

The 11th Pacific Structural Steel Conference, Shanghai, China 2016.10.29-31

The 11th Pacific Structural Steel Conference (PSSC) jointly organized by the China Steel Construction Society (CSCS), the Tongji University, the Chinese National Engineering Research Centre for Steel Construction (CNERC BJ), and the Central Research Institute of Building and Construction Co. Ltd. (CRIBC) was held from 29th to 31st October 2016. Director of the CNERC HK, Prof. K.F. Chung was invited by Prof. Qingrui Yue, President of CSCS, CNERC BJ and CRIBC to attend the Conference, and to report latest development of the CNERC. Prof. K.F. Chung was also invited to chair the Keynote Presentations of the Closing Ceremony of the Conference.

The Conference was sponsored by:

- Shanghai Construction Group Co. Ltd.,
- Fujian Eighteen Heavy Industry Co. Ltd.,
- Baosteel Construction Co. Ltd.,
- Shanghai Baoye Group Corp. Ltd.,
- Shanghai Greenland Construction Group Co. Ltd.,
- Yunnan Kungang Steel Structure Co. Ltd.,
- Zhejiang Southeast Space Frame Co. Ltd.,
- Duowei Union Group Co. Ltd.,
- Zhejiang Jingong Steel Building Group Co. Ltd., and
- Butler (Shanghai) Inc. Ltd.

The PSSC aims to promote industrial collaboration among structural steel associations in the Pacific Rim, and is a major global event to address issues on structural steelwork as well as the steel industry. The first PSSC was organized by the New Zealand Heavy Engineering Research Association in 1986, and the PSSC is held every three years thereafter.

| Year | Country | Organizer |
|------|-------------|--|
| 1986 | New Zealand | Heavy Engineering Research Association |
| 1989 | Australia | Australian Steel Institute |
| 1992 | Japan | Japan Society of Steel Construction |
| 1995 | Singapore | Singapore Structural Steel Society |
| 1998 | Korea | Korean Society of Steel Construction |
| 2001 | China | China Steel Structure Association |
| 2004 | U.S.A. | American Institute of Steel Construction |
| 2007 | New Zealand | Steel Construction New Zealand |
| 2010 | China | China Steel Structure Association |
| 2013 | Singapore | Singapore Structural Steel Society |
| 2016 | China | China Steel Structure Association |

The Council of the PSSC16 consisted of:

- Singapore Structural Steel Society
- Canadian Institute of Steel Construction
- Steel Construction New Zealand
- Japan Society of Steel Construction
- Korean Society of Steel Construction
- China Steel Construction Society
- Australian Steel Institute
- American Institute of Steel Construction
- Chilean Steel Institute
- Mexican Institute of Steel Construction

The PSSC'16 was successfully held from 29th to 31st October 2016 in Shanghai, and attracted expertises and academics from around the world including the Mainland China, U.S.A., Australia, Japan, Korea, New Zealand and South Africa.



The CNERC HK delegation team consisted of:

- Ir Prof. CHUNG, Kwok Fai Director
- Ir Dr. YAM, Chi Ho Deputy Director & Secretary General
- Dr. HO, Ho Cheung Deputy Secretary General
- Dr. SHEN, Min Hui Postdoctoral Fellow
- Mr. LIU, Xiao Research Associate
- Mr. WANG, Kai Research Associate
- Mr. PANG, Yiu Kwong Secretary General, Hong Kong Constructional Metal Structures Association



PSSC Meeting



Dr. H.C. Ho, Prof. K.F. Chung, Prof. Q.R. Yue, Prof. X.H. Zhou,
Prof. G.Q. Li, Ir Z.X. Hou, and Mr. Y.K. Pang

The following renowned speakers gave presentations during the Opening Ceremony and the Closing Ceremony:

- Prof. Z.Y. Shen, Academician, Tongji University, China
- Prof. X.H. Zhou, Academician, Chongqing University, China
- Prof. S.P. Chiew, Singapore Institute of Technology, Singapore
- Prof. Yozo Fujino, Yokohama National University, Japan
- Prof. Y.B. Yang, Former President, National Taiwan University, Taiwan
- Prof. J.G. Nip, Academician, Tsinghua University, China
- Prof. Bassam A. Izzuddin, Imperial College London, U.K.
- Prof. Kim J.R. Rasmussen, The University of Sydney, Australia
- Mr. Mark P. Sarkisian, SOM Consulting Co. Ltd., U.S.A.
- Mr. Alfred Wong, Canadian Institute of Steel Construction, Canada
- Mr. J.H. Kim, Chang Minwoo Structural Consultants, Korea

Their presentations set the theme for the Conference that participants could fully understand the status of structural steel industry in both China and overseas, existing barriers as well as potentials of further development and promotion of the structural steel industry.

As one of the Co-organizers, the CNERC delegates actively participated in various activities and sessions of the Conference. Moreover, the CNERC delegates reported recent developments and major achievement of the CNERC in technical sessions, interacted with participants from around the world, and proactively promoted the CNERC as a bridge between China and overseas on steel construction.

In the technical sessions, the CNERC delegates presented a total of 5 technical papers, and received recognition from conference participants on advancing modern steel and steel-concrete composite structures. The titles of the technical papers are listed as follows:

- Recent Developments on Design and Construction to Structural Eurocodes Using Equivalent Steel Materials
by Prof. K.F. Chung
- Experimental Investigation into High Strength Steel Columns of Q690 Welded H-sections
by Prof. K.F. Chung
- Shear Lag of Bolted and Welded Connections with High Strength Steels
by Dr. H.C. Ho
- Structural Behaviour of Stud Shear Connections with Solid Slabs under Co-existing Shear and Tension Forces
by Dr. Stephanie M.H. Shen
- Numerical Investigation into Residual Stresses of Welded H-sections Made of Q690 Steel Materials
by Mr. Xiao Liu



Prof. K.F. Chung



Dr. H.C. Ho



Dr. Stephanie Shen



Prof. K.F. Chung chaired the Closing Ceremony of the Conference



X.Liu, K.F. Chung, Q.R. Yue, K. Wang, Stephanie Shen and H.C. Ho



X. Liu, H.C. Ho, K.F. Chung, Y. Liu, K. Wang and Stephanie Shen



Y.H. Wu, Y.Y. Chen, S.P. Chiew, K.F. Chung, S.D. Xi, and Y. Du



S.P. Chiew, K.F. Chung, J.G. Nip, and Y.H. Wu



Y.K. Pang, M.C. Li, M.X. He, K.F. Chung and S.P. Chiew



S.P. Chiew, M.G. Wang, K.F. Chung, and Y.K. Pang



S.P. Chiew, M. Mahendran and K.F. Chung



Masahiro Nagata and K.F. Chung



K.F. Chung, Richard Liew, and Y.J. Shi