



The HKIE – Electrical Division
The 40th Annual Symposium
Co-Innovation 40

Thursday, 20 October 2022
3/F, Ballroom, Sheraton Hotel

Registration

Prior registration is required. Limited seats available on a first-come first-served basis. Both HKIE and non-HKIE members are welcome. *All on-site participants are required to have received the third dose of vaccination and should use the LeaveHomeSafe App upon entry to the event venue. All are also highly encouraged to do a rapid antigen test (RAT) before coming to the event venue. See also Important Notes below.*

Please register via the link <https://forms.gle/t5Ek3EaiD2Bq4enB8>. Applicants will be notified if their enrolments are successful or not with e-mails. Successful applicants are required to follow the instruction detailed in the confirmation e-mail to complete their payment to confirm their enrolment.

For enquiry, please contact:

Ir Y.K. Chu
 Symposium Secretary
 The 40th Electrical Division Symposium, 2022
 The Hong Kong Institution of Engineers
 Tel: 2867 4162 / 9884 2732 E-mail: hkie.eeldiv@gmail.com

Enrolment fee: **\$ 1,800 per participant**
\$ 1,700 per participant enrolled before 15 September 2022

The closing date of enrolment is 7 October 2022.

Certificate

Attendance certificate of this 6-hour Symposium will be provided to individual participants.

Important Notes

- ❖ *The COVID-19 vaccination records/vaccine passes of all on-site participants will be checked by the Hotel staff on the Symposium holding date. Participants who fail to show the records/passess or bear a vaccine pass QR code of 'blue' colour will be refused to attend the Symposium at the venue.*
- ❖ *All on-site participants are highly appreciated to having RAT tested negative within 6 hours before attending the Symposium.*
- ❖ *No refund whatsoever will be entertained for those who cannot or are refused to attend the Symposium, but a substitute delegate who meets the vaccination requirement is permitted.*
- ❖ *All on-site participants are required to follow all the prevailing Government social gathering and distancing requirements and any other guidelines of the Hotel on the Symposium holding date.*
- ❖ *Depending on the development of the pandemic, and other situations, we reserve the right to change the arrangement of the Symposium to suit.*

Enrol Now!

Limited Seats available.

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.

SYMPOSIUM PROGRAMME

08.30 Registration and Coffee

09.00 Welcome Address
 - Ir Mandy M.Y. Leung
 Chairman, Electrical Division, The HKIE

09.05 Opening Address

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 Lunch

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