

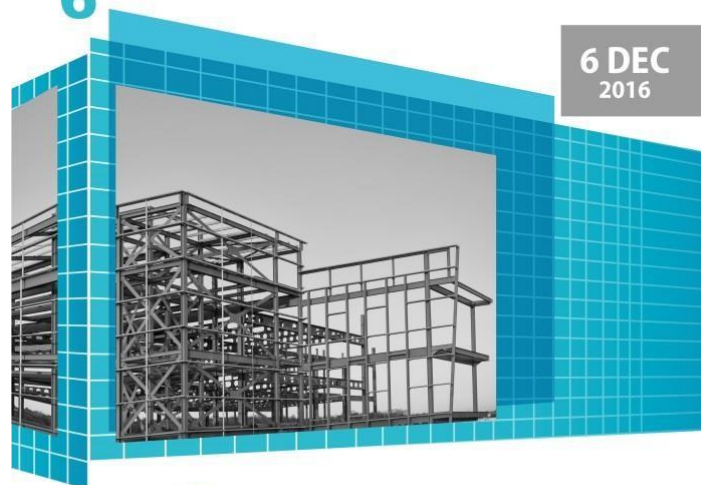
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International Symposium on Advances in Steel and Composite Structures 2016, Hong Kong SAR 2016.12.06

An International Symposium on “*Advances in Steel and Composite Structures 2016*” jointly organized by the Chinese National Engineering Research Centre for Steel Construction (Hong Kong Branch) (CNERC) of the Hong Kong Polytechnic University and the Hong Kong Constructional Metal Structures Association (HKCMSA), was successfully held on 6 December 2016 with a total of 146 registrants attended.



2016 International Symposium on Advances in Steel and Composite Structures 國際鋼結構與組合結構工程技術研討會 香港理工大學 二零一六年十二月六日



The International Symposium 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.

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:

Prof. X.H. Zhou	<i>Academician, China Academy of Engineering, and President, Chongqing University</i>
Prof. Reidar Bjorhovde	<i>The Bjorhovde Group, U.S.A.</i>
Prof. Richard J. Y. Liew	<i>National University of Singapore, Singapore</i>
Prof. Y.J. Shi	<i>Tsinghua University, China</i>
Prof. G.Q. Li	<i>Tongji University, China</i>
Prof. Leroy Gardner	<i>Imperial College London, U.K.</i>
Prof. Brian Uy	<i>The University of Sydney, Australia</i>
Prof. K.F. Chung	<i>The Hong Kong Polytechnic University, Hong Kong</i>

The following distinguished guests and senior engineers also attended the Opening Ceremony:

Ir Y. K. Cheng	Institution of Structural Engineers, U.K.
Ir K. T. Leung	Joint Structural Division, The Hong Kong Institution of Engineers and the Institution of Structural Engineers.
Ir Joseph W.J. Chi	Materials Division, The Hong Kong Institution of Engineers.
Ir H.Y. Lee	Hong Kong Constructional Metal Structures Association.
Mr. Y.C. Leong	Macau Society Metal Structures.
Mr. K.C. Law	Macau Society Metal Structures.
Ir Richard S.M. Lee	Yau Lee Construction Co. Ltd.
Dr. Jackson Lau	Vocational Training Council (Tsing Yi).
Mr. Y.K. Pang	Hong Kong Constructional Metal Structures Association, and Macau Society of Metal Structures.
Prof. J. Di	Steel Construction Research Centre, Chongqing University.
Prof. Paul T.C. Pang	Department of Civil and Environmental Engineering, The Hong Kong Polytechnic University.
Ir Eric Chan	Joint Structural Division, The Hong Kong Institution of Engineers and the Institution of Structural Engineers.

Ir K.H. Mok

Hip Hing Construction Co. Ltd..

Mr. Matthew Lai

Wo Lee Steel Co. Ltd..

Dr. Andy Leung

Department of Civil and Environmental Engineering, The Hong Kong Polytechnic University.

Office-bearers of CNERC

Ir Prof. K.F. Chung

Director

Ir Dr. Michael C.H. Yam

Deputy Director and Secretary General

Ir Prof. Joseph Y.W. Mak

Chief Engineer

Dr. T. M. Chan

Deputy Secretary General

Dr. H. C. Ho

Deputy Secretary General



Prof. K.F. Chung, Prof. X.H. Zhou, Ir C.K. Hon and Ir K.T. Leung.



About 146 delegates attended the event.

During the Opening Ceremony, Ir C.K. Hon, Permanent Secretary for Development (Works), Development Bureau, the Government of Hong Kong SAR gave an inspirational speech to all delegates of the Symposium as the Guest of Honour. This followed by a report presented by Prof. K.F. Chung, Director of CNERC, on research and development activities of the CNERC since its establishment in October 2015.



Ir C.K. Hon delivered his Opening Speech.



Prof. K.F. Chung reported on research and development activities of the CNERC.

After that, Prof. X.H. Zhou and Prof. K.F. Chung signed a collaboration agreement on constructional steel research, and witnessed by Dr. Michael C.H. Yam and Prof. J. Di.



Signing of a collaboration agreement on constructional steel research 1st row from left:

Dr. Michael Yam, Prof. K.F. Chung, Prof. X.H. Zhou, and Prof. J. Di.

2nd from left: Mr. Y.K. Pang; Ir K.T. Leung, Ir C.K. Hon, Ir Y.K. Cheng, and Ir Prof. Joseph Mak.



Dr. T.M. Chan, Dr. H.C. Ho, Dr. Paul Lam, Prof. Paul Pang, Prof. K.F. Chung, Prof. Reidar Bjorhovde, Prof. Richard Liew, Prof. Leroy Gardner, Prof. Brian Uy, Prof. G.Q. Li, Prof. Y.J. Shi, and Ir H.Y. Lee.

**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.

Time	Program	
9:00 am	Opening Ceremony Master of Ceremony: Dr. T.M. Chan Guest of Honour Ir C.K. Hon <i>Permanent Secretary for Development (Works), Development Bureau,</i> <i>the Government of Hong Kong SAR.</i> Report on the work of CNERC Signing of Collaboration Agreements	
9:30 am Presentation 1	《國際鋼結構工程技術研討會》大會主題報告 — 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	Ir Y.K. Cheng <i>Past President</i> IStructE
10:15 am	Refreshments	
10:45 am Presentation 2	Recent developments for constructional steel Professor Reidar Bjorhovde <i>The Bjorhovde Group, U.S.A.</i>	Ir Dr. Paul H.F. Lam <i>Chairman</i> Education & Training Committee HKCMSA
11:30 am Presentation 3	High strength steel and concrete for composite construction Professor Richard J.Y. Liew <i>National University of Singapore, Singapore</i>	
12:15 pm	Lunch Break	
2:00 pm Presentation 4	Recent progress on developing a specification for high strength steel structures Professor Y.J. Shi <i>Tsinghua University, Beijing, China</i>	Ir Dr. Michael C.H. Yam <i>Deputy Director & General Secretary</i> CNERC
2:35 pm Presentation 5	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>	
3:10 pm	Refreshments	
3:25 pm Presentation 6	Design of steel beam-column under combined compression and bending Professor Leroy Gardner <i>Imperial College London, U.K.</i>	Ir Prof. Joseph Y.W. Mak <i>Chief Engineer</i> CNERC
4:00 pm Presentation 7	Advances in steel and composite structures in Australia Professor Brian Uy <i>The University of New South Wales, Australia</i>	
4:35 pm Presentation 8	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>	
5:10 pm	Closing Remarks Dr. T.M. Chan <i>The Hong Kong Polytechnic University, Hong Kong SAR, China</i>	
5:15 pm	End of Day	

Prof. X.H. Zhou, Academician, China Academy of Engineering, and President, Chongqing University gave a presentation titled “*Research and prospect of steel tubed concrete structures*”.



Prof. X.H. Zhou, President of the Chongqing University.

Prof. Reidar Bjorhovde, The Bjorhovde Group, gave a presentation on “*Recent developments for constructional steel*”.



Prof. Reidar Bjorhovde, The Bjorhovde Group, U.S.A..

Prof. Richard J.Y. Liew, National University of Singapore, gave a presentation on “*High strength steel and concrete for composite construction*”.



Prof. Richard Liew, National University of Singapore.

Prof. Y.J. Shi, Tsinghua University, gave a presentation on “*Recent progress on developing a specification for high strength steel structures*”.



Prof. Y.J. Shi, Tsinghua University, China.

Prof. G.Q. Li, Tongji University, gave a presentation on “*The strength of connections with welds or highstrength bolts for high strength structural steel*”.



Prof. G.Q. Li, Tongji University, China.

Prof. Leroy Gardner, Imperial College London, gave a presentation on “*Design of steel beam-column under combined compression and bending*”.



Prof. Leroy Gardner, Imperial College London, U.K.

Prof. Brian Uy, The University of Sydney, gave a presentation on “*Advances in steel and composite structures in Australia*”.



Prof. Brian Uy, The University of Sydney, Australia.

Prof. K.F. Chung, The Hong Kong Polytechnic University, gave a presentation on “*Effective use of high strength structural steel in building construction*”.



Prof. K.F. Chung, The Hong Kong Polytechnic University, Hong Kong SAR.



A general view on the delegates.



Mr. Y.K. Pang, Mr. Y.C. Leong,
Dr. Michael Yam, Prof. G.Q. Li., Ir C.K. Hon, Ir Prof. Joseph Mak, and Dr. H.C. Ho.



Dr. Michael Yam, Prof. K.F. Chung, Prof. X.H. Zhou, Ir Prof. Joseph Mak, Prof. J. Di and Dr. T.M. Chan.



Prof. J. Di, Prof. G.Q. Li, Prof. Y.J. Shi, Prof. Richard Liew, Prof. Leroy Gardner, Prof. Brian Uy
Ir Prof. Joseph Mak, Ir K.T. Leung,
Ir Y.K. Cheng, Prof. X.H. Zhou, Ir C.K. Hon, Prof. K.F. Chung, Dr. Michael Yam.



Prof. Brian Uy, Prof. K.F. Chung, Ir T.K. Leung, Prof. Leroy Gardner, Prof. X.H. Zhou,
Prof. Richard Liew, and Prof. Y.J. Shi



Mr. Y.K. Pang, Mr. Y.C. Leong, Prof. X.H. Zhou, Mr. K.C. Lo and Dr. T.M. Chan.



Prof. Richard Liew, Prof. X.H. Zhou, and Prof. G.Q. Li together with research personnel of the CNERC.



Dr. T.M. Chan, Dr. Michael Yam, Prof. Brian Uy, Prof. Sebastião Andrade, Prof. André Tenchini, Prof. Luis Costa Neves, Prof. Pedro Vellasco, Prof. Luciano Lima, Prof. Leroy Gardner, Prof. Reidar Bjorhovde, Prof. Richard Liew, Prof. K.F. Chung.



Dr. Ray Su, Prof. X.H. Zhou and Prof. K.F. Chung



Dr. Paul Lam and Dr. T.M. Chan



Dr. Michael Yam and Dr. Jackson Lau



Prof. Reidar Bjorhovde and Prof. X.H. Zhou



Dinner among friends!