

## The 2nd CIE and IEM International Symposium on Electrical, Electronic and Energy Saving at Fubon International Convention Centre, Taipei, Taiwan



by Ir. Mah Soo and Ir. Lee Kok Chong

### ELECTRICAL ENGINEERING TECHNICAL DIVISION

**THE** above seminar which was held on 17 November 2010 was a follow-up to the first seminar which was held in Penang in 2009. The 2nd CIE and IEM International Symposium was successfully organised and conducted with about 120 participants by the following organising committees:

- The Institution of Engineers, Malaysia (IEM)
- The Chinese Institute of Engineers (CIE)
- The Chinese Taipei APEC Engineer Monitoring Committee (CTAEMC)
- The National Federation of Professional Electrical Engineer Guilds of R.O.C.

The symposium was officiated by His Excellency, Mr. Frank L. S. Fan (Minister without Portfolio and Chairperson of the Public Construction Commission, Executive Yuan, Taiwan).

The opening ceremony programs included speeches from Dr Lu Shyue Ching, the President of CIE, and a representative from IEM, as well as the presentation of tokens of appreciation to all the paper presenters by Mr. Otto Jiang, Chairman of the National Federation of Professional Electrical Engineers Guilds R.O.C.

There were 10 technical papers subdivided into two parallel sessions with equally shared presentations from the CIE and IEM. The papers presented were as follows:

	Electronic	Electrical and Energy Saving
1	Advances of Gate Oxide based on SiC for High Efficient Power Device Applications by Ir. Associate Professor Dr Cheong Kuan Yew (IEM)	The Development of Energy Efficiency and Energy Conservation in Malaysia by Ir. Mah Soo (IEM)
2	Development of Home Service Robotic Systems by Dr Kai-Tai Song (CIE)	Photovoltaic and Energy Saving by Mr. Howard Shih (CIE)
3	Dithering Jitter Analysis of Interpolator Based CDR Circuit by Mr. Soh Lip-Kai (IEM)	Malaysian Energy Efficiency and Conservation Guidelines and Recent Advances in Storage Technology by Ir. Lee Kok Chong (IEM)

	Electronic	Electrical & Energy Saving
4	How to BRIDGE between University Research and Industry Needs – An Example on National Networked Communication Program by Dr Huang Ching Yao (CIE)	Green Data Center by Mr. Ben K. C. Chu (CIE)
5	Trends in RF Semiconductor Technologies by Dr Teoh Chin Soon (IEM)	Introduction to the Automatic Dispatch and Control System in Taiwan by Mr. M. J. Chang (CIE)

The topics discussed covered a wide spectrum of subjects, from micro-components to entire systems, including the Energy Efficiency and Conservation development perspective and the future trends of things to come, R&D and its bridging towards the needs of the electrical and electronic industry.

There was active participation from the start until the closing of the conference with discussions between the participants and the paper presenters on the details of their papers, especially on the social and environmental impacts of such development and technical advances.

A technical visit was arranged the following day to the Hsinchu Science Park (HSP), Taipei, which was established in 1980. This is one of a cluster comprising other science parks in Jhunan, Tongluo, Longtan, Yilan and the Hsinchu Biomedical Science Park. A presentation was given on its overall development, construction and administration, where facilities in R&D and advanced technologies are developed and promoted to the industries.

The Industrial Technology Research Institute (ITRI), National Tsing Hua University (NTHU) and the National Chiao Tung University (NCTU) are situated around the HSP, which provides abundant human resources in greatly helping to resolve technical bottlenecks faced by some of the high technology companies. This was followed by a visit to TECOM, one of the companies located within the HSP, which specialised in the manufacturing of the 'e-Home System' based on the 'Smart Home' concept.



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Picture 1: During the opening ceremony



Picture 2: Participants/group photo at TECOM

Future plans to extend the next international conference to include counterparts from other APEC countries were mooted for this year.

The IEM delegation was accorded excellent hospitality during the short stay and would like to take this opportunity to record its sincere appreciation and say a big 'thank you' to its counterparts from the CIE and its organising committee, as well as the management and staff of HSP and TECOM for their effort and arrangement to organise such a successful seminar and technical visits, as well as for making the IEM delegation's stay in Taipei a memorable one.

The IEM delegation would also like to express its appreciation and thanks to the IEM President, the Electronics Engineering Technical Division in Penang, and the Electrical Engineering Technical Division in Kuala Lumpur, the IEM Secretariat and staff for their encouragement, assistance, contribution of papers and coordination on the logistics to make the trip a successful one. ■