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CNERC Annual Technical Symposium 2024 2024.10.04

CNERC Annual Technical Symposia are organized as technical platforms to promote technical discussions and exchange among research personnel of CNERC. The first Annual Technical Symposium was held in 2020, and favorable responses were received from Project Investigators and their respective research teams.

The CNERC Annual Technical Symposium 2024 was held on 4 October 2024 as a half-day event, and it was our honour to have **Ir Joseph K. K. Lo, Head of Project Strategy and Governance Office of Development Bureau**, and **Ir Ellen Cheng, Chief Engineer of Civil Engineering and Development Department**, both of the Government of Hong Kong SAR, being our Honorable Judges. An Invited Lecture was made by Dr. M. F. Hui, Principal Research Fellow of CNERC, and a total of 8 presentations were made by postdoctoral fellows and senior research students.

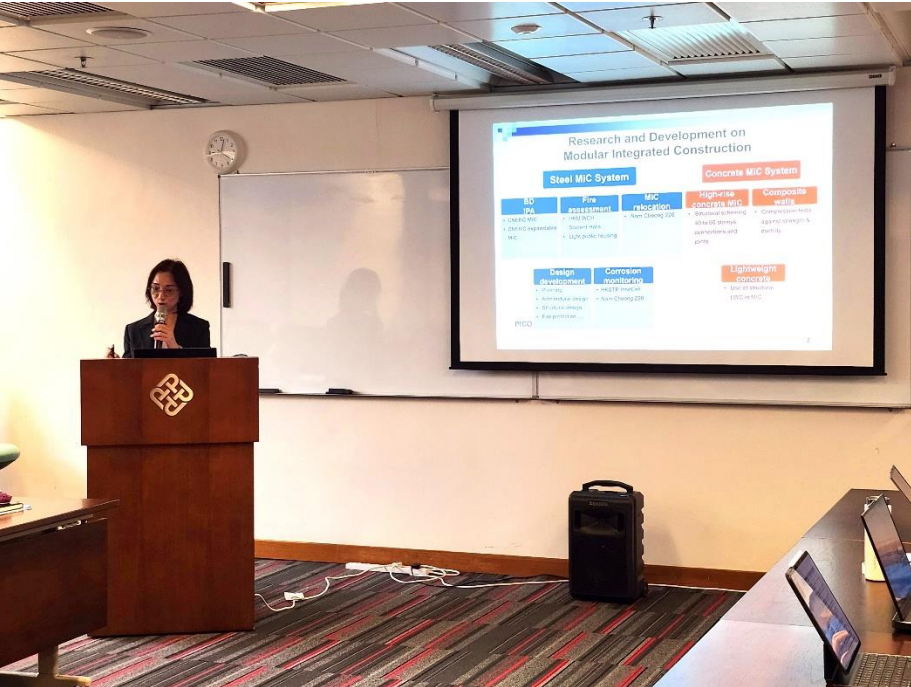


From left: Dr. Andy Leung, Dr. H.C. Ho, Prof. K.F. Chung, Ir Joseph Lo, Ir Ellen Cheng, Dr. M.F. Hui, Prof. Michael Yam and Dr. Y.F. Hu.

The Symposium was kicked off with a welcome speech by Prof. K. F. Chung, Director of CNERC, and followed by an Invited Lecture presented by Dr. M. F. Hui.



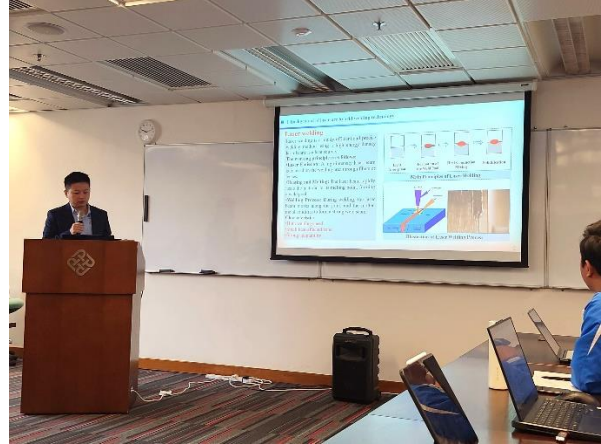
The Symposium was attended by over 30 research personnel of CNERC.



Dr. M. F. Hui presented on “Modular Integrated Construction”.



Dr. Pengfei MEN, Postdoctoral Fellow (CEE) presented on “Experimental investigations into stocky composite columns of concrete-filled S690 steel tubes under compression”.



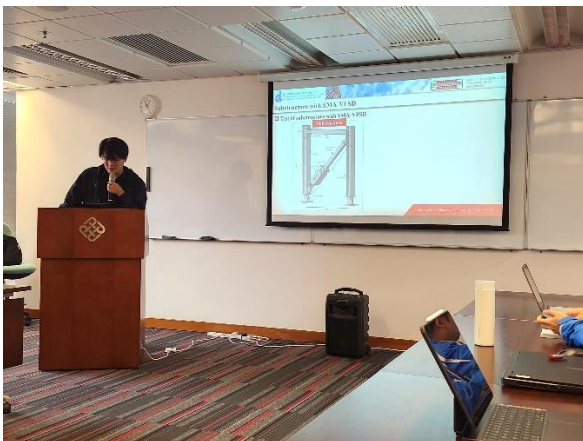
Dr. Keyang NING, Postdoctoral Fellow (CEE) presented on “Mechanical behavior of high strength steel S690 laser-arc hybrid welded butt joints”.



Dr. Bin LI, Postdoctoral Fellow (CEE) presented on “Demonstration of site welding of high strength 690 MPa steel sections in accordance with current practice”.



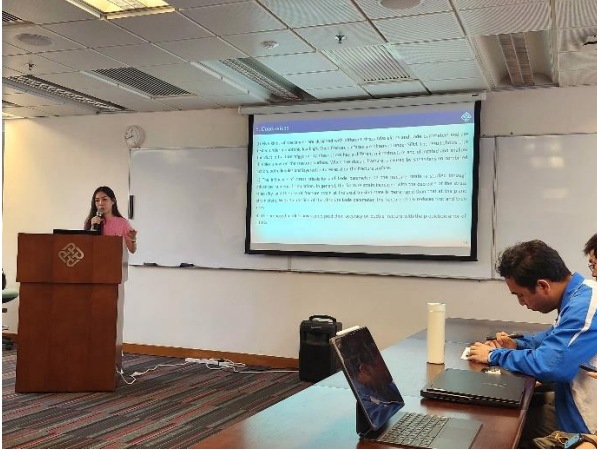
Dr. Yuzhou WANG, Postdoctoral Fellow (CEE) presented on “Feasibility of using weathering steel with RE addition in marine atmosphere”.



Mr. Ping ZHANG, Research Student (BRE) presented on “Seismic performance of structures equipped with innovative SMA-based resilient damper”.



Mr. Wei CHEN, Research Student (CEE) presented on “Fatigue performance of S690 steel and their welded sections in bridge structures”.



Miss Mengfei LI, Research Student (CEE) presented on “A new ductile fracture model of S690 high strength steel under combined tension and shear actions”.



Mr. ABDULLAH, Research Student (CEE) presented on “Investigation of rock-pile interaction by using DFOS technology”.

After a rigorous discussion among members of the Judging Panel including Ir Joseph Lo, and Ir Ellen Cheng and Prof. K. F. Chung, the following research personnel were selected as winners of the Young Researchers Competition 2024:

CNERC Outstanding Young Researcher Awards 2024

- Mr. Wei CHEN, Department of Civil and Environmental Engineering
- Ms. Mengfei LI, Department of Civil and Environmental Engineering

CNERC Young Researcher Awards 2024

- Dr. Yuzhou WANG, Department of Civil and Environmental Engineering
- Mr. Ping ZHANG, Department of Building and Real Estate
- Mr. ABDULLAH, Department of Civil and Environmental Engineering

CNERC Young Researcher Merit Award 2024

- Dr. Pengfei MEN, Department of Civil and Environmental Engineering
- Dr. Keyang NING, Department of Civil and Environmental Engineering
- Dr. Bin LI, Department of Civil and Environmental Engineering

CNERC Annual Technical Symposium 2024

Date: 4 October 2024 (Friday)

Time: 9:00 a.m. to 12:30 p.m.

Venue: Room ZS1215, The Hong Kong Polytechnic University

Programme

Time	Activities
9:00 – 9:05 a.m.	Opening Remarks Prof. K. F. Chung , Director of CNERC
9:05 – 9:25 a.m.	Invited Lecture “Modular Integrated Construction” Dr. M. F. Hui , Principal Research Fellow of CNERC
9:25 – 9:45 a.m.	Presentation 1: “Experimental investigations into stocky composite columns of concrete-filled S690 steel tubes under compression” – Dr. Pengfei MEN
9:45 – 10:05 a.m.	Presentation 2: “Mechanical behavior of high strength steel S690 laser-arc hybrid welded butt joints” – Dr. Keyang NING
10:05 – 10:25 a.m.	Presentation 3: “Demonstration of site welding of high strength 690 MPa steel sections in accordance with current practice” – Dr. Bin LI
10:25 – 10:35 a.m.	Break
10:35 – 10:55 a.m.	Presentation 4: “Feasibility of using weathering steel with RE addition in marine atmosphere” – Dr. Yuzhou WANG
10:55 – 11:15 a.m.	Presentation 5: “Seismic performance of structures equipped with innovative SMA-based resilient damper” – Mr. Ping ZHANG
11:15 – 11:35 a.m.	Presentation 6: “Fatigue performance of S690 steel and their welded sections in bridge structures” – Mr. Wei CHEN
11:35 – 11:55 a.m.	Presentation 7: “A new ductile fracture model of S690 high strength steel under combined tension and shear actions” – Ms. Mengfei LI
11:55 a.m. – 12:15 p.m.	Presentation 8: “Investigation of rock-pile interaction by using DFOS technology” – Mr. ABDULLAH
12:15 – 12:30 p.m.	Judging Panel Discussion