



IEEE

IEEE Malaysia Section Newsletter

APR – JUNE, 2017

eISSN: 2590 - 3608



Kuala Lumpur, Malaysia
Berjaya Time Square Hotel
18|19 SEPT 2017

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IEEE Malaysia Section Newsletter: Q2 / Apr – June, 2017

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IEEE Malaysia Section Newsletter

Message From the Editor



The second edition of 2017 IEEE Malaysia Section newsletter covers activities which have been conducted between month of April to June, 2017. In this Q2-2017 issue, we are proudly announced that the IEEE Malaysia Section Newsletter has move forward one more step, in which the eISSN has been obtained for the publication. By having this serial number, we hope that the newsletter will be valued more and the publication can be placed at par with other reputable newsletter that available in this region.

This issue also highlights on individuals who have made good records directly and indirectly to the Section, Chapter, affinity group and student branch where they belong. The positive commitment and proactive attitude that have been demonstrated by them especially in regards to volunteering their time and energy for the benefits of the technology, society and humankind are truly inspired.

In addition, Section activities include the IEEE senior member elevation workshops, education activities and the IEEE Malaysia Section Final Year Project Competition. We also received 11 reporting articles from Technical Chapters, 2 articles from Sarawak Subsection and Women In Engineering (WIE) Affinity Group and 3 reporting articles from Student Branches. Thank you to all the submitters. The number of submissions are declining as compared to previous issue. We hope this matter can be improved for future issue. To the rest, Happy Reading!!!

Rosmiwati Mohd Mokhtar, Editor – IEEE Malaysia Newsletter

IEEE Malaysia Section Newsletter Senior Membership Elevation Workshops

Reported by Fawnizu Azmadi Hussin
Vice Chair of IEEE Malaysia Section

One of the initiatives to improve the member retention, Malaysia section has been conducting hands-on workshops for members to apply for their membership elevation to Senior Member. In 2017, the program was coordinated by Fawnizu Azmadi Hussin, Vice Chair of Malaysia Section who handles the membership development portfolio. In order to maximize the impact and opportunity to all members in Malaysia, which is a large section, a series of eight workshops had been planned throughout the country at six locations from north to south of peninsular Malaysia and two locations in east Malaysia (Sarawak). Each workshop is also jointly organized with the technical chapters. The details of all eight workshops are tabulated below.

Region (Venue Location)	Sponsors & Organizers	Date	Attendees
Central (Multimedia University)	Section & EDS chapter	14 March 2017	15 members
Sarawak (Curtin University, Miri)	Section & Sarawak Subsection	22 March 2017	6 members
Sarawak (Swinburne University, Kuching)	Section & Sarawak Subsection	25 March 2017	6 members
Northern (Universiti Teknologi Petronas)	Section & CIS Chapter	26 April 2017	10 members 1 non-member
Northern (Penang Skills Development Centre)	Section & ED/MTT/SSC Penang Joint Chapter	13 May 2017	6 members 1 non-member
Central (Universiti Malaya)	Section & PES chapter	20 May 2017	10 members
Northern (Universiti Malaysia Perlis)	Section & AP/MTT/EMC Joint Chapter	07 July 2017	TBD
Southern (Universiti Tun Hussein Onn Malaysia)	Section & SMC Chapter	22 July 2017	TBD

For the first six workshops, 53 members had attended. Most of the participants submitted their senior membership applications during the workshop, while others submitted a few days following the workshops. Based on the Senior Members Meeting Results announcements, 9 new senior members were elevated in February before the workshop was conducted. After the workshops were conducted, 21 and 26 new senior members were elevated in the April and June Admission & Advancement (A&A) Review Panel meetings, respectively. Even though not all applicants were coming from the workshops directly, many of them decided to submit their applications because of the promotional emails and flyers for the elevation workshops.

The workshops also provided a networking opportunities with the members, who are mostly senior engineers and academics in their respective fields. The engagement session provided an excellent avenue for section to recruit more active volunteers and improve membership retention. The members also mentioned two main reasons why they thought the workshops were useful. First, it gave them the time and opportunity to work on their application which they couldn't do otherwise because of their busy schedule. Second, the workshop provided opportunities for them to nominate the three required references.



IEEE Malaysia Section Newsletter Education Activities

Reported by Lee Yoot Khuan
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2017 IEEE R10 Educational Activities Grant

The IEEE Malaysia Section would like to extend their appreciation to the 14 project proposals that were received for consideration for IEEE R10 EA grant. There were 11 Education Outreach project type, 2 Continuing Education project type and 1 “unclassified”. The overall standards of project proposals were higher than previous years, which made decision-making process a difficult one, since each Section from the Asia Pacific Region (R10) has been requested to short-list only 5.

From results received from Zuhaina Zakaria, 2017 IEEE R10 Educational Activities Coordinator, it is our pleasure to announce the following proposals out of the 5 shortlisted from IEEE Malaysia Section and 37 shortlisted from R10, has been awarded a funding support.

Grant ID	Recipient	Project Title	Category	Fund Received
EA-2017-19	IEEE Malaysia Section/ IEEE OES Malaysia Chapter	Underwater Robotics for Search and Rescue Mission	Educational Outreach	USD300
EA-2017-20	IEEE Malaysia Section/ IEEE EMBS Malaysia Chapter	Assistive Technology Awareness for elderly group in Malaysia	Continuing Education	USD250
EA-2017-21	IEEE Malaysia Section/ IEEE EDS Malaysia Chapter	Electronics Magic!	Educational Outreach	USD200
EA-2017-22	IEEE Malaysia Section/ IEEE UKM IAS Malaysia Chapter	Bringing Robotics to the Masses	Educational Outreach	USD300

Once again, the IEEE Malaysia Section would like to thank all members for their time and effort in participating for this event. Our sincere apology to the other 9 worthwhile projects that were not shortlisted and hope they are able to obtain financial support from other sources. Meanwhile, it is encouraged for the Chapters to plan writing 2018 EA grant now.

IEEE Malaysia Section Newsletter Education Activities

Reported by Hussain Mahdi
Edited by Lee Yoot Khuan

EA-2017-22: Bringing Robotics to the Masses

"We are given two hands; One for helping ourselves and another for helping others"

The EA project was officially launched by Datuk Dr. Abu Bakar bin Mohamad Diah, Deputy Minister of Ministry of Science, Technology and Environment, on 24Mac2017. It is a joint effort between IEEE (EA of Malaysia Section, ComSoc, SIGHT, IAS and YP) and National University of Malaysia (Kolej Rahim Kajai, Kolej Dato' Onn and Kolej Tun Syed Nasir). Its objective is to educate and engage secondary school students in Robotics. Robotics sets are on loan to participating schools and adequate training is given to teachers to facilitate Robotics in class.



Project Milestone 1 (11-13/5/2017) was inaugurated at Sekolah Kebangsaan Teluk Wang Besar, Sungai Petani, Kedah, by Hussain Mahdi and Rosslee Rajikan. In addition to Robotics education, CSR activities, sports activities and barbecue dinner were organized to engage with the community at Sungai Petani. The project was commemorated with closing ceremony by YB Senator Dato' Shahanim Mohamad Yusoff, Member of the State Council and Vice Chairman of Sungai Petani Umno division.



Project Milestone 2 (14-15/6/2017) was conducted at Sekolah Kebangsaan Orang Kaya Ali, Sungai Balang, Johor. Moreover, in conjunction with the holy month, we distributed Ramadan food packs for the needy community at Sungai Balang.



IEEE Malaysia Section Newsletter Student Activities

Reported by Noor Ain Kamsani
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2017 IEEE Malaysia Final Year Project Competition

IEEE Malaysia Section invites Electrical / Electronic / Computer Engineering Students to participate in **2017 IEEE Malaysia Final Year Project (FYP) Competition**. It is dedicated to Undergraduate students who just completed or currently undertaking their Final Year Project in Malaysian Universities / Institutions. This event is co-organised with IEEE UNITEN SB.



IEEE Malaysia Final Year Project Competition
register now **Submission Deadline: 31st July**
Register via: <https://goo.gl/forms/WYHNr1R9xMiyLFU22>

Organized by:
FYP COMPETITION **IEEE MALAYSIA SECTION**

For more information, please contact us at: ieeonlinefyp2017@gmail.com

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sponsored by IEEE PES Chapter

Track 2: Telecommunication

sponsored by IEEE Comsoc/VTS Chapter

Track 3: Electronics

sponsored by IEEE CAS Chapter

Track 4: Computational Intelligence

sponsored by IEEE CIS Chapter

Track 5: Signal and Image Processing and Analysis

sponsored by IEEE SPSoc Chapter

Track 6: Under Water Systems and Under Water Robotics

sponsored by IEEE OES Chapter

Track 7: Biomedical Engineering

sponsored by IEEE EMBS Chapter

Track 8: Electron Devices/Microwave Theory & Technique/Solid-State Circuits

sponsored by IEEE ED/MTT/SSC Penang Chapter

Track 9: Control & Systems

sponsored by IEEE CSS Chapter

IEEE Malaysia Section Newsletter

Profile Highlights

Professor Dr. Borhanuddin bin Mohd Ali

Personal Information

Borhanuddin Mohd Ali obtained his BSc (Hons) Electrical and Electronics Engineering from Loughborough University in 1979; MSc and PhD from University of Wales, Cardiff, UK, in 1981 and 1985, respectively. His research interest spans wireless communications including wireless sensor networks and IoT, wireless resource management, mobility and broadband wireless technology encompassing 4G and 5G. He published over 140 papers in Scopus indexed journals and over 170 Scopus indexed conference papers. He is now on contract service at UPM, after having retired in 2016.



Career Development

He became a lecturer in UPM in 1985, promoted to Assoc Professor in 1993, and full Professor in 2002. He served at various positions in UPM and external organizations at senior management level. He is a Senior Member of IEEE and a member of IET and a Chartered Engineer. He served as the ComSoc Chair over several years in early 90s, at a time when the members of ComSoc are few and far between. He also served at various positions in ComSoc Asia Pacific Board, in which he is now the Liason Officer.

Later he shifted his focus to the IEEE Section and first served IEEE as a committee member in the late 90s, became the Vice Chair in 2002, and then the Chair 2003-2004. He also served as the IEEE Region 10 Coordinator for Meeting and Conferences in 2011, and now the Vice Chair of Professional Activities Committee. His biggest contribution was when he organized the much-acclaimed International Conference on Communications (ICC16) at Kuala Lumpur, as the Executive Co-Chair. ICC is one of the flagship conferences of the Communications Society with an average attendance of 2000 people and 1000 papers.

IEEE Award Winner

He was awarded IEEE Malaysia Outstanding Volunteer Award 2009-2010, and was part of the ComSoc Excom which won multiple international achievement awards over the period of 2013 to 2016. For example, ComSoc Best Chapter Award for 2014 & 2016; Best Chapter in Asia Pacific in 2013, 2014, 2016; and Best Chapter Vehicular Technology Society award 2013 and 2016, and Malaysia Chapter of the Year, 2002, 2014 (jointly held with another chapter) and 2016.

How IEEE Benefits Me and My Career Development?

IEEE provides me with an ideal platform to expand my networking with like-minded people from all over the world, people who have contributed to the advancement of the technology. The publications and conferences have been constantly rated as the top in their respective disciplines, while the conferences attract some of the best minds in the discipline, to present their findings and share their thoughts.