

Advances in Steel & Composite Structures

Friday, 10 January 2020

Swissotel Merchant Court, Singapore

SYNOPSIS

There are new advances made in the recent years on design and construction of steel-concrete composite structural systems in building and infrastructural work. It is important for researchers and practitioners to know these advances in view of the huge opportunity of infrastructure construction in Singapore and Asia Pacific Region in the coming decades. Steel and composite construction is often adopted in high-rise buildings, large span structures and infrastructural work due to their high structural efficiency with respect to high strength-to-weight ratio as well as their robustness against instability and accidental loads. This International Symposium serves as a platform for renowned researchers and engineers to disseminate their new findings on advanced design and construction technology of steel and composite structures with special emphases on practical applications and case studies. International experts from Japan, Korea, Hong Kong, China have been invited to share their knowledge and experience in steel and composite design and construction.

A new design guide book on buildable steel connections will be launched and distributed to all participants. It provides detailed procedures and examples of 44 most preferred steel connections which are designed in accordance with SS EN1993-1-8 and national annexes. This guide book serves as a valuable source of reference, and it can be used regularly to design and build new steel structures.

REGISTRATION FEES

Category	Early Bird (on or before 20 Dec 2019)	Standard (21 Dec 2019 onwards)
SSSS Members	\$300	\$380
Non-members	\$400	\$480

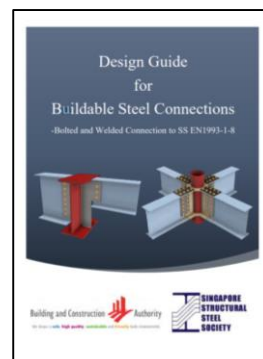
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Register Now

Registration fees is inclusive of

- Lunch and coffebreaks
- 1 copy of Design Guide book on buildable steel connections

Jointly Organised by



1 set of Design
Guide per
registration worth
\$188

Singapore Structural Steel Society

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INTERNATIONAL SYMPOSIUM ON
**Advances in Steel &
Composite Structures**

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SYMPOSIUM SPEAKERS



RICHARD LIEW
NATIONAL UNIVERSITY OF SINGAPORE

Topic 1: New Design Guidebook on Buildable Steel Connections



ZHU ZHONGYI
BEIJING ARCHITECTURAL DESIGN
& RESEARCH INSTITUTE

Topic 6: Design and Construction of Beijing Daxing Airport



CHAN SIU-LAI
HONG KONG POLYTECHNIC UNIVERSITY

Topic 2: Application of Direct Analysis Method for Designing Complex & Large Scale Steel Structures



JASON TAN
ARUP

Topic 7: Innovative & Practical Approach on Steel Design at Outram Community Hospital



PATRICK BESHARA
LENDLEASE AUSTRALIA

Topic 3: How Lendlease is Delivering Sydney's Infrastructure in Steel



LAI BINGLIN
NATIONAL UNIVERSITY OF SINGAPORE

Topic 8: Design of Concrete Encased Steel Composite Column using High Strength Materials



CHIEW SING PING
SINGAPORE INSTITUTE OF TECHNOLOGY

Topic 4: High Performance Pre-engineered Steel Sections



KOJI OKI
JFE STEEL CORPORATION

Topic 9: Structural Use of Higher Grade Steels (S500Q & S690Q)



PANG SZE DAI
NATIONAL UNIVERSITY OF SINGAPORE

Topic 5: Innovative Composite Beam to Precast Column Rigid Joint for Fast Assembly



SEUNGHWAN LEE
SEN ENGINEERING GROUP

Topic 10: New Developments of Innovative Pre-fabricated Composite Structure

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TIME	PROGRAMME
8.30AM	Registration
9.00AM	Opening Speech by Er Chew Keat Chuan, Building and Construction Authority, Group Director & Commissioner of Building Control
9.15AM	Topic 1: New Design Guidebook on Buildable Steel Connections by Prof Richard Liew, National University of Singapore
9.45AM	Topic 2: Application of Direct Analysis Method for Designing Complex & Large Scale Steel Structures by Prof Siu-Lai Chan, Hong Kong Polytechnic University
10.15AM	Morning Teabreak
10.45AM	Topic 3: How Lendlease is Delivering Sydney's Infrastructure in Steel by Mr Patrick Beshara, Lendlease Australia
11.15AM	Topic 4: High Performance Pre-Engineered Steel Sections by Prof Chiew Sing Ping, Singapore Institute of Technology
11.45AM	Topic 5: Innovative Composite Beam to Precast Column Rigid Joint for Fast Assembly by A/Prof Pang Sze Dai, National University of Singapore
12.15PM	Buffet Lunch
1.45PM	Topic 6: Design & Construction of the World's Largest Airport - Beijing Daxing by Dr Zhu Zhongyi, Beijing Architectural Design and Research Institute
2.15PM	Topic 7: Innovative & Practical Structural Steel & Composite Design & Outram Community Hospital by Er Jason Tan, Arup
2.45PM	Topic 8: Design of Composite Steel-Concrete Columns using High Strength Materials by Mr Lai Binglin, National University of Singapore
3.15PM	Afternoon Teabreak
3.45PM	Topic 9: Structural Use of Higher Performance Steel - Grade S500Q & S690Q by Mr Koji Oki, JFE Steel Corporation
4.15PM	Topic 10: New Developments of Innovative Prefabricated Composite Structures by Mr Seunghwan Lee, SEN Engineering Group
4.45PM	Closing Remarks & Presentation of Token of Appreciation to all speakers
6.00PM	Cocktail Reception (by-invitation only)

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