THE HONG KONG POLYTECHNIC UNIVERSITY 香港理工大學

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Technical seminar on building steel structures for prevention of wind and disaster in coastal areas

2019.09.04-06

"Typhoon Mujigae", "Typhoon Meranti", "Typhoon Hato", "Typhoon Mangkhut", "Typhoon Lekima", and "Severe Tropical Storm Bailu" were super strong hurricanes that had hit the coastal areas in recent years. These strong hurricanes caused extreme damages to the civil constructions and relevant steel structures because the steel structure industry should improve themselves in technical research and specifications in wind resistance design. Therefore, there is an urge to promote the disaster prevention of existing buildings. This technical seminar was hosted by the Macao Construction Industry Association, organized by Guangdong P&L`s Building Material Co., Ltd. / Chess Applied Building Technology Consultant (Zhuhai) Co. Ltd., co-organized by the Hong Kong Construction Metal Structure Association. Experts, scholars and enterprises from coastal areas were invited to attend this important conference which was a distinguished industrial event for interactive exchanges and discussion of cutting-edge technologies. Over a hundred experts and scholars from mainland China, Hong Kong, Taiwan, Macau and other places attended the conference.

Important participants of this technical seminar included:

- Prof. Hao Jiping, President of China Construction Metal Structure Association and Vice President of Xi'an University of Architecture and Technology
- Mr. Hou Zhaoxin, Secretary General of China Steel Structure Association, Deputy Chief Engineer of General Institute of Architectural Design and Research of Metallurgical Corporation of China
- Mr. Wang, Jaw-Lieh, President of Taiwan Steel Structure Association, General Manager of CECI Engineering Consultants,Inc.,Taiwan
- Mr. Kuok Lam Sek, Vice President of the Macau Construction Industry Association and President of the Construction Steel Structure Professional Committee, Chairman of Hung Yip Group
- Professor K. F. Chung, President of Hong Kong Constructional Metal Structures Association
- Mr. Wu Yaohua, President of General Institute of Architectural Design and Research of Metallurgical Corporation of China

- Professor Shi Yongjiu, Department of Civil Engineering, Tsinghua University, Director of Structural Engineering Inspection Center, Tsinghua University
- Professor XIE Zhuangning, South China University of Technology
- Professor Chi Ling Pan, Assistant Vice President and Secretary-General of Chaoyang University of Technology, Taiwan
- Professor Ker-Chun Lin, Research Fellow of the National Centre for Research on Earthquake Engineering, National Taiwan University of Science and Technology
- Prof. Lap-Loi Chung, Deputy director of the National Centre for Research on Earthquake Engineering, National Taiwan Ocean University

The CNERC delegates attended the conference included:

- Prof. K. F. Chung, President of Hong Kong Constructional Metal Structures Association and Director of CNERC
- Dr. T. M. Chan, Executive Deputy Secretary-General of CNERC
- Dr. H. C. Ho, Executive Deputy Secretary-General of CNERC
- Dr. Yifei Hu, Postdoctoral Fellow, CNERC
- Mr. Hao Jiang, Research Associate, CNERC

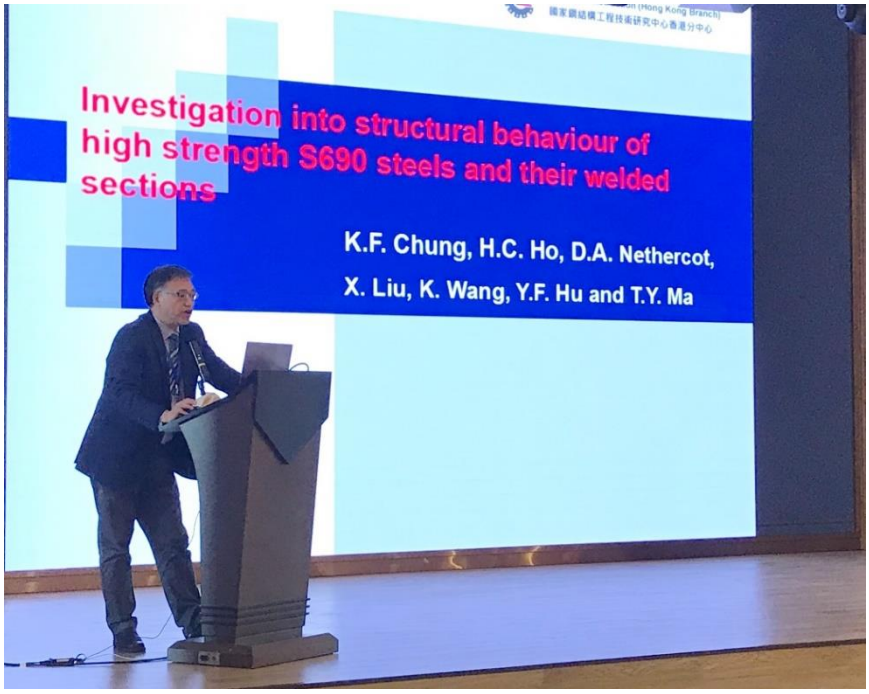
During the meeting, Professor K. F. Chung reported the background of the establishment, the main work, recent developments and major research projects of CNERC. He made a keynote speech on the theme of "Investigation into structural behaviour of high strength S690 steels and their welded sections". At the same time,《Design and Construction of High-rise Residential Buildings in Hong Kong using Prefabrication and Mechanization》just released by CNERC was presented to the guests.

At the seminar, the organizer of the meeting, Guangdong P&L's Building Material Co., Ltd. / Chess Applied Building Technology Consultant (Zhuhai) Co. Ltd., introduced the drafting of the standard of Guangdong Province《Technical specifications for metal roofing system in areas prone to strong winds》. CNERC has cooperated with a number of Chinese industry associations and companies to conduct a series of research in areas such as metal roofing systems for long time. In the future, more in-depth cooperative research will be conducted in this area.

After the meeting, the CNERC delegates and other VIP guests visited Chess Applied Building Technology Consultant (Zhuhai) Co. Ltd., and visited (experimental demonstrations of weather resistance, impact, fire resistance, acoustics, structure, energy saving, and corrosion resistance).

Programme of the technical seminar on building steel structures for prevention of wind and disaster in coastal areas

日期	时间	内容	单位	演讲者
9月4日	16：00-18：00	报告专家工作会议		
9月5日	09：00-12：30	装配式钢结构	西安建筑科技大学	郝际平
		空天地一体化检测技术	中冶建筑建研总院	侯兆新
		台灣近年鋼橋之發展方向	TISC 钢结构协会	王炤烈
		金属屋面围护系统抗风关键技术	清华大学	石永久
		高强钢在香港建筑的应用	香港理工大学	锺国辉
		沿海强风地区金属屋面技术标准要点解析	中冶建筑研究总院设计院	吴耀华
	12：30-14：00	自助午餐		
	14：00-17：30	澳門摩珀斯酒店 / 扎哈·哈迪德建築事	澳能建设控股有限公司	郭林锡
		钢骨梁柱抗弯接合之近断层耐震性能	TISC 钢结构协会	林克强
		隔震在台湾之应用	地震工程研究中心	锺立来
		轻型钢构建筑框架墙体的角色	朝阳科技大学	潘吉龄
		金属屋面系统风压分布及气动抗风设计若干问题研究	华南理工大学	谢壮宁
9月6日	09：00-12：00	考察行业协会认可金属围护研究与检测机构：卓思建筑应用科技顾问（珠海）有限公司（抗风雨、冲击、耐火、声学、结构、节能、耐腐等实验示范）		



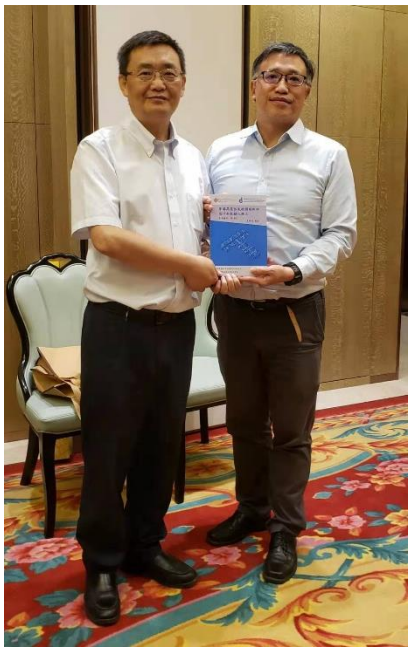
Presentation of “Investigation into structural behaviour of high strength S690 steels and their welded sections” by Prof. K. F. Chung

Presentation of “Investigation into structural behaviour of high strength S690 steels and their welded sections” by Prof. K. F. Chung

Left to right: Dr. Yifei Hu, Prof. K. F. Chung, Prof. Yongjiu Shi, Dr. Huiyong Ban

Site visit of Chess Applied Building Technology Consultant (Zhuhai) Co. Ltd.



Prof. Chung presented《Design and Construction of High-rise Residential Buildings in Hong Kong using Prefabrication and Mechanization》to the VIP guests

广东省标准

DBJ/T 15-148-2018
备案号 J 14453-2019

强风易发多发地区金属屋面技术规程

Technical specifications for metal roofing system in areas prone to strong winds

(预览版)

2018-12-27 发布　　2019-02-01 实施

广东省住房和城乡建设厅 发布

广东省标准《强风易发多发地区金属屋面技术规程 DBJ/T 15-148-2018》

Standard of Guangdong Province 《Technical specifications for metal roofing system in areas prone to strong winds》