

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

**CEDD Innovation and Technology I&T Seminar, Civil Engineering and Development  
Department, Development Bureau, Government of Hong Kong SAR  
2021.09.28**

On 28 September 2021, Civil Engineering and Development Department (CEDD) of Development Bureau of Government of Hong Kong SAR organized the “**CEDD Innovation and Technology I&T Seminar**” for the first time, and Prof. K. F. Chung, Director of CNERC, was invited to deliver a Plenary Presentation in the afternoon.

CEDD has been implementing a series of innovation and technology initiatives to support projects of land development, marine facility management and slope safety management as part of the "Construction 2.0" Campaign launched by the Development Bureau. In many of the initiatives, CEDD steers the **University-Government-Industry collaborations** for making improvements to achieve greater productivity, better works quality, safer working environment and higher sustainability in project delivery. Hence, the Seminar is organized to provide engineers and constructional professionals in the construction industry the latest information pertinent to Innovation and Technology adoption of CEDD as well as an opportunity for stakeholders to exchange ideas, and explore technical collaborations.

The Seminar was officiated by **Ir S.H. Lam**, *Permanent Secretary (Works)* of the Development Bureau, and there were over 1,000 engineers and constructional professionals attending the event on-line. A total of eleven presentations in 4 sessions were made while **Ir Ricky C.K. Lau**, *Director of Civil Engineering and Development Department*, delivered a Closing Address to conclude the Seminar.



A group photo of Ir S.H. Lam, Ir Ricky C.K. Lau, Ir Albert W.B. Lee, Ir Aaron K.M. Bok, Ir W.K. Pun, Prof. K. F. Chung, Prof. Kenneth Leung and Prof. T. Yu.



Prof. Chung delivered a presentation entitled “*Effective Use of High Strength S690 Steels in Construction*”.



A group photo of Ir Ricky C.K. Lau, Ir Aaron K.M. Bok, Ir Dr Julian Kwan, Ir Michael Leung and Prof. K. F. Chung



# Programme Rundown

Time	Topic / Theme	Speaker
8:45 - 9:00	Registration	
9:00 - 9:10	Opening Address	Ir S H Lam, GBS, JP PS(W), DEVB
9:10 - 9:25	Photo Taking Session	
<b>Morning Session (Facilitator: Ir W K Pun)</b>		
<b>Section 1 - Innovative Ideas</b>		
9:25 - 9:45	AI and Robotics for Slope Safety	Ir Frankie Lo, CEDD; Ir Dr Vickie Kong, CEDD
9:45 - 10:05	Eco-shoreline for Sustainable Coastal Development	Ir Alvin Poon, CEDD; Prof Kenneth Leung, CityU
10:05 - 10:25	Development and Conservation of Lok Ma Chau Loop	Ir Carl Ng, CEDD
10:25 - 10:45	Q&A Session	
10:45 - 10:55	Break	
<b>Section 2 - Smart Site Management</b>		
10:55 - 11:15	Centralised Management Platform for First Phase Works at Kwu Tung North and Fanling North New Development Area	Ir Mike Cho, CEDD; Ir C Y Chan, CEDD
11:15 - 11:35	Application of Innovative Technology for Monitoring of Construction Work in Trunk Road T2	Ir Tommy Wong, CEDD
11:35 - 11:55	InnoTCE - Digitalising Tung Chung East into a Smart Construction Site	Ir Henry Cheung, CEDD
11:55 - 12:15	Q&A Session	
<b>Lunch Break</b>		
<b>Afternoon Session (Facilitator: Ir Aaron Bok)</b>		
<b>Section 3 - Novel Construction Materials and Technologies</b>		
14:00 - 14:25	Effective Use of High Strength S690 Steels in Construction	Ir Prof K F Chung, PolyU
14:25 - 14:50	3D Concrete Printing in Hong Kong: The Future of Construction	Ir Dr Eva Chan, NAMI
14:50 - 15:15	Infrastructure Applications of Fibre-Reinforced Polymer Composites	Prof T Yu, PolyU
15:15 - 15:35	Q&A Session	
15:35 - 15:45	Break	
<b>Section 4 - Smart Asset Management</b>		
15:45 - 16:10	Smart Technology and Asset Management for Marine Infrastructure	Ir Alan Tang, CEDD Ir W H Cheung, CEDD
16:10 - 16:35	BIM Horizontal Harmonization for BIM/GIS Integration	Ir Kaberlina Ho, CEDD; Ms Can Leung, AECOM
16:35 - 16:55	Q&A Session	
16:55 - 17:00	Closing Address	Ir Ricky Lau, JP DCED, CEDD