

Norman Mariun, PhD, PEng

Chair, Educational Activity Committee



Professor and was the Head Department of Electrical and Electronic Engineering (2001-2004), and now Deputy Dean of Research and Post Graduate Studies for the Faculty of Engineering, UPM.

Graduated from University of Nottingham in Electrical and Electronic Engineering (1980). He obtained MSc in Electrical Engineering from North Carolina State University, USA (1983) and PhD from University of Bradford, United Kingdom (1997).

Area of interest is Electrical Power Engineering including Energy Efficiency and Renewable Energy, Laser applications and Power Electronics application in power system and drives.

He has received UPM's Excellent Service Award three times (1996, 1998 and 2004) and has been awarded the IEEE Asia Pacific Region Outstanding Volunteer Award 2003 and a senior member of IEEE.



IEEE Region 10 Educational Activities Committee

2007 Report and Plan for 2008

**Region 10 Exec Committee Meeting
Ghandinagar, India
2-3 February 2008**

Committee Members 2007

1. Norman Mariun - chair
2. Akinori Nishihara
3. Tuptim Angkaew
4. Robert Hodgson
5. Mohd Nasir Taib



*Marc Apter was invited
as an advisor for the
committee*

EDUCATIONAL ACTIVITIES BOARD

- **VISION:** To make IEEE a global resource of choice for educational products and services.
- **MISSION:** To achieve our vision we intend to serve the public, the profession and our members in a technically excellent and financially responsible manner through the following activities.
 - **Society Outreach:** To offer a quality and financially viable service to Societies/Councils in the identification and production of valuable and timely educational products and services.
 - **Section Outreach:** To identify and facilitate the educational needs of the public, the profession and IEEE members.
 - **Pre-College:** To promote and enhance the level of technological literacy of pre-college educators and students globally.
 - **Continuing Professional Education:** To identify and serve the educational needs of working professionals by being the resource of choice for quality educational products and services.
 - **Accreditation:** To identify and meet the accreditation needs of the profession by assisting in the establishment and implementation of systems that assure and improve the understanding and quality of accreditation in applied science, computing, engineering and technology.
 - **Public Awareness:** To partner and collaborate with other engineering entities in enhancing public understanding and awareness of the contributions of engineering and engineers to the global economy and quality of life.
 - **Awards:** To recognize excellence and outstanding educational contributions of individuals and organizations through awards that are aligned with our educational vision and mission.

Region 10 EAC Responsibilities

- Provide guidance and assistance to Region entities in organizing short courses and publicizing educational opportunities available from the Institute.
- Develop and utilize an infrastructure for rapid and effective communications between the membership and the Region Educational Activities Committee.
- Promote educational activities at the member level and communicate to the Educational Activities Board (EAB) the educational concerns of the membership.
- Provide the Region membership with current information regarding continuing education and professional development opportunities.
- Encourage members to participate in TISP/pre-college programs.
- Promote Educational Activities awards.
- Support the Region Professional Activities Committee.
- Provide pertinent and timely committee information to the Region Newsletter Editor.
- Address other such tasks as may be assigned by the Region Delegate/Director.

Region 10 EAC Action Plan for 2007

- Support a continuing education program for at least 3 Sections.
- Support a technical colloquium or symposium for at least 3 Sections.
- Carry out a TISP program in cooperation with a host Section in the region.
- Support an Accreditation Program in at least 1 country.
- Facilitate at least 1 EAB award recipient from the Region by creating EAC awards by the Region.

R10 EAC 2007 Budget and Expenditure

| No | Activity | Budget (USD) | Expenditure (USD) |
|----|--------------------------------|--------------|-------------------|
| 1 | Technical Educational Program | 3,000 | 3,637.57 |
| 2 | Soft Skill Educational Program | 3,000 | 2,258.97 |
| 3 | Accreditation Program | 3,000 | 931.87 |
| 4 | TISP Program | 1,500 | 1,000.00 |
| 5 | EAC Meeting | 1,500 | 720.59 |
| 6 | Awards | 500 | 0 |
| | | 12,500 | 8,549.00 |

Technical Program Supported

| No | Entity/Section | Activity | No of Participants | Approved Budget (USD) | Claim (USD) |
|----|--------------------------------------|--|--------------------|-----------------------|-------------|
| 1 | SB Rajagiri/ Kerala | 2 days Robotic Workshop | 100 | 400 | 455.02 |
| 2 | Computer Soc/ Madras | 2 days Conference on Software testing | No Activity | 450 | 0 |
| 3 | ComSoc/ Thailand | 1 day Quantum Cryptography Workshop | 30 | 200 | 198.30 |
| 4 | Kharagpur | 1 day Gas Insulated System workshop | 30 | 250 | 287.92 |
| 5 | WIE/ Kolkatta | 2 days Symposium on Emerging Technologies | 150 | 250 | 253 |
| 6 | PEL/IA/IS/ Malaysia | 4 NLP programs | 450 | 1000 | 703.49 |
| 7 | MTT/AP/ED/ Malaysia | 3 DL programs | 120 | 250 | 374.68 |
| 8 | SP/ Malaysia | 3 days Image and Processing Workshop | 25 | 200 | 535.71 |
| 9 | 5 PES Chap/ India & Bangladesh | DLP on Renewable Energy | 350 | 1000 | 829.45 |

Soft Skill Program Supported

| No | Entity/Section | Activity | No of Participants | Approved Budget (USD) | Claim (USD) |
|----|---------------------|-------------------------------|--------------------|-----------------------|-------------|
| 1 | MTT/AP/ED/ Thailand | 2 seminars on Writing Support | 50 | 300 | 311.18 |
| 2 | Western Australia | 1 day Soft Skill Workshop | 36 | 1000 | 1000.00 |
| 3 | PES/ Malaysia | 1 day Soft Skill Workshop | 56 | 950 | 947.79 |
| 4 | Hyderabad | 1 day Soft Skill Workshop | No report | 750 | 0 |

TEACHER IN-SERVICE PROGRAM

- **Encourage member participation in TISP**
 - to develop and present technologically oriented subject matter to local pre-college educators in an in-service or professional development setting.

Resources:

- **Teacher In-Service Program**
<http://www.ieee.org/organizations/eab/precollege/tispt/forsections.htm>
- **Lesson Plans**
<http://www.ieee.org/organizations/eab/precollege/tispt/lessons.htm>

TISP Proposal Supported

EAC Malaysia Section and recently formed EduSoc Chapter Malaysia conducted 2 days Teacher Training Programs at International Islamic University Malaysia with 29 teachers participation on 28-29 September 2007.

The training was conducted by 7 IEEE volunteers and teachers that have attended the previous workshop.

Budget approved was USD1000 and the same amount was claimed by the chapter.



Fig. 8. Photographic session, after all teachers received the certificate.



Accreditation

To identify and meet the accreditation needs of the profession by assisting in the establishment and implementation of systems that assure and improve the understanding and quality of accreditation in applied science, computing, engineering and technology.

The IEEE Region 10 EAC would like to see many more countries in this region to establish a national accreditation process or system and standard and hence to be able to benchmark against international standard and become a signatory of the Washington Accord.

Currently the signatories of WA are **Australia**, Canada, Ireland, **New Zealand**, United Kingdom, United States (all in 1989), Hong Kong (1995), South Africa (1999), **Japan** (2005), and **Singapore** (2006). Germany, **Malaysia** (both in 2004) and **South Korea** (2006) are provisional members.

The IEEE Region 10 EAC would work with AEESEAP and local Accreditation Institution/Body to organize a Workshop on National and International Engineering Program Accreditation Process so that the signatory countries may share experience and becomes sponsors and mentors to the accreditation process.

Accreditation Seminar Kuala Lumpur, 2007



R10 EAC sponsored a “Seminar on Engineering Program Accreditation: New Zealand Experience” organized by the IEEE Malaysia Section, Malaysia Engineering Accreditation Council, and the Faculty of Engineering, Universiti Putra Malaysia on 15 February 2007. It was presented by Prof. Robert Hodgson from New Zealand. There were about 90 registered participants and about 40% are IEEE members. The participants consist of accreditation panel members from the industry representing the Board of Engineers Malaysia, and academics from various universities.



EAB AWARDS

<http://www.ieee.org/web/education/EABAwards/calls.html>

**Nobody from
Region 10 has
received any of the
EAB Award**



EAB Awards Descriptions

IEEE EAB Meritorious Achievement Award in Accreditation Activities

- Recognizes IEEE members for efforts to foster the maintenance and improvement of education through the process of accreditation engineering, engineering technology, computer science programs and applied science programs. The award consists of \$1000 and a brass and walnut plaque.

IEEE EAB Meritorious Achievement Award in Continuing Education

- Recognizes IEEE members for the dedicated contribution to the design, delivery, and support of continuing education courses and programs in the fields of interest to IEEE members. The award consists of \$1000 and a brass and walnut plaque.

IEEE EAB Major Educational Innovation Award

- Recognizes IEEE members who have distinguished themselves for outstanding educational innovation in a field of interest of the IEEE. The award consists of \$1000 and a brass and walnut plaque.

IEEE EAB Pre-University Educator Award

- Recognizes current pre-university classroom teachers who have inspired an appreciation and understanding of mathematics, science and technology and the engineering process in students and have encouraged students to pursue technical careers. The award consists of \$1000 and a brass and walnut plaque.

IEEE EAB Meritorious Service Citation

- Recognizes IEEE members who are past members of the EAB or current or past members of EAB Committees (other than currently serving on ARC) for outstanding and sustained service to the aims and objectives of the IEEE Educational Activities Board. The award consists of a brass and walnut plaque.

IEEE EAB Employer Professional Development Award

- recognizes organizations employing IEEE members for contributions to employee continuing education and professional development. The award consists of a brass and walnut plaque.

IEEE EAB Section Professional Development Award

- Recognizes IEEE Sections for major contributions to IEEE Members in the areas of life-long learning, continuing education and professional development. The award consists of a brass and walnut plaque.

IEEE EAB Vice President's Recognition Award

- The EAB Vice President's Recognition Award was established in 2001 by the IEEE Educational Activities Board to give the Vice President for Educational Activities an opportunity to recognize IEEE Members or organizations that have had a significant and substantial effect on the practice of engineering and of engineering education related to the mission of the EAB. The award consists of a brass and walnut plaque.

R10 EAC Award Proposal

Any category of the EAB Award may be considered for the R10 EAC Award.

Instruments of Award: Travel assistant to attend and participate in Region 10 Conference and a Certificate of Recognition presented during the Conference Banquet. Recipient for this regional award will be submitted for consideration of the EAB Award.

Deadline for nomination: 1 October of every year.

Nomination form may be accessed at:

<http://www.ieee.org/web/education/EABAwards/calls.html>

Committee Members 2008



1. Norman Mariun - chair
2. Fu Jiang Liao
3. Kal Da Kwack
4. Mohd Nasir Taib
5. Sangkarappan Salivahanan
6. Zia Ahmed



Region 10 EAC Action Plan for 2008

- Support a continuing education program for at least 5 Sections.
- Support a technical colloquium or symposium for at least 5 Sections.
- Carry out a TISP program in cooperation with a host Section in the region.
- Support an Accreditation Program in at least 1 country – Thailand.
- Facilitate at least 1 EAB award recipient from the Region by creating EAC awards by the Region.

R10 EAC 2008 Budget

| No | Activity | Budget (USD) |
|----|--------------------------------|--------------|
| 1 | Technical Educational Program | 4,000 |
| 2 | Soft Skill Educational Program | 3,000 |
| 3 | Accreditation Program | 0* |
| 4 | TISP Program | 1,000 |
| 5 | EAC Meeting | 1,000 |
| 6 | Awards | 500 |
| | | 9,500 |

*Accreditation program funding will be requested from IEEE EAB

Bid for Support Fund for 2008

Call for proposal to bid for the EAC support fund was made on 7 January 2008 via the R10 Section Chair mailing list and the R10 website. The deadline is 29 January 2008.

The committee has received 13 proposals.

- 9 Technical Seminar/ Symposium/ Course/Tutorial**
- 1 Soft skill programme**
- 1 TISP programme**
- 2 student programmes**

Technical Program Supported

| No. | Entity | Description | Date | Expected Participants | Budget | Approved Budget |
|-----|-------------------------|---|---------------------------------------|-----------------------|------------|-----------------|
| 1 | Western Australia | Forum #1: Green IT Forum #2: 4E4U | Mid 2008 Mid 2008 | 50-100 50-100 | 900 | 700 |
| 2 | Taipei - CAS | Membership promotion - brochures 3 Short Courses | | | 500 500 | 500 |
| 3 | Madras - WIE | WIE – Design Competition | Aug 2008 | 50 | 1000 | 300 |
| 4 | Malaysia – PELS/IAS/IES | NEMDAs – sponsors 6 speakers' travels | | 600-1200 | 1000 | 600 |
| 5 | Madras Section | Faculty Development Program | Jul, 19-20, 26-27, Aug 2-3 2008 | 120 | 1000 | 600 |
| 6 | Korea - SMC | 2008 Symposium – 5 speakers | 23 Feb 2008 | 50 | 1000 | 500 |
| 7 | Korea Seoul Section | Let's to know industry | 7-8 Mar 2008 | 100 | 1000 | 700 |
| 8 | Sri Lanka Section | Seminar Renewable Power Generation | 26 April 2008 | ~ 40 | 1000 | 500 |
| 9 | Malaysia - RAS | Short Course on Robotic and Automation | 23-24 Jun 2008 | 40 | 1000 | 500 |

Soft Skill Program Supported

Only 1 chapter submitted proposal under this program for soft skill development ie from Malaysia PES chapter.

Date of event August 2008 and expected to have 44 participants and the chapter requested USD900 and the committee approved USD600 only.

TISP Proposal Supported

EduSoc Chapter Malaysia again proposed a 2-days TISP program to be held in September 2008.

The expected participants are teachers from secondary schools around Kuala Lumpur.

Budget requested for is USD 1000 and the committee approved USD600.

Accreditation Program

The IEEE Region 10 EAC would work with AEESEAP and local Accreditation Institution/Body to organize a Workshop on National and International Engineering Program Accreditation Process so that the signatory countries may share experience and becomes sponsors and mentors to the accreditation process.

The committee has identified Thailand as the country to be focus on since it is going to be WA signatory in 6 years time.

The committee is waiting for further proposal from Thailand to proceed. The contact person is Dr Tuptim Angkaew.

Terima kasih
Thank you