

Annual Report for Session 2012/2013

1. Foreword

Session 2012/13 has been a very active year for the Electrical Division. With the upcoming Division AGM in May 2013, the Division Committee will have held eleven meetings to discuss and plan activities (both locally and overseas) for its members.

2. Technical Programme and Publications Sub-committee (chaired by Ir Dr. Edward Lo)

The Sub-committee has either organised or co-organised a total of eight technical talks/seminars in this Session. More than 80 attendees on average were recorded for each of the talks/seminars.

Date	Event	Speaker
10/10/2012	Buildings Energy Efficiency Ordinance and the Building Energy Code	Mr. D. Lau and Mr. C. Chan
29/10/2012	Application of SVC & Statcom to improve Stability of AC/DC Hybrid Power Systems	Dr. Lin Yong
02/01/2013	Control of Medium Voltage Drives	Prof. Joachim Holtz
30/01/2013	Energy in the past, now and future	Mr. Thomas Chan
27/02/2013	Technologies and Applications of Induction Lighting	Matsushita Lighting (HK) Co. Ltd
5/4/2013	The Role of Energy Storage in the Future Smart Grid	Prof. Danny Sutanto, University of Wollongong, Australia
20/4/2013	Discussion Forum on Power Market	Panelists from various organisations
25/04/2013	The Impact of Micro Grids and Smart Grid	Stanley Leung, Siemens Co. Ltd.
May 2013	CPD Course for REW	HK PolyU Electrical Engineering Alumni Association (EEAA)
May/June 2013	Intelligent Control of Modern Lifts and Escalators	Speaker from Otis

3. 30th Annual Symposium (chaired by Ir Dr. K.M. Leung)

The 30th Annual Symposium was held on 18 October 2012 in Sheraton Hong Kong Hotel & Towers. The Symposium Organising Committee was chaired by Ir Dr. K.M. Leung, with Ir Y.K. Chu as the Symposium Secretary. The Symposium theme was 'Innovative Electrical Engineering for a Low Carbon City', for which nine papers were presented. The HKIE Senior Vice President, Ir Raymond Chan, delivered an opening speech; Mr. Liam O'Sullivan, Programme Director, Low Carbon London, UK, delivered a keynote speech; and Ir Frank Chan, JP, Director of Electrical & Mechanical Services, presented a closing address. Over 300 participants attended the Symposium and their responses were enthusiastic.

4. Local Technical Visit Sub-committee (chaired by Ir Tony Yeung)

The Sub-committee has organized four technical visits to places of technical interests to members in this Session, with two more to be held in May and June. Response for each visit was overwhelming, and the visit to Shenzhen MTR Line No.4 had to be held twice to meet the heavy demand. Around 30 attendees on average were recorded for each of the visits:

Date	Place of Visit
24/11/2012	CLP Nuclear Resources Centre
08/12/2012	Daya Bay Nuclear Power Station
14/12/2012	Pearl River Tower, Guangzhou
13/04/2013	Shenzhen MTR Line No.4
18/05/2013	Shenzhen MTR Line No.4
22/6/2013	Shek Wu Hui Sewage Treatment Works

5. Mainland China Visit Sub-committee (chaired by Ir W.S. Tam)

A technical visit to Shandong was organized from 27th to 31st October 2012, with 17 members joining the delegation.

6. Overseas Technical Visit Sub-committee (chaired by Ir Edward Yeung)

A 14-day technical visit to Balkan Peninsula was organised from 14th to 27th July 2012 with 22 participants. The tour visited technical attractions including the Hydro Power Plant at Matka, Macedonia, ABB Power Sub-station in Sarajevo, Bosnia, and Nikola Tesla Museum in Belgrade, Serbia.

7. International Conference on Electrical Engineering (ICEE)

The International Conference on Electrical Engineering (ICEE) 2012 with the theme “Renovation and Innovation by Electrical Engineering” was held in Kanazawa, Japan from 8 to 12 July 2012. 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 400 delegates from 23 countries.

8. Membership Drive Subcommittee (chaired by Ir P.K. Chan)

A total of five membership drive talks were organized at IVE (Tsing Yi), IVE (Haking Wong), HKU, HKUST and HK PolyU in the 2012/2013 Session. The presentation included an introduction on the HKIE and the Electrical Division; careers in the Government, power utilities, consulting and contracting sectors; benefits of being a member of the HKIE; and the path of joining the HKIE. The responses were enthusiastic.

9. Public Relations Committee (PRC) (represented by Ir C.L. Leung)

Ir C. L. Leung, who represented the Division in the Public Relations Committee, led Division members to support activities in promoting public relations of the HKIE.

10. Community Service Committee (CSC) (represented by Ir Ho Siu Kwong)

Ir Ho Siu Kwong, 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, and to nominate members to serve on external Boards and Committees.

11. Continuing Professional Development Committee (CPD) (represented by Ir Prof. K.T. Chau)

Ir Prof. K.T. Chau, who represented the Division in the CPD Committee, has updated Division members on all matters related to CPD requirements.

12. Learned Society Board (LSB) (represented by the Chairman, Ir Albert To)

Ir Albert To represented the Division to co-ordinate LSB matters with the Division.

13. The HKIE Boards and Committees

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 Geoffrey Chan)
- Discipline Representative (represented by Ir Joseph Leung)
- Learned Society Board (represented by the Chairman, Ir Albert To)
- Community Service Committee (represented by the Hon. Secretary, Ir Ho Siu Kwong)
- Public Relations Committee (represented by the Deputy Chairman, Ir C.L. Leung)
- Continuing Professional Development Committee (represented by Ir Prof. K.T. Chau)

In addition, the Division also rendered its full support to the HKIE School Ambassadors programme. This session was chaired by Ir Mandy Leung and we have nominated 14 school ambassadors. We have conducted 6 school talks to secondary school students by 5 of our school ambassadors.

14. Publication and Communication with Members (chaired by Ir Y.H. Chan)

Ir Y.H. Chan served as the authorised representatives of the Division to update the journal of the HKIE (*Hong Kong Engineer*) on the Electrical Blog, activities and notice of the Electrical Division. For the Electrical Blog, up to Apr 2013, a total of 78 articles have been published.

15. Annual Dinner (chaired by Ir C.L. Leung)

In order to provide an opportunity for annual gathering of members, the Annual Dinner 2013 will be held on 10th May 2013, after the Division AGM, in Sheraton Hong Kong Hotel & Towers.

16. Energy Innovation Project Competition (chaired by Ir Ho Siu Kwong)

The programme is sponsored by CLP Power Hong Kong Limited and has been running for 4 academic years since 2009 for the benefits of secondary students. It aims 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 380 students joined the Competition in 97 teams, with 31 teams competing in the second round. Ten teams will then enter the final round of competition on 25th May 2013.

17. Professional Short Courses in Electrical Engineering (chaired by Ir Gary Ko)

Four professional short courses covering various aspects of electrical engineering were held in March 2013. This was the third year running for such courses and the Committee was greatly encouraged by the overwhelming response. Moreover to address the increasing demand for REW CPD courses, Professional Short Courses in this year were endorsed by EMSD to satisfy CPD Module 2: Technical Knowledge Training. The Division also invited EMSD to conduct a seminar on CPD Module 1: Safety Law and Regulation in April.

18. Wind Turbine Model Design Contest (chaired by Ir Gary Ko)

This contest is sponsored by The Hongkong Electric Co. Ltd. , CLP Power Hong Kong Ltd. and Kum Shing Group, and the final was held in Zero Carbon Building on 21st April 2013. Its aim is to promote electrical engineering, enhance the knowledge and awareness of renewable energy and to encourage low carbon living among lower form students. It also offered a great learning opportunity for lower form students to develop creative ideas on both wind turbine design and presentation. A total of 122 students from 32 teams participated and the Committee was greatly encouraged by the enthusiastic response.

19. Conference on Electrical Safety (chaired by Ir Gary Ko)

To address the increasing number of electrical accidents at sites, the Division formed a task force in October 2012. The task force organized a Half-day Conference on Electrical Safety on 20th December 2012 and was well-received by over 300 participants. After the Conference, a paper has been prepared for ICEE 2013 and the task force is still working closely with EMSD and Labour Department for implementing the safety proposals collected.

The Committee of the Electrical Division has 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 are only some of the work of the Committee. While serving over 3,000 members, the Committee also develops, formulates and implements plans to introduce the profession to the younger generation, and arranges visit/exchange with overseas/mainland learned society counterparts. To nurture the youth and to develop and advance our members are the tradition and missions of the Division.

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 Albert To)
Chairman, Electrical Division Session 2012/13
24 April 2013

Electrical Division Committee Session 2012/2013

Chairman	Ir Albert To	
Immediate Past Chairman	Ir Dr. K. M. Leung	
Deputy Chairman	Ir C.L. Leung	
Honorary Secretary	Ir Ho Siu Kwong	
Honorary Treasurer	Ir Y.K. Chu	
Members	Ir Steve Chan Ir Y.H. Chan Ir Prof. K.T. Chau Ir T.K. Chiang Ir Ho Sai King Ir Gary Ko	Ir Mandy Leung Ir Dr. Edward Lo Ir W.S. Tam Ir S.S. Tang Ir Gordon Woo Ir Tony Yeung
Ex-officio Members	Ir Geoffrey Chan Ir Joseph Leung Mr. Patrick Lee Mr. Vincent Leung	(Council Member(Division)) (Discipline Representative) (AMC Representative) (YMC Representative)
Co-opted Members	Ir W.I. Ho Ir Stanley Leung	Ms. Christine Tse
In Attendance	Ir Peter Wong Ir David Yuen Ir Leonard Lee Ir Dr. F.C. Chan Ir T.P. Uy Ir P.N. Ip Ir Prof. K.P. Wong Ir T.H. Tai Ir Simon Chung Ir P.K. Chan Ir C.F. Chan Mr. Indi Wong Ir Ken Chan Ir Edward Yeung Ir W.K. Lee Ir C.L. Wong Ir Tony Lee Ir Dr. Philip Pong Ir Jason Chan	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

Electrical Division
電機分部

Mr. Alex Fu
Ms. Candy Leung
Mr. John Cheung
Ms. Venus Tam
Mr. Raymond Sze

電機工程部
ELECTRICAL DIVISION