



## Annual Report for Session 2010/2011

### 1. Foreword

Session 2010/11 has been a very active year for the Electrical Division. With one more meeting in June 2011, the Division Committee will have held eleven Division Committee meetings to discuss and plan activities (both local and overseas) for members.

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

Ir Dr Edward Lo has organised a total of thirteen technical talks / seminars in this Session. More than 40 attendees on average were recorded for each of the talks / seminars.

<b>Date</b>	<b>Event</b>	<b>Speaker</b>
19/7/2010	“Electric Vehicles and Smart Grids”	Prof. C C Chan
19/8/2010	“A Dynamic Discharge Structure for Ultracapacitor Application in the Fuel Cell UPS”	Prof. Y Y Wang
14/9/2010	Destination Management System of Elevators – World Wide experiences and Implications to HK	Mr. Jeffrey Chan
5/10/2010	“Intelligent Electric Energy Systems”	Speakers from DTU of Denmark and HK PolyU
29/10/2010	A One-day Workshop on Distribution Network Protection – from Concept to Recent Developments	Dr. Alex Apostolov
15/11/2010	“Advanced Motor Drives for Electric Propulsion”	Prof. K T Chau
6/12/2010	“NAS Energy Storage System for Saving Energy and Renewable Energy”	Mr. Hiroyuki Abe
7/12/2010	“Impact of Imbalance of Single-phase Traction to Three-Phase Power System”	Dr. C T Tse
10/12/2010	“System-wide Automatic Voltage Control System with its Application in China and USA”	Dr. H B Sun
13/12/2010	“Electric Vehicles in Hong Kong: A Utility’s Perspective”	Ir Ron Chung
25/2/2011	“Latest Cable Fault Locating & Diagnostic Technique”	Mr. Johnny Chan
24/3/2011	“Using TRIZ for Innovation”	Ir Dr. Michael Li
21/4/2011	“Energy Efficiency in Building management & Technology”	Ms. Elsa Chan



3. Twenty-Eighth Annual Symposium (chaired by Ir Simon Chung)

The 28<sup>th</sup> Annual Symposium was held on 26 October 2010 at the Sheraton Hotel. The Symposium Organising Committee was chaired by Ir Simon Chung, with Ir Y K Chu as the Symposium Secretary. The theme of the Symposium was ‘Modern Projects - Challenges and Solutions’, for which ten papers were presented. The HKIE Vice President, Ir Dr F C Chan, delivered an opening speech; Ir Prof. C C Chan, President, World Electric Vehicle Association, delivered a keynote speech; and Ir Stephen Chan, JP, Director, Electrical and Mechanical Services Department, presented a closing address. Over 300 participants attended the Symposium and their response was enthusiastic.

4. Local Technical Visit Committee (chaired by Ir Gordon Woo)

The Committee has organised four technical visits to places of technical interests to members. With positive response received in the last Session, the Committee conducted one 1-day technical visit to the Mainland China. On average, 50 members were enrolled for each visit on Mainland China.

<b>Date</b>	<b>Place of Visit</b>
25/9/2010	HSBC Data Centre at TKO
27/11/2010	HK Electric Solar Photovoltaic System at Lamma Power Station
22/01/2011	HK Electric Solar Photovoltaic System at Lamma Power Station
27/03/2011	Fed-Supremetech Factory at Dongguan

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

A technical visit to Shanghai and Nanjing was organized from 9 to 12 September 2010. 10 members joined the delegation.

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

A 13-day technical visit to Hokkaido and Tokyo was organised from 24 July to 5 August 2010 to update our members on the latest developments in electrical and building services products and equipment in Japan. 35 participants joined the tour to visit a nuclear power station in Hokkaido and district heating and cooling system at Ikebukuro, and to attend two presentations on the latest technology in particle beam medical treatment facility and electric vehicles by Mitsubishi in Tokyo.

7. ICEE Conference

The International Conference on Electrical Engineering (ICEE) 2010 with its theme on “The Smart & The Green in Electrical Engineering” was held in Busan, Korea from 11 to 14 July 2010. 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.



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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 and HK PolyU in the 2010/2011 session. Contents of the presentation included the introduction of the HKIE, Electrical Division; careers in the government, power utilities, consultant and contractor sectors; benefits of being a member of the HKIE; and the path of joining the HKIE. The response was enthusiastic.

9. External Relationship (Public Relations Committee) (represented by Ir Dr K M Leung)

Ir Dr K M Leung, who represented the Division in the Public Relations Committee, led Division members to support the activities on promoting the public relations of the HKIE.

10. Community Service Committee (represented by Ir Albert W K To)

Ir Albert To, as a member of the Community Service Committee, served as the link of the Division to provide prompt and constructive comments to consultation papers issued by the HKSAR Government and other statutory / professional bodies, and nominate members to serve on external Boards and Committees.

11. Continuing Professional Development Committee (CPD) (represented by Ir Eric Chui)

Ir Eric Chui, who represented the Division in the CPD Committee, has updated Division members on all matters related to CPD requirements.

12. 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 Members (Ir Gary Ko [EOM], Ir Dr FC Chan [Senior Vice President], Ir TH Tai [EOM] and Ir Dr Edward W C Lo [Council Member (Division)])
- Discipline Representative (Ir Joseph C M Leung)
- Learned Society Board (represented by the Chairman, Ir Geoffrey Chan)
- Public Relations Committee (represented by the Deputy Chairman, Ir Dr K M Leung)
- Community Service Committee (represented by the Hon. Secretary, Ir Albert W K To)
- Continuing Professional Development Committee (represented by Ir Eric Chui)

In addition, the Division also renders its full support to the HKIE School Ambassadors Programme. For this session, we have nominated 13 school ambassadors. We have conducted 12 school talks to secondary school students by 9 of our school ambassadors.

13. Publication and Communication with Members

Ir Dr. Edward Lo and 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 May 2011, a total of 55 articles have been published in the journal.



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14. Annual Dinner (chaired by Ir Dr K M Leung)

In order to provide an opportunity for annual gathering of members, the Annual Dinner 2011 will be held on 27 May 2011 at The Graces Garden Chinese Restaurant.

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

The programme is sponsored by CLP Power Hong Kong Limited and is to span through 2 academic years 2009/10 and 2010/11 at approximately HK\$1 million per year for secondary school students. The target of the programme is to propose and implement projects with innovative ideas to develop energy efficient initiatives or to promote energy efficiency to the community. The programme may be further extended for another 2 years up to 2013.

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

Four professional short courses which cover various aspects of Electrical Engineering were held in March/April 2011. The short courses were attended by 245 students. Due to overwhelming response, the 4 classes originally scheduled had to be extended to 7 classes.

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 Committee.

I would like to thank all Committee Members for their devotion to the Division. Only with their unfailing support and active participation, I am able to ride through the Session. Immersed in a culture of dedication and continuous improvement, the Division is sailing to develop and advance so as to meet the needs and aspiration of all members.

(Ir Geoffrey Chan)  
Chairman, Electrical Division Session 2010/11  
26 April 2011



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### Electrical Division Committee Session 2010/2011

Chairman	Ir Geoffrey L Chan	
Immediate Past Chairman	Ir Simon F W Chung	
Deputy Chairman	Ir Dr K M Leung	
Honorary Secretary	Ir Albert W K To	
Honorary Treasurer	Ir Y K Chu	
Members	Ir P K Chan Ir C S Ho Ir Ho Siu Kwong Ir Morris S W Cheung Ir Chan Yiu Hon Ir C L Leung	Ir Eric C H Chui Ir Tam Wing Shing Ir S S Tang Ir S K Ho Ir Gordon M S Woo Ir Kenny C M Chan
Ex-officio Members	Ir Dr Edward W C Lo Ir Joseph C M Leung Mr. Patrick W W Lee Mr. N K Chan	(Council Member(Division)) (Discipline Representative) (AMC Representative) (YMC Representative)
Co-opted Members	Ir Tony K T Yeung Ir Ivan W K Tsui Ir Prof. K T Chau	
In Attendance	Ir Peter Y Wong Ir David C M Yuen Ir Leonard C P Lee Ir Dr F C Chan Ir T P Uy Ir P N Ip Ir Prof. K P Wong Ir T H Tai Ir Gary C W Ko Ir Edward Y H Yeung Ir W K Lee Ir C L Wong Ir Prof. S L Ho Ir Steve K K Chan Ir Mandy Leung Man Yee Ir Ken Chan Ms. Christine H Y Tse	Past Chairman as advisor Past Chairman as advisor
Observer	Mr. Alex T H Fu	