



香港工程師學會

THE HONG KONG INSTITUTION OF ENGINEERS

香港銅鑼灣記利佐治街1號金百利9字樓  
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電機工程部  
ELECTRICAL DIVISION

## Annual Report for Session 2009/2010

### 1. Foreword

Session 2009/2010 has been a very active year for the Electrical Division. With one more meeting in June 2010, the Division Committee will have held twelve 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)

Including three more events in May and June 2010, Ir Dr. Edward Lo has organized a total of twelve technical talks / seminars in the Session. More than 40 attendees on average were recorded for each of the talks / seminars.

<b>Date</b>	<b>Event</b>	<b>Speaker</b>
26/06/2009	“Energy and Carbon Audit”	Ir Kenneth Li, PBA
29/09/2009	“Safety of Existing Lifts – European Experience and Implications to Hong Kong”	Mr. Paul Yeung, Director EHS, Quality & Learning for Otis Elevator Company (HK)
07/10/2009	“Power Oscillations in Hong Kong and PSS”	Ir Dr CT Tse
26/11/2009	“LED Lighting Technology”	Universal Lighting Asia Ltd
04/12/2009	A one-day workshop on power system protection – theory, applications, and recent development	A number of local and mainland speakers
23/12/2009	“Coordinated Tuning of DFIG based Wind Energy Conversion System”	Dr Sukumar Mishra , Associate Professor, Indian Institute of Technology Delhi, India
07/01/2010	“Deploying the Smart Grid Vision: A Case Study in Toronto, Canada”	Mr. Joshua WONG, Toronto Hydro, Canada”
12/03/2010	Clean Energy for Hong Kong”	Ir Chan Siu Hung, Corporate Development Director, CLP Power Hong Kong Limited
20/04/2010	Red Light Camera System”	Ir MK Wu of EMSD and Dr. Nelson Yung of HKU
04/05/2010	“Assessment of Voltage Stability Margin under Load Uncertainties”,	Dr. CT Tse of PolyU - EE
20/05/2010	“New Railway Systems in HK”	Ir CL Leung of MTRC
June 2010	“Integrating wind power into power system”	Dr. Xu Zhao, PolyU-EE



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3. Twenty-Seventh Annual Symposium (chaired by Ir S.K. Ho)

The 27<sup>th</sup> Annual Symposium was held 22<sup>nd</sup> October 2009 at the Sheraton Hotel. The Symposium Organizing Committee was chaired by Ir S.K. Ho, with Ir Y.K. Chu as the Symposium Secretary. The theme of the Symposium was 'Engineering the Changes', for which nine papers were presented. HKIE Vice President, Ir Dr F.C. Chan, delivered an opening speech; Ir Dr Tony Lee, Rolling Stock Fleet Manager of MTR Corporation Ltd., delivered a keynote speech; and Mr Ricky Wong, Chairman of Hong Kong Broadband Network Ltd., 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 organized five technical visits to places of technical interests to members. With positive response received in the last session, the Committee conducted three 1-day technical visits in Mainland China. On average, 50 members were enrolled for each visit in Mainland China.

Date	Place of Visit
26/09/2009	Midea Factory (美的) in Foshan (佛山)
28/11/2009	Fair-Rack Switchboard Factory in 鶴山
30/01/2010	Eagle's Nest Tunnel (尖山隧道)
27/03/2010	Vpower Generator Set Factory in Shenzhen
29/05/2010	Schneider Busway Factory in Guangzhou, China

5. Mainland Visit Sub-committee (chaired by Ir David Yuen)

A technical visit to Three Gorges Power Station was organized from 23 to 28 October 2009. Over 20 members joined the delegation. With special arrangement by The Three Gorges Corporation, we were able to view from the top of the Dam to grasp appreciation of the greatness of the Three Gorges Project (TGP). We could see the operation of the Power House on the right of the Dam, the underground Power House on right bank, the Ship Lift, its associated civil infrastructures etc.

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

A 15-day technical visit to Southern Italy and Germany was organized from 6 to 20 June 2009 to update our members with the latest developments in electrical and building services products and equipment in Europe. 20 participants joined the tour to visit an intelligent lighting control system by Beggelli in Rome, Schneider Electric factory in Napoli, wind farm operated by Enel Green Power Group in Sicily, Italy, and Siemens Energy Group in Frankfurt.

7. ICEE Conference

The International Conference on Electrical Engineering (ICEE) 2009 was held in Shenyang, China from 5<sup>th</sup> – 9<sup>th</sup> July 2009 and offered a very good and precious opportunity for electrical engineers



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from all over the world with various specialties to meet, inspire each other, and share vision toward our sustainable future. Representatives from the Division had the opportunity to meet over 400 delegates from 23 countries.

8. Membership Drive Subcommittee (chaired by Ir Eric Chui)

Series of membership drive presentations were organized at HKU, HK Poly U, IVE (Tsing Yi) and IVE (Haking Wong) in November 2009, December 2009 and March 2010 respectively. Each series of talks comprised of two to three presentations in different individual institutions. Contents of the presentation included the introduction of the HKIE, Electrical Division; careers in the government, power utilities, consultants and contractors; benefits of being a member of the HKIE; and path of joining the HKIE.

9. External Relationship (Public Relations Committee) (represented by Ir Geoffrey Chan)

Ir Geoffrey Chan, 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 K.M. Leung)

Ir K.M. Leung, 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 W. K. Lee)

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

12. HKIE Boards and Committees

The Division also actively participated in the work of the Institution with Division Committee Members serving in the following Board and Committees:

- Council Members (Ir Gary Ko [EOM], Ir Dr. F.C. Chan [Vice President], Ir T.H. Tai [EOM] [Division] and Ir W.C. Lo [Division])
- Discipline Representative (Ir Stephen H. C. Chan)
- Learned Society Board (represented by the Chairman, Ir Simon Chung)
- Public Relations Committee (represented by the Deputy Chairman, Ir Geoffrey Chan)
- Community Service Committee (represented by the Hon. Secretary, Ir K.M. Leung)
- Continuing Professional Development Committee (represented by Ir W.K. Lee)



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13. Publication and Communication with Members

Ir Dr. Edward Lo and Ir C. L. Wong served as the authorised representatives of the Division to update the journal of HKIE (*Hong Kong Engineer*) on the Electrical Blog, activities and notice of the Electrical Division. For the Electrical Blog, up to May 2009, a total of 38 articles have been published in the journal.

14. Annual Dinner (chaired by Ir Geoffrey Chan)

In order to provide an opportunity for annual gathering of members, the Annual Dinner 2010 will be held on 28 May 2010 at the Royal Palace 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. The target participants are secondary school students 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.

The Committee of the Electrical Division has been organizing activities to promote and advance the profession of electrical engineering. Technical talks and visits, seminars and conferences, reach-out programmes as reported above are among 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. To nurture the youth and to develop and advance our members are the glorious 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 Simon Chung)  
Chairman, Electrical Division Session 2009/10  
25 April 2010



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**Electrical Division Committee Session 2009/2010**

Chairman	Ir Simon F.W. Chung	
Immediate Past Chairman	Ir Ho Sai-king	
Deputy Chairman	Ir Geoffrey L. Chan	
Honorary Secretary	Ir Dr. K. M. Leung	
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 Albert W. K. To Ir Edward Y. H. Yeung Ir C.L. Wong	Ir Eric C. H. Chui Ir Tam Wing Shing Ir W.K. Lee Ir Dr. Edward W.C. Lo Ir Gordon M. S. Woo Ir Chan Yiu Hon
Ex-officio Members	Ir Dr. Edward W.C. Lo Ir Stephen H. C. Chan Mr. Indi W. F. Wong Ir Ken Chan	(Council Member/ Division) (Discipline Representative) (AMC Representative) (YMC Representative)
Co-opted Members	Ir Gary C.W. Ko Ir Kenny C.M. Chan Ir Y.K. Chu	
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 Joseph C. M. Leung Ir P. N. Ip Ir Prof. K. P. Wong Ir T. H. Tai Ir Tony K. T. Yeung Ir C.L. Leung Ir S.S. Tang Ir Mandy M.Y. Leung Ir Dr. Joe W.N. Lau Ir Ivan W.K. Tsui Ir Steve K.K. Chan Ms. Christine H. Y. Tse	Past Chairman as advisor Past Chairman as advisor