

# CNERC

## NEWSLETTER

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### FEATURE STORY

#### Establishment of Steel Construction and Fabrication Committee

Effective steel fabrication and construction is a crucial part of development for a striving steel construction industry in Hong Kong, and a successful implementation will lead to an overall savings in construction cost together with quality and sustainable end-products. After discussions with various stakeholders, it was considered highly beneficial to set up a “Steel Fabrication and Construction Committee” which served as an effective communication platform for industrial development and experience sharing. CNERC has therefore taken up the task to collaborate amongst government departments, designers and contractors, steel building product suppliers and steelwork fabricators as well as testing laboratories to form the Committee.

The Committee was established in March 2017 with the following terms of reference:

1. To set up a platform to promote steel construction in Hong Kong.
2. To collate construction and fabrication experience, and channel it to the Development Bureau of the Government of Hong Kong SAR for positive input to current specifications in both public and private projects.
3. To explore innovative materials and construction technology of structural steel and coordinate pilot trials for implementation.
4. To draft a series of manuals incorporating construction practice of structural steel for use by engineers and supervisors as well as by quality assurance and testing personnel on site and in factory.
5. To promote deployment of qualified and highly skilled welders in both public and private projects through collaboration with prevailing vocational training institutes in the industry.

On 10th April 2017, the Committee held its first meeting and discussed the following items:

1. Current specifications use in government projects and specifications adopted by consultants in private projects.
2. Professional manuals incorporating current construction practice of structural steel for use by engineers and supervisors.
3. Quality assurance and testing in factory and construction site.
4. Promoting deployment of more qualified and skilled welders in both government and private projects through training institutes.



Many members proactively expressed their views on steel industry.

## List of Committee Member:

<b>Chairman</b>	<b>Prof. K. F. Chung</b> <i>CNERC</i>
<b>Vice Chairman</b>	<b>Ir Joseph Y.W. Mak</b> <i>CNERC</i>
<b>Vice Chairman</b>	<b>Ir C. F. Chan</b> <i>Gammon Construction Ltd.</i>
<b>Secretary</b>	<b>Mr. Eric Siu</b> <i>CNERC</i>

## Members

<b>Ir Dr. Raymond Cheung</b>	<i>Development Bureau</i>	<b>Ir Sam Choy</b>	<i>Mass Transit Railway Corporation</i>
<b>Ir K. T. Leung</b>	<i>Architectural Services Department</i>	<b>Ir Alcohol Mok</b>	<i>Hip Hing Construction Ltd.</i>
<b>Ir K. S. Kwan</b>	<i>Housing Department</i>	<b>Ir Tony Chan</b>	<i>Genetron Engineering Co. Ltd.</i>
<b>Ir H.Y. Lee</b>	<i>Hong Kong Constructional Metal Structures Association</i>	<b>Mr. Matthew Lai</b>	<i>Wo Lee Steel Co. Ltd.</i>
<b>Ir Alan Yau</b>	<i>AECOM</i>	<b>Mr. Patrick Lau</b>	<i>VCC Steel Company Ltd.</i>
<b>Ir Adam Choy</b>	<i>Meinhardt (C&amp;S) Ltd.</i>	<b>Mr. Jacson Li</b>	<i>KYH Steel Company Ltd.</i>
<b>Ir K. K. Kwan</b>	<i>Ove Arup and Partners</i>	<b>Ir Norman Lee</b>	<i>Castco Testing Centre Ltd.</i>
<b>Ir Goman Ho</b>	<i>Ove Arup and Partners</i>	<b>Dr. Felix Chan</b>	<i>Fugro Technical Services Ltd.</i>

# NEWS

## Technical Committee Meeting in Beijing

In accordance with the requirements of the Ministry of Construction of the People's Republic of China, the Metallurgical Corporation of China Ltd. (MCC) set up a Technical Committee to develop a Chinese national standard on "Technical Specifications for Composite Structures". On 17th February 2017, the Technical Committee held its first technical meeting, and Prof. K. F. Chung was being invited as a member of the Technical Committee.



Group photo of the Technical Committee.

# NEWS

## Prof. David Nethercot, Advisor of CNERC

CNERC was honoured to have Prof. David Nethercot, Emeritus Professor of Imperial College London and Distinguished Chair Professor of Structural Engineering and Steel Construction at PolyU, as well as Advisor of CNERC visited the Centre during 21 to 24 February 2017.

Prof. Nethercot delivered a lecture entitled “Designing Buildings to Better Resist Progressive Collapse” jointly organized by CNERC and FCE at PolyU on 21 February 2017 with about 120 people in attendance.



Prof. Nethercot delivered a lecture entitled “Designing Buildings to Better Resist Progressive Collapse”.



Prof. K.F. Chung, Prof. D. Nethercot and Dr. T. M. Chan

## Prof. S. Kitipornchai, Advisor of CNERC

Prof. Sritawat Kitipornchai, Emeritus Professor of University of Queensland paid an intensive 2-day visit to CNERC from 6th to 7th March 2017. During his stay, Prof. Kitipornchai gave advice on development of the Centre. He had meetings with the Office Bearers of CNERC, academic faculty of the Department of Civil and Environmental Engineering (CEE), as well as research personnel of CNERC.



Prof. Kitipornchai had a meeting with the Office Bearers of CNERC.



Prof. Kitipornchai visited the Structural Engineering Research Laboratory.



Prof. Kitipornchai met with research personnel and students.

For details of the visit reports of Prof. David Nethercot and Prof. S. Kitipornchai, check out our website at:

<https://www.polyu.edu.hk/cnerc-steel/news-events-previous.html>

## UPCOMING EVENT

The CNERC is organizing various activities engaging the academic and industrial counterparts from time to time, and here are highlights of our upcoming events:

### Technical Seminar on Effective Design and Construction to Structural Eurocodes: EN 1990 & 1991, EN 1992, EN 1993 and EN 1994

**Date:** 12 May 2017 (Friday)

**Time:** 9 a.m. – 5.15 p.m.

**Venue:** AG710, PolyU

**Highlight:** The Eurocodes are a new set of European structural design codes for building and civil engineering works. Conceived and developed over the past 40 years with the combined expertise of the member states of the European Union, they are arguably the most advanced structural codes in the world. The Eurocodes are intended to be mandatory for European public works and likely to become the de-facto standard for the private sector – both in Europe and world-wide. The structural Eurocodes had been available as European pre-standards (ENVs) for several years, and all of them had been published as full European Standards (ENs) in 2007.

This Technical Seminar aims to promote effective design and construction to Structural Eurocodes with special emphasis on practical application, and the presentations are delivered by:

Owing to the withdrawal of various British structural design standards in March 2010, the Works Bureau of the Government of Hong Kong SAR has been migrating to Eurocodes in stages for the design of public works civil engineering structures while mandatory adoption of Eurocodes commences in 2015. Moreover, as many countries, in particular, Asian countries, have already adopted the structural Eurocodes for design and construction of building structures, there is a growing need for design and construction engineers in Hong Kong to acquire the new skills.

**Ir Prof. J. S. Kuang**

*The Hong Kong University of Science and Technology*

**Ir Prof. K. F. Chung**

*The Hong Kong Polytechnic University*

**Dr. T. M. Chan**

*The Hong Kong Polytechnic University*

**Dr. Paul H. F. Lam**

*The City University of Hong Kong*

**Ir Dr. Michael C. H. Yam**

*The Hong Kong Polytechnic University*

## UPCOMING EVENT

### International Conference on Engineering Research and Practice for Steel Construction 2018

**Highlight:** This is the First International Conference organized by CNERC to promote engineering research and practice of steel construction. It will also provide a forum for discussion and development of effective design and construction of steel as well as steel-concrete composite construction.

**Organizers:** Chinese Steel National Engineering Research Centre for Steel Construction (Hong Kong Branch)

**Conference Theme:** Perspective on the Future of Steel and Composite Construction

For details of the CNERC's upcoming events, check out our website at:  
<https://www.polyu.edu.hk/cnerc-steel/news-events-upcoming.html>

## Contact Us

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