

Annual Report for Session 2013/2014

1. Foreword

Session 2013/14 has been a very active year for the Electrical Division. With the upcoming Division AGM in May 2014, the Division Committee will have held eleven meetings to discuss and plan activities (both locally and overseas) for its members.

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

The Sub-committee has either organised or co-organised a total of ten technical talks/seminars in this Session. More than 100 attendees on average were recorded for each of the seminars/conferences.

Date	Event	Speaker
30/8/2013	Should Hong Kong Reduce its Electricity Reliability?	Prof. C.K. Woo, HK Baptist University
25/9/2013	The Application of Dynamic Modelling Techniques to the Grid-connected PV (Photovoltaic) Systems	Dr. Sam Lam of Jiawei Solarchina Co. Ltd.
5/11/2013	Innovations and Technologies in Renewable Energy	Dr. Edward Lo of HK PolyU
7/11/2013	The Benefits & Challenges of Bringing Smart Meters to Hong Kong	Speakers from various organisations
22/11/2013	Residential Willingness-to-pay for Reducing Coal-fired Generation's Emissions in Hong Kong	Prof. C.K. Woo, HK Baptist University
8-11/12/2013	The 5 th IEEE Asia-Pacific Power and Energy Engineering Conference	Speakers from various organisations
11-13/12/2013	The 5 th IEEE International Conference on Power Electronics Systems and Applications	Speakers from various organisations
8/1/2014	Green Elevator Technologies	Ir Thomas Chan, Otis (HK) Co. Ltd.
27/3/2014	Design of SIL Trains	Ir C.L. Leung, MTR Corporation
28/3/2014	Hong Kong's Future Fuel Mix	Ir T.C. Yee., The Hongkong Electric Co., Ltd.
End May/ Early June	Technical talks on fuel mix from academics and CLP Power	Details to be confirmed

3. 31st Annual Symposium (chaired by Ir Albert To)

The 31st Annual Symposium was held on 17 October 2013 in Sheraton Hong Kong Hotel & Towers. The Symposium Organizing Committee was chaired by Ir Albert To, with Ir Y.K. Chu as the Symposium Secretary. The theme of the Symposium was "Smart Infrastructure & Mega

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Projects in Electrical Engineering”, for which eight papers were presented. Ir Raymond Chan, HKIE President, delivered an opening speech; Ir Dr. F.C. Chan, Past President of the HKIE, delivered a keynote speech; and Ir Dr. W.K. Lo, JP, Legislative Council Member of HKSAR, 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 six visits to places of technical interests to members in this Session and one of which took place in Guangzhou. Response for each technical visit was overwhelming, and the visit to HKU Centennial Campus had to be held twice to meet the demand. Around 30 attendees on average were recorded for each of the visits. The visit to Tuen Mum Water Treatment Works was for 69 lower form students with an aim to broadening their understanding in hydropower and electrical engineering.

Date	Place of Visit
13/7/2013	HKU Centennial Campus
28/9/2013	MTR Tsing Yi Control Centre
30/11/2013	HKU Centennial Campus
25/1/2014	New Civil Aviation Control Centre
22/3/2014	Tuen Mum Water Treatment Works
12/4/2014	Siemens transformer manufacturing plant in Guangzhou

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

A technical visit to Chengdu and Lhasa was organized from 7th to 14th September 2013, with 31 members joining the delegation.

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

A 15-day technical visit to Alaska of USA and British Columbia of Canada has been organized from 31/5/2014 to 14/6/2014. The tour will visit technical attractions in a state-of-the-art modern cruise ship; hydro power station; a microgrid project and a fuel cell manufacturing plant.

7. International Conference on Electrical Engineering

The International Conference on Electrical Engineering 2013 with the theme “A long-term safe, reliable, sustainable and intelligent power system” was held in Xiamen, China from 14 to 17 July 2013. It offered a precious opportunity for electrical engineers from all over the world with various specialties to inspire each other and share vision towards our sustainable future. Representatives from the Division met with over 400 delegates from 23 countries.

8. Membership Drive Sub-committee (chaired by Ir P.K. Chan)

Two membership drive talks were organized at IVE (Haking Wong) and HKU in the 2013/2014 Session. One more talk will be arranged for IVE (Tsing Yi) before end of this session. The presentation provided the engineering students with information on the activities of Electrical Division as well as the career opportunity as professional electrical engineers and the challenges

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in various sectors so that the students could plan out their career. The responses were enthusiastic. Furthermore, a talk was given to around 30 young members on the route to become a professional electrical engineer.

9. Public Relations Committee (PRC) (represented by Ir Ho Siu Kwong)

Ir Ho Siu Kwong, 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 P.K. Chan)

Ir P.K. 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, 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, updated Division members on all matters related to CPD requirements.

12. Learned Society Board (LSB) (represented by the Chairman, Ir C.L. Leung)

Ir C.L. Leung represented the Division to co-ordinate LSB matters.

13. The HKIE Boards and Committees

The Division 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 P.N. Ip)
- Learned Society Board (represented by the Chairman, Ir C.L. Leung)
- Public Relations Committee (represented by the Deputy Chairman, Ir Ho Siu Kwong)
- Community Service Committee (represented by the Hon. Secretary, Ir P.K. Chan)
- Continuing Professional Development Committee (represented by Ir Prof. K.T. Chau)

In addition, the Division rendered its full support to the HKIE School Ambassadors programme. This session was chaired by Ir Mandy Leung and we have nominated nine school ambassadors who conducted five school talks to secondary students.

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

Ir Y.H. Chan served as the authorized 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, a total of 90 articles have been published up to April 2014.

15. Annual Dinner (chaired by Ir Ho Siu Kwong)

In order to provide an opportunity for annual gathering of the members, the Annual Dinner 2014 will be held on 9th May 2014, 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 five 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 300 students joined the Competition in 80 teams, with 30 teams competing in the second round. Ten teams will then enter the Competition Final on 17th May 2014.

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 2014. This was the fourth year running such courses, which attracted 298 registrations, and the Committee was greatly encouraged by the overwhelming response. Moreover, to address the increasing demand for REW CPD courses, the professional short courses in this year were continuously endorsed by EMSD to satisfy the requirements of “CPD Module 2: Technical Knowledge Training”. The Division also invited EMSD to conduct a seminar on “CPD Module 1: Safety Law and Regulation” on 14th May 2014.

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

The Division has organized such contest for lower form students for three 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 is hydropower. The event is supported by the Water Supplies Department and the Hong Kong Polytechnic University, and encouraging sponsorships from The Hongkong Electric Co. Ltd., CLP Power Hong Kong Ltd., Kum Shing Group and Siemens Ltd. are also received. We have 149 lower form students from 40 schools participating in the contest. The final contest will be held on 4th May 2014.

The Committee of the Electrical Division has been organizing activities to promote and advance the profession of electrical engineering. Technical talks, visits, short courses, seminars, conferences and reach-out programmes 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 C.L. Leung)
Chairman, Electrical Division Session 2013/2014
29 April 2014

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Electrical Division Committee Session 2013/2014

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