



THE HONG KONG
POLYTECHNIC UNIVERSITY
香港理工大學



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)

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International Symposium on Advances in Steel and Composite Structures 2017 2017.11.24

An International Symposium on “*Advances in Steel and Composite Structures 2017*” 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 24 November 2017 with over 130 delegates from England, Malaysia, Mainland China, Hong Kong, and Macau attended.



The Symposium also gathered support from the Development Bureau of the Government of Hong Kong SAR and the Construction Industry Council in Hong Kong.

In the coming decades, advances in Steel and Composite Structures are important to practicing engineers in Hong Kong due to huge demands on infrastructure construction, especially in China and the "Belt and Road" region. 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 provided a technical platform for the following renowned researchers and engineers to disseminate their experiences and research findings on advanced construction technology of steel and composite structures as well as “Modular construction for residential buildings” with special emphases on practical applications:

- Professor Mark R. Lawson The Steel Construction Institute, U.K.
- Mr. James Law, JP James Law Cyberecture, Hong Kong SAR, China
- Prof. Wang Hong China Construction Steel Structure Corp. Ltd., China
- Ir Naeem Hussain ARUP Hong Kong SAR, China
- Ir K.H. Mok Hip Hing Construction Hong Kong SAR, China
- Dr. Aaron J. Wang CapitaLand Shanghai, China
- Professor H.H. Lau Curtin University, Malaysia
- Ir Professor K. F. Chung Hong Kong Polytechnic University, Hong Kong SAR, China

The following guests had attended the Opening Ceremony:

- Ir C. K. Hon, JP Permanent Secretary for Development (Works),
Development Bureau of the Government of Hong Kong SAR, China
- Prof. Alexander Wai Vice President (Research Development), Hong Kong Polytechnic
University, Hong Kong SAR, China
- Ir K.T. Leung Architectural Services Department
- Dr. Raymond Cheung Development Bureau (Works)
- Mr. Mark Fu Transport and Housing Bureau
- Ms. Winnie Wong Innovation and Technology Commission
- Mr. Hammnus Chui Housing Department
- Ir L. X. Dai China Construction Steel Structure Corp. Ltd.
- Dr. L. Gu China Construction Steel Structure Corp. Ltd.
- Mr. Z. M. Chen China Construction Steel Structure Corp. Ltd.
- Dr. H. Y. Shen China Construction Steel Structure Corp. Ltd.

- Prof. Y. L. Xu Hong Kong Polytechnic University
- Prof. William Lam Hong Kong Polytechnic University
- Mr. Y. K. Pang Hong Kong Constructional Metal Structures Association

- Dr. Paul Lam Hong Kong Constructional Metal Structures Association

- Ir H. Y. Lee Hong Kong Constructional Metal Structures Association
- Prof. S. L. Chan Hong Kong Polytechnic University
- Prof. C. S. Poon Hong Kong Polytechnic University
- Dr. Andy Leung Hong Kong Polytechnic University
- Dr. Michael Leung Hong Kong Polytechnic University
- Mr. W.C. Lee Hong Kong Polytechnic University
- Alvin Wong Hong Kong Polytechnic University
- Mr. Matthew Lai Wo Lee Steel Co., Ltd.
- Mr. Francis Yau Aurecon
- Mr. Lee Hoi Yuen Sino
- Mr. Alan Li Goldwave
- Mr. Chin Sai Ping AECOM

Office-bearers of CNERC:

Ir Prof. K.F. Chung	Director
Ir Prof. 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
Ir Victor Wu	Senior Project Fellow



From left: Prof. H. Wang, Prof. Alexander Wai, Ir C.K. Hon, Prof. K.F. Chung, Prof. Mark Lawson, and Ir K.T. Leung.



From left: Prof. K.F. Chung, Prof. Y.L. Xu, Prof. Alexander Wai, Ir C.K. Hon and Prof. Mark Lawson.



Over 130 delegates attended the Symposium.



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During the Opening Ceremony, Prof. Alexander Wai had given a Welcoming Speech, and Ir C. K. Hon being the Guest of Honor had officiated the Opening of the Symposium.



Opening Speech by Prof. Alexander Wai.



Prof. K.F. Chung presented a souvenir to Prof. Alexander Wai.



Ir. C.K. Hon officiating the Symposium.



Prof. K.F. Chung presented a souvenir to Ir C.K. Hon.

After the Opening Ceremony, Prof. Mark Lawson represented The Steel Construction Institute, U.K., and Ir L.X. Dai represented the China Construction Steel Structure Corp. Ltd., China, and Prof. K. F. Chung represented the Hong Kong Polytechnic University, signed a MOU on collaboration of steel construction engineering research.

The three parties will work together to promote the export of high quality Chinese steel products to countries along Hong Kong, Southeast Asia and the “Belt and Road” regions through Hong Kong’s overseas construction projects, as well as to promote Chinese steel industry to the world and speed up the internationalization of Chinese steel industry.

After that, Prof. Chung had given a progress report on recent development of the CNERC.



Front row from left: Prof. Mark Lawson, Prof. K.F. Chung, and Ir L.X. Dai

Back row from left: Ir K.T. Leung, Prof. Y.L. Xu, Ir C.K. Hon, Prof. Alexander Wai, Prof. H. Wang, and Mr. Y.K. Pang.



MOU signing ceremony.



Prof. K.F. Chung reported on recent development of the CNERC.

The Symposium Programme:

***International Symposium on
Advances in Steel and Composite Structures 2017***

Date : Friday, 24th November 2017

Venue : Senate Room M1603, Li Ka Shing Tower, The Hong Kong Polytechnic University.

Time : 9:00 am - 5:20 pm (Registration will start at 8:30 am)

Time	Program	
9:00 am	Opening Ceremony Welcoming Speech Professor Alex Wai, <i>VPRD</i> Guest of Honour Ir C.K. Hon, <i>Permanent Secretary for Development (Works)</i> <i>Development Bureau, the Government of Hong Kong SAR</i> Signing of MOU CNERC Report	Master of Ceremony: Ir Prof. Michael C. H. Yam <i>Deputy Director & General Secretary</i> CNERC
9:35 am Presentation 1	<i>Modular Construction for Residential Buildings</i> Professor Mark R. Lawson, The Steel Construction Institute	
10:15 am Presentation 2	<i>Adaptive City with Modular Structures</i> Mr. James Law JP, James Law Cybertecture	
10:35 am	Refreshments	
11:00 am Presentation 3	中国钢结构行业发展趋势 王宏教授 中建钢构有限公司	Ir Prof. Joseph Y. W. Mak <i>Chief Engineer</i> CNERC
11:40 am Presentation 4	<i>Effective Use of High Strength Steel Welded Sections in Buildings</i> Ir Professor K. F. Chung, The Hong Kong Polytechnic University	
12:20 pm	Lunch Break	
2:00 pm Presentation 5	<i>Design and Construction of Queensferry Crossing Scotland</i> Ir Naeem Hussain, ARUP	Dr. T.M. Chan <i>Deputy General Secretary</i> CNERC
2:40 pm Presentation 6	<i>Design and Construction of Xiqu Centre 戲曲中心</i> Ir K.H. Mok, Hip Hing Construction	
3:30 pm	Refreshments	
3:50 pm Presentation 7	<i>Steel: A Versatile Materials for Versatile Mega Buildings</i> Dr. Aaron J. Wang, CapitaLand Shanghai	Ir Dr. Paul H. F. Lam <i>Chairman Education & Training Committee</i> HKCMSA
4:30 pm Presentation 8	<i>Steel Construction in Malaysia – Opportunities and Challenges</i> Professor H. H. Lau, Curtin University Malaysia	
5:10 pm	Closing Remarks	
5:20 pm	End	



Prof. Mark Lawson presentation on “Modular Construction for Residential Buildings”.



Prof. Joseph Mak presented a souvenir to Prof. Mark Lawson.



Mr. James Law, JP presentation on “Adaptive City with Modular Structures”.



Prof. Joseph Mak presented a souvenir to Mr. James Law, JP.



Prof. H. Wang presentation on “Development Trends of China Steel Structure Industry”.



Prof. Joseph Mak presented a souvenir to Prof. H. Wang.



Prof. K.F. Chung presentation on “Effective Use of High Strength Steel Welded Sections in Buildings”.



Prof. K.F. Chung presented a souvenir to Prof. Mark Lawson.



Ir Naeem Hussain presentation on “Design and Construction of Queensferry Crossing Scotland”.



Dr. T.M. Chan presented a souvenir to Ir Naeem Hussain.



Ir. K.H. Mok presentation on “Design and Construction of Xiqu Centre”.



Dr. T.M. Chan presented a souvenir to Ir K.H. Mok.



Dr. Aaron Wang presentation on “Steel: A Versatile Materials for Versatile Mega Buildings”.



Dr. Paul Lam presented a souvenir to Dr. Aaron Wang.



Prof. H.H. Lau presentation on “Steel Construction in Malaysia – Opportunities and Challenges”.



Dr. Paul Lam presented a souvenir to Prof. H.H. Lau.



From left: Dr. H.Y. Shen, Ir L.X. Dai, Dr. L. Gu, and Mr. Z.M. Chen.



From left: Dr. H.Y. Shen, Ir L.X. Dai, Prof. K.F. Chung, Prof. H. Wang, Dr. L. Gu, and Mr. Z.M. Chen.