Scientific Program

2nd World Congress and Exhibition on

CONSTRUCTION & STEEL STRUCTURE

September 22-24, 2016 Las Vegas, USA
Day 1  September 22, 2016

09:30-10:00  Registrations

Flamingo-2

10:00-10:30  Opening Ceremony

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Keynote Forum

10:30-11:00  Title: The ABC and D of Steel and Composite Structures: Australian Experiences
Brian Uy, The University of New South Wales, Australia

11:00-11:05  Group Photo: 11:00-11:05
Networking & Refreshments Break 11:05-11:25 @ Foyer

11:25-11:55  Title: Collapse performance of steel buildings with infill walls
Halil Sezen, The Ohio State University, USA

Sessions:
Construction Engineering | Structures | Civil Engineering
Session Chair: M Manikandan, Gulf Consult, Kuwait

Session Introduction

12:00-12:20  Title: Repair method of damaged steel framed structures and ultimate seismic state of repaired steel frames
Takumi Ito, Tokyo University of Science, Japan

12:20-12:40  Title: Load bearing capacity of light steel wall panels with various stud configuration
Shek Poi Ngian, Universiti Teknologi Malaysia, Malaysia

12:40-13:00  Title: Skyscrapers design and behavior of steel structures and connections complexities from constructability perspectives
M Manikandan, Gulf Consult, Kuwait

13:40-14:00  Title: A study on ultimate seismic states of multi-story horizontally mixed structural system and feasibility on connection joints
Kento Mori, Tokyo University of Science, Japan

14:00-14:20  Title: An experimental and analysis study on vibration control devices called as hybrid scaling-frame
Hideaki Azu, Tokyo University of Science, Japan

14:20-14:40  Title: Repair method of damaged steel braced structure and restoring force characteristics after repair state
Ryotaro Arai, Tokyo University of Science, Japan

14:40-15:00  Title: An experimental study of embedded connection for lightweight steel square tube filled with adhesives
Itsuki Yagi, Tokyo University of Science, Japan

15:00-15:20  Title: Prediction method of maximum seismic response for vibration control steel frames with scaling-frame device installed
Akinobu Kano, Tokyo University of Science, Japan

15:20-15:40  Title: The repair method of damaged h-shaped steel members and experimental study on recovery after repair
Tomoe Onoda, Tokyo University of Science, Japan

Panel Discussion

Networking & Refreshments Break: 16:10-16:30 @ Foyer
Day 2   September 23, 2016

Flamingo-2

Keynote Forum

10:00-10:30 Title: Application of Japanese high-performance steel SBHS500 to girder
   Eiki Yamaguchi, Kyushu Institute of Technology, Japan

10:30-11:00 Title: Risk management in the construction projects from the conceptual design and life cycle perspectives
   M Manikandan, Gulf Consult, Kuwait

Networking & Refreshments Break: 11:00-11:20 @ Foyer

11:20-11:25 Session Introduction

Sessions:
Steel Construction | Environmental Engineering | Design and Behavior of Steel Structures and Members | Construction Industry

Session Chair: Brian Uy, The University of New South Wales, Australia

Session Introduction

11:25-11:45 Title: Architecturally exposed structural steel
   Howida Borziza, Gulf Consult, Kuwait

Young Research Forum

11:45-12:05 Title: Managing structural health monitoring data using building information modeling
   Mojtaba Valinejadshoubi, Concordia University, Canada

12:05-12:25 Title: Application of building information modeling in SHM sensors' visualization, data management and identification of their optimal placement in a building
   Azin Shakibabarough, Concordia University, Canada

12:25-12:45 Title: Model update methods for vibration based damage detection in four story book shelf
   Ardalan Sabamehr, Concordia University, Canada

12:45-13:05 Title: A study of equivalent strength and effects of brace type of multi-story steel braced frames
   Takayuki Kinoshita, Tokyo University of Science, Japan

Lunch Break: 13:05-13:45 @ Foyer

WORKSHOP

13:45-15:50 Title: Collapse performance of steel buildings and guidelines for progressive collapse modeling and analysis
   Halil Sezen, The Ohio State University, USA

Young Research Forum

15:50-16:10 Title: Top and seat angle connections subjected to elevated temperatures: Finite element and mechanical modeling
   Sana N. El Kalash, American University of Beirut, Lebanon

Networking & Refreshments Break: 16:10-16:30 @ Foyer

Poster Sessions

16:30-17:30 Title: A study on the application of surveillance technology with large bolt axial force of nuclear facilities
   Jeongsu Ju, University of Seoul, Korea

   Title: Analytical study of the H-shaped brace according to reinforcement rate of non-welded buckling restraint element
   Seul-Ki Hwang, University of Seoul, Korea

Panel Discussion
### Keynote Forum

**10:00-10:30** Title: Screw connections in cold-formed steel clip angles subjected to uplift forces  
Cheng Yu, University of North Texas, USA

**Sessions:**  
- Digital Structural Designs  
- Safety Management in Construction  
- Earthquake resistance engineering structure  
- Fire Safety Engineering and Design of Structures

**Session Chair:** Cheng Yu, University of North Texas, USA

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Institution</th>
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<tr>
<td>10:35-10:55</td>
<td>Reduced web and flange link sections to enhance the ductility of link-to-column connection of eccentrically braced frames</td>
<td>Daniel Y Abebe</td>
<td>Chosun University, Korea</td>
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<td>11:15-11:35</td>
<td>3D model for axially loaded square concrete steel tubular columns subjected to fire</td>
<td>Mahmood Md Tahir</td>
<td>Universiti Teknologi Malaysia, Malaysia</td>
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<tr>
<td>11:35-11:55</td>
<td>Blast resistance on a composite panel with infilled nano-composite</td>
<td>Min-jae Park</td>
<td>Korea University, Korea</td>
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**Networking & Refreshments Break: 10:55-11:15 @ Foyer**

**11:55-12:15** Title: Numerical evaluation of resistance capacity for CFT columns  
Ju young Hwang, Korea Advanced Institute of Science and Technology, Korea

**Title:** Seismic evaluation of the diagrid structure based on the low-to-moderate seismicity region earthquake data  
Yong Jae Lee, Korea University, Korea

**Title:** Time-dependent analysis of RC structures considering the construction sequences and structural symmetry  
WonHo Lee, Korea Advanced Institute of Science and Technology, Korea

**Lunch Break: 13:05-13:50 @ Foyer**

**Award Ceremony**

**Thanks giving & Closing Ceremony**

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**Bookmark your dates**

### 3rd World Congress and Exhibition on

**Construction & Steel Structure**  
September 26-27, 2017 Abu Dhabi, UAE

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