

# Section Report



## IEEE Malaysia Section 2002

### Report for IEEE Malaysia Section: Annual Report 2002

Name of Council/Section: IEEE Malaysia Section  
Country: Malaysia  
Postal Address:  
The IEEE Malaysia Section,  
C/o: Institut Multimedia dan Perisian  
Universiti Putra Malaysia  
43400 Serdang, Selangor.  
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# Main Report

## Part A: Section Summary

### A- 1: Executive Summary

This year has been very encouraging with significant improvement and achievement for IEEE Malaysia. The membership has steadily increased for members, student members, senior members and associate members. The achievement can also be measured with the increased of activities.

IEEE Malaysia has engaged in a number of activities in 2002 making the Section among the most active among similar organizations in the country. This year three conferences were organized namely, the "Student Conference On Research and Development 2002 (SCOReD2002) on 16 & 17 July 2002", "5<sup>th</sup> IEEE International Conference on Semiconductor Electronics (ICSE2002), 19-21 Dec. 2002", and "National Conference on Telecommunication technology NCTT2003, 14-15 January 2003". The Section has also actively organized DLP, short-courses, seminar, technical talks and tutorials.

A remarkable achievement for the Section is the setting up of one more student branch at Universiti Kebangsaan Malaysia (UKM) and Joint Chapter, Signal Processing and Instrumentation and Measurement (SP&IM). UTM Skudai Student Branch (since 1999) is the 7<sup>th</sup> from the top in Asia Pacific region and PES Malaysia Chapter received High Performance Chapter Award of USD400 from IEEE HQ for 2001 activity.

### A-2: Financial Report

As given in treasurer's report.

### A-3: Section Committee Officers

#### Committee Members (Term from March 9, 2002 until February 8, 2003)

Chair:	Mr Jaafar Mohamad Abu Bakar
Vice Chair:	Dr. Borhanuddin Mohd Ali
Hons Secretary:	Dr. Norman Mariun
Treasurer:	Pn Norliza Mohd Noor
Committee Members:	Dr. Mohd Nasir Taib -Membership Development Dr. Azah Mohamad -Newsletter and Publication Dr. Mahamod Ismail -Professional and Education Dr. Zaiki Awang -Student Activities
Auditors:	Mr Hartono Zainal Abidin Mr Mohd Halimi Abdullah

Mr Hartono was also co-opted as committee member.

#### Secretariat Office

The current secretariat office address is as below.  
The IEEE Malaysia Section,  
Institut Multimedia dan Perisian  
Universiti Putra Malaysia  
43400 Serdang, Selangor.

Any queries may be address to the Liaison Officer:  
Pn Ilawati, 03 8946 8425,  
ilawati@imedia.upm.edu.my,

## Part B Organizational Activities

### B-0: Administrative Meetings

B-0-1: A total of 7 Ex-Com meetings were held between March 2002 (after the AGM) and January 2003 as follow.

The 1<sup>st</sup> ex-com meeting was held at Institute Multimedia, UPM on 18 March 2002.

The 2<sup>nd</sup> ex-com meeting was also a strategic meeting held on the 23 April 2002 at Cyberlodge View Resort, Putrajaya.

The 3<sup>rd</sup> ex-com meeting was held on 15 June 2002 at Faculty of Engineering, UPM.

The 4<sup>th</sup> ex-com meeting was held on 10 August 2002 at Institute Multimedia, UPM.

The 5<sup>th</sup> ex-com meeting was held on 3 October 2002 at Institute Multimedia UPM.

The 6<sup>th</sup> ex-com meeting was held on 21 December 2002 at Institute Multimedia UPM.

The 7<sup>th</sup> ex-com meeting was held on 25 January 2003 at Institute Multimedia UPM.

B-0-2: The attendances including Chapter Chairs and Student Councillors are as follow.

	18/03/02	23/04/02	15/06/02	10/08/02	03/10/02	21/12/02	25/01/03
Mr Jaafar Mohamad	1	1	1	1	1	1	1
Dr. Borhanuddin	1	1	1	1	1	1	1
Dr Norman Mariun	1	1	1	1	1	1	1
Ms Norliza M Noor	1	1	1	1	0	1	1
Dr Nasir Taib	1	1	1	1	0	1	1
Dr Azah Mohamed	1	1	1	1	1	1	0
Dr Mahamod	1	0	0	0	1	1	0
Dr Zaiki Awang	1	1	1	1	0	0	1
Mr Hartono	1	1	1	0	0	0	1
Dr Seetharamu	1	1	0	1	0	0	1
Dr Deepak	1	1	1	0	1	0	1
Prof Burhanudin	1	1	1	0	1	0	0
Dr Rahman Ramli	0	0	0	0	1	0	1
Mr Mohd Amran	0	1	1	1	0	1	1
Dr A Halim Yatim	0	0	0	0	0	0	0
<b>Total attendance</b>	<b>12</b>	<b>12</b>	<b>11</b>	<b>9</b>	<b>8</b>	<b>8</b>	<b>11</b>

### B-1: Membership Development Programs

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

- To increase Malaysian members: professionals and students
- To retain the members as much as possible
- To promote more Senior Members or even Fellow
- To set up more Society Chapters and Student Branches

B-1-2: The total number of members including student members as of December 2002 is presented below (brackets represent data for 2001).

	LS	SM	LM	M	PM	AS	S	AF	Total
Section	1	26	3	570	37	174	364	69	1244
	(1)	(18)	(3)	(478)	(21)	(92)	(292)	(64)	(969)

There is an increase of the total number of members by 28%, 44% of senior members, 19% of members and 25% or student members.

B-1-3: The number of members according to societies and percentage of increment with at least 10 members are as follow.

	2001	2002	Increment (%)
C016 Computer	189	297	57
COM019 Communications	158	191	21
PE031 Power Engineering	63	76	21
CAS004 Circuits and Systems	31	50	61
ED015 Electron Devices	35	46	31
SP001 Signal Processing	25	30	20
AES010 Aerospace and Electronic Systems	3	28	833
PEL035 Power Electronics	19	27	42
SSC37 Solid-State Circuits	23	27	17
CS023 Control Systems	18	26	44
MTT017 Microwave Theory and Techniques	22	26	18
EM014 Engineering Management	20	24	20
AP003 Antennas and Propagation	20	23	15
RA024 Robotics and Automation	13	21	62
LEO036 Lasers and Electro-Optics	13	18	38
CPMT021 Components, Hybrids and Manufacturing	15	17	13
EMB018 Engineering in Medicine and Biology	12	17	42
E025 Education	12	14	17
IE013 Industrial Electronics	12	14	17
IA034 Industry Applications	13	13	0
IM009 Instrumentation and Measurement	13	13	0
EMC027 Electromagnetic Compatibility	9	11	22
VT006 Vehicular Technology	10	11	10

- B-1-4: There are currently five chapters and two joint chapters under IEEE Malaysia Section:
- i. Joint Chapter - Antenna & Propagation (A&P), Microwave Theory and Techniques (MTT) and Electromagnetic Compatibility (EMC) Society – headed by Dr. Deepak Kumar Ghodgaonkar, UiTM.
  - ii. Communication Society (ComSoc) – headed by Dr. Borhanuddin Mohd. Ali, UPM.
  - iii. Power Engineering Society (PES) – headed by Dr. Norman Mariun, UPM.
  - iv. Computer Society (CS) – headed by Dr. Abdul Rahman Ramli, UPM.
  - v. Electron Devices Society (EDS) – headed by Dr. Burhanuddin Yeop Majlis, Dept. of Electrical Electronics and System Eng., UKM.
  - vi. Components, Packaging, and Manufacturing Technology (CPMT) Society – headed by Dr Kankanhally Seetharamu, USM.
  - vii. Another joint chapter, Signal Processing and Instrumentation and Measurement (SP&IM) has also been approved on 25 August 2002 and Pn Norliza, UTM is now the chair.

- B-1-5: There are four student branches under the section as follow.
- i. UTM Skudai Student Branch (since 1999) with Dr. Abdul Halim Mohd Yatim as the student councilor. It is rank top 7<sup>th</sup> from the top in Asia Pacific Region with 318 members.
  - ii. UiTM (since 2000) Student Branch with Dr. Deepak Kumar Ghodgaonkar as the student councilor with 14 members.
  - iii. UPM Student Branch (since 2001) with En. Mohd Amran Mohd Radzi as the student councilor with 38 members.
  - iv. UKM Student Branch was approved last November 2002 and the student councilor is De Edmond Zahedi. Currently it has 52 members.

- B-1-6: Social Meeting and Membership Drive
- i. Membership drive by Dr Zaiki at KUiTTHO on 10 April 2002. 50 participants
  - ii. Career talk by Dr Norman and membership drive by Mr Amran and Dr Zaiki at Univesiti Tenaga Nasional, 4 July 2002. 30 participants.
  - iii. Membership drive by Dr Norman at Kolej Universiti Teknologi dan Pengurusan Malaysia, 20 July 2002. 60 participants.
  - iv. Membership drive 'IEEE and its Benefits' at UNITEN on 21 January 2003 by Dr Norman attended by 30 students and lecturers.
  - v. Membership drive by Prof Borhanudin at UNITEN on 22 January 2003.
  - vi. Student membership drive 'Student Membership and Forming a Branch' by Mr Amran at UNITEN on 22 January 2003.
  - vii. Membership drive and forming of a LEOS Chapter at UPM by Dr Nasir, Dr Norman and Prof Borhanudin on 23 January 2003. 32 persons attended the event.

B-1-7: GOLD Activity

Mr Mohd Amran Mohd Radzi (PES Chapter Treasurer and UPM Student Councillor) has been appointed to coordinate the formation of the GOLD Affinity Group with the IEEE Malaysia Section. Currently he is compiling a directory of email addresses and phone numbers of alumni from various local universities. He shall be calling a meeting to form the interim committee of the GOLD Affinity Group after the AGM 2003. The group have met a few times and organized ten-pins bowling competition.

**B-2: Conferences, Professional and Continuing Education Activities**

B-2-1: Conferences: the following conferences were organized by IEEE Malaysia involving financial sponsorship of the Section or organizing committee from local Chapters.

- i. UiTM Student Branch organized the Students Conference On research and Development 2002 (**SCORED 2002**) on the 16 and 17 July 2002, at the Grand Bluewave Hotel, Shah Alam in cooperation with the Faculty of Electrical Engineering, UiTM. A total of more than 100 participated in the event with 122 papers presented.
- ii. Electron Devices Chapter of IEEE Malaysia Section organized the fifth ICSE, 2002 IEEE International Conference on Semiconductor Electronics (**ICSE2002**) at the Gurney Resort Hotel and Residences in Penang from 19 to 21 December 2002. This event is technically co-sponsored by Electron Devices Society and in co-operation with Universiti Kebangsaan Malaysia (UKM) and Universiti Sains Malaysia (USM). The conference was sponsored by Mems Technology Sdn, Bhd. and Kriptic Devices Sdn Bhd. The conference covers all aspects of the semiconductor technology, from materials issues and device fabrication, MEMS and microsensors, photonics technology, IC design and testing, manufacturing, and system applications. The proceeding of ICSE 2002 consists of 3 invited speakers as well as 132 papers presented from all over the world. The participants of the ICSE are representing 10 countries all over the world, Singapore, China, Japan, Korea, Thailand, UK, USA, Iran, Indonesia and Malaysia. We are also delighted to have three prominent speakers in microelectronics. Prof. Vijay K. Arora, IEEE Distinguished Lecturer will speak on

“The electron temperature in nanostructures subjected to a high electric field”, Mr. Sooriakumar, from Mems Technology Sdn. Bhd on “Use of micro-machined accelerometer in today's world” and Prof. Arokia Nathan from University of Waterloo, on “a-Si:H back-plane electronics for medical imaging and OLED displays”.

**B-2-2: The TAB (Technical Activity Board) Colloquia 2002**

The Section organized the IEEE TAB Colloquia 2002, Kuala Lumpur at Renaissance Hotel Kuala Lumpur on 25 March 2002. The delegates were given a reception dinner with the TAB Colloquia organizing committee on 24 March 2002, at Sri Angkasa Revolving Restaurant, Kuala Lumpur.

The speakers and titles of the talk for the colloquia are as below.

Prof Ray Findlay (IEEE President): IEEE Highlights

Ms Mary Ward-Callan: IEEE Technical Activities Operations

Prof Roberto deMarca: Internet Standards

Prof Mike Lightner: Accessibility and Universal Design

Mr K.C.Chua: IT and Telecommunication Standards, Future Trends and Challenges.

Prof Danny Sutanto: Improving Power Quality and Reliability using Battery Energy Storage Systems

Region 10 Director, Prof Low Teck Seng was also present. The Colloquia was well attended by 120 participants from the industry and the universities.

After the Colloquia, a meeting between the Technical Activity Board and the IEEE Malaysia Section Ex-Com was convened at the same venue. Then in the evening, a Technical Activity Board Dinner with Malaysian Corporate and Government Department Leaders was hosted at the Saloma and Theater Restaurant Kuala Lumpur. About 50 persons were present at the dinner. IEEE President presented gift to the honourable guests at the end of the dinner.

**B-2-3: Technical Meetings (Short Courses/Seminars/Technical Talks/Tutorials)**

- i. The Section organized a technical talk, on “Emergence of Photonics and Rigorous Modelling of Photonic Devices”, by Prof. B M A Rahman, City University, London 15 November 2002 at Universiti Putra Malaysia, Serdang. 45 participants.

**B-2-4: Distinguished Lecture Program:**

- i. PES Chapter organized a DLP tutorial, VSC-Based FACTS Controllers: Modeling and Applications, by Dr Kalyan K Sen (USA) at Universiti Putra Malaysia, Serdang on 2-3 October 2002. 20 participants.
- ii. Com Soc Chapter organized a DLP program “Advance Coding for Fading Channel” on 22 April 2002 by Dr Ezio Beglieri, at UNITEN. 20 participants.

**B-3: Recognized Educational Programs**

- B-3-1: There has been no application by any institutions for any recognized educational programs this year.

**B-4: Student Activities**

**B-4-1: Technical Meetings (Short Courses/Seminars/Technical Talks/Tutorials)**

- i. UTM Student Branch organized a technical forum on ‘Bridging the Digital Divide’ on the 19<sup>th</sup> of January at UTM in conjunction with IEEE Week. IEEE NUS, Singapore was invited to participate. Speaker includes Mr. Tan Chee Teong. 36 attendees.

- ii. UTM Student Branch organized a Matlab workshop on 8<sup>th</sup> and 9<sup>th</sup> January at Faculty of Electrical Engineering, UTM to guide and teach the basic Matlab operation. 60 students participated.
- iii. UTM Student Branch organized the annual event, 'P-SPICE Workshop' on 31<sup>st</sup> July 2002 at UTM to facilitate the dissemination of knowledge of P-SPICE. 60 participants.
- iv. UTM Student Branch held an E-Safety Forum on 17<sup>th</sup> August 2002 at UTM. 55 attendees.
- v. UTM Student Branch organized MIDSPEW 2002 – Malaysian International Digital Signal Processing Exhibition and Workshop on 2 and 4<sup>th</sup> August 2002, at UTM, KL. Speakers include representatives from Texas Instrument and Prof. Mohamed Deriche from Queensland University of Technology, Australia.
- vi. UTM Student Branch held an IEEE Career Exhibition on 6<sup>th</sup> and 7<sup>th</sup> July, at UTM Skudai.
- vii. UiTM Student Branch organized a technical talk on *Recent advances in microstrip antenna design* by Prof. Sharma at UiTM in January 2002.

B-4-2: Social Meeting and Membership Drive

- i. UTM Student Branch held a Career Talk on the 14<sup>th</sup> December 2002 with participation from companies such as Intel, Shell, Altera and Matsushita. 160 people participated. Speakers include representatives from Shell, Intel and Matsushita.
- ii. UTM Student Branch organized a recruitment drive to recruit new members and renewals were held twice during the term 2001/2002 in December and June at the foyer of Faculty of Electrical Engineering.
- iii. UPM Student Branch organized a membership drive and Career Talk by Dr Norman on 7 February 2002 on behalf of PES Malaysia Chapter. 15 participants.
- iv. UPM Student Branch organized a Social Visit to USM, 9 June 2002. 40 participants. Friendly football games and social event was organized.
- v. UPM Student Branch set up booth in February 2002 to give the students opportunity to know in detail about the IEEE. Through this booth, IEEE Student Membership forms were distributed.
- vi. UPM Student Branch Ex-Com arrange promotional talk in lecture classes of first and second year Electrical and Electronic Engineering students in September 2002 to promote IEEE and explaining the advantages joining the organization.
- vii. UPM Student Branch organized IEEE membership registration promotion activity in December 2002. This two weeks program goal is to retain the members of IEEE SB UPM not only from the Electrical and Electronic Engineering and Computer and Communication Engineering students but also students from the Faculty of Information Technology. As a result, more than 25 students registered as new members.

B-4-3: Technical Visits

- i. UTM Student Branch organized an educational visit to the various laboratories at NUS Singapore on 4<sup>th</sup> of January 2002. 21 students participated.
- ii. UPM Student Branch organized a Technical Visit to Kulim Industrial Park, supported by En Mohd Amran on behalf of PES Malaysia Chapter, 10 June 2002. 40 participants.

B-4-4: The Region 10 Student Congress was held at NUS, Singapore on 16-19 July 2002. Three delegates from UTM Student Branch and one delegate from UiTM Student Branch participated in the congress. The congress provides continual avenue for student leaders to learn, to network and to motivate. In addition, this congress provides the opportunity for students to share and observe the differences and similarities in nature and culture among the delegates from different countries in Region 10. Activities during the congress ranged from team-building activities, leadership training, workshops to discussions on issues related to student branches.

## **B-5: E-mail and Newsletter Activities, Home Page**

- B-5-1: The Malaysia Section and Chapters may be reach via the following websites.
- i. IEEE Section - <http://www.ewh.ieee.org/r10/malaysia/>
  - ii. PES Chapter - <http://www.ewh.ieee.org/soc/pes/malaysia/>
  - iii. Com Soc Chapter - <http://ewh.ieee.org/r10/malaysia/comsoc/index.html>
- B-5-2: One newsletter *myIEEE* Vol. 6, was published in September 2002 and may be accessed via the Section website. It was issued to the members by email and also copies of the Newsletter are sent to IEEE Singapore, Thailand and Philippine Sections.
- B-5-3: IEEE Malaysia shares a joint publication with the Faculty of Electrical Engineering, Universiti Teknologi Malaysia called *Elektrika*. It has been regularly published with Prof. Marzuki Khalid as its Editor-in-Chief. *Elektrika* was distributed free to all IEEE Malaysia section members. One *Elektrika*, Vol.5, No.1 has been published and sent out to IEEE members in September 2002.

## **B-6: Awards**

- B-6-1: The Section is nominating the following awards to be presented at the IEEE Section Dinner and Award Night.
- i. Section Best Volunteer Award
  - ii. Section Best Chapter Award
- B-6-2: The PES Malaysia Chapter has nominated the following awards recipients to be presented at the IEEE Section Dinner and Award Night.
- i. Dr Sallehudin Yusof for Chapter Outstanding Engineer Award
  - ii. Prof Hussein Ahmad for Certificate of Appreciation Award
  - iii. Tenaga Nasional Berhad Research for Corporate Recognition Award

## **B-7: Chapter Activities**

- B-7-1: Power Engineering Society (PES) – headed by Dr. Norman Mariun, UPM. Total number of active members is 76, an increase of 21% from previous year. The 6<sup>th</sup> Annual General Meeting was held on March 9, 2002 and 4 Ex-Com meetings were held. 3 technical meetings, 1 short course, 1 DLP, 3 social and membership drive functions, and 1 technical visit were organized. The chapter also supported 1 seminar organized by the local Standard Organizations and 1 seminar organized by CIGRE and CIRED. The chapter also received the PES High Performing Chapter Award (HPCA) of USD400 from IEEE Headquarters.
- The list of meetings held and supported by PES is as follow.
- i. PES Chapter organized a technical talk on High-Performance Processing For Real-Time Control by Prof. Roger Goodall (United Kingdom), at Universiti Putra Malaysia, Serdang on 4 June 2002. 45 participants.
  - ii. PES Chapter organized a technical talk on Sol-Gel Insulation and Coated Conductor Development for High Field Insert Coil Technology at NHMFL, by Prof Prof. Yusuf Saat Hascicek (Turkey) at Universiti Putra Malaysia, Serdang on 17 July 2002. 15 participants.
  - iii. PES Chapter organized a short course, “Design and Analysis of Power Converters” by Prof Muhamad Haroun Rashid (USA), at Universiti Putra Malaysia, Serdang on 18-19 July 2002. 55 participants.
  - iv. PES Chapter organized a technical talk, “Power Electronics: Current State of The Art and Future Trends”, by Prof Muhamad Haroun Rashid (USA) at Kolej Univesiti Teknologi dan Pengurusan Malaysia, Shah Alam on 20 July 2002. 60 participants.
  - v. PES Chapter supported a Seminar on “Assuring High Quality Power for Digital Economy and Advanced Manufacturing” organized by SIRIM, Energy Commission and Department of Standard on 17 September 2002 at Bluewave Hotel Shah Alam.

- 120 participants. Dr Norman Mariun presented a paper on Harmonics and Mitigation on behalf of PES Malaysia Chapter.
- vi. PES Chapter organized a DLP tutorial, VSC-Based FACTS Controllers: Modeling and Applications, by Dr Kalyan K Sen (USA) at Universiti Putra Malaysia, Serdang on 2-3 October 2002. 20 attendants.
  - vii. PES Chapter supported a half-day seminar on "Biomass generation & co-generation and their connection issues to distribution systems and potential solutions" organized by CIGRE and CIRED held at Oditorium Ilmiah TNB Research, Kajang, Selangor on January 16th, 2003. About 100 participants.
  - viii. Career talk and membership drive by En Amran on behalf of PES Malaysia Chapter at Universiti Sains Malaysia, 9 June 2002.
  - ix. Career talk and membership drive organized by Dr. Azah on behalf of PES Malaysia Chapter at Universiti Kebangsaan Malaysia, 11 June 2002.
  - x. Career Video presentation on Power Engineering and membership drive organized by Dr Norman and En Amran on behalf of PES Malaysia Chapter at Universiti Putra Malaysia, 26 December 2002. 30 attendants.
  - xi. Technical visit to Combine Cycle Modern Power Station, Serdang, organized by Dr Azah on behalf of PES Malaysia Chapter, 27 December 2002. 53 participants.
- B-7-2: Communication Society (ComSoc) – headed by Prof. Borhanuddin Mohd. Ali, UPM. Total number of active members is 191, an increase of 21% from previous year. Com Soc Annual General Meeting was held on March 9, 2002. The chapter organized 1 DLP, 2 technical talk and 1 social event. The list is as follow.
- i. Com Soc Chapter organized a DLP program “Advance Coding for Fading Channel” on 22 April 2002 by Dr Ezio Beglieri, at UNITEN. 20 people attended.
  - ii. Com Soc Chapter organized a technical talk on 31 May 2002, by Dr A Rahim Leyman, “Use of Higher Order Statistics for Mobile Wireless Communication”, at UPM. 30 people attended.
  - iii. Com Soc Chapter organized a technical talk by Prof Rob Edwards, on 26 June 2002, “Moment Method Analysis of Printed Antennas” held at UPM. 20 people attended.
  - iv. Com Soc organized a lecture *Venture Capital for the ICT Industry* by Mr. Dali Sardar on the 29 January 2003, at Universiti Putra Malaysia (UPM), Serdang. 30 participants attended the event.
- B-7-3: Electron Devices Society (EDS) – headed by Prof. Burhanuddin Yeop Majlis, UKM. Total number of active members is 38. Total number of active members is 46, an increase of 31% from previous year. The chapter organized 2 short courses, 1 workshop and 1 international conference. The list of meetings is as follow.
- i. EDS Chapter organized a short course on “Advanced Surface Analysis Techniques” held on 6 March 2002 at UKM Bangi sponsored by QC Scientific (M) Sdn Bhd. 45 participants attended the short course with a fee of RM15.00.
  - ii. EDS Chapter organized a Workshop on “Design and Analysis of Experiments” held on 16-17 July 2002 at UKM. Attended by 33 participants. The instructor was Dr. Abu Hasan Shaari.
  - iii. EDS Chapter organized a One-day course “Engineering Productivity Enhancement by Constraints Management” held on 18 December 2002, at Gurney Resort Hotel, Penang. The instructor is Prof Vijay K Arora. Attended by 8 participants
- B-7-4: Computer Society (CS) – headed by Dr. Abdul Rahman Ramli, UPM. Total number of active members is 297, an increase of 57% from previous year. The chapter held 4 Ex-Com meetings, 1 tutorial and 1 seminar. The list of meetings is as follow.
- i. Computer Society Chapter and the Multimedia University, CyberJaya had jointly organized a Tutorial titled “Front-End Vision and Multi-Scale Image Analysis” by Prof. Bart M. ter Haar Romeny from Department of Biomedical Engineering, Eindhoven University of Technology, Netherland on 19 to 23 August 2002, at the Multimedia University, Cyberjaya. Attended by 54 participants from University Multimedia, Universiti Putra Malaysia, Universiti Sains Malaysia and Universiti Malaya.

- ii. Computer Society Chapter held a seminar on *Computer Security* at Institute of Advances Technology, UPM on 2 October 2002 at 2.30 pm. Attended by 20 participants. The speakers are Mr. Chui Yew Leong and Mr. Lawan Ahmed Mohammed from UPM.
- B-7-5: Components, Packaging, and Manufacturing Technology (CPMT) Society – headed by Prof. Kankanhally Seetharamu, USM. Total number of active members is 15, an increase of 13% from previous year. The chapter held 1 seminar and 2 technical lectures. The list of meetings is as follow.
- i. CPMT Chapter organized a seminar on *The Characteristic-Based-Split (CBS) Scheme for Fluid Dynamics* by Dr. P. Nithiarasu from School of Engineering, University of Wales Swansea, United Kingdom on 1<sup>st</sup> August 2002 at USM Engineering Campus, Sri Ampang. 25 persons attended.
  - ii. CPMT Chapter organized a Technical Lecture *Thermal Design For Microelectronic Packaging* by Mr. Goh Teck Joo from Assembly Technology Development, Intel Technology Sdn Bhd, Penang, Malaysia on 6<sup>th</sup> November 2002 at USM Engineering Campus, Sri Ampang. 120 persons attended.
  - iii. CPMT Chapter organized a Technical Lecture *Thermal Challenges in Telecommunication Industry* by Mr. Yasir Abdul Quadir, Research Engineer, Hardware Integration Group, Nokia Research Centre, Helsinki, Finland on 13<sup>th</sup> November 2002 at USM Engineering Campus, Sri Ampang. 30 persons attended.
- B-7-6: Joint Chapter Antenna & Propagation (A&P), Microwave Theory and Techniques (MTT) and Electromagnetic Compatibility (EMC) Society – headed by Dr. Deepak Kumar Ghodgaonkar, UiTM. Total number of active members is 59. The 4<sup>th</sup> AGM was held on March 9, 2002. 5 Ex-Com meetings were held for the year. The chapter organized 4 technical talks and co-organized 1 short course with Institution of Engineers Malaysia. The Joint Chapter also received the Antennas and Propagation Society's Chapter Grant of USD 500.00 from the IEEE headquarters USA in 2002. The list of meetings is as follow.
- i. AP/MTT/EMC Joint Chapter organized a technical talk by Mr Lawrence S Cohen on *Antenna Measurement System* on 21 May 2002. Attended by 30 participants at UiTM.
  - ii. AP/MTT/EMC Joint Chapter organized a technical talk by Prof Christos Christopoulos on EMC at UNIM, on 29 July 2002 and 30 persons attended.
  - iii. AP/MTT/EMC Joint Chapter and UiTM Student Branch, jointly organized a technical talk on *Miniaturised and Multifunction Antennas for Future Communication Terminals* by Prof. Peter Hall on 15<sup>th</sup> October 2002 at UiTM.
  - iv. AP/MTT/EMC Joint Chapter organized a technical talk on *Biological effects of electromagnetic fields* by Prof. Ahmad Sobhy Aly Farag at KUiTTHO, Batu Pahat on 10<sup>th</sup> April 2002. Total attendance 55.
  - v. AP/MTT/EMC Joint Chapter coorganized with The Institution of Engineers, Malaysia (IEM) a short course on *Practical Approach to Lightning and Transient Problems* on 28<sup>th</sup> August 2002 at the IEM Conference Room, Petaling Jaya. 32 participants attended the course. Mr. Hartono Zainal Abidin of Lightning Research Sdn Bhd, Kuala Lumpur, Malaysia presented the course.
- B-7-7: Joint Chapter Signal Processing and Instrumentation and Measurement (SP&IM) have been approved on August 25, 2002 and Ms Norliza, UTM was the interim chair. The chapter held 1 interim Ex-Com meeting and 1 technical talk as below.
- i. SP&IM Chapter organized a technical meeting on "Feature Extraction Using Wavelet for MTB Disease" on October 22, 2002. 8 participants attended.

## **Part C: Goals and Plans**

### **C-1: Goals**

- C-1-1: The IEEE Malaysia Section goal is to be the premier 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 also hope to work closely with many Malaysian government agencies and local companies and to provide assistance in obtaining information on advanced and high technology pertaining to the electrical engineering field.
- C-1-2: As of this fiscal year 2003, IEEE Malaysia hopes to organize its activities in a more systematic manner. We hope to inform members of all our plans for the year.
- C-1-2: The Section also plans to form new student branches in several universities and formed 3 new chapters.

### **C-2: Detail Implementation Plans**

(To be provided later after the first Ex-Com meeting on 3 March 2003)

## **Part D: Others**

### **D-1: Relationship with National Societies**

- D-1-1: The Section co-sponsored a conference on Automation and Conference Networking CACN with Association of Consulting Engineers Malaysia (ACEM) in June 2002.
- D-1-2: The Section has initiated a joint meeting with other related professional bodies. Mr Jaafar organized a meeting on 4 October 2002 at PJ Hilton with Institution of Engineers Malaysia, TEEAM and ACEM. Mr Jaafar and Dr Mahamod is drafting a joint program.
- D-1-3: The Section has also pursued recognition of IEEE activities from the Board of Engineers Malaysia (BEM – licensing government body). Dr Norman has communicated with the Registrar of BEM for recognition of IEEE courses and activities as part of the CPD (Continuous Professional Development) program for Professional Engineers (PEng) in Malaysia. The Registrar of BEM has responded and shall bring it to their committee.

### **D-2: Upcoming Events**

- D-2-1: The PES Malaysia Chapter is organizing the IEEE Section Dinner on 18 April 2003 for award ceremony and networking with the industry corporate bodies and government departments.
- D-2-2: The PES Malaysia Chapter is organizing a National Power and Energy Symposium in 2003.
- D-2-3: The UPM Student Branch with support from the Dept of Electrical and Electronic Engineering, UPM is organizing SCORED 2003, on 21-22 April 2003 at Renaissance Palm Garden, Putra Jaya.
- D-2-4: The Section is co-organizing AsiaSense 2003 with UiTM and UKM.
- D-2-5: AP/MTT/EMC Joint Chapter is co-organizing APACE 2003 with UiTM and KUiTTHO on 12-14 August 2003.
- D-2-6: CPMT Chapter is bidding to organize an International Conference in December 2004.
- D-2-7: Institute of Advances Technology, UPM with cooperation of IEEE Computer Society Malaysia Chapter will organize CISAR 2003 (Conference on Intelligent Systems and Robotics) on 13-14 May 2003 at Hotel Marriott, IOI Resort, Putrajaya.

- D-2-8: Com Soc Chapter will organize MICC 2004.
- D-2-9: PES Chapter will organize a short course on Energy Management in 2003 at UiTM
- D-2-10: The Section is co-organizing an IEEE Workshop on Ethics Education on July 9-10 2003 in KL.
- D-2-11: Asia-Pacific Conference on Applied Electromagnetics, August 12 – 14, 2003, Concorde Hotel, Shah Alam, Malaysia, Organized by this chapter and KUiTTHO, Batu Pahat, Malaysia.
- D-2-12: DLP Lecture by Dr. Cheung-Wei Lam, USA on 10 March 2003.
- D-2-13: The Section is helping to form Student Branch at several universities including USM, MMU, UMS, KUiTTHO, UTP and UNITEN.
- D-2-14: IEEE Section Region 10 Meeting is going to be held in Penang on 4-6 April 2003. The Section is the local organizing secretariat.
- D-2-15: LEOS Chapter is to be formed in March 2003. Dr Khazani, UPM is the interim Chair.
- D-2-16: EMB Chapter is to be formed in March 2003. Dr Mohd Nasir, UiTM is the interim Chair.

### **D-3: Special Events**

- D-3-1: Region 10 Meeting – Bangkok 2002

The IEEE Region 10 meeting was held on 5-6 April 2002 at Grand Hyatt Erawan Bangkok, Thailand. En Jaafar, Prof Borhanudin, and Dr Norman represented the Malaysia Section. Prof Marzuki was also present as the Region 10 Student Activity representative. The section was awarded the Best Section Award for year 2000 under the leadership of Prof Marzuki. The 2003 Region 10 Meetings will be held in April 2003 in Penang, and shall be represented by the senior Section Ex-Com. More details on Region 10 meetings may be reach at <http://www.ewh.ieee.org/reg/10/>.

- D-3-2: ASEAN IEEE Section Meeting – Kuala Lumpur 2002

The IEEE ASEAN Section meeting was held on 1 June 2002 at Renaissance Hotel Kuala Lumpur. 21 delegates attended the meeting comprising of 9 from Malaysia, 8 from Singapore, 2 from Indonesia, 1 from Thailand and 1 from the Philippines. Among the objectives of the meeting is to share experiences in running Sections and Chapters, to organize joint activities, to support each other activities, and to help promote scholars within the Sections. Prof Marzuki was appointed as the coordinator of the ASEAN Group. The next meeting, 2003 will be in Indonesia and 2004 in the Philippines. In conjunction with this meetings a conference or colloquium shall also be organized.

- D-3-3: IEEE Section Congress – Washington DC 2002

The IEEE Section Congress was held on 18-22<sup>nd</sup> October 2002 at JW Marriott Hotel, Washington DC. More than 600 delegates from all the regions participated in the congress. The Section nominated Dr Norman Mariun as the primary Malaysia Section delegate. Prof Marzuki Khalid participated as the Region 10 Student Activity representative. Technical seminars, workshops and meetings were held during the Congress. The final recommendations from the congress include to facilitate electronics communication to the members by IEEE, to review the student membership dues, to develop industry focused programs, and to create value statement for being members that would be appreciate by the employers. More details on the section congress may be reach at <http://www.ieee.org/organizations/rab/sc/2002/index.html>

### **D-4: Problems to be Anticipated**

- D-4-1: The increase in student dues may result in difficulty to increase student memberships.