



香港工程師學會

THE HONG KONG INSTITUTION OF ENGINEERS

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電機工程部
ELECTRICAL DIVISION

Annual Report for Session 2006/2007

1. Foreword

2006/2007 has been a very active year for the Electrical Division. The Division Committee has held ten meetings to discuss and plan local and overseas activities for Members. With one more meeting in June, the Division Committee would have held eleven Division meetings for the Session.

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

Including two more events in May 2007, Ir Dr. Edward Lo would have organised thirteen technical talks/seminars in the Session. More than 40 attendees on average were recorded for each of the talks/seminars. There would be a technical talk after the Division Annual General Meeting on 7 May 2007.

Item	Date	Event	Speaker
1	6 July 2006	Technical Seminar on "Enterprise Risk Management" (jointly with YMC)	Mr. Ivan C.K. Lai
2	9 September 2006	Technical Seminar on "High Density-Blade Server Integration in Existing Data Centres" (jointly with Electronic Division)	Mr. Michael Tin
3	20 October 2006	Technical Seminar on "Performance Standards, Sizing Design Considerations and Latest Product Development in Diesel Generator System" (jointly with IET-HK P&E Section)	Ir Peter Long
4	22 November 2006	Technical Seminar on "Energy Resources Development and Advancements of Power Technology in China" (jointly with PolyU-EE & IEEE-HK)	Professor Cheng Yonghong
5	24 November 2006	Technical Talk on "Safe use of domestic induction cookers"	Ir C.Y. Cheung
6	19 January 2007	Technical Talk on "Load Intelligence: A New Frontier"	Mr. John W.M. Cheng
7	26 January 2007	Technical Talk on "Modern Generator Protection using Digital Multifunction Relays" (jointly with PolyU-EE & IEEE-PES)	Dr. Murty V.V.S. Yalla
8	9 February 2007	Technical Talk on "Power System Restoration Control"	Dr. Y.X. Ni
9	14 March 2007	Technical Talk on "The Latest Development of 11kV Distribution System Protection" (jointly with IET-HK P&E Section, CIBSE-HK)	Ir Dr. F.C. Chan
10	23 March 2007	Technical Talk on "Infrastructure Planning, Civic Participation and the Changing Role of Engineers" (jointly with YMC and PolyU-EE)	Ir Albert K.T. Lai
11	30 April 2007	Seminar on "Professional Communicative Competencies"	Professor Winnie Cheng
12	18 May 2007	Technical Seminar on "Electrical Metrology – Standards, Traceability and International Recognition"	Ir Dennis W.K. Lee
13	30 May 2007	Technical Seminar on "Intelligent LV Switchgear" (jointly with PolyU-EE and IEEE-PES)	Mr. Gunnar Zank



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3. Twenty-Fourth Annual Symposium

The Twenty-Fourth Annual Symposium was held on 17 October 2006 at the Sheraton Hotel. The Symposium Organising Committee was chaired by Ir T.H. Tai with Ir Y.K. Chu as the Symposium Secretary. The theme of the Symposium was “Engineering Excellence through Continuous Improvement” when nine papers were presented to discuss excellence in engineering projects and development within Hong Kong. The Symposium was honoured with Ir K.L. Wong, President of the HKIE, delivered the Opening Address, Ir Edmund Leung, ex-President of the HKIE, gave the Keynote Speech and Ir Roger Lai, Director of EMSD, delivered the Closing Address. Over 300 participants benefited considerably from their speeches and papers of the Symposium.

4. Twenty-Fifth Annual Symposium

The Twenty-Fifth Annual Symposium, of a theme on Green Energy, Economy and Environmental Challenges, would be held on 23 October 2007. Renowned speakers would present the challenges, innovations and experience in minimising impact to the environment when undertaking engineering projects and major development.

5. Local Technical Visit Committee (chaired by Ir Frank Ng)

Ir Frank Ng had organised eleven technical visits to places of technical interest to members. These technical visits were very well received by members and during every visit, there were enlightening discussions between visiting members and the hosting organisations. On average, twenty members were enrolled for each visit.

	Date	Place of Visit
1	8 July 2006	Cathay Pacific City
2	19 August 2006	Airport Control Centre
3	23 September 2006	International Financial Centre
4	14 October 2006	KCRC Lok Ma Chau Spur Line
5	2 December 2006	Hong Kong University of Science & Technology
6	6 January 2007	Dunwell Group
7	27 January 2007	Hong Kong Aircraft Engineering Company
8	10 March 2007	Hong Kong Science Park
9	21 April 2007	Hongkong International Terminals
10	12 May 2007	MTRC Maintenance Works at Kowloon
11	9 June 2007	WSD Water Treatment Works at Ngau Tam Mei

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

Ir David Yuen organised a visit to Xinjiang from 16 September to 22 September 2006. The 20-member delegation team which was led by the Division Chairman, Ir Professor K.P. Wong, visited the largest wind power plant in China and had met government officials and representatives of local associations in electrical and science field. The officials outlined the wind power distribution system in Xinjiang and the approved plan for the coming five years to the delegation. Ir K.M. Yung and Ir S.K. Ho delivered two presentations on the power distribution system development and the achievements in energy conservation in Hong Kong respectively. The delegations had had an in-depth discussion with the Chinese



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counterparts afterwards to keep abreast of the latest development of power industry at the Xinjiang area.

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

Ir Edward Yeung had organised a 15-day technical visit to Russia, Finland and Sweden. The visit took place from 15 July to 29 July 2006 and was attended by 33 participants. The delegation visited Mikron Electronic Factory in Moscow, Kone Elevator Factory in Helsinki and Siemens Gas Turbines Factory in Finspong of Sweden.

Between 28 July and 11 August 2007, the Division would visit Estonia, Latvia, Lithuania, Poland and Germany to update members with the latest development and technology in electrical equipment and building services products in these countries.

8. ICEE Conference

The International Conference on Electrical Engineering (ICEE) 2006 was held in Korea from 9 July – 13 July 2006. The aim of the ICEE is to provide a forum for the exchange of knowledge, experience and ideas among electrical engineers worldwide. Representatives who attended the conference from the HKIE were Ir Dr. W.K. Lo, Vice President, Ir Professor C.C. Chan, Ir Professor K.P. Wong, Ir Dr. F.C. Chan and Ir Dr. Edward Lo.

The ICEE 2007 would take place from 8 July to 12 July 2007 at Hong Kong. The theme this year is Intelligent Clean Efficient Electricity for the 21st Century with focus on Sustainability and Reliability. Over 600 paper abstracts from 23 countries have been received. This indicates the Organising Committee has built a good international image for ICEE.

9. Membership Drive Subcommittee (chaired by Ir Simon Chung)

Ir Simon Chung organised five membership drive presentations at HKU, HK Poly U, IVE at Tsing Yi and Haking Wong between November 2006 – April 2007. The objective is to draw students of the universities/IVE and practising engineers to join the HKIE as student members, graduate members and, in turn, Corporate Members and Associate Members. The contents of the presentation covered the introduction of the HKIE, Electrical Division; career in the government, power utilities, consultants and contractors; benefits of being a member of the HKIE; and path of joining the HKIE.

10. External Relationship (Public Relations Committee) (represented by Ir K.M. Yung)

Ir K.M. Yung, who had represented the Division in the Public Relations (PR) Committee, led Division members to support the activities organised by the PR Committee of the HKIE including the submission of engineering projects archive, support of exhibitions and talks.

11. Technology Competition for Secondary Schools (chaired by Ir Dr. Edward Lo)

Together with the Education and Manpower Bureau, the Division had been organising a technology competition for secondary schools. The aim would be to raise the image and



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concept of technology education. It is envisaged to roll out the competition in fall 2007 and concluded the event in 2008.

12. School Ambassador Programme

In January and April 2007, school talks were given to two secondary school, namely Cheng Yu Tung Secondary School and St. Paul's Co-educational College. Ir Vincent Tong and Ir Dr. F.C. Chan from Electrical Division acted as HKIE's School Ambassadors to present HKIE's 'Get Ready to be an Engineer' to over 500 students. The talk covered the topics on engineer and you, what is engineering, job nature of engineering and main types of engineering practices in Hong Kong.

13. Community Services Committee (represented by Ir Gary Ko)

Ir Gary Ko, as a member of the Community Services Committee, had 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 nominating Members to serve on external Boards and Committees.

Up to the present moment, the below Committee Members / Members are serving in the following external committees:

Committee Members / Members	External Committee
Ir K.K. Fung Ir P.K. Chan	Disciplinary Tribunal Panel (Electricity) under the Electricity Ordinance (Cap 406) – EMSD
Ir Eric C.H. Chui Ir Gary C.W. Ko Ir W.K. Lee	Appeal Board Panel (Electricity) under the Electricity Ordinance (Cap 406) - EMSD
Ir Simon F.W. Chung	Qualification Framework Working Subgroup related to Electrical Engineering Works – EMB
Ir Geoffrey L. Chan	Qualification Framework Working Subgroup related to Lifts & Escalators Engineering Works – EMB
Ir Edward Y.H. Yeung	Qualification Framework Working Subgroup related to Lifts & Escalators Engineering Works – EMB
Ir Joseph C.M. Leung	Electrical Safety Advisory Committee – EMSD
Ir Joe W.N. Lau Ir David C.M. Yuen	Working Group on Grid Connection of Small-scale Renewable Energy – EMSD
Ir Geoffrey L. Chan Ir Joseph C.M. Leung	Appeal Board Panel on Lifts and Escalators (Safety) Ordinance, Cap 327, Registered Professional Engineers within the discipline of electrical or electronic engineering – EMSD
Ir T.H. Tai	VTC Committee on Technology Training: Subcommittee on Engineering Graduate Training Scheme
Ir P.K. Chan Ir Gary C.W. Ko Ir Albert W.K. To Ir Edward S.S. Wong Ir Gordon M.S. Woo	Appeal Board Panel under the Construction Workers Registration Ordinance



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14. Continuing Professional Development Committee (represented by Ir Eric C H Chui)

Ir Eric Chui, who had represented the Division in the Continuing Professional Development Committee, updated all Division members the development in relation to CPD requirements.

15. HKIE Boards and Committees

The Division also participated actively 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 (Division) and Ir C.S. Ho (Co-opt)]
- Discipline Representation (Ir W.H. Wong)
- Learned Society Board (represented by the Chairman, Ir Professor K.P. Wong)
- Public Relations Committee (represented by the Deputy Chairman, Ir K.M. Yung)
- Community Service Committee (represented by the Hon Secretary, Ir Gary C.W. Ko)
- Continuing Professional Development Committee (represented by Committee Member, Ir Eric C.H. Chui)
- HKIE Transaction – Editor / Electrical (Ir Professor K.P. Wong)

16. History Book on Electrical Engineering in Hong Kong (chaired by Ir T.H. Tai)

Chaired by Ir T.H. Tai, the working group had successfully published a book entitled 「EE 筆寫」- 香港電機工程發展趣誌 which was officially launched at our Annual Symposium on 17 October 2006. The 28 stories in the book are the snapshots of different sectors of electrical engineering in the past 50 years of Hong Kong. The Division had been honoured to have Ir Professor W.S. Leung, our Division founding Chairman, to contribute the Foreword to the book. Each member of the Division was given one coupon to collect the complimentary copy when public sale began in local bookstores. The book has been written for non-engineering readers and aims to give the public a better understanding of our profession and roles in the development of the city. Another objective of the book is to arouse the interest of the younger generation to join this exciting profession.

17. Essay Writing Competition for Secondary School Students

As part of the campaign to promote 「EE 筆寫」- 香港電機工程發展趣誌 and arouse interests of the electrical engineering profession to secondary school students, an Essay Writing Competition for Secondary School Students was held in the current Session while the award to winners would be presented during the International Conference on Electrical Engineering between 8 July – 12 July 2007. The competition was divided into two groups: F.1 to F.3 and F.4 to F.7 and the prize of each group would include a technical visit outside Hong Kong.



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18. Publication and Communication with Members

Ir C. L. Wong had served as the authorised representative of the Division to update the journal of the HKIE, Hong Kong Engineers on the activities and notice of the Electrical Division. With the support of Ir Dr. F. C. Chan, Ir Wong had enriched the Division's homepage with timely and memorable information including Symposium Proceedings. Monthly Electrical Blog had been published in the Hong Kong Engineers in this Session.

19. The Committee of the Electrical Division has, over the years, pressed on promoting the reputation of the industry. The organising of activities like technical talks and visits, seminars and conferences, various reach-out programmes, participation in the community, and, the publication of history book in this Session all encompass the missions of the learned society side of the HKIE. The Division endeavours to serve the existing 3,300 members while sparing no effort to draw the younger generation to join this challenging but rewarding profession.

I would like to take the opportunity to express my gratitude for the effort and contribution made by the Committee Members to the work of the Division during the Session and to thank all Elected Members, Co-opted Members, Ex-official Members (including Mr. Indi Wong – AMC, Mr. Stephen Yip – YMC), and Members In-Attendance for their unfailing support and active participation. I look forward to their continuing support in the coming year. With the support of the Institution and the participation of Members, I am confident that the Division will continue to grow and expand its activities and leadership to meet the needs and aspiration of the Members.

(Ir Professor K.P. Wong)

Chairman, Electrical Division 2006/07 Session
May 2007



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Electrical Division Committee 2006/2007

Chairman	Ir Professor K.P. Wong	
Immediate Past Chairman	Ir T.H. Tai	
Deputy Chairman	Ir K.M. Yung	
Honorary Secretary	Ir Gary C.W. Ko	
Honorary Treasurer	Ir S.K. Ho	
Members	Ir Geoffrey L. Chan Ir Eric C.H. Chui Ir C.S. Ho Ir Dr. Joe W.N. Lau Ir Dr. K.M. Leung Ir Frank K.L. Ng	Ir Y.K. Chu Ir Simon F.W. Chung Ir Henry H.C. Lam Ir W.K. Lee Ir Dr. Edward W.C. Lo Ir C.L. Wong
Ex-officio Members	Ir Dr. F.C. Chan (Council Member/Division) Ir W.H. Wong (Discipline Representative) Mr. Indi W.F. Wong (AMC representative) Mr. Stephen C.K. Yip (YMC Representative)	
Co-opted Members	Ir P.K. Chan Ir Gordon M.S. Woo	
In Attendance	Ir Y.H. Chan (Assistant Secretary) Ir Albert W.K. To Ir Edward Y.H. Yeung Ir David C.M. Yuen	