



The HKIE – Electrical Division
Online Symposium
Co-Innovation 40
Thursday, 20 October 2022
Registration

With the overwhelming support from our members, all vacancies of the on-site Symposium to be held on 20 October 2022 have been filled up. To address the good response from members, the Electrical Division decided to launch the Symposium also online in parallel.

Prior registration is required. Limited seats available on a first-come first-served basis. Both HKIE and non-HKIE members are welcome. Please register via the link: <https://forms.gle/RNiuLoht3w77sca68> and **return the completed online enrolment form with a crossed cheque, made payable to “The HKIE – Electrical Division”, to Ir Y.K. Chu at the address below.** Payment is required to confirm the enrolment.

Ir Y.K. Chu
 Symposium Secretary
 The 40th Electrical Division Symposium, 2022
 The Hong Kong Institution of Engineers
 c/o 31/F, Queensway Government Offices
 66 Queensway, Hong Kong.

Tel: 2867 4162 / 9884 2732 E-mail: hkie.eeldiv@gmail.com

Enrolment fee: **\$ 800 per participant**
\$ 700 per participant enrolled before 7 October 2022

The closing date of enrolment is 15 October 2022.

Certificate

- Attendance certificate of this 6-hour online Symposium will be issued to individual participant by email.
- A short quiz will be organized after the online Symposium. A small souvenir will be presented to each online participant on return of the duly completed quiz. Details of souvenir collection to be announced later.

Important Notes

- ❖ The app “Zoomi” will be used for the Symposium (<https://zoomnow.net/>). Each applicant who successfully registered will be provided with a unique link to access the online Symposium, and a link on the proceedings.
- ❖ All participants have to arrange their own desktop or notebook computer, or smartphone, with a suitable and stable network environment to join the online Symposium. Other operational details will be sent to individual participants upon successful registration.
- ❖ Each applicant is required to provide an individual email address in the application form for successful registration for the online Symposium.
- ❖ Members who are already confirmed with seats in our on-site Symposium should NOT enrol on the online Symposium. Their enrolment on the online Symposium will NOT be processed under all circumstances.

Enrol Now!

Cancellation

No refund or deduction of fee can be made for cancellation, but a substitute delegate is permitted.

Note: We reserve the right to change speaker(s) and/or the programme contents without prior notice.

ONLINE SYMPOSIUM PROGRAMME

08.30	Morning Session Login
09:00	Welcome Address - Ir Mandy M.Y. Leung Chairman, Electrical Division, The HKIE
09.05	Opening Address - Ir Eric Y.H. Pang, JP Director Electrical & Mechanical Services Department The Government of the HKSAR
09.20	Keynote Speech - Ir Professor Christopher Y.H. Chao Vice President (Research and Innovation) The Hong Kong Polytechnic University
1. Sustainability & Switchgear	
09.50	Bridging the Engineering and Corporate Sustainability Gap - Ms Giuliana Auinger, Partner & Vice President, Sustainability Business, Schneider Electric Asia Pacific Ltd. - Ir Ian Y.L. Lee, Solution Director, Schneider Electric Hong Kong Ltd - Ms Viki W.T. Tong, Senior Sustainability Consultant, Schneider Electric Asia Pacific - Ms Kathryn K.H. Chow, Project Engineer, Veolia Environmental Services Hong Kong Ltd
10.10	F-Gas free Switchgear - A real Alternative to SF6 Gas Insulated Switchgear - Dr Ing. Karthik Reddy Venna Product Life Cycle Manager Medium Voltage Gas Insulated Switchgear Siemens AG, Germany
10.30	Discussion
10.45	Break
2. Building & Construction	
11.15	Innovative Way to Achieve ZERO Harm in Construction Site - Mr Victor W.F. Tse Construction Manager Gammon E&M Limited.
11:35	Effective Approach for Decarbonizing Building - Zero Carbon, Digital and ESG - Ir Dr Tony N.T. Lam Director of Climate & Sustainability Arup, Hong Kong
11.55	Transformation into a Sustainable Wastewater Treatment Works: Yuen Long Effluent Polishing Plant - Ir Sam C.L. Lui Senior E&M Engineer Drainage Services Department The Government of the HKSAR

12.15	Discussion
12.30	Break
13.45	Afternoon Session Login
3. Mass Transit & Electric Vehicles	
14.00	Application of Visualized Overhead Line Remote Earthing System in MTR - Ir William K.F. Lee Chief Engineering Manager - Services (Capital Works) MTR Corporation Ltd.
14.20	Ammonia Powered Electric Vehicle Programme - Ir Eric K.W. Cheng Director Power Electronics Research Centre The Hong Kong Polytechnic University
14.40	Design of An Innovative In-wheel Motor for Electric Drive Axle of a 12m Commercial Bus - Dr Li Chen, Technical Director - Dr C.P. Lo, Managing Director - Mr Kenny K.M. Leung, Engineer - Mr Chan C.K. Choi, Engineer Green Mobility Innovations Ltd., Hong Kong
15.00	Discussion
15.20	Break
4. Power Systems	
15.50	Smart Meter Data-Driven Incipient Fault Detection - Ir Howard H.C. Wan, Principal Manager - Special Projects - Ir Eric F.W. Tong, Engineer Asset Management Department - Ir Terry K.P. Fung, Manager - Project Controls & Resources Planning SmartGrid & Innovation Department CLP Power Hong Kong Limited
16.10	Commissioning of the First F-Class Combined Cycle Gas Turbine (CCGT) Unit Equipped with Selective Catalytic Reduction (SCR) System in Hong Kong - Mr K.K. Wu, Project Engineer, Projects Division - Mr T.K. Ku, Engineer, Environmental Affairs Department The Hongkong Electric Co. Ltd.
16.30	Discussion
16.45	Summing Up - Ir Y.H. Leung Symposium Chairman Electrical Division, The HKIE
Closing Address - Ir Aaron K.M. Bok The President, The HKIE	