

Technical Seminar on Effective Use of S690 to S960 High Strength Steel in Construction – Large Scale Footbridges using Chinese High Quality S960 Steel **2026.05.22**

The Chinese National Engineering Research Centre for Steel Construction (Hong Kong Branch) and Hong Kong Constructional Metal Structures Association jointly organized a Technical Seminar entitled “*Effective Use of High Strength Steel S690 to S960 in Construction – Large Scale Footbridges using Chinese High Quality S960 Steel*” on 22 May 2026 at the Hong Kong Polytechnic University. The event was supported by the Civil Engineering and Development Department of the Government of HKSAR, the Civil Division of Hong Kong Institution of Engineers, the Hong Kong Institute of Architects, and the Hong Kong Institution of Highways and Transportation.

After a Welcoming Speech by Prof. K. F. Chung, Founding Director of CNERC, both Ir Michael H.S. Fong, Director of Civil Engineering and Development, and Mr. Qingwei Li, Secretary General of the China Steel Construction Society were invited to give Opening Speeches as Guests of Honour. Moreover, Ir Joyce Y.Y. Lau, Project Manager (North) of North Development Office of Civil Engineering and Development Department was invited to deliver a keynote presentation.

This Technical Seminar was organized to promote research and technology transfer on modern construction technology, in particular, effective use of high-quality Chinese steel in construction, to the construction industry. It is an industrial platform to present research findings and share practical experiences on the design and construction of two large-scale footbridge systems, namely, Footbridges F4 and F6, in Fanling North New Development Area. A total of 12 presentations on various stages of the footbridges had been made by key members of the project team. The Seminar was attended by about 200 engineers from government departments, consulting firms and construction companies.



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Welcome Speech by Prof. K. F. Chung, Founding Director of CNERC.



Opening Speech by Ir Michael Fong, Director of Civil Engineering and Development.



Opening Speech by Mr. Qingwei Li, Secretary General of the China Steel Construction Society.



Prof. K. F. Chung (left) presented the Finalized Draft of the “*Standard for Carbon Emission Assessment for Steel Building Structures*” to Mr. Qingwei Li (right), Secretary General of the China Steel Construction Society, witnessed by Ir Michael Fong and Ir Joyce Lau.



Group photo of the Speakers with the Guests of Honor.



Prof. K. F. Chung presented a souvenir to Ir Michael Fong as a token of appreciation.

Programme

9:00 am	Opening Ceremony <i>Welcome Speech</i> Opening Speech <i>by Ir Michael H.S. Fong, Director of Civil Engineering and Development</i> Civil Engineering and Development Department 开幕词 中国钢结构协会秘书长 李庆伟
9:20 am Keynote Presentation	Forging the Future of Infrastructure: Pioneering the World's First S960 High-Strength Steel Footbridges <i>by Ir Joyce Y.Y. Lau, Project Manager (North), North Development Office, Civil Engineering and Development Department</i>
9:35 am Presentation 1	S690 to S960 high strength steel and their benefits in construction <i>by K. F. Chung, H.C. Ho & Y.F. Hu</i>
10:05 am Presentation 2	From Vision to Reality: Leading the Change in Next-Generation Steel Infrastructure <i>by Tom W.L. Leung</i>
10:35 am	Coffee Break
11:00 am Presentation 3	Research and development of stiffened box sections of S960 steel members and welded sections <i>by K.F. Chung, B. Li & M.F. Zhu</i>
11:25 am Presentation 4	Structural design of Footbridges F4 and F6 of S960 steel <i>by Y.W. Leung</i>
11:50 am Presentation 5	Architectural design on lighting of Footbridge F6: Living Patterns of Light <i>by W.M. Chung</i>
12:15 pm Presentation 6	Procurement of S960 steelwork fabrication and quality control 杨辉红
12:40 pm	Lunch Break
2:15 pm Presentation 7	Delivery and site installation of Footbridges F4 and F6 <i>by Bear Z.C. Ding</i>
2:40 pm Presentation 8	Welding of S960 steel and development of welding procedure specifications <i>by H.C. Ho & H. Jin</i>
3:05 pm Presentation 9	Robotic site welding of S960 steel and related quality assurance <i>by Kenny Y.L. Wong</i>
3:30 pm	Coffee Break
4:00 pm Presentation 10	Site inspection and quality assurance of structural steelwork <i>by Benny M.Y. Lee</i>
4:25 pm Presentation 11	高性能钢的材料研发与工程应用的最新进展 闫强军
4:50 pm Presentation 12	Concluding remarks
5:00 pm	End

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To kick off the Technical Seminar, Ir Joyce Y.Y. Lau, Project Manager (North), North Development Office, Civil Engineering and Development Department gave a Keynote presentation on “*Forging the Future of Infrastructure: Pioneering the World’s First S960 High-Strength Steel Footbridges*”.



Ir Joyce Lau.

After that, Prof. K. F. Chung gave a presentation entitled “*Effective use of S690 to S960 high strength steel and their benefits in construction*”.



From left: Prof. K. F. Chung, Dr. H. C. Ho, and Dr. Y. F. Hu.

Ir Tom W. L. Leung of Civil Engineering and Development Department, gave a presentation on “*From Vision to Reality: Leading the Change in the Next-Generation Steel Infrastructure*”.



Ir Tom W. L. Leung.

Dr. Mengfei Zhu and Dr. Bin Li, Postdoctoral Fellows of CNERC, gave a presentation on “*Research and development of stiffened box sections of S960 steel members and welded sections*”.



Dr. Mengfei Zhu.



Dr. Bin Li.

Ir Y.W. Leung, Managing Director of YWL Engineering Pte Limited, gave a presentation entitled “*Structural design of Footbridges F4 and F6 of S960 steel*”.



Ir Y. W. Leung.

Ar W.M. Chung of AECOM Asia Co., Ltd., gave a presentation entitled “*Architectural design on lighting of Footbridge F6: Living Patterns of Light*”.



Ar W. M. Chung.

Mr. Huihong Yang, Fulusheng Engineering Technology (Shanghai) Co. Ltd., gave a presentation entitled “*Procurement of S960 steelwork fabrication and quality control*”.



Mr. Huihong Yang.

Ir Bear Z. C. Ding of Chun Wo Construction & Engineering Co., Ltd., gave a presentation entitled “*Delivery and site installation of Footbridges F4 and F6*”.



Ir Bear Z. C. Ding.

Dr. H.C. Ho and Dr. Hao Jin of CNERC, gave a presentation entitled “*Welding of S960 steel and development of welding procedure specifications*”.



Dr. H. C. Ho.



Dr. Hao Jin.

Mr. Kenny Y. L. Wong of Jumbo Construction Technology Ltd. Hong Kong, gave a presentation entitled “*Robotic site welding of S960 steel and related quality assurance*”.



Mr. Kenny Y. L. Wong.

Mr. Benny M. Y. Lee of AECOM, gave a presentation entitled “*Site inspection and quality assurance of structural steelwork*”.



Mr. Benny M. Y. Lee.

Mr. Qiangjun Yan of Nanjing Iron & Steel Co. Ltd., gave a presentation entitled “*Recent advances in the research and engineering applications of high-performance steel*”.



Mr. Qiangjun Yan.

Last but not the least, Prof. K. F. Chung wrapped up the event by giving a Concluding Remarks.



A group photo of Prof. K. F. Chung and delegates after the seminar.

A site visit to Footbridges F4 and F6 in the Fanling North New Development Area was arranged after the event.



A group photo at Footbridge F6 in the Fanling North New Development Area after the event.