



THE HONG KONG
POLYTECHNIC UNIVERSITY
香港理工大學



發展局
Development Bureau



國家鋼結構工程技術研究中心香港分中心
Chinese National Engineering Research Centre
For Steel Construction (Hong Kong Branch)



CONSTRUCTION
INDUSTRY COUNCIL
建造業議會

HONG KONG CMSA
Constructional Metal Structures Association
香港建築金屬結構協會

《國際鋼結構與複合結構工程技術研討會》 2016
**International Symposium on
Advances in Steel and Composite Structures 2016**

Date : Tuesday, 6 December 2016

Venue : Lecture Theatre TU107, The Hong Kong Polytechnic University, Hung Hom, Hong Kong SAR.

Time : 8:30 am (registration) for 9:00 am to 5:15 pm.

Program Highlights

Advances in Steel and Composite Structures are important to practicing engineers in Hong Kong due to huge demands on infrastructure construction in the Region, in particular China, in the coming decades. Steel and composite construction is very often adopted in super high-rise buildings, long span bridges and public structures due to their high structural efficiency with large strength-to-self-weight ratios as well as large flexural rigidities against instability and serviceability issues.

This International Symposium is organized as a technical platform for the following renowned researchers and engineers to disseminate their research findings on advanced construction technology of steel and composite structures with special emphases on practical applications:

周緒紅 院士	重慶大學校長
Professor Reidar Bjorhovde	<i>The Bjorhovde Group, U.S.A.</i>
Professor Richard J.Y. Liew	<i>National University of Singapore, Singapore</i>
Professor Y.J. Shi	<i>Tsinghua University, Beijing, China</i>
Professor G.Q. Li	<i>Tongji University, Shanghai, China</i>
Professor Leroy Gardner	<i>Imperial College London, U.K.</i>
Professor Brian Uy	<i>The University of New South Wales, Australia</i>
Ir Professor K.F. Chung	<i>The Hong Kong Polytechnic University, Hong Kong SAR, China</i>

This International Symposium is jointly organized by the **Chinese National Engineering Research Centre for Steel Construction (Hong Kong Branch)** of the Hong Kong Polytechnic University and the **Hong Kong Constructional Metal Structures Association**. It is also supported by the Works Branch of the Development Bureau of the Government of Hong Kong SAR, the Construction Industry Council, and Building Division, Materials Division and Structural Division of the Hong Kong Institution of Engineers.

The Chinese National Engineering Research Centre for Steel Construction (Hong Kong Branch) was established in October 2015 at the Hong Kong Polytechnic University with the approval of the Ministry of Science and Technology of the People's Republic of China. It is supported by the Innovation and Technology Funds of the Government of Hong Kong SAR. The main objective of the CNERC is to promote effective design and construction of buildings and civil engineering structures for sustainable infrastructure development in Hong Kong.

Established in July 2010, **the Hong Kong Constructional Metal Structures Association** aims to promote effective use of metal structures in construction in Hong Kong and neighbouring areas through technical exchange and collaboration on education, research and development, and professional practice among universities, research institutes and industrial associations.

Supported by:



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Time	Program
9:00 am	<p>Opening Ceremony</p> <p>Guest of Honour Ir C.K. Hon <i>Permanent Secretary for Development (Works), Development Bureau, the Government of Hong Kong SAR</i></p> <p>Report on the work of CNERC</p> <p>Signing of Collaboration Agreements</p>
9:30 am Presentation 1	<p>《國際鋼結構工程技術研討會》大會主題報告 —</p> <p>報告主題： 鋼管約束混凝土結構的研究應用及發展 報告人： 周緒紅院士 重慶大學校長</p>
10:15 am	Refreshments
10:45 am Presentation 2	<p>Recent developments for constructional steel Professor Reidar Bjorhovde <i>The Bjorhovde Group, U.S.A.</i></p>
11:30 am Presentation 3	<p>High strength steel and concrete for composite construction Professor Richard J.Y. Liew <i>National University of Singapore, Singapore</i></p>
12:15 pm	Lunch Break
2:00 pm Presentation 4	<p>Recent progress on developing a specification for high strength steel structures Professor Y.J. Shi <i>Tsinghua University, Beijing, China</i></p>
2:35 pm Presentation 5	<p>The strength of connections with welds or high-strength bolts for high strength structural steel Professor G.Q. Li <i>Tongji University, Shanghai, China</i></p>
3:10 pm	Refreshments
3:25 pm Presentation 6	<p>Design of steel beam-column under combined compression and bending Professor Leroy Gardner <i>Imperial College London, U.K.</i></p>
4:00 pm Presentation 7	<p>Advances in steel and composite structures in Australia Professor Brian Uy <i>The University of New South Wales, Australia</i></p>
4:35 pm Presentation 8	<p>Effective use of high strength structural steel in building construction Ir Professor K.F. Chung <i>The Hong Kong Polytechnic University, Hong Kong SAR, China</i></p>
5:10 pm	Closing Remarks
5:15 pm	End of Day