Claude Bernard Lyon 1, France**

**Panel Discussion**

**Networking & Refreshment Break 15:30-15:45 @ Foyer**

15:45-16:15 **Title: Accelerograms for time-history analysis of highway bridges in eastern Canada**

**Lan Lin, Concordia University, Canada**

**Panel Discussion**

**Sessions: Structures | Construction Engineering and Management | Earthquake Resistance Design | Reinforced Concrete Structures | Construction | Seismic Performance of Concrete Buildings**

**Session Chair: Francis T K Au, The University of Hong Kong, China**

**Session Introduction**

16:30-16:50 **Title: Experimental study of demountable shear connectors for composite bridge decks with corrugated steel sheets**

**Jing Zhang, Hefei University of Technology, China**

16:50-17:10 **Title: Concrete curing process monitoring using intensity-based plastic optical fiber sensor**

**Dong Yang, Hefei University of Technology, China**

17:10-17:30 **Title: Tension-bend-shearing performance of bolted-flange connection for square steel tube structural column**

**Shen Qiang, Beijing University of Technology, China**

17:30-17:50 **Title: Shear Behaviours of HB-FRP Strengthened Concrete Beams**

**Biao Hu, Shenzhen University, China**

**Panel Discussion**

**Day 2      October 06, 2018**

**Conference Hall: Colombard**

**Keynote Forum**

**10:00-10:30 Title: Modelling reinforced concrete structures under fire conditions**  
Zhaohui Huang, Brunel University London, UK

**Panel Discussion**

**Networking & Refreshment Break 10:30-10:45 @ Foyer**

**10:45-11:15 Title: Lessons learned from world landmark concrete construction projects**  
Moncef Nehdi, Western University, Canada

**11:15-11:45 Title: New concepts in crack and deformation analysis of reinforced concrete structures**  
Gintaris Kaklauskas, Vilnius Gediminas Technical University, Lithuania

**11:45-12:15 Title: Long span steel built up girders, precast prestress and post tensioned systems from the design and constructability perspectives**  
M Manikandan, Gulf Consult, Kuwait

**12:15-12:45 Title: Innovation in steel construction, design and performance with a case study on full scale lateral impact response of beam-to column connections**  
Hassan Al Nageim, Liverpool John Moores University, UK

**12:45-13:15 Title: Comparative study of repairing concrete using carbon fiber reinforced epoxy composites and bio-sourced composites**  
Elhem Ghorbel, Université of Cergy-Pontoise, France

**Panel Discussion**

**Lunch Break 13:20-14:00 @ Foyer**

**14:00-14:30 Title: Seismic performance of corroded reinforced concrete moment-resisting frame structures**  
Huanjun Jiang, Tongji University, China

**14:30-15:00 Title: Smart concrete pavement system for integrated performance and traffic monitoring**  
Ying Huang, North Dakota State University, USA

**15:00-15:30 Title: Transient creep in plain and fiber reinforced concrete structures subjected to compressive load at high temperature**  
Thomaz Eduardo Teixeira Buttignol, Mackenzie Presbyterian University, Brazil

**15:30-16:00 Title: Strength enhancement of existing concrete infrastructure: Challenges and opportunities**  
Samir Dirar, University of Birmingham, United Kingdom

**Panel Discussion**

**Networking & Refreshment Break 16:00-16:15 @ Foyer**

**16:15-16:45 Title: Performance based specifications for geopolymer concrete in chloride environment**  
Arnaud Castel, The University of New South Wales, Australia

**Sessions: Fire Safety Engineering | Safety Management in Construction | Construction Industry | GeoPolymer Concrete | Durability | Structures**

**Session Chair: M Manikandan, Gulf Consult, Kuwait**

**Session Introduction**

**16:45-17:05 Title: OSHA Data Initiative's (ODI) meaning and findings**  
Scott A Arias, Eastern Kentucky University, USA

**17:05-17:25 Title: Risk management and its importance in construction projects from the life cycle perspectives**  
M Manikandan, Gulf Consult, Kuwait

**17:25-17:45 Title: Numerical simulation analysis toward the pseudo-dynamic test of resilient prestressed steel frame with intermediate column containing friction damper**  
Yanxia Zhang, Beijing University of Technology, China

**Awards and Closing Ceremony**