

Address: Hong Kong Polytechnic University, Phase 8, Hung Hom, Kowloon, Hong Kong.
Telephone: (852) 3400 8451 Email: cnerc.steel@polyu.edu.hk Website: <https://www.polyu.edu.hk/cnercsteel>

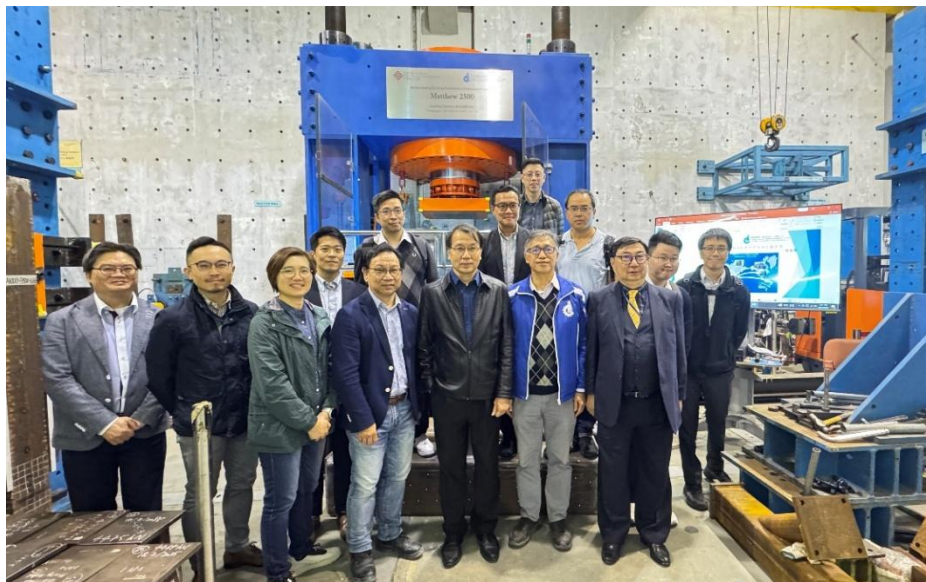
Visit of Technical Committee of *the Code of Practice for the Structural Use of Steel* of the Buildings Department, the Government of Hong Kong SAR

2025.02.21

Ir Alvin Ho-cheong Lai, Assistant Director of Buildings Department (BD), led a delegation team of members of Technical Committee of *the Code of Practice for the Structural Use of Steel* to visit CNERC on 21 February 2025. The delegation team consists of:

- Ir Alvin LAI, Assistant Director of Buildings Department
- Ir Adrian HO, Chief Structural Engineer of Buildings Department
- Ir Patrick LEE, Senior Structural Engineer of Architectural Services Department
- Ir Sherman CHANG, Senior Structural Engineer of Housing Department
- Ir Prof Adam CHOY, Representative from the Hong Kong Institution of Engineers
- Ir Kylie LAM, Representative from the Hong Kong Institution of Engineers
- Ir Wing-sum NG, Representative from the Hong Kong Construction Association Limited
- Mr Danny CHAN, Representative from the Hong Kong Registered Contractors Association
- Dr Jia-ji WANG, Representative from the University of Hong Kong
- Dr Yu-xin PAN, Representative from Hong Kong University of Science and Technology

The delegation team visited both the Structural Engineering Research Laboratory (Laboratory Y001) and the Welding Laboratory (Laboratory W002) of PolyU.



Prof. K.F. Chung and Ir Alvin Lai took a group photo together with members of the Technical Committee, BD engineers and CNERC research personnel

A presentation on the research work and major achievements of CNERC was made by Dr. Y. F. Hu to the delegation team, in particular, both welding technology and assessment on structural behaviour of welded sections and members of high strength 690 N/mm² steel. In-depth exchange was made on various aspects of current practice on fabrication and quality control of structural steelwork, in particular, materials specifications of high strength S690 steel, mechanical properties of both parent plates and welded sections, and welding procedures specifications.

The following presentations on effective use of high strength S690 steel in construction were made:

- Experimental investigations and structural appraisal into stocky composite columns with high strength S690 steel tubes and Grade C60/75 concrete
by Ir Prof. K. F. Chung
- Deformation characteristics of high strength S690 socketed H-piles in site conditions
by Ir Dr. Andy Leung
- Recent construction projects using high strength S690 and S960 steel in both civil engineering and building structures
by Ir Dr. H. C. Ho

Innovations of these projects were thoroughly illustrated and discussed among members of the Technical Committee and CNERC research personnel.



Presentation by Prof. Chung to members of the Technical Committee



Presentation by Dr. Leung to members of the Technical Committee



Presentation by Dr. Ho to members of the Technical Committee

Many members of the Technical Committee considered both the laboratory visits and the presentations and discussions were highly informative. They expressed that they were interested in incorporating innovations into the Code, and facilitating applications of modern steel construction technology in the private sector, whenever appropriate.



Prof. K.F. Chung and Dr. M.F. Hui took a photo with Ir Alvin Lai and Ir Adrian Ho