

Technical seminar on application of ultra-high strength S960 steel – from concept to reality

By Mr Tom LUI

The captioned technical seminar was held on 9 January 2025. Experts from academia, government, and industry explored the advances in S960 steel applications.

Distinguished speakers of the seminar included Ir Prof K F Chung and Dr H C Ho from Chinese National Engineering Research Centres – Hong Kong Branch (CNERC – HK); Mr Tom Leung from the Civil Engineering and Development Department; Mr Y W Leung from YWL Engineering Pte Ltd.; Mr Bear Ding from Chun Wo Construction & Engineering Co Ltd. and Mr Raymond Hon from AECOM Asia Co Ltd. The event attracted nearly 200 attendees, demonstrating strong industry interest in the material.

A key focus was the successful application of S960 steel in the Fanling North New Development Area, Phase 1 – Fanling Bypass Eastern Section. This case study highlighted the superior mechanical properties of the steel and its efficiency, and sustainability. The steel will serve as a benchmark for future infrastructure projects by reducing material consumption while ensuring durability.

Ir Prof Chung and Dr Ho discussed the high-performance characteristics of S960 steel and emphasised its load-bearing capacity and environmental resistance. Mr Tom Leung addressed the steel's role in public works, stressing innovation and sustainability in Hong Kong's infrastructure.

Mr Y W Leung covered the design considerations of the steel, including dynamic and static loads and safety implications. Mr Bear Ding highlighted the logistical challenges such as transportation, storage, and welder expertise in ensuring quality. Mr Raymond Hon examined pre-heating and welding techniques critical for the steel's structural performance.

The audience's active engagement reflected a strong interest in S960 steel's broader implementation. The seminar concluded with a call for continued collaboration among engineers, researchers, and policymakers to promote widespread adoption and enhance sustainability and innovation in construction.



The group photo of the speakers, YMC Committee, and other organising parties