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689th Conference

Scientific Program

2nd World Congress and Exhibition on

Construction & Steel Structure

September 22-24, 2016 Las Vegas, USA



Hosting Organizations: Conference Series LLC

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Day 1 September 22, 2016

09:30-10:00 Registrations

Flamingo-2

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10:00-10:30 **Opening Ceremony**

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

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

Lunch Break: 13:00-13:40 @ Foyer

Young Research Forum

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

Day 3 September 24, 2016

Flamingo-2

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

Session Intrudution

10:35-10:55 **Title: Reduced web and flange link sections to enhance the ductility of link-to-column connection of eccentrically braced frames**

Daniel Y Abebe, Chosun University, Korea

Networking & Refreshments Break: 10:55-11:15 @ Foyer

11:15-11:35 **Title: 3D model for axially loaded square concrete steel tubular columns subjected to fire**

Mahmood Md Tahir, Universiti Teknologi Malaysia, Malaysia

11:35-11:55 **Title: Blast resistance on a composite panel with infilled nano-composite**

Min-jae Park, Korea University, Korea

Young Research Forum

11:55-12:15 **Title: Numerical evaluation of resistance capacity for CFT columns**

Ju young Hwang, Korea Advanced Institute of Science and Technology, Korea

12:15-12:35 **Title: Seismic evaluation of the diagrid structure based on the low-to-moderate seismicity region earthquake data**

Yong Jae Lee, Korea University, Korea

12:35-12:55 **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

Bookmark your dates

3rd World Congress and Exhibition on

Construction & Steel Structure

September 26-27, 2017 Abu Dhabi, UAE

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