

IABSE Conference Guangzhou 2016 - Report

The IABSE Conference Guangzhou was held from May 8-11, 2016, and was organised by the Chinese Group of IABSE (Chair Yaojun Ge), in association with Tongji University, Guangzhou University, Hong Kong-Zhuhai-Macau Bridge Authority and Guangdong Provincial Chang Da Highway Engineering Co., Ltd. The Scientific Committee was co-chaired by Limin Sun (Tongji University) and Quanke Su (HZMB Authority). The Conference linked national and international activities in a single conference and attracted 1110 participants from 29 countries and areas, counting. The top five participating countries besides China were Indonesia, Germany, Japan, and Switzerland!

On May 8, prior to the official Opening of the Conference, the Young Engineers Workshop 'Smart System Design Competition--Using Hong Kong-Zhuhai-Macau Bridge, Guangzhou, China' was organised basically as a design competition. Five teams with totally 28 participants signed up. The winning teams were selected by a Jury as following:

1st Prize - The Outstanding Design Award (1st Prize):

Tongji University Team (Zhanling Ji, Dongxiao Hong, Lichang Chen, Hongjin Li)

2nd Prize - The Excellent Design Award:

Fuzhou University Team (Miguel Muñoz)

3rd Prize - The Exceptional Design Award:

South China University of Technology Team (Huan Song, Fengwu Li, Chunfang Liang, Jingliang Deng).

For more information on the competition please visit the conference website [here](#).



Conference Programme

The international and national conferences were held together bilingually with simultaneous translation during the Opening/Closing and Keynote Sessions. Parallel presentation sessions were held separately in each language. The [Final Programme](#) can be downloaded (pdf) from the conference website and is available on the IABSE App participants ([Apple Store](#) / [Google Play](#)).

Keynote Lectures

A New R&D Programme "Infrastructure Maintenance, Renovation and Management" in Japan for Innovation in Infrastructure Maintenance and Management

Yojo Fujino, Japan (Yokohama National University)

The Conceptual Design of the Chacao Bridge

Torben Forsberg, Denmark (COWI)

The Long-Span High-Speed Railway Bridges in China

Zongyu Gao, China (China Zhongtie Major Bridge Engineering Group Co. Ltd)

Toward the Next Generation of Concrete Structures: Recent Advances in UHPC Technology

Byung-Suk Kim, South Korea (Korea Institute of Civil Engineering & Building Technology)

Bentley Bridge Information Modelling – Solution for Bridge Information Mobility

Vanja Samec, Austria (Bentley Systems)

An Overview of Steel Structures in Hong Kong-Zhuhai-Macao Bridge Project

Quanke Su, China (Hong Kong-Zhuhai-Macau Bridge Authority)

Sustainable Construction in Concrete Structures – What to Think to the Future

Franciscus Xaverius Supartono, Indonesia (University of Tarumangara)

Tall Buildings: The Next Generation

Antony Wood, USA (Council on Tall Buildings and Urban Habitat)

The Second Humen Bridge under Construction – Understanding and Practice of Sustainable Bridge Engineering

Yugang WU, China (Guangdong Provincial Highway Construction Group)

Inspired by the 2015 Geneva Conference where a Pecha Cucha session was organised, a similar session was introduced with short Presentations and Group Discussion. This Session allowed each speaker to prepare 20 slides to be shown continuously for 400 seconds (6 minutes and 40 seconds) in total, i.e., 20 seconds for each slide. The slides were automatically shown and there was no gap between presentations within the session and between slides within each presentation. More time was saved for discussions and more presentations. Speakers had to be well prepared and required to send the slides beforehand. The themes of these Pecha Cucha sessions were:

Session (I) - Challenges in major projects (9 Presentations)

Session (II) - High-performance Materials (9 Presentations)

On May 10, during the Closing Ceremony the awards were presented including also the outstanding young engineers contribution award presented to: Igor Kavrakov, Germany, with '*Modelling Techniques for Buffeting Analysis of Long-Span Bridges*' and Xiaoyu Chen, China, with '*Influence Analysis of the Corrosive Factors Effect on the Corrosion Rate of Steel Wires of Main Cable of Suspension Bridge*'.

After the Closing Ceremony a Banquet sponsored by the main sponsors was offered for free to all participants. Next day participants enjoyed an excursion to the Hong Kong-Zhuhai-Macau Bridge, which crosses the Pearl River Estuary and links Hong Kong to the East, and Zhuhai to the West with a combination of bridges, a tunnel and two artificial islands.

Conference Proceedings

Eight keynotes and 123 papers have been collected in the conference report which is available as ePDF version at: www.iabse.org/onlineshop.