

Annual Report for Session 2014/2015

Foreword

1. Session 2014/15 was a very fruitful year of the Electrical Division. Including the upcoming Division AGM scheduled for 8 May 2015, the Division Committee held eleven meetings in session 2014/15 to plan, implement, and review activities (both locally and overseas) for HKIE members.

Technical Programme Sub-committee (Chaired by Ir Dr Edward Lo)

2. The Sub-committee had organised/co-organised a total of eight technical talks/seminars in the session. More than 80 attendees on average attended these talks/seminars.

Date	Event	Speaker
3/11/2014	How vertical transportation becomes smarter, greener and faster	Mr Eric Law, Schindler Lifts (HK) Ltd
15/1/2015	Energy Saving by Tri-rotor Variable Speed Chiller	Mr Paul Tsui, Carrier-Hong Kong
19/1/2015	Consumer Support for a Public Utilities Commission in Hong Kong	Prof CK Woo, Professor of Economics at Hong Kong Baptist University
4/3/2015	From Magnetic Gears to Novel Electric Machines: Creativity Lives Everywhere	Dr SX Niu of PolyU
20/3/2015	Lightning Protection System To Buildings	Ir Terrence Cheung of J. Roger Preston Ltd
23/4/2015	Electricity Market Experience from the US	Mr Paul O'Rourke
30/4/2015	Guangzhou-Shenzhen-Hong Kong Express Rail Link (XRL)– E&M Systems	Ir Alvin Luk of MTRC
7/5/2015	Synthesis and In Situ Mechanical Characterization of Silicon Nanowires for Lithium-ion Batteries	Dr Steve Boles of PolyU
13/6/2015	Public Forum on Electricity Market	Panelists from various organisations
6/2015 (tentatively)	Energy Saving on Building Services Systems	Speaker from Otis group

32nd Annual Symposium (Chaired by Ir Albert To)

3. The 32nd Annual Symposium was held on 30 October 2014 at Sheraton Hong Kong Hotel & Towers. The Symposium Organising Committee was chaired by Ir CL Leung, with Ir YK Chu as the Symposium Secretary. The Symposium theme was 'Powering into the Future', for which nine papers were presented. The HKIE President, Ir Victor Cheung delivered an opening speech. Professor TS Zhao of HKUST and Professor Ron Hui of HKU delivered the keynote speech and closing address, respectively. Over 300 participants attended the Symposium and their responses were enthusiastic.

Local Technical Visit Sub-committee (Chaired by Ir Tony Yeung)

4. The Sub-committee had organized six technical visits to places of technical interests for members. Amongst these technical visits, the visit to CLP Nuclear Resources Centre and Shatin Sewage Treatment Plant were tailor-made for secondary school students in connection with the Electrical Model Design Contest with an aim to promoting electrical engineering to our younger

generation. In addition, the visit to District Cooling System in East Kowloon was jointly organized by the Division with the HK Chapter of the Institution of Engineering and Technology to enhance interactions among learned societies. Response for each visit was overwhelming. Around 30 attendees on average attended these visits.

Date	Place of Visit
4/8/2014	CLP Nuclear Resources Centre
8/8/2014	Cathy Pacific Cargo Terminal
29/11/2014	MTR West Island Line Kennedy Town Station
7/2/2015	District Cooling System in East Kowloon
14/3/2015	SGH Electric Wire & Cable Co. Ltd, Guangdong
21/3/2015	Shatin Sewage Treatment Plant

Mainland China Visit Sub-committee (Chaired by Ir WS Tam)

5. Fifteen members joined an 8-day technical visit during 23-30 August 2014 to a variety of renewable energy power stations in Yunnan including hydropower station, wind power station, and photovoltaic power station.

Overseas Technical Visit Sub-committee (Chaired by Ir Edward Yeung)

6. A technical visit of 23 participants to Alaska and British Columbia of Canada was conducted during May/June 2014 participants. Participants visited the machine control room in a modern cruise ship with detail presentation from the Engineer-in-charge. The delegation also visited the British Columbia Institute of Technology (BCIT) for its micro-grid demonstration project on energy saving and storage systems and a fuel cell manufacturing plant - Ballard Power Systems to learn about the latest fuel cell technology and development.

International Conference on Electrical Engineering (ICEE) 2014 (Led by Ir Albert To)

7. The International Conference on Electrical Engineering (ICEE) 2014 with the theme “Sharing Solutions for Secure and Sustainable Energy” was held in Jeju, Korea from 15 to 19 June 2014. It offered a very good and precious opportunity for electrical engineers from all over the world with various specialties to meet, inspire each other, and share vision towards our sustainable future. Representatives from the Division met over 600 delegates from 14 countries.

Membership Drive Subcommittee (Chaired by Ir PK Chan)

8. Four membership drive talks were organized in 2014/15 session at IVE (Tsing Yi), IVE (Haking Wong), HKU and HK PolyU. The presentation included an introduction on HKIE and its Electrical Division, careers in the Government, power utilities, consulting and contracting sectors, the need and path of joining HKIE. The responses were enthusiastic.

9. In addition, Ir Mandy Leung represented the Division to participate in the HKIE School Ambassadors programme. We have nominated thirteen school ambassadors, who conducted nine school talks to secondary school students.

Public Relations Committee (PRC) (Represented by Ir PK Chan)

10. Ir PK Chan, who represented the Division in the Public Relations Committee, led Division members to support activities in promoting public relations of the HKIE.

Community Service Committee (CSC) (Represented by Ir CF Chan)

11. Ir CF Chan, as a member of the Community Service Committee, served as a link for the Division to provide prompt and constructive comments to consultation papers issued by the HKSAR Government and other statutory/professional bodies.

Continuing Professional Development Committee (CPD) (Represented by Ir Dr Bryan Pong)

12. Ir Dr Bryan Pong, who represented the Division in the CPD Committee, had updated Division members on all matters relating to CPD requirements.

Learned Society Board (LSB) (Represented by the Chairman, Ir Ho Siu Kwong)

13. Ir Ho Siu Kwong represented the Division to co-ordinate LSB matters.

The HKIE Boards and Committees

14. The Division also actively participated in the work of the Institution and had representation/ex-committee members in the following Board and Committees:

- Council (represented by Ir KM Leung)
- Discipline Representative (represented by Ir PN Ip)
- Learned Society Board (represented by the Chairman, Ir Ho Siu Kwong)
- Public Relations Committee (represented by the Deputy Chairman, Ir PK Chan)
- Community Service Committee (represented by the Hon Secretary, Ir CF Chan)
- Continuing Professional Development Committee (represented by Ir Dr Bryan Pong)

Publication and Communication with Members (Chaired by Ir YH Chan)

15. Ir YH Chan served as the authorised representative of the Division to update the activities and notice of the Electrical Division in the journal of the HKIE (*Hong Kong Engineer*).

Annual Dinner (Chaired by Ir PK Chan)

16. In order to provide an opportunity for annual gathering of members, the Annual Dinner 2015 was scheduled for 8 May 2015, after the Division AGM.

Energy Innovation Project Competition (Chaired by Ir Ho Siu Kwong)

17. The programme was sponsored by CLP Power Hong Kong Limited and had been running for 6 academic years since 2009 for the benefits of secondary students. It aimed to provide an opportunity for the students to propose and implement innovative projects for energy efficient initiatives or to promote energy efficiency to the community. This year over 300 students joined the Competition in 78 teams, with 34 teams competing in the second round. Ten teams would then enter the Competition Finals on 9th May 2015.

Professional Short Courses in Electrical Engineering (Chaired by Ir Mandy Leung)

18. Four professional short courses covering various aspects of electrical engineering were held in March 2015. This was the fifth year running such courses, which attracted 335 registrations, and the Committee was greatly encouraged by the overwhelming response. The professional short courses of 2014/15 continued to be endorsed by EMSD to satisfy the requirements of “CPD Module 2: Technical Knowledge Training” for the registration of Registered Electrical Worker.

Electrical Model Design Competition (Chaired by Ir Tony Yeung)

19. The Division had been organizing a contest for secondary school students for four years since 2012 with an aim to promoting electrical engineering, enhancing the knowledge and awareness of renewable energy and encouraging low carbon living among them. The main theme of this year’s contest continued to be hydropower. The event was supported by the Education Bureau of the Hong Kong SAR Government and the Hong Kong Polytechnic University with encouraging sponsorships from The Hongkong Electric Co., Ltd., CLP Power Hong Kong Ltd. and Kum Shing Group. In 2014/15 session, over 140 secondary school students from 41 schools participating in the contest.

Concluding Remarks

20. The Committee of the Electrical Division had been organising activities to promote and advance the profession of electrical engineering. Technical talks, visits, short courses, seminars, conferences and reach-out programmes as reported above were only some of the works of the Committee. The Committee not only served over 3,000 members of the Electrical Division, we also formulated and implemented plans to introduce the profession to the younger generation, and arranged visit/exchange with overseas/mainland learned society counterparts. We would continue the tradition and missions of the Division to nurture the youth and to develop and advance HKIE members.

21. I would like to thank all Committee Members for their devotion to the Division. Only with their unfailing support and active participation, I was able to lead the Division to another successful session. Immersed in a culture of dedication and continuous improvement, the Division is prepared to meet the needs and aspiration of all members in the coming sessions.

(Ir Ho Siu Kwong)
Chairman, Electrical Division Session 2014/15
30 April 2015

Electrical Division Committee Session 2014/2015

Chairman	Ir Ho Siu Kwong	
Immediate Past Chairman	Ir CL Leung	
Deputy Chairman	Ir PK Chan	
Honorary Secretary	Ir CF Chan	
Honorary Treasurer	Ir YK Chu	
Members	Ir Steve Chan Ir YH Chan Ir Stanley Leung Ir TK Chiang Ir WI Ho Ir Dr Bryan Pong	Ir Mandy Leung Ir Dr Edward Lo Ir WS Tam Ir SS Tang Ir CL Wong Ir Tony Yeung
Ex-officio Members	Ir Dr KM Leung Ir PN Ip Mr Indi Wong Ms June Yip	(Council Member(Division)) (Discipline Representative) (AMC Representative) (YMC Representative)
Co-opted Members	Ir Andrew Yan	Mr Raymond Sze
In Attendance	Ir Peter Wong Ir David Yuen Ir Leonard Lee Ir Dr FC Chan Ir TP Uy Ir Prof. KP Wong Ir TH Tai Ir Simon Chung Ir Ho Sai King Ir KM Leung Ir Albert To Ir CL Leung Ir Edward Yeung Ir Tommy Lam Ir Dr CY Chung Ir Ken Chan Ir Tony Lau Mr Jason Chan Mr Alex Fu Mr John Cheung Ir Roger Leung Mr Smith Tsai	Past Chairman as advisor Past Chairman as advisor Past Chairman as advisor Past Chairman as advisor Past Chairman as advisor Past Chairman as advisor Past Chairman as advisor Past Chairman as advisor Past Chairman as advisor Past Chairman as advisor Past Chairman as advisor Past Chairman as advisor Past Chairman as advisor Past Chairman as advisor Past Chairman as advisor Ir WK Lee Ir Gordon Woo Ir Dr Philip Pong Ir Dr Brian Pong Ms Candy Leung Ms Suki Tam Ms Christine Tse Ms Venus Tam Ir Sherman Tong