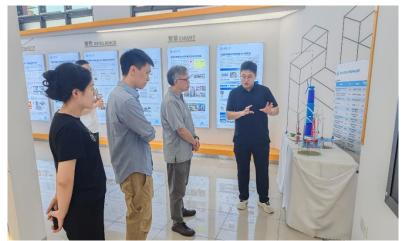




Visited Chongqing University – research and application of S690 high-strength steel 2025.07.11

On 11 July 2025, at the invitation of Academician X. H. Zhou and Prof. Z. H. Wang, Prof. K. F. Chung, Director of CNERC, Dr. H. Jin, Postdoctoral Fellow, and Ms. Y. Ding, PhD student, visited the School of Civil Engineering of Chongqing University. Prof. Chung and his delegation first visited the Wind-Wave-Current Multifunctional Laboratory, the Structural Laboratory Exhibition Hall, and the Bridge Dynamics Laboratory of Chongqing University:



The CNERC delegation team visited the structural laboratory of Chongqing University

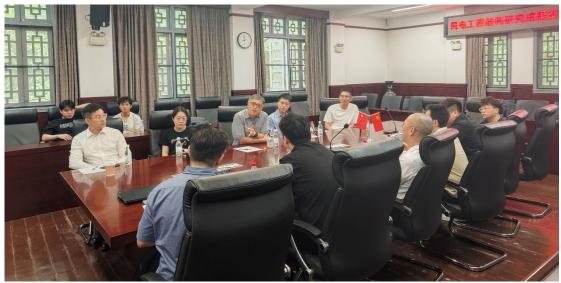
Prof. Chung then delivered a lecture titled "Research and Application of S690 High-Strength Steel" to the faculty and students of the School of Civil Engineering at the Chongqing University Civil Engineering Building. The lecture focused on S690 high-strength steel, analyzing its research progress and application prospects. It presented successful cases of this steel in various fields, including buildings, bridges, and engineering machinery. It also explored challenges and solutions faced in the application of S690 high-strength steel. The lecture aims to provide a reference for researchers and engineers in related fields and promote the wider and more in-depth application of S690 high-strength steel.



Prof. Chung gave a prrsentation at the Civil Engineering Museum of Chongqing University



After that, Prof. Y. H. Wang's team shared their research findings on wind turbine engineering structures, including the mechanical properties of hybrid support structures for wind turbines in high-altitude cold regions, research results on hybrid cable-lattice tower structures for wind turbines over 300 meters tall, and research projects on offshore wind turbine support structures, as well as the implementation and practical application of numerous research projects. New design and construction techniques have brought significant economic benefits to wind turbine projects. Both parties agreed that high-strength steel can leverage its high strength-to-weight ratio in high-rise wind turbine tower structures, but there are still challenges, such as fatigue in high-strength steel welded structures and a lack of design specifications. The two parties further discussed the application of high-strength steel in wind turbine engineering structures and clarified the focus of further cooperation.



Discussion between the CNERC delegation team and Prof. Wang's team



The CNERC delegation team and Prof. Wang's team took a group photo.

From left: Dr. H. Jin Hao, Ms. Y. Ding, Mr. Y. P. Yang, Dr. X. D. Wang, Prof. K. F. Chung, Prof. Y. H. Wang, Dr. Pouria Ayough, Prof. X. G. Huang, Dr. L. X. Zhang, and Dr. X. Z. He