

CNERC

NEWSLETTER

August 2016 Issue

May - August 2016

FEATURE STORY

CNERC's Plaque Revealing Ceremony cum MOU Signing with the CNERC Beijing

On 1st August 2016, Prof. Yue Qing Rue, President of the Chinese National Engineering Research Centre for Steel Construction (CNERC) together with 7 delegates visited the Chinese National Engineering Research Center for Steel Construction (Hong Kong Branch) at the University. The establishment of the CNERC Hong Kong was granted by the Ministry of Science and Technology of the People's Republic of China in October 2015, and the CNERC Hong Kong was funded by the Innovation and Technology Funds of the Government of Hong Kong SAR. Prof. K. F. Chung, Associate Head of Department of Civil and Environmental Engineering, was appointed Director of the CNERC Hong Kong while Dr. Michael C. H. Yam, Associate Professor of Department of Building and Real Estate was appointed Deputy Director and General Secretary of the CNERC Hong Kong. It should be noted that the CNERC was established in 2011 under administration of the Chinese Metallurgical Construction Research Institute (CMCRI), and Prof. Yue Qing Rue is also President of the CMCRI.



Delegates from Mainland China attending the MOU signing ceremony.



CNERC's plaque revealing ceremony.



Prof. Yue Qing Rue and Prof. K.F. Chung giving opening speech and reporting on progress of the Hong Kong Branch of CNERC respectively.



MOU signing by respective leaders.

The collaboration is also supported by the Chinese Iron and Steel Association, Tsinghua University, the University of Science and Technology Beijing, the Hong Kong Constructional Metal Structures Association, and the Macau Society of Metal Structures.

Prof. Yue was invited to give an opening speech, and then Prof. Chung gave a brief report on progresses on research projects. The signing of the MOU was witnessed by Prof. Y. L. Xu, Dean of FCE.

A MOU was signed among the CMCRI, the CNERC, and the CNERC Hong Kong for a period of 3 years with a focus on technological collaboration on:

- i) material specifications and structural design recommendations for modern Chinese steel materials;
- ii) effective application of high strength steel materials Q690 and Q960;
- iii) certification on steelwork fabrication and metal building envelopes; and
- iv) continuing education and technical training on modern steel construction.

NEWS

Technical Seminar on Effective Design and Construction to Structural Eurocodes

A Technical Seminar on “Effective Design and Construction to Structural Eurocodes: EN 1990 & 1991, EN 1992, EN 1993 and EN 1994” jointly organized by the Hong Kong Constructional Metal Structures Association (HKCMSA) and The Chinese National Engineering Research Centre for Steel Construction (Hong Kong Branch), The Hong Kong Polytechnic University (CNERC) was successfully held on 24th June 2016 with a total of 78 registrants attended.

With joint efforts of all the organizing and supporting units, the following speakers (in order of appearance) were invited to deliver one or more sessions in the Technical Seminar, aiming to promote effective design and construction to Structural Eurocodes with special emphasis on practical application:

Ir Dr. Michael C. H. Yam

Associate Professor at the Department of Building and Real Estate, PolyU, Deputy Director and Secretary General of the CNERC, and Vice President of the HKCMSA;

Dr. Tak-Ming Chan

Assistant Professor at the Department of Civil and Environmental Engineering, PolyU, and Deputy Secretary General of the CNERC;

Ir Dr. Simon Wong

Associate Professor and Programme Leader of Civil Engineering at the Technological and Higher Education Institute of Hong Kong;

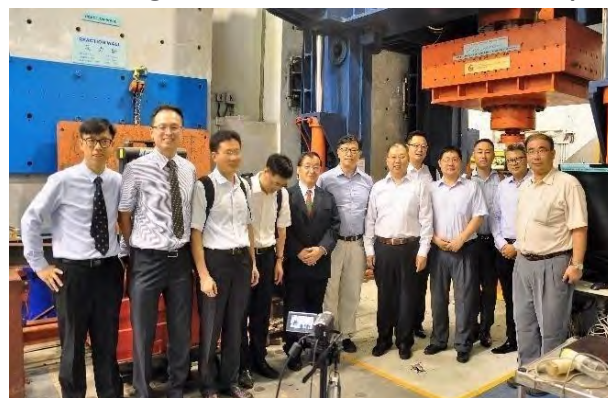
Dr. Paul H. F. Lam

Associate Professor at the Department of Architecture and Civil Engineering at the City University of Hong Kong, and Chairman of Education and Training Committee of the HKCMSA; and

Ir Prof. Kwok-fai Chung

Professor and Associate Head at the Department of Civil and Environmental Engineering, PolyU, Director of the CNERC and President of the HKCMSA.

After the MOU signing ceremony, Prof. K. F. Chung led the delegates to visit the CNERC laboratory.



Delegates visiting the CNERC laboratory.

The Technical Seminar is a part of the Professional Development Programme of the HKCMSA and the CNERC. The event is also supported by Construction Industry Council, The Institution of Civil Engineers – Hong Kong Association, and Department of Civil and Environmental Engineering, The Hong Kong Polytechnic University (PolyU).



A full house of 78 delegates had attended the Technical Seminar.

The Programme aims to introduce Structural Eurocodes to practicing civil and structural engineers in Hong Kong through coordinated presentations on structural behaviour, design development, and codified rules in order to enhance their technical capabilities.



Practical application and up-to-date industry knowledge were delivered to practising civil and structural engineers in Hong Kong.

NEWS

CNERC 1st official visit – Visit to Singapore

The CNERC paid its first official visit to Singapore from 26th to 30th July 2016 to explore latest developments and innovations in steel construction adopted by the steel construction industry in Singapore.

During the 5-day visit, the delegation team visited the following organizations:

- The Building and Construction Authority
- Singapore Structural Steel Society
- The National University of Singapore
- The Nanyang Technological University
- The Singapore Institute of Technology
- Yongnam Engineering and Construction Pte Ltd.
- TTJ Design and Engineering Pte Ltd.

The CNERC delegation team had taken the opportunities to introduce the Centre, and to share its current research plans and latest developments to all the counterparts in Singapore. Possible collaborations on research and development had also been explored.



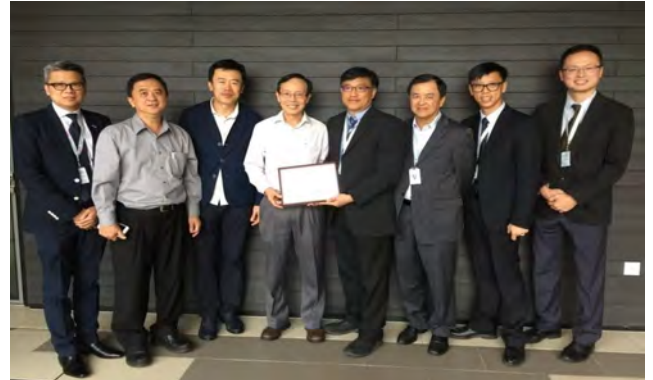
Academic exchange on steel construction between the delegation team and Prof. Richard Liew, National University of Singapore on 28th July 2016.



Prof. K.F. Chung presenting a souvenir to Mr. Hiroyuki Takedagawa, Chief Operations Director of Yongnam.



In the late morning of 28th July 2016, the CNERC delegation team had a meeting with the Building and Construction Authority (BCA). Ir Joseph Mak of the CNERC gave a presentation and shared his views with the BCA about relevant testing and certification schemes widely adopted in Hong Kong.



Visit of the BCA – From left to right: the delegation team with Prof. S.P. Chiew, SIT, Prof. Richard Liew, NUS and Er. K.C. Chew, Group Director of BCA.



Visit the Singapore Institute of Technology on 27th July 2016, the CNERC delegation team with Prof. S.P. Chiew, Professor of Civil Engineering, Mr. Arthur Poh, Director of Enterprise & Innovation Hub and Dr. Ng Khee Yang, Assistant Director of Enterprise & Innovation Hub.



Visit one of the largest steel fabricators in Singapore, Yongnam Engineering & Construction Pte Ltd.. Yongnam.



Meeting with the Singapore Structural Steel Society to exchange information on recent developments on steel construction in Singapore, Hong Kong and the Mainland China.

In the afternoon of 28th July 2016, the CNERC delegation team visited TTJ Design and Engineering Pte Ltd., a structural steelwork specialist with a portfolio of successfully completed projects in the industrial, commercial and government sectors of Singapore.



TTJ is one of the leading structural steel specialists in Singapore. Its factories are specially designed around an in-line production concept based on Computerised Numerically Controlled machinery.

On 29th July 2016, the delegation team visited the Nanyang Technological University (NTU), and met both Prof. Philip Tan and Prof. Y.W. Yang from the School of Civil and Environmental Engineering. After Prof. K.F. Chung gave a technical presentation on “Structural Fire Engineering Appraisal of the Cross Harbour Tunnel”, they exchanged information on recent projects on fire testing on steel structures, and related research and development work commissioned by the Land Transport Authority.



Visit the School of Civil and Environmental Engineering, Nanyang Technological University.

Having technical exchanges with the government officials, world class researchers and academics in steel construction, and witnessing steelwork fabrication in action, the CNERC is very excited about opportunities in steelwork construction there, and looking forward to having further collaborations with the counterparts in Singapore.



Presentations made by members of a NTU research team led by Prof. S.P. Chiew and Prof. C.K. Lee.

NEWS

Visit to Chongqing University, Chongqing, China

The CNERC visited Prof. Zhou Xuhong, Member of Chinese Academy of Engineering, and President of Chongqing University (CQU) from 21st to 23rd August 2016. The delegation team consisted of:

- Ir Prof. K.F. Chung Director
- Ir Dr. Michael C. H. Yam Deputy Director
 & Secretary General
- Dr. T. M. Chan Deputy Secretary General

The delegation team was glad to enjoy company of Prof. Li, Guoqiang, Tongji University who also visited Prof. Zhou during that period of time.



Presentation by Prof. K.F. Chung.

Presentation by Dr. Michael Yam.



Group photo of the delegation team with Prof. Zhou and his research team at the College of Civil Engineering of the CQU.

The delegation team was glad to enjoy company of Prof. Li, Guoqiang, Tongji University who also visited Prof. Zhou during that period of time.

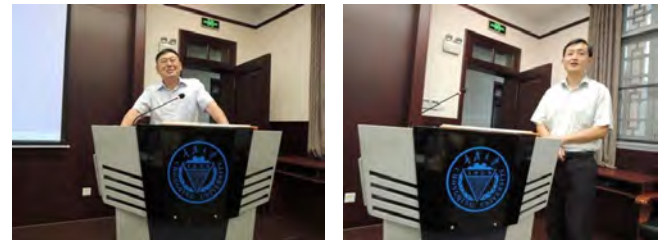


Prof. Zhou explaining to the delegation team developments of the CQU.

One of the main objectives of the visit was to explore opportunities for research collaboration with the Research Centre for Steel Structures Engineering of the CQU, and its key officials are:

- Prof. Zhou Xuhong Director
- Prof. Liu Jiupang Deputy Director
- Prof. Di Jin Deputy Director

In the morning of 22nd August 2016, the delegation team visited the College of Civil Engineering of the CQU, and made a series of presentations to introduce the latest development of the CNERC and its current research interests.



Opening address by Prof. X.H. Zhou.

Introductory address by Prof. J.P. Liu.

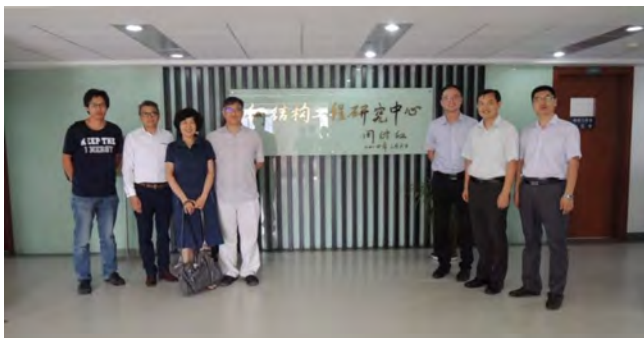
The delegation team also visited the Experimental Center of Civil Engineering and the President's Office of the CQU.



The delegation team at the Experimental Center of Civil Engineering.



The delegation team with Prof. J.P. Liu in front of the President's Office of the CQU.



The delegation team visiting the Research Center for Steel Structures Engineering.

This visit paved the way for further research collaboration, and academic exchanges and mobility between two the CNERC and the CQU. The CNERC looked forward to work with the CQU through various joint-research projects.

In the morning of the 23rd August 2016, the delegation team visited the Research Centre of Steel Structures Engineering, and discussed with both Prof. J.P. Liu and Prof. J. Din as well as their research teams to explore potential research collaborations. The following topics were discussed:

- Application of high strength steel materials in bridges, and fatigue behavior.
- High strength steel members in steel and composite structures: columns, beams and joints.
- Smart materials in seismic resistant structures.
- Fire engineering and applications.



Discussion forum at the Research Centre for Steel Structures Engineering.

Upcoming Event

International Symposium on Advances in Steel and Composite Structures 2016

An International Symposium on “Advances in Steel and Composite Structures 2016” will be jointly organized by the CNERC and the Hong Kong Constructional Metal Structures Association on 6th December 2016. It will provide 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	Academician, China Academy of Engineering, and President, Chongqing University
Prof. Reidar BJORHOVDE	The BJORHOVDE Group, U.S.A.
Prof. Richard J.Y. LIEW	National University of Singapore, Singapore
Prof. Y.J. SHI	Tsinghua University, China
Prof. G.Q. LI	Tongji University, China
Prof. Leroy GARDNER	Imperial College London, U.K.
Prof. Brian UY	The University of Sydney, Australia
Prof. K.F. CHUNG	The Hong Kong Polytechnic University, Hong Kong

Contact Us

The Chinese National Engineering Research Centre for Steel Construction
(Hong Kong Branch)
The Hong Kong Polytechnic University
Hung Hom, Kowloon, Hong Kong SAR, China

Phone: 3400 8441
Email: cnerc.steel@polyu.edu.hk
Website: www.polyu.edu.hk/cnerc-steel