



ELECTRICAL DIVISION

Annual Report for Session 2002/2003

1. 2002/2003 has been a very eventful year for the Electrical Division. The Division Committee has held ten meetings to discuss and plan activities for Members. There will be one more meeting in June, making a total of eleven Division meetings for the session.
2. The Technical Programme and Publications Sub-committee, chaired by Ir Dr Edward Lo, has organized eight technical talks/seminars. More than 30 attendees on average were recorded for each event. There will be one more function in this month, making a total of nine functions for the session

	Date	Event
1	27 Jun 2002	Technical Talk on: Energy Management of Water Pumping Stations in Hong Kong
2	17 Sep 2002	Technical Talk on: Applications of Renewable Energy Technologies
3	8 Oct 2002	Technical Talk on: Community Activity Room – Metaphor for Interstate Transmission Highway
4	11 Oct 2002	One-day Symposium on: Sustainable Electrical Energy Development for the 21 st Century
5	30 Oct 2002	Technical Talk on: Active Filters – Coming of Age
6	13 Dec 2002	Technical Talk on: Recent Development and Applications of Evolutionary Optimization Techniques
7	12 Feb 2003	Technical Talk on: Energy Consumption Indicators and Benchmarks
8	31 March to 1 Apr 2003	Symposium on: Research and Development in Railway Engineering in Asia-Pacific
9	7 May 2003	Modern Trends of University Education

3. The Twentieth Annual Symposium was held on 22nd October 2002 at the Sheraton Hotel. The Symposium Organizing Committee was chaired by Ir Dr F.C. Chan. The theme of the Symposium was “A New Era of Opportunities and Challenges for Electrical Engineers”. There were a total of nine papers presented at the Symposium, discussing various issues facing the electrical industry. The Symposium has attracted over 300 delegates, including delegates from Singapore and Xian.
4. Planning work is in hand for the 21st Annual Symposium. It will be held on 23rd October 2003 at the Sheraton Hotel. The theme of this year Symposium is “A World Class City - An Electrical Engineering Perspective”. Renowned speakers will discuss factors contributing to a world class city, taking an electrical engineering perspective.
5. The Local Technical Visit, chaired by Ir Frank Ng, has organized eight visits to places of technical interest to Members. One more visit to the Hong Kong Science Park has been arranged at the end of May, making it a total of nine local technical visits for the session. These technical visits were very popular and on average twenty Members enrolled for each visit.



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	Date	Place of Visit
1	22 Jun 2002	Ngau Tam Mei Water Treatment Work
2	20 Jul 2002	Hong Kong Mail Delivery Centre at Chek Lap Kok
3	31 Aug 2002	CLP Power Castle Peak Power Station
4	28 Sep 2002	Marine Department Vessel Traffic Management Centre
5	26 Oct 2002	Light Rail Maintenance Depot at Tuen Mun
6	25 Jan 2003	MTRC Chai Wan Depot
7	22 Feb 2003	Hong Kong University of Science and Technology
8	26 Apr 2003	Hong Kong Electric Co. Ltd.– Cyberport 22kV Substation
9	31 May 2003	Hong Kong Science Park

6. The Mainland Visit Sub-committee, chaired by Ir David Yuen, organized a visit to Hainan from 22 to 25 November 2002. The visit included a technical visit to the Yangpu Power Station at the Yangpu Economic Development Zone of Hainan. During the visit, Members have the chance to see the facilities at the Power Station. We were briefed on the latest electricity market development at Hainan as well as the Power Plant's plan to convert the two light-fuel turbine generators to natural gas combined-cycle turbine generators. Seventeen Members and their families joined the trip.
7. The Overseas Technical Visit Sub-committee, chaired by Ir Edward Yeung, is organizing a 13-day technical visit to Europe this summer. The visits will take place on 2-14 August 2003. Countries to be visited will include the Netherlands, Italy and Switzerland. The tour will include visits to a testing laboratory, an energy research centre as well as factories for the manufacture of electrical plants and equipment.
8. The International Conference on Electrical Engineering (ICEE) 2002 was held in Jeju Island, Korea, from 7 to 11 July 2002. A delegation from the Electrical Division, led by Immediate Past Chairman Ir Dr F.C. Chan attended the conference. The aim of the ICEE is to provide a forum for the sharing of knowledge, experience and creative ideas among electrical engineers worldwide. The HKIE will play host to ICEE 2003, which will take place on 6 – 10 July 2003 at the Kowloon Shangri-la Hotel. The Chinese Society for Electrical Engineering (CSEE), the Institute of Electrical Engineers of Japan (IEEJ) and the Korean Institute of Electrical Engineers (KIEE) are the co-organizers. The theme of this year's conference is "Intelligent, Clean, Efficient Electricity for the 21st Century". The Electrical Division gives full support to the HKIE Headquarters in the organization of this international conference. The preparation work of this international conference is in good shape. So far over 300 paper abstracts have been received and reviewed. However, due to the outbreak of SARS in Hong Kong, consideration is being given to postpone the conference to December 2003.
9. To attract young engineers to join HKIE as well as to promote electrical engineering among University students, the Membership Drive Sub-committee, chaired by Ir P.N. Ip, delivered two talks to students of HKU and PolyU on 10 October 2002 and 1 March 2003 respectively. More than 20 students attended each talk.



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10. Following on the success of last year and for the purpose of promoting technology among secondary school students, the Division is considering of organizing another technology project competition for the secondary school students. Detailed discussions are taking place with the Education and Manpower Bureau.
11. To arouse the interest of the general public on science and technology, the Division has responded to the appeal of the Institution and organized, jointly with the Science Museum, two Popular Science Lectures for the members of the public. The first one, held on 26 January 2003, was on “Electric Power Transmission”. The second one, held on 29 March 2003, was on “Basic Laws on Electric Safety”. The events have received overwhelming responses. Well over a hundred audiences attended both lectures.
12. On Community Services, the Division continued to provide prompt and constructive comments to consultation papers issued by the SAR Government and other statutory/professional bodies, and nominating Members to serve on external Boards and Committees. Members of the Electrical Division are currently serving in the following external Boards and Committees:
 - Electricity Safety Advisory Committee
 - Appeal Board Panel under the Electricity Ordinance, CAP 406
 - Disciplinary Tribunal Panel under the Electricity Ordinance, CAP 406
 - Appeal Board Panel under the Lifts and Escalators (Safety) Ordinance, CAP 327
 - Disciplinary Board Panel under the Lifts and Escalators (Safety) Ordinance, CAP 327
 - Appeal Board Panel under the Amusement Rides (Safety) Ordinance, CAP 449
 - Grade B Registered Electrical Worker Examination Committee (EMSD)
 - Grade C Registered Electrical Worker Examination Committee (EMSD)
 - Electrical and Mechanical Services Training Board of the Vocational Training Council
 - Sub-committee on Engineering Graduate Training Scheme of the Vocational Training Council
13. The Electrical and Mechanical Services Department is revising the Code of Practice for Electricity (Wiring) Regulations. The current edition was issued in 1997. Realizing that this is a very important document for the local electrical industry, the Division formed a Task Force, headed by the Deputy Chairman, Ir Joseph Leung, to study the documents in details with a view to offering construction comments to the department for the review. Representatives of the Division have also joined the department’s Working Group on the review exercise. It is understood that the review is near completion and the revised Code will be issued very soon.
14. The Division has participated actively in the work of the Institution with Division Committee Members serving in the following Board and Committees:
 - Learned Society Board (represented by the Chairman, Ir T.P. Uy)
 - Public Relations Committee (represented by the Deputy Chairman, Ir Joseph Leung)
 - Community Service Committee (represented by the Hon Secretary, Ir P.N. Ip)
 - Continuing Professional Development Committee (represented by Committee Member, Ir T.H. Tai)
 - Publication Committee (represented by Immediate Past Chairman, Ir Dr F.C. Chan)
 - Training Committee (represented by Hon Treasurer, Ir S.K. Ho)



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15. The Electrical Division was established 25 years ago. This year we are celebrating our 25th Anniversary. The celebration commenced with a gathering of past Chairmen on 29 July 2002, to recall sweet memories and to share views on the future work of the Division. 15 past Chairmen attended the gathering : Ir L.H. Lees (80/81), Ir James Chiu (82/83), Ir Y.C. Tong (84/85), Ir M.C. Lau (85/86), Ir Dr Simon Ho (86/87), Ir Prof C.C. Chan (90/91), Ir P.H. Ho (91/92), Ir Otto Poon (92/93), Ir Peter Wong (93/94), Ir David Yuen (94/95), Ir K.W. Tong (95/96), Ir Vincent Tong (98/99), Ir S.S. Yuen (99/00), Ir Leonard C.P. Lee (00/01), and Ir Dr F.C. Chan (01/02). The Chairman of the current session, Ir T.P. Uy, also attended the gathering. As part of the celebration, a short Division video was produced. The video recorded the major events of the Division as well as highlighted the achievement and development of electrical engineering in Hong Kong during the past quarter of a century. The video was distributed to participants at the annual symposium. Copies of the video were also given to Universities and secondary schools for distribution to their students as promotional material for electrical engineering.
16. Finally I would like to take the opportunity to express my gratitude for the efforts and contribution made by the Committee Members to the work of the Division during the session and to thank all the Members for their support and participation. I look forward for their continued 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 to meet the needs and aspiration of the Members.

(UY Tat-ping)
Chairman, Electrical Division 2002/03 Session
May 2003



ELECTRICAL DIVISION

Electrical Division Committee 2002/2003

Chairman	Ir T.P. Uy	
Immediate Past Chairman	Ir Dr F.C. Chan	
Vice Chairman	Ir Joseph C.M. Leung	
Hon Secretary	Ir P.N. Ip	
Hon Treasurer	Ir S.K. Ho	
Members	Ir W.C. Cheng Ir K.K. Fung Ir W.K. Lee Ir Frank K.L. Ng Ir C.L. Wong Ir David C.M. Yuen	Ir Y.K. Chu Ir C.S. Ho Ir Dr Edward W.C. Lo Ir T.H. Tai Ir Edward Y.H. Yeung Ir K.M. Yung
Ex-officio Members	Ir Leonard C.P. Lee (Council Member/Division) Ir S.S. Yuen (Discipline Representative) Mr Indi W.F. Wong (AMC Representative) Ms Denise K.Y. Lo (YMC Representative)	
Co-opted Members	Ir David T.W. Chan Ir Eric C.H. Chui Ir Gary C.W. Ko	
In Attendance	Ir P.M. Cheng (Assistant Secretary) Ir Geoffrey L. Chan Ir Prof K.P. Wong	