Event Details

**Time & Date**
- [Seminar] 13:00-18:25 on 10th May, 2016
- [Networking Dinner] 18:30-20:30 on 10th May, 2016

**Venue**
- [Seminar] Garnet Room, MAX Atria @ Singapore EXPO
- [Networking Dinner] Garnet Pre-function Area, MAX Atria @ Singapore EXPO

**Accreditation**
The Professional Engineers Board (PEB)

**Supported by**
- Building and Construction Authority, Singapore (BCA)
- Embassy of Japan in Singapore
- National University of Singapore (NUS)
- Nanyang Technological University (NTU)
- Singapore Institute of Technology (SIT)
- Singapore Structural Steel Society (SSSS)
- Association of Consulting Engineers Singapore (ACES)
- The Japan Iron and Steel Federation (JISF)
- Japanese Society of Steel Construction (JSSC)
- The Overseas Construction Association of Japan, Inc. (OCAJI)
- Japan Steel Construction Association (JSCA)
- Japan Steel Fabrication Association (JSTA)

**Organized by**
- WASS Committee
- Secretariat: info@wass-sgp.com
- Japan External Trade Organization (JETRO)

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“**Our aim**” of WASS‘4 Seminar 2016

_Returning to the origin of WASS Seminar_, we would like to propose the following main theme:

**“What” are the “benefits” of structural steel?**

Faster construction, minimizes building weight, reduces on-site work and faster return on investment?

**“How” does structural steel “benefit” you?**

At this year’s seminar, speakers will present how they have benefitted from structural steel through their actual projects and experiences.

WASS Seminar 2016 aims that all attendees will gain “know-how” and “tools” to inform their clients of the benefits of structural steel in their projects.

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**Addressing topics and speakers**

**1. Keynote Speech**

1) Steel: The way forward
   Er Chew Keat Chuan, Building Engineering, Building Construction Authority (BCA)

**2. Keynote Lecture**

2) Towards the use of High Performance Materials for Composite Construction
   Dr. Richard Liew, Professor, National University of Singapore

3) Structural Steelwork without Fire Protection?
   Dr. Tan Kang Hai, Professor, Nanyang Technological University

4) Use of High Strength Grade 600 Steel Reinforcing Bars for Construction Productivity
   Dr. Chiew Sing Ping, Professor, Singapore Institute of Technology

**3. Technical and Business Presentation**

5) DUO Mixed Used Project -Deflection Control of Cantilevered Tower Buildings
   --- Analysis and Actual Deflection ---
   Mr. Atsushi NAKAGAWA, Obayashi Corporation

6) The use of PCSS (Pre-cast Structure Steel) of Yishun Community Hospital Project
   Mr. Yip Shaw Chong, Shimizu Corporation

7) The right Material for the right Element at the right Place
   --- Structural Design in Singapore for Changi Airport Terminal 4 ---
   Mr. Nobuyuki ODAJIMA, Takenaka Corporation

8) Marina One – Design and Construction of Office Towers – Structural Steel Alternative
   Mr. Chelvadurai Harendran, Yongnam Engineering & Construction (Pte) Ltd

9) Development of Singapore-capital logistics hubs in Japan with structural steel option
   Mr. Shigeo TAKABAYASHI, ITOCHU Corporation

10) Development and Application of 780N/mm² class Steel Plates for Building Structures
    Mr. Takayuki NAMBA, JFE Steel

11) Beam Design Considering Slab Composite
    Mr. Ichiro TAKEUCHI, Nippon Steel & Sumitomo Metal Corporation

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For more information, please visit [http://wass-sgp.com/en_index.html](http://wass-sgp.com/en_index.html)

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<td>12:00 - 13:00</td>
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| 13:10 - 13:35 | Keynote Speech  
Steel: The way forward  
by Er. Chew Keat Chuan, Building Engineering, Building Construction Authority (BCA) |
| 13:35 - 14:00 | Keynote Lecture 1  
Use of High Strength Grade 600 Steel Reinforcing Bars for Construction Productivity  
by Dr. Chiew Sing Ping, Professor, Singapore Institute of Technology |
| 14:00 - 14:25 | Technical Presentation 1  
DUO Mixed Used Project - Deflection Control of Cantilevered Tower Buildings  
--- Analysis and Actual Deflection ---  
by Mr. Atsushi NAKAGAWA, Obayashi Corporation |
| 14:25 - 14:50 | Technical Presentation 2  
The use of PCSS (Pre-cast Structure Steel) of Yishun Community Hospital Project  
by Mr. Yip Shaw Chong, Shimizu Corporation |
| 14:50 - 15:15 | Technical Presentation 3  
The right Material for the right Element at the right Place  
--- Structural Design in Singapore for Changi Airport Terminal 4 ---  
by Mr. Nobuyuki ODAJIMA, Takenaka Corporation |
| 15:15 - 15:25 | Question & Answer 1 |
| 15:25 - 15:45 | Break |
| 15:45 - 16:10 | Keynote Lecture 2  
Structural Steelwork without Fire Protection?  
by Dr. Tan Kang Hai, Professor, Nanyang Technological University |
| 16:10 - 16:35 | Technical Presentation 4  
Marina One – Design and Construction of Office Towers – Structural Steel Alternative  
by Mr. Chelvadurai Harendran, Yongnam Engineering & Construction (Pte) Ltd |
| 16:35 - 17:00 | Business Presentation  
Development of Singapore-capital logistics hubs in Japan with structural steel option  
by Shigeo TAKABAYASHI, ITOCHU Corporation |
| 17:00 - 17:20 | Technical Presentation 5  
Development and Application of 780N/mm² class Steel Plates for Building Structures  
by Mr. Takayuki NAMBA, JFE Steel |
| 17:20 - 17:40 | Technical Presentation 6  
Beam Design Considering Slab Composite  
by Mr. Ichiro TAKEUCHI, Nippon Steel & Sumitomo Metal Corporation |
| 17:40 - 18:05 | Keynote Lecture 3  
Towards the use of High Performance Materials for Composite Construction  
by Dr. Richard Liew, Professor, National University of Singapore |
| 18:05 - 18:15 | Question & Answer 2 |
| 18:15 - 18:25 | Closing Speech  
by Mr. Kazuhiro EGAWA, Representative of WASS Secretariat |

WASS Seminar 2016  
Seminar Program  
10th May, 2016 (Tuesday)