

## IEEE MALAYSIA SECTION SECTION REPORT 2008

### PART A - SECTION SUMMARY

#### A.1 Executive Summary

2008 has been another busy year for IEEE Malaysia. There is an increase in members which indicates that IEEE Malaysia has been successful to attract Electrical Engineering professionals to join IEEE Malaysia. A lot activities ranging from technical talks, distinguished lecture programs (DLP), industrial visits, social interaction among members have been organized

Among the major activities organized by IEEE Malaysia in 2008 are Conference on Innovative Technologies in Intelligent Systems and Industrial Applications organised by the MMU SB, technically co-sponsored by RAS, SP, PELS/IE/IA, CS, PES and ComSoc/VT was held at Multimedia University Cyberjaya Malaysia, 12–13 July 2008. CPMT Chapter organised the International Electronics Manufacturing Technology (IEMT 2008) Conference on November 4<sup>th</sup>-6<sup>th</sup>, 2008, at Parkroyal Hotel, Penang. A core team member group, which consisted of 16 volunteers from the industry and universities, was formed to organize the conference. This 3-day event was well attended by professionals from industries and academic institutions. LEOS, ComSoc and UNITEN also organized NCTT-MCP 2008 (National Conference on Telecommunication Technology and Malaysia Conference on Photonics 2008) at IOI Palm Garden, 26–28 September 2008. The conference received a total of 130 papers but accepted only 100 papers with 125 participants from 12 countries such as Iran, Iraq, Taiwan, Japan, UK, Myanmar and Canada. The 2<sup>nd</sup> IEEE Power and Energy Conference (PECon 2008) was jointly sponsored by PELS/IE/IA and PES Chapter at The Zone Hotel, Johor Bahru from December 1–3. The conference was attended by 300 participants who in total presented 300 technical papers. The AP/MTT/EMC Joint Chapter organized the 2008 IEEE International RF and Conference (RFM 2008) from December 2-4 in Kuala Lumpur and 6<sup>th</sup> Student Conference on Research and Development on November 25-26, 2008 in Skudai, Johor. The student conference was jointly organized with the UTM Student Branch. The AP/MTT/EMC Malaysia Chapter Chair, Prof Dr Mazlina Esa, has been officially appointed as International Steering Committee (ISC) of Asia Pacific Microwave Conference (APMC) during APMC 2008 held in Hong Kong and Macau. APMC is a major conference in Region 10, focusing on Microwave research activities in addition to Antennas, Propagation and Electromagnetics research. The ISC has unanimously approved Malaysia to be the host for APMC 2017. In addition, the chapter has proposed for Malaysia to host the International Symposium on Antennas and Propagation (ISAP) in 2012, during ISC ISAP meeting at ISAP 2008 held in Taipei, Taiwan.

The major highlight of the year is the IEEE Freescale Smart Car Competition 2008 which was sponsored by Freescale Malaysia and organised in collaboration with Computer Society, UiTM and UPM which targeted engineering students of local universities. In addition the IEEE Malaysia Section in collaboration with PES and CS organized a Soft Skill workshop entitled “Greatness through Level 5 Leadership Principles” on July 5, 2008. The objective of the course was to develop positive and professional leadership skills to the leaders and future leaders of IEEE Malaysia Section and its chapters. In addition, the Section and the various Societies have also been very active in organizing DLPs, short-courses, seminars, technical talks and tutorials. In our effort to promote IEEE, the IEEE Malaysia Section has conducted membership drives nationwide. Besides organising activities of technical and education in nature, social activities were also conducted. A bowling tournament was organised by GOLD in February 2008 and aimed to strengthen the relationship among members of the society.

Based on activities conducted in 2007, thirteen chapters (AP/MTT/EMC, AP/ED/MTT Penang, IE/IA/PELS, ComSoc/VT, ComSoc, CAS, CPMT, Computer, PES, IM, RAS, EDS and SP)

received additional bonuses from the headquarters for reporting at least 6 technical activities. The chapter chairs were presented the bonuses and certificates of appreciation during the IEEE Malaysia Annual Award and Appreciation Night.

## A.2 Financial Report – containing the summary of the Financial activities and summary of the Section

[See Attached File: Financial Report 2008 – Malaysia Section](#)

### PART B - ORGANIZATIONAL ACTIVITIES

#### B.1 Membership Development Programs

- Summary and evidence of work done in the retention of members
- Summary and evidence of Affinity Group, i.e. GOLD, WIE ..., activities

B-1-1: The objectives of the Membership Development Committee (MDC) of IEEE Malaysia are as follows:

- To increase the number of professional and student members
- To retain as many members as possible
- To promote more members to Senior Members or even Fellow
- To set up more Society Chapters and Student Branches

B-1-2: The total number of members according to membership status as of December 2008 is presented below (the number in brackets represent data for 2007). From the figures, there is a slight decrease in the total number of associate and affiliate members, however, there is a substantial increase in new members and upgrading of ordinary to Senior Members.

	Fellow (F)	Senior Member (SM)	Life Member (LM)	Member (M)	Graduate Member (G)	Student Member (S)	Associate (A)	Affiliate Member (AF)	Total
Section	- (-)	113 (87)	- (-)	1054 (886)	212 (-)	483 (454)	70 (86)	43 (150)	1975 (1663)

B-1-3: The number of members according to societies in 2008 compared to the statistics in 2007 and 2006 are as follows:-

Society	2006	2007	2008
C016 Computer	228	172	329
COM019 Communications	277	221	587
PE031 Power Engineering	73	142	130
WIE050 Women in Engineering	70	50	125
CAS004 Circuits and Systems	35	28	89
ED015 Electron Devices	73	62	89
SP001 Signal Processing	47	46	91
AES010 Aerospace and Electronic Systems	10	8	22
PEL035 Power Electronics	23	20	47
SSC37 Solid-State Circuits	31	22	37

CS023	Control Systems	27	25	58
MTT017	Microwave Theory and Techniques	47	41	94
EM014	Engineering Management	25	17	43
AP003	Antennas and Propagation	25	24	64
RA024	Robotics and Automation	28	30	66
LEO036	Lasers and Electro-Optics	25	22	53
CPMT021	Components, Packaging and Manufacturing	32	37	49
EMB018	Engineering in Medicine and Biology	21	20	47
E025	Education	20	20	43
IE013	Industrial Electronics	23	21	55
IA034	Industry Applications	14	15	46
IM009	Instrumentation and Measurement	35	38	58
NNS011	Neural Networks Society	0	23	1
EMC027	Electromagnetic Compatibility	9	14	34
VT006	Vehicular Technology	11	10	30
DEI032	Dielectric and Electrical Insulation	7	8	17
GRS029	Geoscience and Remote Sensing	6	5	14
NPS005	Nuclear Plasma Science	-	-	5
CE008	Consumer Electronics	15	13	37
BT002	Broadcast Technology	7	3	15
IT012	Information Theory	4	5	24
MAG033	Magnetic Society	7	6	11
PC026	Professional Communication	4	2	13
SIT030	Social Implications of Technology	5	4	21
RL007	Reliability	5	4	19
OE022	Oceanic Engineering	3	4	7
PSE043	Product Safety Engineering	1	1	1
CIS011	Computational Intelligence	18	23	35
ITS038	Intelligent Transportation	8	3	6
SMC028	Systems, Man and Cybenetics	8	9	30
UFF020	Ultrasonics, Ferroelectric	3	5	8

B-1-4: At the time of preparation of this report, there are twelve chapters, four joint chapters and two affinity groups under IEEE Malaysia Section:

- i. Joint Chapter - Antenna & Propagation (AP), Microwave Theory and Techniques (MTT) and Electromagnetic Compatibility (EMC) Society – headed by Prof. Dr. Mazlina Esa, UTM.
- ii. Communication Society (ComSoc) and Vehicular Technology (VT) joint chapter – headed by Prof. Dr. Borhanuddin Md Ali, Mimos.
- iii. Power Engineering Society (PES) – headed by Dr. Zahrul Hussein, Uniten.
- iv. Computer Society (CS) – headed by Mr Mohd Rawidean Kassim, Mimos.
- v. Electron Devices Society (EDS) – headed by Prof. Dr. Sahbudin Shaari,

UKM.

- vi. Components, Packaging, and Manufacturing Technology (CPMT) Society – headed by Mr. Azhar Aripin, On Semi.
- vii. Signal Processing (SP) - headed by Dr. Mohd Faizal Ahmad Fauzi, MMU.
- viii. Instrumentation and Measurement (IM) –headed by Dr. Rini Akmeliawati, IIUM.
- ix. Industrial Electronics (IE), Industrial Applications (IA) and Power Electronics (PELS) joint chapter - headed by Mr. Mustafar Kamal Hamzah, UiTM.
- x. Lasers and Electro-Optics (LEOS) - headed by Dr. Suhairi Saharudin, MIMOS.
- xi. Circuits and Systems (CAS) Society - headed by Prof S.S Januar, UPM.
- xii. Electron Devices (EDS), Microwave Theory and Techniques (MTT) and Solid-State Circuits Society (SSCS) Joint Chapter in Penang – headed by Yut H Chow, Avago Technologies.
- xiii. Robotic and Automation (RAS) - headed by Assoc. Prof. Dr S. G. Ponnambalam, Monash University, Malaysia Branch.
- xiv. Graduate of Last Decade (GOLD) – headed Mr Fairuz Abdullah, Uniten.
- xv. IEEE Malaysia Women in Engineering (WIE) – headed by Assoc. Prof. Dr Zuhaina Zakaria, UiTM.
- xvi. Control Society (CS) – headed by Dr. Samsul Bahari Mohd Noor, UPM.
- xvii. Education Society (EduSoc) – headed by Dr. Riza Muhida, IIUM.
- xviii. Consumer Electronics (CE)- headed by Dr Abd. Rahman Ramli

B-1-5: There are nine student branches under the section and are as follows:

- i. UTM Skudai Student Branch (since 1999) - Prof. Dr. Mazlina Esa as the student counselor.
- ii. UiTM Student Branch (since 2008) – Mr Ahmad Sabirin Zoolfakar as the student counselor.
- iii. UPM Student Branch (since 2001) – Mr. Mohd Nizar Hamidon as the student counselor.
- iv. UKM Student Branch (since 2001) – Prof. Dr. Azah Mohamad as the student counselor.
- v. UTP Student Branch (since 2008) – Dr Fawnizu Azmadi Hussin as the student counselor.
- vi. IIUM Student Branch (since 2008) – Dr Ahmed Wathik Naji as the student counselor.
- vii. MMU Student Branch (since 2007) – Dr. Mohamed Yusoff Alias as the student counselor.
- viii. Monash University Student Branch (since 2007) – Dr. Arosha Senanyake as the student counselor.
- ix. UMS Student Branch (since 2007) – Dr. Farah as the student counselor.

B-1-6: Social Meetings and Membership Drives were carried out at various institutions in order to attract more professionals and students to join IEEE and enjoy the benefits of a member.

- i. A Membership Drive by UiTM Student Branch was held from 11<sup>th</sup> to 14<sup>th</sup> February 2008 to introduce IEEE to UiTM students.
- ii. Two Membership talks were organized by RAS on February 20 and March 4 and presented by Mr Emine G. Aydal and Dr. Arosha Senanayake.
- iii. Two Membership Development Programs were conducted by Monash SB on February 9 and July 22. The speaker invited to give the talk was Mr Emine G. Aydal and Dr. Arosha Senanayake.
- iv. A Membership Drive talk with Engineering students of Monash University was presented by Assoc. Prof. S.G. Ponnambalam on April 3 from RAS Malaysia Chapter.
- v. A Membership Drive at UNITEN by WIE on 22<sup>th</sup> April 2008 was presented by Assoc. Prof. Dr. Zuhaina and Mrs. Mahanijah Md Kamal to attract more professionals to join WIE and IEEE itself.

- vi. A Membership Drive was held from 2<sup>nd</sup> to 3<sup>rd</sup> April 2008 by UTP Student Branch to increase membership and to help existing members to renew. An internal Member-Get-Member scheme was introduced and 30 new student members were recruited.
- vii. Two Membership development programs were conducted by Mr. Mustafar Kamal Hamzah from Joint Chapter PELS/IA/IE at MMU on 27 August 2008 and at UiTM on 28 November 2008.
- viii. IEEE & IEEE Computer Society Professional Membership Drive was held on 22th April 2008 at UNITEN.
- ix. Several Membership Drives were organized and presented by Ex-comm of CAS Chapter to undergraduates and postgraduates student from April till September 2008. They were held separately in UNITEN (April, 22), UMT (June, 16), UPM (June, 24-25, July, 22), USM (June, 26) and HRDC (September, 18).
- x. Membership Drive was held on 13<sup>th</sup> October 2008 by IM at Universiti Malaya and presented by Prof. Zaiki Awang and Dr. Rini Akmeliawati.
- xi. Two Membership Drives were organised by MMU SB on June 23 and November 17, 2008 to attract MMU student joining the IEEE Malaysia Section. 30 new members were recruited.

## **B.2 Professional and Continuing Education Activities**

Summary of continuing Educational activities including conferences, technical activities, training courses with attachment table / information

The following conferences were organized by the Section involving financial sponsorship from the Section or organizing committee from local Chapters.

- i. Conference on Innovative Technologies in Intelligent Systems and Industrial Applications organised by the MMU SB, technically co-sponsored by RAS, SP, PELS/IE/IA, CS, PES and ComSoc/VT was held at Multimedia University Cyberjaya Malaysia, 12–13 July 2008.
- ii. CMPT Chapter has organised the International Electronics Manufacturing Technology (IEMT 2008) Conference which was held on November 4<sup>th</sup>-6<sup>th</sup>, 2008, at Parkroyal Hotel, Penang. A core team member group, which consists of 16 volunteers from the industry and universities, was formed to organise the conference. This 3-day event was well attended by professionals from industries and academic institutions. Trough a careful one-year planning, the conference was very successful in attracting total of 112 papers, 12 poster papers, 6 keynote addresses and 4 short courses. In all, over 300 people attended the event.
- iii. CS successful co-sponsored the International Symposium on Information Technology (ITSIM 2008) with a total of 460 participants. Besides that, CS also has been the technical sponsor for the following events:
  - Second Asia Pacific Trusted Infrastructure (APTISS '08) Summer School.
  - The International Conference on Distributed Frameworks & Applications 2008 (DFmA 2008).
  - International Conference on Network Applications, Protocols and Services 2008 (NetApps2008).
  - International Conference on Electronic Design (ICED 2008)
  - 4th. Malaysian Software Engineering Conference (MySEC '08).
- iv. LEOS, ComSoc and UNITEN organized NCTT-MCP 2008 (National Conference on Telecommunication Technology and Malaysia Conference on Photonics 2008) at IOI Palm Garden, 26–28 September 2008. The conference received a total of 130 papers but accepted only 100 papers with 125 participants from 12 countries such as Iran, Iraq, Taiwan, Japan, UK, Myanmar and Canada.

- v. The 6<sup>th</sup> Student Conference on Research and Development was held on November 25-26, 2008, hosted by the UTM Student Branch with collaboration with the Faculty of Engineering, UTM. It was held in Skudai, Johor and more than 90 papers were presented encompassing the research in power and energy, telecommunications, control, electronics and computer disciplines.
- vi. The 2<sup>nd</sup> IEEE Power and Energy Conference (PECon 2008) was jointly sponsored by PES and PELS/IES/IAS Joint Chapter at The Zone Hotel, Johor from December 1 – 3. The conference was attended by 300 participants who in total presented 300 technical papers.
- vii. The AP/MTT/EMC Chapter successfully organised 2008 IEEE International RF and Microwave Conference (RFM 2008) from December 2-4, 2008 at the USJ Summit Hotel, Kuala Lumpur, Malaysia. RFM2008 is a series of highly successful conferences initiated by the chapter aimed to provide opportunities for researchers, engineers and industrialists working in areas related to applied electromagnetics to present research results and new findings. The conference was co-organized by Universiti Teknikal Malaysia Melaka (UTeM); Universiti Teknologi Malaysia (UTM); Universiti Teknologi MARA (UiTM); Universiti Tun Hussein Onn Malaysia (UTHM), and Universiti Industri Selangor (UNISEL).
- viii. The 6<sup>th</sup> 2008 Regional Student Conference on Research and Development was held on November 26-27, 2008, hosted by the UTM Student Branch. It was co-organized with the Faculty of Electrical Engineering, UTM, and held in Skudai, Johor. The theme was 'Engineers and Research Excellence Culture'. SCORED 2008 received a record of ~300 full papers from various institutions in Malaysia, Indonesia and India. However, 250 papers were accepted. 200+ papers were presented over 8 parallel tracks encompassing communication, computing, control and robotics, electronics and circuits, lasers and optics, power and energy, RF and microwaves, and engineering education. Events include 2 Keynote presentations delivered by IEEE Malaysia Section Past Chairs, Invited Papers, IEEE Malaysia Section Forum, special presentation by Freescale on IEEE Malaysia & Freescale Smartcar Competition, undergraduate poster presentations, 4 Short Courses (delivered by 4 women professionals) and conference dinner and officiation. The conference was Technically Sponsored by the IEEE AP/MTT/EMC Malaysia Chapter. Best Paper Awards and Best Poster Paper Awards were presented during the conference dinner. The conference was supported by 43 hardworking volunteers, comprising of 30 undergraduates, 5 postgraduates and 8 UTM staff.

#### B-2-2: Technical Meetings (Short Courses/Seminars/Technical Talks/Tutorials)

Most of the technical meetings were conducted by the chapters and they are listed in the chapters' activities under B-6.

#### B-2-3: Distinguished Lecturers Programs:-

- i. CAS Chapter organised six DLP on 24<sup>th</sup> June 2008 by Prof. C.C. Wang, 25<sup>th</sup> – 26<sup>th</sup> June 2008 by Prof. Hubert Harrer, July, 22 by Prof. Nam Lim and on 16<sup>th</sup> September and also 18<sup>th</sup> September by Prof. G. Sobelam.
- ii. SP organised a DLP Tutorial by Prof. Peter Djunic on 30<sup>th</sup> June 2008 at MMU, Cyberjaya and a DLP seminar also by Prof. Peter Djunic on 1<sup>st</sup> August 2008.
- iii. DLP by Prof. S.S. Venkata, Washington State University of United States, titled 'The Role of Technologies, Tools and Techniques for Planning and Automation of Future Distribution Systems', Concorde Hotel Malaysia, 14 October 2008 organised by PES.
- iv. Distinguished Lecture Program by Prof. Dushan Boroyevich on 28<sup>th</sup> November 2008 conducted by PELS/IE/IAS Joint Chapter.

- v. IEEE EDS/MTTS/SSCS Joint Chapter Penang organised three IEEE EDS DLP on January 25, April 15 and September 23, 2008. Followings are the details:
- ‘III-V Devices for Millimeterwave Applications’, January 25, 2008 by Prof. Edward Yi Chang, Department of Materials Science and Engineering, National Chiao Tung University, Hsinchu, Taiwan.
  - ‘Split-gate Flash Memory-Cell Architecture and Scaling’ by Dr. Samar Saha, Silterra, USA on 15<sup>th</sup> April 2008.
  - ‘Reliability and Globalization – Beyond Quality’ by Assoc. Prof. Dr. Cher Ming Tan, School of EEE, Nanyang Technological University, Singapore.

### B.3 Recognized Educational Programs

- Summary of Educational activities including conferences, technical activities, training courses with attachment table / information

### B.4 Students Activities

- Active Student Branch activities including student paper contest, recruitment of student members

#### Technical and Educational Meetings (Short Courses/Seminars/Technical Talks/Tutorials)

- i. UiTM Student Branch organised the following technical talk and educational meetings:-

No.	Date	Title	Presenter/ Venue	Category / (Attendance)
E-1	26/01/2008	PSpicA talk on “Utilizing Endnotes and Microsoft Office”.	Assoc. Prof. Dr. Zuhaina Haji Zakaria DKG, Science & Technology Towers (S&T) Engineering Building, Universiti Teknologi MARA (UiTM) Shah Alam	Educational (100)
E-2	30/07/2008	A talk on “Code of Ethics of Engineers”.	En. Md. Zain Bin Abdullah (member of PES/IEEE Malaysia) Meeting Room Level 8, Block 4, Faculty of Electrical Engineering, Engineering Building	Educational (80)
E-3	16 – 17/08/2008	Matlab Classes	Mr. Ahmad Ihsan Bin Mohd Yassin. Laboratory Sun Level 8, Block 4 Faculty of Electrical Engineering, Engineering Building	Educational (80)
T-1	30/08/2008	Electrical Drives: An Application of Power Electronics	1) Encik Mohd Fuad Bin Abdul Latip; Lecturer FKE 2) Encik Saiful Izwan Bin	Technical (-)

			Suliman; Lecturer FKE 3) Encik Ahmad Fauzi bin Ibrahim; Lecturer FKE Laboratory Sun Level 8, Block 4 Faculty of Electrical Engineering, Engineering Building	
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- ii. UKM Student Branch - 2008 has been an active year for IEEE UKM SB. The IEEE UKM SB has organized about 5 educational development activities, 1 professional seminar, 2 technical visits and 2 social events. Every activity has been highly participated by each targeted group. The UKM SB also managed to organize a friendly badminton match with the IEEE UPM SB in order to build close ties between student branches. IEEE UKM SB has also successfully managed to collaborate with other UKM student societies in terms of organizing technical activities. Summary of activities conducted in 2008:-

No.	Date	Title	Presenter/ Venue	Category / (Attendance)
E-1	15/3/2008	Workshop on MATLAB and Website development		Professional (100)
E-2	5/4/ 2008	Workshop on Embedded System		Technical (52)
E-1	19/4/2008	Workshop on PSCAD/EMTDC	Dr Muhammad Nizam	Educational (10)
E-3	15/8/2008	2nd Workshop on Embedded System		Educational (18)
E-4	29/8/2008	Wavelet and S-Transform Workshop		Educational (20)
P-1	22/2/2008	Seminar on Renewable Energy and Distributed Generation	Prof. Dr. Majid Al-Dabbagh	Professional (100)
T-1	13/12/2008	Smart car competition		Social (4)

- iii. MMU Student Branch organised the following technical and educational meetings:-

No.	Date	Title	Presenter/ Venue	Category / (Attendance)
E-1	25/08/2008	PSpice Workshop	Low Pik Jian Lecture Hall (XR1003) MMU Cyberjaya	Educational (80)
E-2	02/09/2008	C-Programming Workshop	Dr. Tan Su Wei Multimedia Computing Lab MMU Cyberjaya	Educational (40)
E-3	03/09/2008	Microcontroller & Microprocessor Workshop	Dr. Tan Wooi Haw Multimedia Computing Lab MMU Cyberjaya	Educational (40)
E-4	17/11/2008 (4-day event)	IEEE Spectrum Round Table	Library Foyer MMU Cyberjaya	Educational (15)
T-1	27/8/2008	Electrical Drives: An Application	Assoc. Prof. Dr. Nik	Technical (100)

		of Power Electronics	Rumzi Nik Idris Lecture Hall (XR1005) MMU Cyberjaya	
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- iv. Monash University Sunway Campus - The IEEE Student Branch of Monash University organized a number of Industrial visits, Technical Talks and Workshops in 2008. In total, four Industrial visits, two workshops and four technical talks were conducted. The student Branch was also the co-organizer of the Conference on Innovative Technologies in Intelligent Systems and Industrial Applications (CITISIA) organized by Multimedia University. The list of activities conducted in year 2008 are as follows:

No.	Date	Title	Presenter/ Venue	Category / (Attendance)
E-1	16/05/2008	Fundamentals of Signal Processing	Prof. Man Zhi Hong/ Monash University	Educational (15)
E-2	27/05/2008	Cyber Crime	F-Secure/Monash University	Educational (20)
E-3	24/07/2008	Wireless Inertial System for Sports (WISS)	Darwin Gouwanda/Monash University	Educational (20)
E-4	24/07/2008	Multi Sensor System for Humanoid Robots	Alpha Agape Gopalai/Monash University	Educational 20)
T-1	25/06/2008	Workshop on LabView	National Instruments/Monash University	Technical (20)
T-2	21/07/2008	Introduction to 3D Prototyping with Autodesk Inventor	Design Technologies Alliance/Monash University	Technical (19)

- v. UTP Student Branch has also organised the following technical and educational meetings:-

- 30 UTP postgraduate students from different engineering backgrounds attended a gathering promoting IEEE student membership on 25<sup>th</sup> March 2008, hosted by the Branch Councilor.
- 16 student members paid a visit to IEEE Monash University Malaysia Student Branch on 12<sup>th</sup> April 2008 to share experience & knowledge and to discuss future joint-venture activities.
- 8 students attended the competition workshop at Freescale Semiconductor, Sungai Way on 2<sup>nd</sup> August 2008. 2 teams from UTP competed in the inaugural competition on 13<sup>th</sup> December 2008.

- vi. UTM Student Branch – The year 2008 has been another busy year for the UTM SB. They successfully organized two major events, a Career Fair and a regional conference, SCORED 2008. The IEEE UTM SB Career Fair 2008 was held on 23-24 February, at the Faculty of Electrical Engineering, UTM, Skudai campus. Thirteen companies participated in the event. It was well attended by graduating students. Career talks, company talks and interviews were held. The event was officiated by the Dean, FKE UTM. UTM SB is pleased to have successfully organized the sixth 2008 Regional Student Conference on Research and Development (SCORED 2008), 26-27 November. The theme was ‘Engineers

and Research Excellence Culture'. It was held in Universiti Teknologi Malaysia, Skudai, Johor. SCORED 2008 received a record of ~ 300 full papers from various institutions in Malaysia, Indonesia and India. However, 250 papers were accepted. 200+ papers were presented over 8 parallel tracks encompassing communication, computing, control and robotics, electronics and circuits, lasers and optics, power and energy, RF and microwaves, and engineering education. Events include 2 Keynote presentations delivered by IEEE Malaysia Section Past Chairs, Invited Papers, IEEE Malaysia Section Forum, special presentation by Freescale on IEEE Malaysia & Freescale Smartcar Competition, undergraduate poster presentations, 4 Short Courses (delivered by 4 women professionals) and conference dinner and officiation. The conference was Technically Sponsored by the IEEE AP/MTT/EMC Malaysia Chapter. Best Paper Awards and Best Poster Paper Awards were presented during the conference dinner. In addition, 5 executive office bearers attended the IEEE Malaysia Section Annual Award and Appreciation Night 2008. They received 2007 UTM SB Volunteer Awards for outstanding volunteer work in 2007. Series of Technical Talks, Short Courses, Professional Talks, Educational Talks, membership drives, Distinguished Microwave Lectures and Distinguished Lecturer Programs, Industrial visits, and social gatherings were held throughout the year. A number were co-organized with the AP/MTT/EMC Malaysia Chapter and Faculty of Electrical Engineering, UTM. Many were well attended by participants. The UTM SB plans to carry out more activities in the following year.

<b>No.</b>	<b>Date</b>	<b>Title</b>	<b>Presenter/ Venue</b>	<b>Category / (Attendance)</b>
P-1	19/01/2008	Qimonda campus recruitment	Prof Dr Mazlina and Jong Han Siong Block P16, FKE UTM	Professional (150)
P-2	28/03/2008	Career Talk - Finisar Corporation	Hj Abdullah Lin, Finisar P03 418 FKE UTM	Professional (20)
P-3	4/04/2008	Making Initiative and Decisions	Adnan Shahid Khan P02 317 FKE UTM	Professional (40)
P-4	06/08/2008	Professional and Personal Development as Marketing and Business Development	Prof Vijay K Arora	Professional (63)
P-5	15/10/2008	IEEE Malaysia Section Chair Address and Membership Drive	Prof Dr Mohd Nasir Taib	Professional (33)
P-6	26/11/2008	IEEE Malaysia Section Forum	Prof Dr Zaiki Awang, UiTM and IEEE Malaysia Section Vice Chair Prof Dr Mazlina Esa, UTM IEEE AP/MTT/EMC Chair IEEE UTM SB Counselor	Professional (20)
T-1	19/02/2008	Model Driven Development	Ms Emine Gokce Aydal (R8 SAC), Univ of York	Technical (56)
T-2	17/07/2008	Transmission Line Fundamentals	Prof Dr Mazlina Esa	Technical (60)
T-3	23/07/2008	Telematics Research Group Seminar on Wireless Sensor Network and	Prof Dr Norsheila Faisal Prof Dr Mazlina Esa	Technical (45)

		Cognitive Radio		
T-4	13/08/2008	Physics of Simulation Programs in Nanoelectronic Circuits and Systems	Prof Vijay K Arora	Technical/DLP (15)
T-5	18/09/2008	Flexible VLSI Architectures for UWB, MIMO and Cognitive Radio	Assoc Prof Dr Gerald E Sobelman, CAS DLP	Technical/DLP (85)
T-6	15/10/2008	An Introduction to Particle Swarm Optimization and Its Techniques	Dr Zuwairie Ibrahim	Technical (33)
T-7	26-27/11/2008	2008 Regional Student Conference on Research and Development	General Chair: Prof Dr Mazlina Esa Block P16, FKE UTM	Technical (300)
T-8	26/11/2008	Keynote 1: Multi-Robot Corporation, Human-Robot Interaction and Humanoids	Prof Dr Shamsuddin Hj Mohd Amin, UTM IEEE Malaysia Section Past Chair	Technical
T-9	27/11/2008	Keynote 2; Energy Supply in Malaysia: Past, Present and Future Scenarios	Prof Dr Hussein Ahmad, UTM IEEE Malaysia Section Past Chair	Technical
T-10	27/11/2008	Invited Paper 1; Microwave Filter Designs Implemented on Microstrip	Prof Dr Mazlina Esa, UTM	Technical
T-11	27/11/2008	Invited Paper 2; Next Generation Network and Personal Networks Beyond 3Gs	Prof Dr Norsheila Fisal, UTM	Technical
T-12	27/11/2008	Invited Paper 3; Sliding-Mode Control in Malaysia – a Brief Review on the Research Scope and Trends	Assoc. Prof Dr Mohamad Noh Ahmad, UTM	Technical
T-13	27/11/2008	Invited Paper 4; Distributed Smart Cameras for Coastal Surveillance	Assoc. Prof Dr Muhammad Munim Ahmad Zabidi, UTM	Technical
T-14	27/11/2008	Invited Paper 5; MEMS: Automotive to Biotech	Prof Dr Abu Bakar Mohamad, UTM	Technical
T-15	27/11/2008	Invited Paper 6; Asymmetrical Thermo Optic Polymer Based Photonic Switch	Assoc. Prof Dr Abu Sahmah Mohd Supaat, UTM	Technical
T-16	27/11/2008	Invited Paper 7; Simulation Study on Ferroresonance Phenomenon and Its Likely Cause for 33 kV Voltage Transformer Failures	Assoc. Prof Dr Zulkurnain Abd. Malek, UTM	Technical
T-17	27/11/2008	Short Course 1; Radio Over Fibre Technology: Current, Future and Development	Dr Sevia Mahdaliza Idrus, UTM	Technical
T-18	27/11/2008	Short Course 2; The Brain-Sensing Technology: Electroencephalography	Dr Noorlaili Mat Safri, UTM	Technical
T-19	27/11/2008	Short Course 3; High Performance Computing Research and Innovations	Dr Hjh Norma Alias, UTM	Technical
T-20	27/11/2008	Short Course 4; Adaptive Control	Dr Hazlina Selamat, UTM	Technical

		and Its Applications		
E-1	02/08/2008	IEEE Malaysia – Freescale Smartcar Competition Workshop	Prof Dr Mazlina Esa Neo Yun Sheng	Educational (8)
E-2	27/11/2008	IEEE Malaysia – Freescale Smartcar Competition Discussion	Neo Yun Sheng Dr Sevia Mahdaliza Idrus	Educational (10)
E-3	11- 13/12/2008	IEEE Malaysia – Freescale Smartcar Competition	Prof Dr Mazlina Esa Neo Yun Sheng	Educational (18)
E-4	27/11/2008	IEEE Malaysia – Freescale Smartcar Competition Special Presentation	Freescale	Educational

#### B-4-2: Social Meetings

- i. A badminton match organised by UKM Student Branch was held on August 22, 2008 with 18 players. Besides that, an iftar (berbuka puasa) Ramadhan event was held on September 11, 2008 with 30 participants.
- ii. A community service was organised by MMU SB at Petrosains, KLCC on 12<sup>th</sup> December 2008 with 39 students participating in this event.
- iii. An iftar social meetings during Ramadhan was held on September 5 and September 23 at UTM by UTM Student Branch and AP/MTT/EMC Joint Chapter with 84 participants.
- iv. AP/MTT/EMC Malaysia Joint Chapter also organized an iftar on September 16 and September 26 with 88 participants. The event was held at FKE UTM.
- v. UiTM Student Branch organised the following activities:
  - HEP Annual Grand Dinner on January 2008.
  - Skytrex Adventures on February 17, 2008.
  - WIE with Pelitawanis TNB on June 22, 2008.
  - Colloquium on Signal Processing and its Application (CSPA 2008) from 7<sup>th</sup> – 9<sup>th</sup> March 2008.
  - National Engineering Conference on February 2008.
  - Induction Engineering on July 27, 2008.
  - Fast-Breaking Ceremony with Selangor’s Sultan on September 10, 2008.
  - Majlis Jamuan Hari Raya di Dataran Tuanku Fuziah on October 21, 2008.
  - AGM IEEE Dinner on October 22, 2008.
  - .Program Krew SMF.

#### B-4-3: Technical Visits

- i. Monash SB organised four industrial visits to Freescale Malaysia on 26<sup>th</sup> March 2008 with 15 students. On 8<sup>th</sup> May 2008, they visited Malaysia Airlines Systems (MAS), 24<sup>th</sup> May 2008 to Western Digital and on 7<sup>th</sup> August 2008 to Texas Instruments Malaysia.
- ii. Technical Visit to Malaysia Nuclear Agency was conducted twice by PES Chapter. It was organised on April, 1 2008 and August, 11 2008, for 40 UNITEN SB students accompany by Assoc. Prof. Dr. Ismail Musirin.
- iii. Technical Visit to National Load Dispatch Centre (NLDC) was organized on February 17, 2008 for 30 students. Besides that, UKM SB organised a technical visit to Petronas Refinery Plant, Terengganu on 15<sup>th</sup> – 16<sup>th</sup> June 2008 with 38 students.
- iv. Technical Visit to Western Digital was organized on December 2, 2008 for 30 students by MMU SB.

### B.5 Awards

- Section Award program and Award issued
- Awards received

The Section gave away the following awards during the 2008 IEEE Malaysia Annual Award and Appreciation Night:-

- i. Best Volunteer Award 2007.
    - 1- Prof. Mazlina Esa
    - 2- Mr. Zainal Abu Kassim
    - 3- Mr. Mohd Rawidean Kassim
  - ii. Best Chapter Award 2007.  
AP/MTT/EMC Chapter
  - iii. High Performing Chapter Award 2007.
    - 1- IE/IA/PELS
    - 2- RAS Chapter
    - 3- ComSoc/VT
    - 4- PES Chapter
    - 5- Computer Society
  - iv. Additional Bonuses for 13 chapters for being very active for year 2007.
- B-5-2: The PES Malaysia Chapter also gave away the following awards for 2007 during the IEEE Malaysia Annual Award and Appreciation Night 2008 held on 22<sup>nd</sup> October 2008. The award and respective recipients are as follows:
- Outstanding Engineer Award: Dr. Abdul Halim Abu Bakar, TNB.
  - Corporate Recognition Award: Advanced Power Solutions.
  - Individual Appreciation Award: Mr. Michael Joseph.

The Chapter also presented plaques of appreciation to all its 2007 Ex-comm members for winning the IEEE PES Outstanding Chapter Award (Small Chapter Category) from the IEEE Headquarters USA for its 2007 program. For the year 2008, the Chapter is in the process of finalizing the nomination and selection of the awards recipient.

B-5-3: The UTM SB gave away the following awards for 2007 during the IEEE Malaysia Annual Award and Appreciation Night 2008 held on 22<sup>nd</sup> October 2008. The awards and respective recipients are as follows:

- Outstanding Volunteer Award: Mr Jong Han Siong, 2007 IEEE UTM SB Chair
- Volunteer Awards: Mr. Ng Wui Soon, 2007 IEEE UTM SB Vice-Chair; Mr Choe Yuet Sheng, 2007 IEEE UTM SB Secretary; Mr Neo Yun Sheng, 2007 IEEE UTM SB Treasurer and Mr Bong Yuan Yiunn, 2007 IEEE UTM SB Auditor.

B-5-4: The AP/MTT/EMC Malaysia Chapter is pleased to be awarded with Best Chapter Award 2007. In addition, the Chapter is proud of its Chapter Chair, Prof Dr Mazlina Esa, to be awarded the Best Volunteer Award 2007. The Bonus received by the Chapter for the year 2007 is also another proud achievement. During the RFM 2008, the AP/MTT/EMC Malaysia Chapter has also given out trophy awards and plaques appreciation to its long-serving executive officers and 2007 executive officers, respectively. The Silver Honor Roll award is newly introduced, as appreciation to 'Outstanding continuous 10-year volunteer service'. The recipients are Prof Dr Zaiki Awang, Prof Dr Mohd Zarar Mohd Jenu and Prof Dr Mazlina Esa. It is hoped that more executive officers will continue to voluntarily serve the Chapter with integrity, committment and enthusiasm.

The AP/MTT/EMC Malaysia Chapter has also awarded the Overseas Meeting Grant to Prof Dr Mohd Zarar Mohd Jenu, Vice-Chair, to attend EMCS 2008 and represent Chapter at the EMCS Chapter Chair Meeting (CCM).

## B.6 Chapter Activities

- Summary of Chapter activities with attachment table / information

B-6-1: Power Engineering Society (PES) – The chapter has been very active in organizing and sponsoring various activities throughout the year 2008. The chapter received the Outstanding Chapter Award (Small Chapter) for its 2007 program, and this year it continues the tradition of providing its members with various activities for technical knowledge, professional development and social networking.

The 18th Annual General Meeting for year 2008 was held on the 1 March 2008, 9.30am at the Kompleks Sains Dan Teknologi, Universiti Teknologi Mara. 25 members present for the meeting. Throughout the year, the Executive Committee Members met for four times on the following dates: 1/3/2008, 12/4/2008, 30/8/2008 and 15/11/2008. All in all, 6 technical meetings, 5 educational trainings, 7 professional talks and 5 social gathering were conducted. The list of activities held and supported by PES in 2008 are as follows:-.

No.	Date	Title	Presenter/ Venue	Category / (Attendance)
S-1	09/02/2008	Social bowling event to enhance the interaction among the members of PES, Venue: Alamanda Bowling Arena	Michael Joseph	About 10 members
S-2	17/02/2008	GOLD Bowling Tournament at Alamanda Bowling Arena.	Michael Joseph	About 10 members
S-3	27/02/2008	Universiti Teknikal Malaysia Melaka	Michael Joseph	About 40 students and lecturers
S-4	13/10/2008	Chapter Excom Dinner with Prof. S. S. Venkata, DLP speaker.	Zahrul Faizi	About 10 members
S-5	22/10/2008	IEEE Malaysia Section Annual Appreciation and Award Night	Zahrul Faizi	About 10 members
E-1	22/02/2008	Renewable Energy Systems and Distributed Generation	Prof Majid Al-Dabbagh (visiting professor atUKM). Venue: Universiti Kebangsaan Malaysia	Educational (30 participants)
E-2	13/03/2008	Distributed Generation	Prof Majid Al-Dabbagh (visiting professor atUKM). Venue: Universiti Putra Malaysia	Educational (30 participants)
E-3	21/12/2008	One-day Soft-skill workshop: Stepping Forward as a leader, jointly supported by IEEE Region	Ms Kiki Ng (Ashton Management). Venue: Universiti Tenaga	Educational (30 participants)

		10 Educational Activities Board	Nasional	
T-1	16/01/2008	The Power Systems - The Awe-Inspiring Artificial Integration and the Engineers' Proud and Responsibility, jointly supported by CIGRE and CIRED Malaysia	Mr. Yoshihide Hase (Disguised Member of CIGRE), Venue; Advanced Power Solutions Training Centre	Technical (26 participants from industry and academia)
T-2	13/06/2008	Talk on Technical Consideration and Impact of Underground Cables on Power Transmission and Distribution Network	Professor Akhtar Kalam from Victoria University, South Australia. Venue: UiTM, Shah Alam	Technical (25 participants from industry and academia)
T-3	07/07 2008	Technical Talk on Lightning Power Surge and Data Line Product Solutions and Applications	Mr. Jim Harrison (President of Power Quality International). Venue: Universiti Tenaga Nasional	Technical (40 participants including student members)
T-4	01 – 03/12/2008	The 2nd International Power and Energy Conference (PECon2008), co-organised with PELS/IES/IAS	The Zone Hotel, Johor Bahru	Technical (About 300 technical papers presented in three days)
T-5	17– 18/12/2008	2 Day Workshop on Lightning Protection	Prof Chandima Gomes Venue: Universiti Putra Malaysia	Technical
P-1	26/6/2008	Professional Talk on Professional Issues of International Engineering Practice	Prof. Muhammad Harun. A. Rashid (West Florida Univ). Venue: Universiti Tenaga Nasional	Professional (40 participants)
P-2	19/09/2008	Talk on Power Plant Operation	Mr. Michael Joseph (Alstom, Malaysia). Venue: Universiti Kebangsaan Malaysia	Professional (55 participants)
P-3	26/03/2008	Professional talk on “Engineering Ethics”	Ir. M. Zain (ME-Tech Engineering). Venue: Universiti Teknikal Malaysia, Melaka	Professional (40 participants)
P-4	02/04/2008	Professional talk on “Engineering Ethics”	Ir. M. Zain (ME-Tech Engineering). Venue: Multimedia University	Professional (40 participants)
P-5	30/07/2008	Professional talk on “Engineering Ethics”	Ir. M. Zain (ME-Tech Engineering). Venue: Universiti Teknologi Mara	Professional (40 participants)
P-6	29/08/2008	Professional talk on “Engineering Ethics”	Ir. M. Zain (ME-Tech Engineering). Venue: Universiti Putra	Professional (40 participants)

			Malaysia	
P-7	13/09/2008	Professional talk on “Engineering Ethics”	Ir. M. Zain (ME-Tech Engineering). Venue: Universiti Tenaga Nasional	Professional (40 participants)

B-6-2: The IEEE Signal Processing, Malaysia (SP) has conducted two DLPs this year, each DLP speaker gave a technical talk and a short course or tutorial. Apart from that, the chapter also have a technical talk, co-sponsoring a conference and a summer school, as well as several meetings and social gathering. The list of activities conduct by SP in 2008 are as follows:

No.	Date	Title	Presenter/ Venue	Category / (Attendance)
T-1	2/1/ 2008	Special Tutorial on Fundamentals of Speech and Audio Signal Processing	Prof. Dr. Ing Walter Kellermann/ SRDC	Technical (6)
T-2	3/1/ 2008	Acoustic Signal Processing for Next Generation Multichannel Human/Machine Interfaces	Prof. Dr. Ing Walter Kellermann/ UTM KL	Technical (20)
T-3	3/1/ 2008	Tackling the Acoustic Front End for Distant-Talking Automatic Speech Recognition	Prof. Dr. Ing Walter Kellermann/ UTM KL	Technical (20)
T-4	30/6/ 2008	Challenges and Trends in Biometrics	Professor Dr. Salina Abdul Samad/ MMU Cyberjaya	Technical (13)
T-5	31/7/2008	Statistical Signal Processing and Its Applications	Professor Petar M. Djurić/ Monash University Sunway	Technical (31)
T-6	1/8/ 2008	The Particle Filtering Methodology in Signal Processing	Professor Petar M. Djurić/ MMU Cyberjaya	Technical (35)
T-7	4/11/2008	Recent Advances in Neural and Cognitive Engineering	Prof. Dr. Daniel J. Strauss/ UTM KL	Technical (8)
P-1	12 – 13/7/ 2008	Conference on Innovative Technologies in Intelligent Systems and Industrial Applications (CITISIA)	MMU Cyberjaya	Professional (90)
E-1	18 – 19/6/ 2008	Digital Signal Processing Summer School	Prof. Boualem Boashash, Prof. Maamar Bettayeb, Assoc. Prof. Dr. Karim Abedmeriam/ UTM KL	Educational (80)
A-1	1/3/2008	Administrative Meeting	UiTM Shah Alam	Administrative (6)
A-2	10/5/2008	Administrative Meeting	MMU Cyberjaya	Administrative (3)
A-3	15/12/2008	Administrative Meeting	MMU Cyberjaya	Administrative (3)
S-1	2/1/ 2008	Social Gathering	SRDC	Social (6)
S-2	3/1/ 2008	Social Gathering	UTM KL	Social (20)
S-3	30/6/ 2008	Social Gathering	MMU Cyberjaya	Social (13)

S-4	30/7/2008	DLP Welcome Dinner	Restoran Sri Melayu, KL	Social (3)
S-5	31/7/ 2008	Social Gathering	Monash University Sunway	Social (31)
S-6	1/8/ 2008	Social Gathering	MMU Cyberjaya	Social (35)
S-7	4/11/2008	Social Gathering	UTM KL	Social (8)

B-6-3: The IEEE Instrumentation and Measurement, Malaysia (IM) organised 4 technical activities, 1 membership drive and 4 administrative activities. The highlight of all is that during their first membership drive they have successfully recruited 31 new IEEE members. Summary of the activities conducted in 2008:

No.	Date	Title	Presenter/ Venue	Category / (Attendance)
T-1	09/01/2008	Industrial-Academic Research Collaboration on Signal Processing, Control and Communications Seminar	Dr. Mazlan Abbas, Dr. Kuang Ye Chow, Dr. Royan Ong, Dr. Edwin Tan, Mr. Ang Kok Siong, Mr. Shawn Yeo and Mr. Eruan Abdul Razak / Monash University, Bandar Sunway	Technical (36)
T-2	09/04/2008	Advances in Lock-in Photothermal Sensing	Dr. Khine Nyunt / Monash University, Bandar Sunway	Technical (21)
T-3	11/11/2008	Terminal Sliding Mode Control	Prof. Man Zhihong / Monash University, Bandar Sunway	Technical (23)
T-4	14/11/2008	Innovative Image Processing Solution by Lyrtech	Mr. Benoit Thériault / Monash University, Bandar Sunway	Technical (15)
A-1	21/03/2008	Administrative meeting		Administrative (5)
A-2	16/05/2008	Administrative meeting		Administrative (5)
A-3	18/07/2008	Administrative meeting		Administrative (5)
A-4	19/09/2008	Administrative meeting		Administrative (5)

B-6-4: The IEEE Control System Society, Malaysia (CSS) was officially formed during the IEEE Malaysia Chapter 2008 AGM. One major event of the society this year is Technical Co-Sponsoring the 2<sup>nd</sup> International Conference on Control, Instrumentation and Mechatronic Engineering (CIM2009) which was organised by the Faculty of Electrical Engineering, UTM Skudai.

B-6-5: The IEEE Education Society, Malaysia (EduSoc) organised one administrative meeting and two education activities as follows:

No.	Date	Title	Presenter/ Venue	Category / (Attendance)
A-1	29/03/2008	Administrative meeting		Administrative

				(5)
E-1	25/09/2008	Training: Teacher in Service Program 2008: Introduction of Engineering and Robotics to Secondary School	Dr. Riza Muhida Faculty of Electrical Engineering, International Islamic University, Kuala Lumpur, Malaysia	Educational (25)
E-2	12/11/2008	Training: Teacher in Service Program 2008: Introduction of Engineering and Robotics to Secondary School	Dr. Riza Muhida Faculty of Electrical Engineering, International Islamic University, Kuala Lumpur, Malaysia	Educational (10)

B-6-6: The IEEE Women In Society, Malaysia (WIE) organised 2 educational activities. Summary of activities conducted by WIE in 2008 are as follows:

No.	Date	Title	Presenter/ Venue	Category / (Attendance)
E-1	22/06/2008	Program SMART Learning 2008	Prof. Dr. Aziz Sahak Dewan Kuliah B, Kompleks S&T, UiTM Shah Alam	Educational (100)
E-2	12/11/2008	Training: Teacher in Service Program 2008: Introduction of Engineering and Robotics to Secondary School	Dr. Riza Muhida Faculty of Electrical Engineering, International Islamic University, Kuala Lumpur, Malaysia	Educational (10)

B-6-7: Robotic and Automation, Malaysia (RAS) – The chapter has been very active in organizing 6 technical meetings, 5 educational trainings, and 7 professional talks and 5 social gathering were conducted. The summary of activities held and supported by RAS in 2008 are as follows:-.

No.	Date	Title	Presenter/ Venue	Category / (Attendance)
T-1	12/03/2008	Introduction to Optimization Techniques	Assoc. Prof. S.G. Ponnambalam Monash University	Technical (10)
T-2	19/03/2008	Genetic Algorithm	Assoc. Prof. S.G. Ponnambalam Monash University	Technical (10)
T-3	26/03/2008	Simulated annealing	Assoc. Prof. S.G. Ponnambalam Monash University	Technical (10)
T-4	3/04/2008	Ant colony optimization	Assoc. Prof. S.G. Ponnambalam Monash University	Technical (10)
T-5	8/04/2008	Particle swarm optimization	Assoc. Prof. S.G. Ponnambalam Monash University	Technical (10)
T-6	25/06/2008	LabVIEW hands-on workshop for academics	James Lai Monash University	Technical (9)

T-7	26/06/2008	LabVIEW professional workshop for industrialists	James Lai Monash University	Technical (13)
T-8	26/06/2008	Introductory Workshop to 3D modeling via Autodesk Inventor	Akram Monash University	Technical (10)
T-9	23/07/2008	Tracking of Multiple Biological Cell Motility using enhanced image processing algorithm	Khoo Boon How Monash University	Technical (7)
T-10	21/07/2008	Wireless Inertial System for Sports (WISS)	Darwin Gouwanda Monash University	Technical (15)
T-11	21/07/2008	Multi-sensor system for simulating humanoid design	A.G. Gopal Monash University	Technical (9)
T-12	29/08/2008	Bio-Inspired Robotics Devices (BIRD) and Bio-Signal Processing	Dr. Arosha Senanayake & Dr. Loo Chu Kiong Multimedia University	Technical (15)
T-13	30/09/2008	Emulator for Human Motion Control Imagery and Perception in Sports	Darwin Gouwanda Monash University	Technical (10)
T-14	10/10/2008	Integer based motion tracking	Khoo Boon How Monash University	Technical (20)
T-15	13/11/2008	A study of foraging behavior of swarm robots using swarm intelligence	Yogeswaran Mohan Monash University	Technical (12)
T-16	18/11/2008	IEEE Region10 EAC sponsored short course on Application of Artificial Intelligence techniques in Robotics and Automation for Higher Degree Research students	Dr. V. Ganapathy Dr. Tan Ching Seong Assoc. Prof. S.G. Ponnambalam	Technical (40)

B-6-8: Joint Chapter Industrial Electronics (IE), Industrial Applications (IA) and Power Electronics (PELS) - In year 2008, joint chapter PELS/IA/IE has organized 14 Technical, 2 Professional, 5 Educational, and 2 Membership development activities. The second IEEE Power and Energy Conference (PECon 2008) was the major event held at Johor Bahru, Malaysia. The conference was attended by 300 participants who in total presented 300 technical papers. The acceptance rate for the conference was approximately 60%, with 520 abstract submissions in total. The conference is now elevated to international standing with over 70% overseas participants from 40 countries. In conjunction with the conference, three tutorial, two keynote and two plenary sessions were arranged; besides exhibitions held by power and energy related companies. The joint chapter is also proud to report 36 activities in IEEE L31 for year 2008 and has increased its membership from 30 (2006) to 65 (2008). Two major new initiatives was created in 2008; a) arranging a meeting in Indonesia and b) sending a representatives to Industrial Electronics Society (IES) Chapter Chairs meeting in Orlando, USA.

In 2009 the joint chapter plans to expand its Industrial Electronics activities by becoming technical co-sponsor to a number of third-party conference; whilst planning for new conference initiatives apart from maintaining existing activities as regular meetings. The list of activities conducted in 2008 as follows:-

No.	Date	Title	Presenter/ Venue	Category / (Attendance-IEEE, Guest)
E-1	05/07/2008	Greatness through Leadership	Mr. Rohn Rajan UPM, Serdang	Educational (30,0)
E-2	08/27/2008	Workshop on Schematic Design	Mr. Nik Din	Educational

		and Simulation using P-Spice	KLIUC, Serdang	(5,10)
E-3	30/11/2008	Design of Practical Buck Regulator	Assoc. Prof. Taufik Zon Hotel, Johor Bahru	Educational (22,0)
E-4	30/11/2008	Power System Principle Applied in Protection Practice	Prof. Akhtar Kalam Zon Hotel, Johor Bahru	Educational (25,0)
E-5	30/11/2008	Modelling and Control of Three-Phase PWM Converter	Prof. Dushan Boroyevich Zon Hotel, Johor Bahru	Educational (20,0)
T-1	25/04/2008	Discussions on Power Electronics &	Dr. Nik Rumzi Idris	Technical (5,10)
T-2	07/12/2008	Project Exhibitions	NA MMU, Cyberjaya	Technical (50,15)
T-3	07/12/2008	Are We Prepared for the Energy Crisis 2050s?	Prof. Norman Mariun MMU, Cyberjaya	Technical (50,15)
T-4	07/12/2008	Advances in Power Electronics and Its Challenges in New Emerging Technology	Mustafar Kamal Hamzah MMU, Cyberjaya	Technical (50,15)
T-5	07/12/2008	Conference on Innovative Technologies in Intelligent Systems & Industrial Applications	NA MMU, Cyberjaya	Technical (50,15)
T-6	08/27/2008	Electrical Drives: An Application of Power Electronics	Dr. Nik Rumzi Nik Idris MMU, Cyberjaya	Technical (20,80)
T-7	23/10/2008	From Power Engineering to Power Electronics and The New Emerging Technology	Mustafar Kamal Hamzah	Technical (10,90)
T-8	28/11/2008	Building Block Integration in Power Electronics	Prof. Dushan Boroyevich UiTM, Shah Alam	Technical (20,25)
T-9	01/12/2008	Electricity Distribution in The DE – Regulated Austrian Power Industry	Prof. Akhtar Kalam Zon Hotel, Johor Bahru	Technical (300,0)
T-10	01/12/2008	Future Electronics Power Distribution System	Prof. Dushan Boroyevich Zon Hotel, Johor Bahru	Technical (300,0)
T-11	01/12/2008 to 03/12/2008	Second IEEE International Power and Energy Conference	NA Zon Hotel, Johor Bahru	Technical (300,0)
T-12	01/12/2008 to 03/12/2008	Exhibition	NA Zon Hotel, Johor Bahru	Technical (300,0)
T-13	01/12/2008	The Role Power Electronics in Future Energy System and Green Industrialization	Prof. Malik Elbuluk Zon Hotel, Johor Bahru	Technical (300,0)
T-14	01/12/2008	Effectiveness of Zonal Congestion Management in the European Electricity Market	Prof. J. W. Bialek Zon Hotel, Johor Bahru	Technical (300,0)
P-1	28/11/2008	M.Sc Industrial Electronics	Mustafar Kamal Hamzah	Professional (5,5)
P-2	28/11/2008	Power Electronics Research at UiTM	Mustafar Kamal Hamzah	Professional (5,5)

B-6-9: Components, Packaging, and Manufacturing Technology (CPMT) Society, Malaysia – In year 2008, the major highlight for CPMT Chapter is the International Electronics

Manufacturing Technology (IEMT 2008) Conference which was held on November 4<sup>th</sup>-6<sup>th</sup>, 2008, at Parkroyal Hotel, Penang. A core team member group, which consisted of 16 volunteers from the industry and universities, was formed to organise the conference. This 3-day event was well attended by professionals from industries and academic institutions. Through a careful one-year planning, the conference was very successful in attracting total of 112 papers, 12 poster papers, 6 keynote addresses and 4 short courses. In all, over 300 people attended the event. CMT – had the following activities organised in 2008.

No.	Date	Title	Presenter/ Venue	Category / (Attendance)
E-1	13 Aug, 2008	3D Semiconductor Packaging and System Integration	Shutesh Krishnan	Educational
E-2	15 Oct, 2008	Microelectronic Package Design and Assembly Technology	Shutesh Krishnan	Educational
S-1	4 Nov, 2008	Thermal Management of IC Packages	Prof. Dr. Kankanhalli Seetharamu	Seminar
S-2	4 Nov, 2008	Through Silicon Vias And Microvias For High Density Interconnect in Advanced Packaging	Prof. Dr. Ricky Lee	Seminar
S-3	4 Nov, 2008	3D Packaging Technology And Advances	Shimamoto Haruo	Seminar
S-4	4 Nov, 2008	Wafer Level Chip Scale Packaging	Luu Nguyen	Seminar
T-1	5 Nov, 2008	Engineering in the Era of Consumer Driven Markets	Dr. Bill Chen	Technical
T-2	5 Nov, 2008	Interdependency Of Packaging, Reliability And Failure Analysis In Solving Future Packaging Challenge	Dr. Raj Master	Technical
T-3	5 Nov, 2008	Future Trends in Reliability Technology in Electronics	Dr. Mervi Poulasto-Kröckel	Technical
T-4	5 Nov, 2008	Technology Trends for Heterogeneous Integration	Dr. Rolf Aschenbrenner	Technical
T-5	6 Nov, 2008	A Vision Of The Future Of Packaging & Assembly Technology	Dr. Karl Johnson	Technical
T-6	6 Nov, 2008	Opportunities in Microelectronic Packaging, Challenges & the Need For Innovation	YK Sow	Technical

B-6-10:IEEE Circuits and Systems Society, Malaysia (CAS) - The chapter completed its fifth year of inception in December 2008. In year 2008, twenty-one activities were completed. It was another successful year for the chapter. They were given the honor to host the APCCAS 2010. They were also requested by ATS's committees to give a presentation for bidding ATS 2012 during ATS 2008 in Sapporo Japan, but were unable to give the go for bidding due to no budget. The chapter received special funding for US\$500 from CASS headquarters to conduct technical activities and USD\$3000 for membership developments in 2008. Throughout the year, the Executive Committee Members met for 4 times. All in all, 7 technical meetings, 2 educational trainings/tutorials, 3 professional talks and 5 social gathering were conducted. The summary of activities held and supported by CAS in 2008 are as follows:-

No.	Date	Title	Presenter/ Venue	Category / (Attendance)
E-1	25/6/2008	Multichip Module Packaging and Its Impact on Architecture	Prof Hubert Harrer UPM	Educational (15)
E-2	18/9/2008	Flexible VLSI Architectures for UWB, MIMO and Cognitive Radio	Prof G.Sobelam	Educational (32)
P-1	5/7/2008	Softskill Greatness through Level 5 Leadership Principles	Mr Rohn Rajan/UPM	Professional (44)
P-2	18/5/2008	Biding for APCCAS2010	Dr Fakhrul Zaman/USA	Professional (5)
T-1	24/6/2008	Circuit and System Implementation of An Implantable Biomedical Device for Micro-stimulation and Neural Sensing	Prof. C.C. Wang/ UPM	Technical (20)
T-2	25/6/2008	Digital Microfluidics: Connecting Biochemistry to Computer-Aided Design	Prof Hubert Harrer/ UPM	Technical (17)
T-3	26/6/2008	Multichip Module Packaging and Its Impact on Architecture	Prof Hubert Harrer/ USM	Technical (35)
T-4	22/7/2008	Simplified Fast Motion Estimation: Simplified and Unified Multi-Hexagon Search (SUMH) with Context Adaptive Lagrange Multiplier (CALM)	Prof Nam Lim/UPM	Technical (45)
T-5	16/9/2008	Flexible VLSI Architectures for UWB, MIMO and Cognitive Radio	Prof G.Sobelam/ UTM	Technical (84)
T-6	18/9/2008	Flexible VLSI Architectures for UWB, MIMO and Cognitive Radio	Prof G.Sobelam /HRDC	Technical (32)
T-7	3/7/2008	Radio Technology for Nanometer CMOS	Prof Mohammed Ismail /UPM	Technical (41)

B-6-11: Joint Chapter Antenna & Propagation (AP), Electron Devices (EDS) and Microwave Theory and Techniques (MTT), Penang.

In this third year of existence, the chapter re-structured to include the Solid-State Circuits Society (SSCS) and excluded the Antenna & Propagation Society (APS). The reason for this change was to cater for the interests of the engineering community around the Free Industrial Zone in Penang, where the predominant electronics industries are in the semiconductor and electronics R&D / manufacturing. Chapter activities this year continued to focus on technical lectures and presentations from experts in the industry as well as academia. IEEE EDS/MTTS/SSCS Joint Chapter conducted activities as follows:-

The Joint Chapter had seven talks for the year 2008.

- i. The first was by Dr. Kean C. Aw, from University of Aucland, New Zealand. His talk was titled 'Organic Field-Effect Transistors (OFETS)' on January 3, 2008.

- ii. Mr. SH Lau, Xradia Inc., California, USA presented his talk on ‘Non invasive 3D characterization of nano materials to nano devices with a novel multiscale X-ray CT’ on 4<sup>th</sup> February 2008.
- iii. A talk also held on June 24, 2008 titles ‘RF Application of PIN diodes’ given by Mr. Lim Chin Leong, Avago Technologies, Penang Malaysia.
- iv. Mr. Prakash Chacko, Motorola R&D Penang presented his talk on ‘High Efficiency Broadband Parallel-Circuit Class E RF Power Amplifier with Reactance Compensation Technique’. Prakash’s talk focused on the Class E amplifier which offers 100% high efficiency for an ideal case. This seminar introduces a first practical implementation of a novel broadband Class E power amplifier design combining a parallel-circuit load network with reactance compensation technique.
- v. A talk was also held on July 31, 2008 – ‘Recent Advancement in Embedded Capacitors in FPGA and ASIC Device Packages’ given by Dr. Hong Shi, Altera Corporation.
- vi. ‘RF Transceiver System Design in nanometer CMOS’ – DVD Replay of ISSCC 2007 Short Course (Sponsored by SSCS, Solid-State Circuit Society) given by Matt Miller, Freescale Technologies on August 5, 2008. This was the first of two DVD replays of a short course presented at the 2007 ISSCC in San Francisco.
- vii. ‘RF Transceiver System Design in nanometer CMOS’ – DVD Replay of ISSCC 2007 Short Course given by Bram Nauta, University of Twente, Enschede, Netherlands on 30<sup>th</sup> October 2008.

B-6-12: GOLD activities in year 2008 are as follows:

No.	Date	Title	Presenter/ Venue	Category / (Attendance)
T-1	11/04/2008	LaTeX by example course.	UNITEN.	Technical (20)
E-1	28/07/2008	RA seminar	UNITEN	Educational (20)
T-2	29/10/2008	Hands-on workshop on Monte Carlo N-Particle Code (MCNP) for Medical Imaging	Dr. M. Iqbal Saripan UPM	Technical (15)
P-1	05/10/2008	Lunch meet with Boston GOLD		Professional (8)

B-6-13: IEEE Computer Society (CS), Malaysia - Despite the fact that the elected Executive Committee has only about 9 months to plan, organize and carry out activities for the year, the IEEE Computer Society-Malaysia Section (IEEE-CS Malaysia) has had another busy year organizing numerous activities for the benefit of members and professionals and students. A total of 32 activities were organized for the year 2008 and in fact, this is the highest number of activities organized by IEEE-CS Malaysia so far.

This year's activities were mainly conferences where the IEEE-CS Malaysia was either a co-sponsor or a technical sponsor of these conferences. The year also saw the IEEE-CS Malaysia successfully organizing two technical lectures by international subject matter experts which was made possible via the Distinguish Visitor Program (DVP). The last activity of the year saw IEEE-CS Malaysia collaborating with Freescale Semiconductor Malaysia (Freescale Malaysia) to organize the Smart Car Competition 2008. The competition was held for the first time in Malaysia and saw 29 teams from 11 local universities taking part in the competition which was made possible through the sponsorship and guidance of Freescale Malaysia.

Several conferences organized in 2008 will contribute some income which shall be utilized for organizing next year's activities. All in all, 7 conferences were organized, 8 educational / technical trainings were conducted and 3 professional programs were attended. As for the Smart Car Competition 2008, it has been categorized as a special

educational program. The chapter will continue to become co-sponsor for several conferences in 2009 and shall continue in providing opportunity for professional education and training to members. Throughout the year, the Executive Committee Members met for four times on the following dates: 29/3/2008, 14/6/2008, 9/8/2008 and 8/11/2008.

The following are list of technical, educational talks and professional programs organised by the chapter.

No.	Date	Title	Speaker/ Organizer	Attendance
1	07/14/2008	Microsoft Visual Basic Advanced Programming	Mr Ang Moon Thiak	150
2	07/28/2008	Microsoft Visual Basic Advanced Programming	Mr Ang Moon Thiak	150
3	08/26/2008	<b>DVP Talk</b> : Data Analytic Integration & Business Intelligence	Dr Mukesh Mohania	30
4	08/27/2008	<b>DVP Talk</b> : Ubiquitous information access in integrated healthcare	Dr Thanos Demiris	30
5	10/13/2008	Microsoft Visual Basic Advanced Programming	Mr Ang Moon Thiak	150
6	10/20/2008	Microsoft Visual Basic Advanced Programming	Mr Ang Moon Thiak	150
7	11/21/2008	Network Simulation Using NS2	Dr Osman Ghazali	90
8	11/22/2008	Network Simulation Using OMNET++	Mr. Amran Ahmad	90
9	05/19/2008 - 05/20/2008	Global Forum on Access and Connectivity and Innovative Funding Mechanisms	United Nations Global Alliance for ICT and Development (UN GAID)	2
10	06/30/2008	Workshop on Strategic Thrust 4 (Promote Creativity And Innovativeness Via R&D To Harness Competitiveness) & Strategic Thrust 7 (Optimize Resources By Encouraging Smart Partnerships With Relevant Organizations)	Ministry of Science, Technology and Innovation (MOSTI)	3

Besides that, The Smart Car Competition, which is considered as a 'Special Educational Program', was initiated in the second quarter of the year and a total of 8 project meetings were held throughout the period. Summary of activities under the Smart Car Competition is as per the following table

No.	Date	Activity Title	Venue	Total Attendance
1	08/02/2008	Smart Car Competition Workshop	Freescale Malaysia, Petaling Jaya	75
2	12/12/2008 - 12/13/2008	Smart Car Competition 2008	Multipurpose Hall SIRIM, Shah Alam	200

B-6-14: Joint Chapter IEEE AP/MTT/EMC, Malaysia - The year 2008 has been another busy year for the chapter. We successfully organized three major events. The first is 2008 IEEE International RF and Microwave Conference (RFM 2008), 2-4 December at The Summit Hotel, Subang USJ. This is our third series of highly successful RFM international conference, first held in 2004, followed by 2006. A Tutorial was held on 2 Dec, Plenary Session on 3 Dec, Parallel Technical Sessions and Industrial Exhibitions on 3-4 Dec, and Conference Dinner and Officiation on 3 Dec. Best Paper Awards were presented during the Conference Dinner. Over 250 papers were received, however, 187 papers from 15 countries i.e. Malaysia, Singapore, Korea, Taiwan, Japan, France, United Kingdom, Iran, India, China, Armenia, Australia, Germany, Canada and Indonesia were presented. RFM 2008 received Technical Co-Sponsorships from IEEE APS and IEEE MTT, the firsts with RFM. Awards and appreciations were also given out by the Chapter to its long serving officers and executive officers, respectively. Secondly, the chapter has Technically Sponsored the 2008 Regional Student Conference on Research and Development (SCoReD 2008), 26-27 November. It was held in Universiti Teknologi Malaysia (UTM), Skudai, Johor. SCoReD 2008 received a record of close to 300 full papers. However, 200+ papers were accepted for presentation. Best Paper Awards and Best Poster Paper Awards were presented. Thirdly, the Chapter has successfully organized the IEEE Malaysia Section Annual Award and Appreciation Night 2008, held on 22 October at The Summit Hotel, Subang USJ. The Guest of Honor was Prof Dr Mohd Nasir Taib, IEEE Malaysia Section Chair. Attendees were most Chapters, few Student Branches, Faculty of Electrical Engineering UTM, Faculty of Industrial Engineering UNISEL, Faculty of Electronics and Computer Engineering UTeM, Faculty of Electrical Engineering UiTM, individuals, MIMOS Bhd., Advanced Power Solutions (APS) Sdn. Bhd., TLDM and Freescale. Awards and/or Appreciations were given out by IEEE, Malaysia Section, Chapters and Student Branch. In addition to these major events, a series of Technical Talks, Short Courses, Professional Talks, Educational Talks, membership (including Senior Membership) drives, Distinguished Microwave Lectures and Distinguished Lecturer Programs, Industrial visits, and social gatherings were held throughout the year. A number was co-organized with the UTM SB and Faculty of Electrical Engineering, UTM. Most were well attended by participants.

The following are the membership development programs organised by AP/MTT/EMC:

No	Date	Venue	Speaker	No of attendees
1	8 January *	P06 FKE UTM	Prof Dr Mazlina Esa	10
2	17 January*	P06 FKE UTM	Prof Dr Mazlina Esa	18
3	19 February*	P03 FKE UTM	Ms Emine Gokce Aydal, R8 Student Activities Coordinator Prof Dr Mazlina Esa	58
4	18 March*	P03 FKE UTM	Prof Dr Mazlina Esa	52
5	4 April	P03 FKE UTM	Prof Dr Mazlina Esa	30
6	13 June	P03 FKE UTM	Prof Dr Mazlina Esa	18
7	8 August*	P06 FKE UTM	Prof Dr Mazlina Esa	20
8	10 August	P06 FKE UTM	Prof Dr Mazlina Esa	10
9	12 August*	P06 FKE UTM	Prof Dr Mazlina Esa	15

10	14 August	P06 FKE UTM	Prof Dr Mazlina Esa	12
11	9 September	P02 FKE UTM	Prof Dr Mazlina Esa	50
12	16 September	P02 FKE UTM	Prof Dr Mazlina Esa	52
13	21 October	P02 FKE UTM	Prof Dr Mazlina Esa	54
14	20 November	P07 FKE UTM	Prof Dr Mazlina Esa	25

The following are list of technical, educational talks and professional programs organised by the chapter:

No.	Date	Title	Presenter/ Venue	Category / (Attendance)
P-1	22/02/2008	Do's and Dont's as Graduating Engineers	Prof Dr Mazlina Esa P02 317 FKE UTM	Professional (54)
P-2	4/04/2008	Making Initiative and Decisions	Adnan Shahid Khan P02 317 FKE UTM	Professional (40)
P-3	13/03/2008	Benefits of Professional Activities	Prof Dr Mazlina Esa P02 317 FKE UTM	Professional (50)
P-4	06/08/2008	Professional and Personal Development as Marketing and Business Development	Prof Vijay K Arora	Professional (63)
P-5	26/11/2008	IEEE Malaysia Section Forum	Prof Dr Zaiki Awang, UiTM and IEEE Malaysia Section Vice Chair Prof Dr Mazlina Esa, UTM IEEE AP/MTT/EMC Chair IEEE UTM SB Counselor	Professional (20)
P-6	29/07/2008	Do's and Dont's as Graduating Engineers	Prof Dr Mazlina Esa P02 317 FKE UTM	Professional (55)
P-7	14/10/2008	Benefits of Professional Activities	Prof Dr Mazlina Esa P02 317 FKE UTM	Professional (52)
T-1	14/01/2008	Antenna Theory: Simple Wire Models for 2D and 3D Antennas	Dr Alireza Kazemipour, P03 418 FKE UTM	Technical (20)
T-2	15/01/2008	RF Quantities and Measurements	Dr Alireza Kazemipour, P03 418 FKE UTM	Technical (23)
T-3	16/01/2008	RF Calculable Standards	Dr Alireza Kazemipour, P03 418 FKE UTM	Technical (25)
T-4	29/01/2008	APS DLP: Microwave Antennas for Medical Applications	Prof Dr Koichi Ito (Chiba Univ), P03 FKE UTM	Technical/DLP (80)
T-5	29/01/2008	EDS DLP: III-V Devices for Millimetre Wave Applications	Prof Dr Edward Chang (National Chiao Tung Univ, Taiwan), FKE UiTM	Technical/DLP (35)
T-6	30/01/2008	APS DLP: Phantoms for Evaluation of Interactions between Antennas and the Human Body	Prof Dr Koichi Ito (Chiba Univ), FKE UiTM	Technical/DLP (30)
T-7	19/02/2008	Model Driven Development	Ms Emine Gokce Aydal (R8 SAC), Univ of York	Technical (56)
T-8	25/03/2008	Design Procedure, Calibration and	Dr Alireza Kazemipour,	Technical (15)

		Testing for Anechoic Chamber	P03 418 FKE UTM	
T-9	24/04/2008	Wideband Antennas, New Concepts and Optimization	Dr Alireza Kazemipour, P03 418 FKE UTM	Technical (18)
T-10	30/04/2008	Antenna: Theory, Mathematics and Simulation	Dr Alireza Kazemipour, P03 418 FKE UTM	Technical (20)
T-11	11/06/2008	Electromagnetic Concept and Applications – Part 1	Assoc Prof Dr Norazan Mohd Kassim, P03 418 FKE UTM	Technical (50)
T-12	03/07/2008	Electromagnetic Concept and Applications – Part 2	Assoc Prof Dr Norazan Mohd Kassim, P03 418 FKE UTM	Technical (40)
T-13	17/07/2008	Transmission Line Fundamentals	Prof Dr Mazlina Esa	Technical (60)
T-14	28/08/2008	(1) Trends of Research in Microwave Engineering (2) Research Activities of Microwave Technology Centre, UiTM	Prof Dr Zaiki Awang, UiTM	Technical (20)
T-15	18/09/2008	CAS DLP: Flexible VLSI Architectures for UWB, MIMO and Cognitive Radio	Assoc Prof Dr Gerald E Sobelman (Univ of Minnesota), P03 418 FKE UTM	Technical/DLP (85)
T-16	26-27/11/2008	2008 Regional Student Conference on Research and Development	General Chair: Prof Dr Mazlina Esa Block P16, FKE UTM	Technical (300)
T-17	27/11/2008	Current Research in Information Theory: Lancaster University Experience	Prof Dr Bahram Honary (Lancaster Univ.), UTeM	Technical (25)
T-18	2-4/12/2008	2008 IEEE International RF and Microwave Conference	General Chair: Prof Dr Zaiki Awang, UiTM	Technical (200)
T-19	02/12/2008	Tutorial; Electromagnetic Compatibility, Human Immunity and Ecology	Dr Alireza Kazemipour	Technical (25)
T-20	03/12/2008	Keynote 1; Miniaturization of Ultra Wideband Antennas	Prof Dr Zhining Chen (I <sup>2</sup> R, Singapore), FIEEE	Technical (50)
T-21	03/12/2008	Keynote 2; Microwave Antennas for Medical Applications	Prof Dr Koichi Ito (Chiba Univ., Japan), FIEEE	Technical (50)
T-22	03/12/2008	Invited Paper; The Future of Wireless Broadband	Gail Heck-Sweeney (Agilent Technologies, China)	Technical (50)
T-23	04/03/2008	ISC ISAP meeting during IWAT 2008, Chiba, Japan	Prof Dr Mazlina Esa	Technical (30)
T-24	28/10/2008	ISC ISAP meeting during ISAP 2008, Taipei, Taiwan	Prof Dr Mazlina Esa	Technical (30)
T-25	28/10/2008	R10 APS CCM meeting during ISAP 2008, Teipei, Taiwan	Prof Dr Mazlina Esa	Technical (25)
T-26	17/12/2008	ISC APMC meeting during APMC 2008, Hong Kong	Prof Dr Mazlina Esa	Technical (30)
T-27	19/12/2008	R10 MTTTS CCM meeting during APMC 2008, Hong Kong	Prof Dr Mazlina Esa	Technical (28)
T-28	16/04/2008	Electromagnetic Anechoic Chamber: Intro and Design Parameters	Dr Alireza Kazemipour, UTHM	Technical (16)

E-1	02/08/2008	IEEE Malaysia – Freescale Smartcar Competition Workshop	Prof Dr Mazlina Esa	Educational (8)
E-2	27-30/10/2008	Chapter Exhibition at ISAP 2008, Taipei, Taiwan	Prof Dr Mazlina Esa	Educational
E-3	01/12/2008	Industrial Visit to Telekom Exchange and Tower, Kuala Lumpur	Suhaila Subahir, UNISEL Prof Dr Mazlina Esa, UTM	Educational (45)
E-4	3-4/12/2008	Chapter Exhibition at RFM 2008, Subang Jaya	Chapter Executives	Educational
S-01	29/01/2008	Luncheon meeting and General Discussion with DLP	Prof Koichi Ito	Social (8)
S-02	30/01/2008	Luncheon meeting and General Discussion with DLP	Prof Koichi Ito	Social (10)
S-03	30/01/2008	Dinner meeting and General Discussion with DLP	Prof Koichi Ito	Social (6)
S-04	31/01/2008	Dinner meeting and General Discussion with DLP	Prof Koichi Ito	Social (4)
S-05	03/12/2008	Dinner meeting and General Discussion with DLP	Prof Zhining Chen	Social (10)
A-1	24/01/2008	AP/MTT/EMC Malaysia - AGM and Annual Report Preparation	Prof Dr Mazlina Esa	Administrative (4)
A-2	24/01/2008	AP/MTT/EMC Malaysia - Financial Report Preparation	Prof Dr Mazlina Esa	Administrative (3)
A-3	03/01/2008	AP/MTT/EMC Malaysia Executive Meeting 1/2008	Prof Dr Mazlina Esa	Administrative (8)
A-4	12/04/2008	AP/MTT/EMC Malaysia Executive Meeting 2/2008	Prof Dr Mazlina Esa	Administrative (10)
A-5	12/07/2008	AP/MTT/EMC Malaysia Executive Meeting 3/2008	Prof Dr Mazlina Esa	Administrative (11)
A-6	18/10/2008	AP/MTT/EMC Malaysia Executive Meeting 4/2008	Prof Dr Mazlina Esa	Administrative (12)
A-7	04/12/2008	AP/MTT/EMC Malaysia Executive Meeting 5/2008	Prof Dr Mazlina Esa	Administrative (9)

### B.7 E-mail and Newsletter Activities, Home Page

- Contacts with section members including the number of Newsletter issues, email Newsletters, regular updates of Section, Chapters and Student Branches Web Page

Currently, the IEEE Malaysia Section has 2 addresses:

1. <http://www.ieemalaysia.org>
2. <http://ewh.ieee.org/r10/malaysia/>

Both addresses have the same content. Address 1 is to support the section activity such as news, promotion, conference etc while Address 2 is a space provided by IEEE to support IEEE Malaysia Section. The maximum space provided is 3GB with a bandwidth of 30GB. It has an unlimited sub-domain name, database and email etc. From the IEEE Malaysia Section website all information regarding Malaysia Section can be downloaded such as the Executive Committee, chapters, student branches, section activities, IEEE membership, award, volunteer resources, workshop and training, news letter and etc. Newsletter can also be shown on the website for easy downloading.

The Malaysia Section and Chapters may be reached via the following addresses:-

Computer Society	<a href="http://www.cs.ieeemalaysia.org">www.cs.ieeemalaysia.org</a>
Communication Society/VT	<a href="http://www.comsoc/vt.ieeemalaysia.org">www.comsoc/vt.ieeemalaysia.org</a>
Power Engineering Society	<a href="http://www.ewh.ieee.org/soc/pes/malaysia/">http://www.ewh.ieee.org/soc/pes/malaysia/</a>
Components, Packaging & Manufacturing Technologies Society	<a href="http://www.cpmt.ieeemalaysia.org">www.cpmt.ieeemalaysia.org</a>
Antennas & Propagation / Electromagnetic Compatibility / Microwave Theory & Techniques Joint Chapter	<a href="http://www.aps.ieeemalaysia.org">www.aps.ieeemalaysia.org</a>
Electronic Devices Society	<a href="http://www.eds.ieeemalaysia.org">www.eds.ieeemalaysia.org</a>
Signal Processing Society	<a href="http://www.sp.ieeemalaysia.org">www.sp.ieeemalaysia.org</a>
Circuits and System Society	<a href="http://www.cas.ieeemalaysia.org">www.cas.ieeemalaysia.org</a>
Power Electronics / Industrial Applications/Industrial Electronic Joint Chapter	<a href="http://ewh.ieee.org/r10/malaysia/ie_ia_pel/">http://ewh.ieee.org/r10/malaysia/ie_ia_pel/</a>
Instrumentation and Measurement Society	<a href="http://www.ims.ieeemalaysia.org">www.ims.ieeemalaysia.org</a>
Robotics and Automation Society	<a href="http://www.ras.ieeemalaysia.org">www.ras.ieeemalaysia.org</a>
Electron Devices / Microwave Theory and Techniques / Electromagnetic Compatibility Joint Chapter in Penang	<a href="http://www.eds-penang.ieeemalaysia.org">www.eds-penang.ieeemalaysia.org</a>
Education Society	<a href="http://www.edsoc.ieeemalaysia.org">www.edsoc.ieeemalaysia.org</a>
Control System Society	<a href="http://groups.yahoo.com/group/css_member/">http://groups.yahoo.com/group/css_member/</a>
Universiti Putra Malaysia Student Branch	<a href="http://www.upm.ieeemalaysia.org">www.upm.ieeemalaysia.org</a>
Universiti Kebangsaan Malaysia Student Branch	<a href="http://www.ukm.ieeemalaysia.org">www.ukm.ieeemalaysia.org</a>
Universiti Teknologi Malaysia Student Branch	<a href="http://www.utm.ieeemalaysia.org">www.utm.ieeemalaysia.org</a>
Universiti Teknologi Mara Student Branch	<a href="http://www.uitm.ieeemalaysia.org">www.uitm.ieeemalaysia.org</a>
Universiti Teknologi Petronas Student Branch	<a href="http://www.utp.ieeemalaysia.org">www.utp.ieeemalaysia.org</a>
International Islamic University Student Branch	<a href="http://www.iium.ieeemalaysia.org">www.iium.ieeemalaysia.org</a>
Multimedia University Student Branch	<a href="http://www.mmu.ieeemalaysia.org">www.mmu.ieeemalaysia.org</a>
Universiti Malaysia Sabah Student Branch	<a href="http://www.ums.ieeemalaysia.org">www.ums.ieeemalaysia.org</a>
Monash University	<a href="http://www.ieee-monash.org/sb/">http://www.ieee-monash.org/sb/</a>
GOLD	<a href="http://www.gold.ieeemalaysia.org">www.gold.ieeemalaysia.org</a>
Newsletter and Magazine	<a href="http://www.letter.ieeemalaysia.org">www.letter.ieeemalaysia.org</a>
LEOS	<a href="http://www.leos.ieeemalaysia.org">www.leos.ieeemalaysia.org</a>

## PART C - OTHERS

### C-1: Relationship with Professional Bodies or Societies

- C-1-1: The Section has good relations with national professional bodies or societies. Several conferences organised by the societies either co-organised by these bodies or participated by their members.
- C-1-2: Several courses had been conducted with The Institute of Engineers, Malaysia (IEM) and given recognition of Continuing Professional Development (CPD).

**C-2: Upcoming Events**

Based on the last Ex-Comm for 2008, the following events were planned to be conducted in year 2009. However, more activities are expected to be held by the societies after the formation of the new committee. Detailed of the planning will be identified by the new committee after the annual general meeting to be held on January 10, 2009.

- i. PELS/IA/IE Joint Chapter have set a few goals and plans for next year such as:
  - To organise 2 DLPs (Distinguished Lecture Program), 1 RLP (Regional Lecture Program) and 3 NLPs (National Lecture Program).
  - To increase industry involvement in every activity for at least 30% (Number of participants from industry).
  - To expand activities particularly the 'Industrial Electronics Society' scope through third-party conferences and symposiums, amongst others; ROVISP 2009 (USM), ICEIE 2009 (uniMAP) and ISQED 2009 (SHRDC).
  - To develop new conference initiatives in 'Industrial Electronics' and 'Power Electronics and Drive'.
- ii. PES plans to organise EPSCOM 2009 (Electrical Power System Competition) on January 10, 2009. Besides that, PES also plans to have a few technical talks/visits, educational, social and professional activities.
- iii. SP plans to organise a conference in Signal Processing next year and a DLP talk by Prof. Rama Chellappa.
- iv. IM will be the co-organiser for CITISIA 2009 and also plan to have five technical talks in year 2009.
- v. GOLD plans to organise the following activities:
  - LaTeX course on February 20, 2009.
  - Lecture series from University of California at Berkeley in June 2009.
  - Technology updates on Medical Imaging in June 2009.
  - MCNP workshop series in October 2009.
  - One RA seminar in April and one bowling tournament in June 2009.
- vi. A major activity by the IEEE AP/MTT/EMC Malaysia Chapter will be the inaugural third series of conferences, IEEE International Conference on Antennas, Propagation and Systems 2009 (INAS 2009). It is planned for 1-3 Dec in Johor Bahru, with UTM as the main secretariat. Several pledges have been received from experts met during iWAT 2008, ISAP 2008 and APMC 2008. These include 2008 MTTS President, Prof Jozef Modelski, 2009 APS President, Prof Makoto Ando, and 2008 R10 Director Prof Janina. The IEEE AP/MTT/EMC Malaysia Chapter has been invited to co-organize workshops during APMC 2009 with the IEEE MTTS Singapore Chapter, in collaboration with IEEE MTTS Transnational Committee. APMC 2009 will be held in Singapore, a week after INAS 2009. In addition, activities that benefit chapter members will be co-organized with sister Singapore, Indonesia and Thailand Chapters. Plans for 2009 include visits to neighbour chapters.
- vii. CAS planned activities for 2009 are as follows:

Activity Type	Activity Description	Date dd/mm/year
	1. DLP - Prof Naveen K. Yanduru - Achieving highly integrated, re-configurable RF front-ends in deep sub-micron CMOS with an example of a WCDMA, GSM/GPRS/EDGE receiver front-end without inter-stage SAW filter in 90nm CMOS	March 2009.
	2. DLP – Prof Bert Shi, Bioinspired CNN visual Systems,	April 2009
	3. DLP – to be decided	Jun 2009

Technical	4. DLP – to be decided	July 2009
	Technical Talk – Prof Weng – Design For Test	May 2009
	Technical Talk –Prof Jin Fu Li – Memory Testing	July 2009
	Technical Talk – Prof Mohammad Ismail	September 2009
Education	1. Tutorial – Design For Test	May 2009
	2. Tutorial – Memory Testing	July 2009
	3. Tutorial – Communication	September 2009
Social	1. Section Visit for CAS Singapore	Jan 2009
	2. AGM 2009	10 <sup>th</sup> Jan 2009
Professional	1. APCCAS 2010 - Meeting for APCCAS 2010	2009
	2. ATS 2012 - Bid for ATS 2012	Nov 2009
	3. CHAPTER-VISIT-CHAPTER - Malaysia – Singapore/Thailand/Taiwan	2009
	4. POST GRADUATE SEMINAR 2009	2009
Membership	1. East – University Malaysia Pahang, Pahang	March 2009
	2. North – University Science Malaysia Penang	May 2009
	3. South – University Technology Malaysia Johor	Nov 2009
	4. West – University Putra Malaysia Selangor	2009

- viii. UNITEN SB will organise SCORED 2009.
- ix. CES will be the co-organiser for CISAR 2009 and also plans to have several technical talks, training, workshops and DVP program on areas such as embedded systems, smart home, audio and video technology.

### **C-3: Problems to be Anticipated and Plans to overcome**

- C-3-1: 2008 has seen overwhelming support from local institutions and organizations, especially in terms of co-organisation of conferences. In the coming year, a more systematic scheduling and monitoring system will be considered to enable a higher level of coordination and technical field coverage by each of the planned events.
- C-3-2: Due to the factors mentioned in D-3-1, there seems to be demand for certain guidelines in terms of conference organising committee set-up. This is to enable distinction of role between co-organising units in IEEE and other bodies.
- C-3-3: IEEE Malaysia Section has gained more visibility where some of our events have appeared in the local media. Our professional contributions have also been requested by other government and non government organisations. This level of visibility will be maintained and improved.

## **PART D - GOALS AND PLANS**

### **Goals**

- D-1-1: The IEEE Malaysia Section goal is to be the leader of technical society for electrical and electronic engineers in the country. We hope to provide members with access to high quality technical information through lectures, short courses, workshops and conferences. We are also putting more effort in promoting community services Malaysian wide by increasing cooperation with the industry and society at large.
- D-1-2: The Section also plans to attract more members and upgrade the membership status of its member. Efforts to increase the number of student members and also student branches will be carried out more actively.

Prepared by;

**Noor Hasimah Baba/Mahanijah Md Kamal**  
**Secretary/Joint Secretary (2008)**  
**IEEE Malaysia Section**

