

Visit to Singapore 2016.07.26-30

The Chinese National Engineering Research Centre for Steel Construction (Hong Kong Branch) 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.

The delegation team consisted of:

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| • Ir Prof. CHUNG, Kwok Fai | Director |
| • Ir Dr. YAM, Chi Ho | Deputy Director & Secretary General |
| • Ir Prof. MAK, Yiu Wing | Chief Engineer |
| • Dr. CHAN, Tak Ming | Deputy Secretary General |
| • Dr. HO, Ho Cheung | Deputy Secretary General |
| • Ms. Catherine Ng | Executive Officer |

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 delegation team had taken the opportunities to introduce the CNERC, 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.

In the morning of 27th July 2016, the delegation team was received by the Singapore Institute of Technology (SIT) for a campus tour, a visit to the Enterprise & Innovation Hub, and a meeting with the Director of Enterprise & Innovation Hub and his senior colleagues.



Visit of the Singapore Institute of Technology (SIT) – the 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.

SIT's Enterprise & Innovation Hub is a one-stop centre for companies and organisations to collaborate with technology experts as well as research and undergraduate students in industrial projects and community innovation projects. Dr. Ng Khee Yang, Assistant Director of Enterprise & Innovation Hub, SIT had given a presentation to the delegation team on its Mission, and the Enterprise & Innovation model of the Hub.



The delegation team visiting the SIT's Enterprise & Innovation Hub.



Dr. Ng Khee Yang, Assistant Director of Enterprise & Innovation Hub, SIT introducing numerous innovative community and student projects to the delegation team.



Prof. K.F. Chung, presenting souvenirs to Mr. Arthur Poh, Director of Enterprise & Innovation Hub (photo on the left); and to Prof. S.P. Chiew, Professor of Civil Engineering (photo on the right).

In the afternoon, the delegation team visited one of the largest steel fabricators, Yongnam Engineering & Construction Pte Ltd.. Yongnam is a multi-disciplinary engineering and construction group specializing in structural steelwork. It is an accredited structural steelwork fabricator certified by the Singapore Structural Steel Society in the top category S1. It is also classified as a Grade A1 Steelwork Fabricator and Contractor by the Building and Construction Authority under the category of General Building and Civil Engineering.



Yongnam is a well-established company certified to ISO-9001:2008, ISO 14001:2004 and OHSAS 18001:2007, and it is listed on the Mainboard of the Singapore Exchange since 1999.



Visit of the Yongnam Engineering & Construction Pte Ltd. – the delegation team with Mr. Hiroyuki Takedagawa, Chief Operations Director, Mr. Ho Wan Boon, Technical Director, and Mr. Seow Soon Hock, Production Director.



Mr. Hiroyuki Takedagawa, Chief Operations Director introducing various operations and equipment handling procedures to the delegation team.



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

In the evening, the delegation team met Senior Members of the Singapore Structural Steel Society (SSSS), and exchanged information on recent developments on steel construction in Singapore, Hong Kong and the Mainland China.



Prof. K.F. Chung, presenting a souvenir to Mr. Chor How Choon, First Vice President of SSSS.



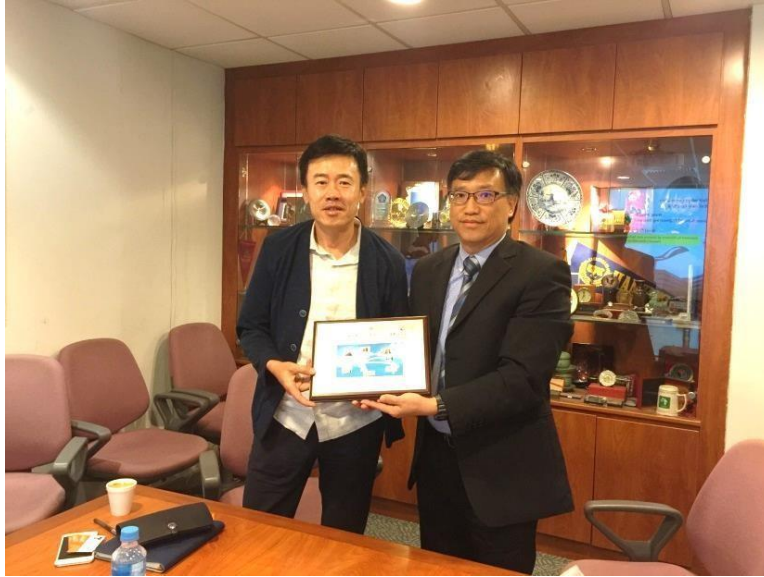
Meeting with the Singapore Structural Steel Society (SSSS) – the delegation team met Mr. Chor How Choon, First Vice President of SSSS, Mr. Bernard Chung, Second Vice President of SSSS, and Dr. Ng Yiaw Heong, Secretary of SSSS.

In the morning of 28th July 2016, the delegation team visited the National University of Singapore (NUS), and had a meeting with Prof. Richard Liew of the Department of Civil and Environmental Engineering.



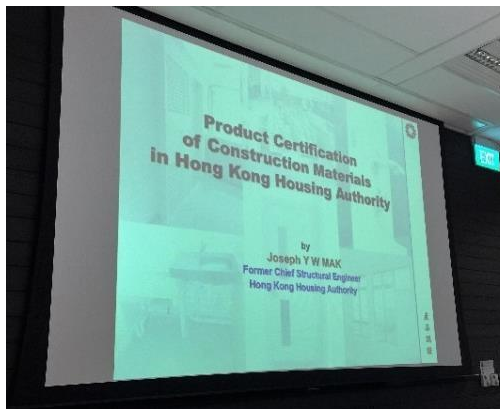
Academic exchange on steel construction between the delegation team and Prof. Richard Liew, NUS.

Prof. Richard Liew shared with the delegation team about the latest developments of Prefabricated Prefinished Volumetric Construction (PPVC) in Singapore. He also shared his latest research work on light weight concrete with high structural performance. Moreover, Prof. Liew highlighted key findings of his recent visit to Japan on high speed welding of high strength steel materials.

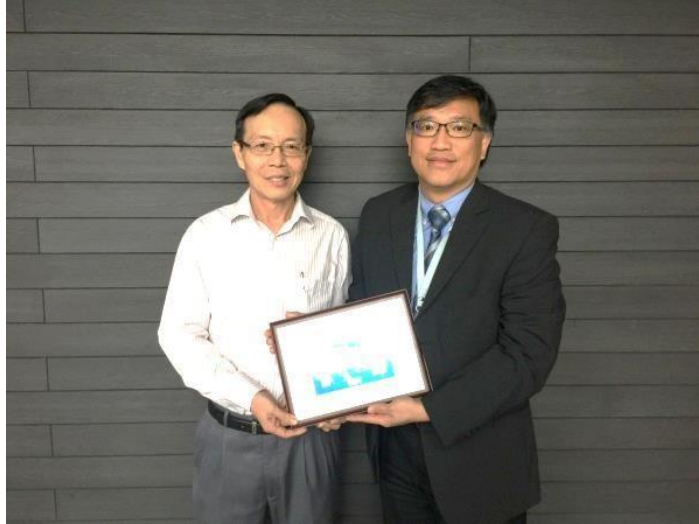


Prof. K.F. Chung presenting a souvenir to Prof. Richard Liew, NUS.

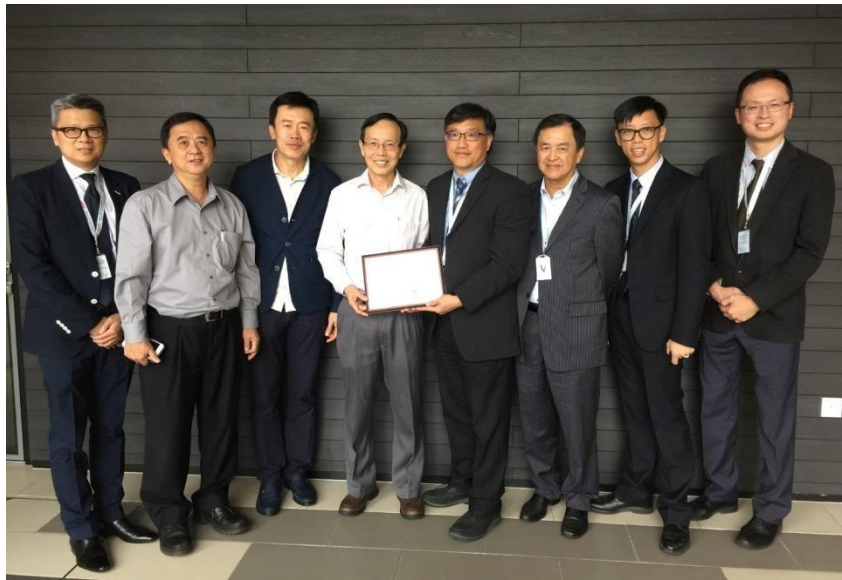
In the late morning, the delegation team had a meeting with the Building and Construction Authority (BCA). Prof. Joseph Mak gave a presentation and shared his views with the BCA about relevant testing and certification schemes widely adopted in Hong Kong.



Prof. Joseph Mak presenting the “Product Certification of Construction Materials in Hong Kong Housing Authority”.

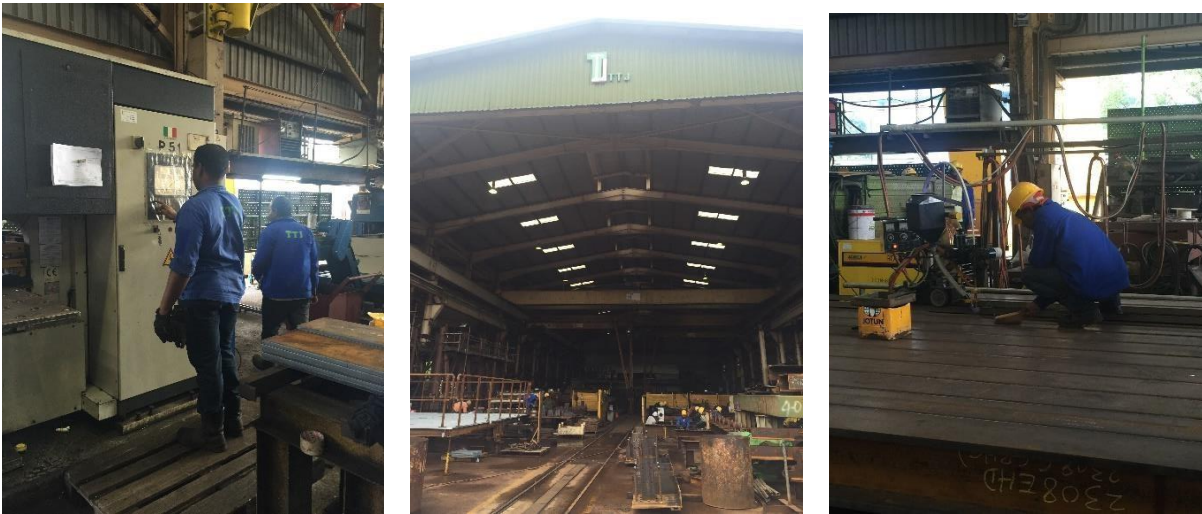


Prof. K.F. Chung presenting a souvenir to Er. K.C. Chew, Group Director of BCA.



Visit of the Building and Construction Authority (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.

In the afternoon, the delegation team visited TTJ Design and Engineering Pte Ltd.. TTJ is a structural steelwork specialist with a portfolio of successfully completed projects in the industrial, commercial and government sectors of Singapore. Mr. Elavarasu Somasundaram, Chief Operating Officer of TTJ, gave a detailed presentation to the delegation team on background, previous works, and current as well as upcoming projects of the company. The delegation team was also invited to inspect operations and use of specific machineries of the fabricator.



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.



Prof. K.F. Chung presenting a souvenir to Mr. E. Somasundaram, Chief Operating Officer of TTJ.



Visit of the TTJ Design and Engineering Pte Ltd. (TTJ) – the delegation team with Mr. E. Somasundaram, Chief Operating Officer of TTJ.

In the early afternoon of 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.



Prof. K.F. Chung presenting a souvenir to Prof. Philip Tan, NTU.



Visit of the School of Civil and Environmental Engineering, Nanyang Technological University – the delegation team with Prof. Philip Tan and Prof. Y.W. Yang, NTU.

In the late afternoon, the delegation team was invited to participate in a research project meeting of Prof. S.P. Chiew and Prof. C.K. Lee together with their research teams at the NTU.



Presentations made by members of the research teams led by Prof. S.P. Chiew and Prof. C.K. Lee.



A group photo of the delegation team and the research teams at the NTU.

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.