



2022 NEWSLETTER
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EDITION

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MESSAGE FROM THE NEWSLETTER EDITOR



It's our pleasure to release the Q3 issue of the 2022 IEEE Malaysia Section newsletter. This issue covers activities which have been conducted between the month of July to September 2022. In this issue, we highlighted all achievements from our members throughout this year. Section also received reporting articles from Subsections, 15 Technical Chapters and 2 Student Branches. On behalf of IEEE Malaysia Section, I would like to thank all who have contributed the reporting articles to this edition. I hope that you find this newsletter informative and useful. Looking forward to your continued support in the newsletter activities. If you have suggestions or comments, you can contact me at nurashida606@uitm.edu.my. Thank you and kind regards.

Nur Ashida Salim
Editor

IEEE Malaysia Newsletter 2021- 2022

CONGRATULATIONS

to

Assoc. Prof. Dr. P. Suthitha Menon



for receiving the

IEEE EDS Educational Fund

worth **USD2500** for the project

Electronics in Coding and Robotics

Congratulations

DR HAROON RASHID



for receiving the

**IEEE R10 YOUNG
PROFESSIONALS STUDENT-YP
JOINT ACTIVITY FUND 2022**

CONGRATULATIONS

to

Assoc. Prof. Dr. P. Suthitha Menon



for being appointed as

**Chair of Women in Electron Devices
Society (WiEDS)**

&

**IEEE EDS Board of Governors member
2021-2023**

Congrats!



UNIVERSITI KEBANGSAAN MALAYSIA
STUDENT BRANCH



IEEE
MMU STUDENT BRANCH



IEEE UPM STUDENT BRANCH

FOR RECEIVING THE

**IEEE REGIONAL EXEMPLARY
STUDENT BRANCH AWARD 2022**



CONGRATULATIONS

TO

ASSOC. PROF. DR. JASRONITA JASNI

&

PROF. IR. DR. MOHD ZAINAL ABIDIL AB KADIR



FOR RECEIVING THE
**2022 IEEE
HAC/SIGHT
PROJECT FUNDING**



FOR THE PROJECT

**"Sustainable Aquaponic System Integrated with
Independent Power Supply and Solar
Photovoltaic System (22-HAC-116)"**

worth USD 5,000

CONGRATULATIONS

TO

**ASSOC. PROF. TS. DR. JASRUL JAMANI JAMIAN
&
TS. DR. ZULKARNAIN BIN AHMAD NOORDEN**



FOR RECEIVING THE
**2022 IEEE
HAC/SIGHT
PROJECT FUNDING**



FOR THE PROJECT

**"Installation of Solar Photovoltaic Distribution
Network at Kampung Pucur, Johor (22-
HAC-138)"**

worth USD 5,000

IEEE Malaysia Section Newsletter

IEEE Malaysia Kuala Lumpur Subsection

Reported by: Mohd Ibrahim Shapiai; Khairul Zahreen Mohd Arof; Sarah Iqbal, Nelidya Md Yusoff, Sathiabama T Thirugnana, Pritheega a/p Magalingam, Haslina Md Sarkan (md_ibrahim83@utm.my; khairulzahreen@gmail.com; s.iqbal@siswa.um.edu.my; nelidya.kl@utm.my; sathiabama@utm.my; mpriheega.kl@utm.my; haslinams@utm.my)

Professional Development Event UM 2022



IEEE Malaysia KL subsection and IEEE UM Student Branch had successfully organized a membership drive on 6th July 2022 at the Faculty of Engineering, Universiti Malaya. “Stand Taller in Career with IEEE” was organized under the grant awarded by IEEE R10 MDC 2022 Project. The event was supported by IEEE Malaysia Communications & Vehicular Technology Joint Chapter and IEEE Young Professionals Malaysia.

The main objective of the event was to equip the young graduates with the tool kit which will help them to develop and build the characters they need for their professional growth. The first speaker, Dr Faiz Zaki (Researcher at Network Analytics Lab, Universiti Malaya) presented a seminar on “How to Speak: Delivering Effective Presentation” followed by Mr M. Razlan Dhamir Hamdan (CEO & CTO at Aphelia, a space start-up) who motivated the attendees with his seminar entitled “From Researcher to starting a Deep-tech Space Start-up”. Lastly, the IEEE membership benefits and its impact on the professional lives of the young graduates was discussed by the renowned IEEE volunteers including Dr. Haroon Rashid (Chair, IEEE YP Malaysia), Prof. Ts. Dr. Norliza Mohd Noor (Chair, IEEE Malaysia KL subsection) and Ts. Khairul Zahreen Mohd Arof (Coordinator, Student Activities & Humanitarian Activities, IEEE Malaysia KL subsection).

Dr Fawnizu Azmadi Hussin (Vice Chair, IEEE Malaysia KL subsection) and Prof. Dr. Mohamad Yusoff Alias (Chair, IEEE Malaysia ComSoc/VTS Joint Chapter 2022) also honored the event by their presence. These volunteers not only spread the awareness and information related to IEEE but also provided an opportunity for the students to interact and ask questions during the networking session.

The event was broadcasted live on IEEE Malaysia ComSocVTS Joint Chapter YouTube channel and Facebook pages of IEEE Malaysia Section, IEEE Malaysia Kuala Lumpur Subsection and IEEE Malaysia Communications & Vehicular Technology Joint Chapter.

Educational Activity: Ask Dr Solar

On 24 August 2022, Universiti Teknologi Malaysia (UTM), the Institution of Engineering and Technology (IET), and the IEEE Malaysia Kuala Lumpur Subsection, collaborated to organize a STEM program called Ask Dr. Solar!. The workshop was held physically at Sek. Keb. Bandar Bukit Mahkota with 400 participants in total (a combination of students in Standard 5 and Standard 6). The speaker for this workshop was Assoc. Prof. Dr. Nelidya Md. Yusoff from UTM.



The carnival started with some knowledge sharing on the solar power system followed by the demonstration of the solar home kit. Then, the students were given the solar fan and solar car to be assembled based on the manual book provided. Finally, they tested their solar fan and solar car under three different conditions with different sunlight exposure to observe the changes in speed for both the solar car and solar fan. The aims of this workshop were to transfer electrical engineering knowledge and skills to primary students, hoping that they empower themselves to be sustainable to implement electrical engineering concepts, principles, and application/practice in their daily life and problem-solving activities to tackle the dullness issues of STEM. Through pre and post-project questionnaire surveys and observation analysis conducted, the findings demonstrated that the students have positively improved electrical engineering knowledge and interest in pursuing this area. The workshop started at 9 am and ended at 3 pm.

IEEE Malaysia Section Newsletter

IEEE Malaysia Kuala Lumpur Subsection

Reported by: Mohd Ibrahim Shapiai; Khairul Zahreen Mohd Arof; Sarah Iqbal, Nelidya Md Yusoff, Sathiabama T Thirugnana, Pritheega a/p Magalingam, Haslina Md Sarkan
(md_ibrahim83@utm.my; khairulzahreen@gmail.com; s.iqbal@siswa.um.edu.my; nelidya.kl@utm.my; sathiabama@utm.my; mpitheega.kl@utm.my; haslinams@utm.my)

Industrial Talk - Webinar



INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
INDUSTRIAL TALK
"ENTERPRISE AI: THREE WAYS TO SUCCESS"
Date: 29th September 2022 | Time: 2.30pm - 4.00pm

SCAN ME! to join
<https://bit.ly/IEEE-WEBINAR-SEPTEMBER-2022>

AP. TS. DR. MOHD IBRAHIM
Moderator

DR AFNIZANFAIZAL ABDULLAH
CEO & Co-founder,
Synapse Innovation Sdn. Bhd

Organiser: **KLIEEE MALAYSIA SUBSECTION**
Co-organiser: **CAIRO UTM KL**

On 29th September 2022, IEEE Malaysia Kuala Lumpur Subsection conducted an industrial webinar talk in collaboration with CAIRO UTM KL through the online platform Webex. This time around, the talk was delivered by Dr. Afnizanfaizal Abdullah, CEO, and Co-Founder of Synapse Innovation Sdn. Bhd. The talk, entitled "Enterprise AI: Three Ways to Success," highlighted the main key components to succeed in enterprising the AI platform, which involves many aspects and various professional teams such as data scientists, data engineers and etc. In total, 30 participants from different institutions and organizations attended the one-hour talk moderated by Assoc. Prof. Ts. Dr. Mohd. Ibrahim Shapiai. Of the 30 participants, 14 are IEEE members, whereas 16 of the participants are non-members of IEEE.

IEEE Awareness & Educational Program

Kuala Lumpur, 26th September – The UTM Ocean Thermal Energy Centre (UTM OTEC) and IEEE Malaysia Kuala Lumpur subsection recently organized a face-to-face STEM workshop entitled 'Harvesting Ocean Thermal Energy & Building Your Own Seawater Fuel Cell' at Sekolah Menengah Kebangsaan (SMK) Vivekananda in Brickfields, Kuala Lumpur. This was in conjunction with the Minggu Sains Negara (MSN) 2022.

Prior to the physical workshop at the school, a virtual 'TOT (Train of Teachers) STEM' workshop was held on 20th September 2022. 3 Science teachers were trained to use the STEM toolkit to harvest ocean thermal energy and build their seawater fuel cells during this virtual workshop. A total of 100 science stream students attended the half-day in-person physical workshop.

Prof Norliza gave a talk on IEEE awareness to the students, a presentation about IEEE and its benefits, standards and article publications and membership needs in the science and technology fields, which was followed by a quiz session. Students actively participated in the quiz and won valuable prizes. All the parties were pleased with the results and agreed that secondary school students should be taught about new technology development to solve engineering problems. Students fully participated in the hands-on activity and question-and-answer session as a result of the workshop. 2 IEEE members were involved in this program.





IEEE Malaysia Section Newsletter

IEEE Sabah Subsection

Reported by: IEEE Sabah Subsection



4th IEEE International Conference on Artificial Intelligence in Engineering and Technology (IICAET2022)

IEEE Sabah Subsection in collaboration with Faculty of Engineering (FKJ), Universiti Malaysia Sabah (UMS) had successfully held the 4th IEEE International Conference on Artificial Intelligence in Engineering and Technology (IICAET 2022) this September. The IICAET conference series has gained interests from scholars, researchers, academicians, professionals and students in the Asia-Pacific Region, covering all technical areas related to Artificial Intelligence (AI). This year, IICAET is celebrating 20th anniversary where the first conference was held in 2002, co-organized by Artificial Intelligence Research Unit (AiRU) and UMS. ICAIET was subsequently held biannually in 2004 and 2006. With the establishment of IEEE Sabah Subsection in 2018, ICAIET was then rebranded with IEEE sponsorship. It was subsequently held in 2020 before changing into annual event in 2021. During the opening ceremony, UMS Deputy Vice-Chancellor (Research and Innovation), Prof. Ir. Dr. Rosalam Sarbatly and FKJ Dean, Assoc. Prof. Ts. Dr. Ismail Saad had visited the event physically and congratulated IICAET 2022 to mark their historical moment of receiving the most paper submissions in IICAET history this year.

IICAET 2022 has received 250 papers submitted for technical peer review and total of 134 accepted papers were presented orally in 27 technical sessions during 13 to 15 September 2022. The conference chair of IICAET 2022 and current IEEE Sabah Subsection chair, Assoc. Prof. Dr. Kenneth Teo Tze Kin also wished to acknowledge the contribution of the esteemed keynote speakers in sharing their knowledge with the participants. It is an honour to have three keynote speakers, namely Prof. Dr. Mehdi Bennis (University of Oulu, Finland); Prof. Dr. Sazali Yaacob (University Kuala Lumpur Malaysian Spanish Institute, Malaysia); Assoc. Prof. Ir. Dr. Rosdiazli Ibrahim (Universiti Teknologi PETRONAS, Malaysia) and one technical speaker, Dr. David Leal-Ayala (Policy Links (Institute for Manufacturing), University of Cambridge, United Kingdom) being invited to IICAET 2022 to share their knowledge in AI technologies.



PROF. IR. DR. ROSALAM SARBATLY

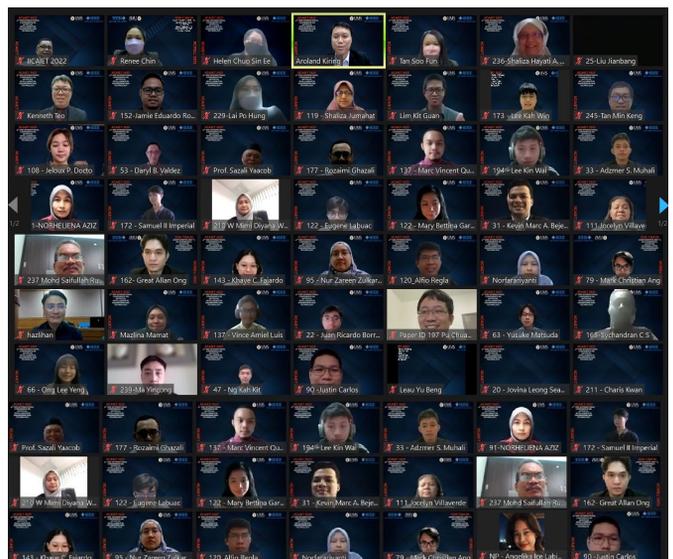
IICAET 2022

KEYNOTE SPEAKERS

- PROF. DR. MENHDI BENNIS**
UNIVERSITY OF OULU FINLAND
"THE ENLIGHTENED AND COMMERCIALY EFFICIENT ML LOVERS AND FOR WISER"
- PROF. DR. SAZALI YAACOB**
DEAN, AI RU
"AI FROM INCEPTION TO APPLICATIONS AND FUTURE"
- A.P. IR. DR. ROSDIAZLI IBRAHIM**
UNIVERSITI TEKNOLOGI PETRONAS MALAYSIA
"ARTIFICIAL INTELLIGENCE RESEARCH UNITS IN OIL AND GAS INDUSTRIES"

TECHNICAL SPEAKER

- DR. DAVID LEAL-AYALA**
POLICY LINKS (INSTITUTE FOR MANUFACTURING), UNIVERSITY OF CAMBRIDGE, UNITED KINGDOM
"INDUSTRY 4.0 AND ITS ADOPTION IN THE ASIA AND PACIFIC REGION"



IEEE Malaysia Section Newsletter AP/MTT/EMC Joint Chapter

Reported by Azah Syafiah Mohd Marzuki
azahsyafiah@ieee.org

Q3 2022 Technical Webinars



HYBRID WEBINAR EVENT
AP/MTT/EMC Webinar Series
"Overview of Electromagnetic Selective Structures"

SPEAKER:
Prof. Shen Zhongxiang
School of Electrical & Electronic Engineering,
Nanyang Technological University,
Singapore.
15 June 2022 (Wednesday)
Registration Link: shorturl.at/cjtxW

PLATFORM:
11.00 - 1.00 PM (MYT, GMT +8)

Venue: Tutorial room 10/Smart classroom
P19a Level 5 School of Electrical Engineering



AP/MTT/EMC Webinar Series
IEEE AP-S Young Professional Ambassador Talk (Virtual)
"Advanced Fabrication Techniques for Antennas beyond 5G"

SPEAKER:
Dr. Syeda Fizzah Jilani
Lecturer in Radio Spectrum Physics,
Department of Physics
Aberystwyth University
Registration Link: shorturl.at/gpDQG
28 July 2022 (Thursday)

PLATFORM:
3.30 pm - 4.30 am (MYT, GMT +8)



AP/MTT/EMC Webinar Series
"A Memorable Journey with HAC Grants"

SPEAKER:
Assoc. Prof. Dr. Fauziahnim binti Che Seman
Associate Professor,
Principal Researcher of Applied Electromagnetic Research Center (EMC), Institute of Integration Engineering,
Universiti Tun Hussein Onn Malaysia.
Registration Link: shorturl.at/jpTX7
17 August 2022 (Wednesday)

PLATFORM:
10.00 am - 11.30 am
(MYT, GMT +8)



AP/MTT/EMC Webinar Series
"The Journey and Outcome of IEEE HAC/SIGHT Projects"

SPEAKER:
Ir. Ts. Dr. Saidatul Norlyana Azemi
Associate Professor,
IEEE Link-AP Student Branch Counselor,
Faculty of Electronic Engineering Technology,
Universiti Malaysia Perlis
Registration Link: shorturl.at/hmU28
14 September 2022 (Friday)

PLATFORM:
10.00 am - 11.00 am
(MYT, GMT +8)

2022 Recognition

Congratulations to our Past Chair, Assoc Prof Dr Fauziahnim Che Seman who has published her article on 'Women in Microwave' in IEEE Microwave Magazine, Sept 2022!



AP/MTT/EMC Joint Chapter Malaysia is the recipient for the 2020 IEEE Antennas and Propagation Society Outstanding Chapter Award. The award was presented during IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting at Denver, Colorado, USA on July 13-14, 2022.

Chapter CSR



25 Aug 2022 - Joint collaboration project on 'Rumah Lestari' between IEEE Malaysia AP/MTT/EMC Joint Chapter and Fakulti Teknologi Kejuruteraan Elektronik UniMAP. The team installed IOT system lead by PM Ir. Dr. Rashidi Che Beson.

RFM2022

The 9th edition of RFM will be held in Kuala Lumpur, from 19 – 21 December 2022. Do visit our website for the details:

<https://rfm2022.apmttemc.org/>

Connect with Us



Our Official Communication Channel

URL www.apmttemc.org

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MalaysiaChapter

LINKEDIN <https://bit.ly/2QSpZfW>

LINKEDIN IEEE Malaysia AP/MTT/EMC
Joint Chapter

YOUTUBE [IEEE MY APMTTEMC](https://www.youtube.com/channel/UC...)



IEEE Malaysia Section Newsletter

IEEE Computational Intelligence Society (CIS)

Reported by: Hermawan Nugroho (hermawan.nugroho@nottingham.edu.my), Ibrahima Faye (ibrahima.faye@utp.edu.my)

7th INNOVATIVE RESEARCH, INVENTION AND APPLICATION EXHIBITION (i – RIA) 2022

The 7th Innovative Research, Invention and Application Exhibition 2022 was an exhibition organized by Universiti Utara Malaysia (UUM) and co-organized by Universiti Tun Hussein Onn Malaysia (UTHM) on 9 August 2022.

IEEE CIS Malaysia Chapter has sponsored a special award for entries of the exhibition related to CIS topics in form of certificates and cash prizes of RM 200 (Champion), RM120 (runner-up) and RM80 (Second runner-up). The results are,

- **Champion:** M. Danial Fitri, Akmal Syafiq, Ahmad Saifuddin, M. Ammar, Zhamri Che Ani (Project: Rogue Data Rectification System (RDRS) For Practicum).
- **First Runner Up:** Nurul Izrin, Hadhrami, Zairul Mazwan (Project: Long-Short Term Memory (LSTM) - Formal Concept Analysis (FCA) Explainable AI Model)
- **Second Runner Up:** Wei Jun Shong, M. Farhan (Project: Whatsapp Analyser).

The exhibition was held virtually and have attracted 158 participants from 3 categories: Higher Institution Students (115), open category (15) and school students (28).



AWARD SPONSORS



Call for Papers - International Conference on Digital Transformation and Intelligence 2022 (ICDI 2022)

IEEE CIS Malaysia Chapter is the Technical Co-Sponsor for ICDI 2022. The conference is part of The World Engineering, Science and Technology Congress (ESTCON) 2022 and organized by the Department of Computer and Information Sciences, Universiti Teknologi PETRONAS (UTP) and will be held in Borneo Convention Center, Kuching, Sarawak on 1-2 December 2022. The primary goal of the conference is to promote research and development activities in Computer Science, Information Technology and Information Systems.

ICDI 2022 aims to discover the sustainability impact and challenges of Digital Transformation with its main pillars such as the Internet of Things, big data analytics, cyber-physical systems and cloud computing on the development of digital technologies and solutions for sustainable future

Interested authors are invited to submit their full manuscript at the following link : <https://uevent.utp.edu.my/estcon-2022/icdi-papers>. All accepted and presented papers will be submitted to IEEE Xplore.

IMPORTANT DATES

Deadline for Paper Submission	Notification of Acceptance	Registration Deadline	ESTCON 2022
30 Sep 2022	15 Oct 2022	31 Oct 2022	1-2 Dec 2022



WORLD ENGINEERING, SCIENCE & TECHNOLOGY CONGRESS
International Conference on Digital Transformation and Intelligence
BORNEO CONVENTION CENTRE KUCHING (BCC), SARAWAK 11-2 DEC 2022

ICDI 2022

formerly known as International Conference on Computer & Information Science (ICCOINS)

IEEE Malaysia Section Newsletter

IEEE Malaysia ComSoc/VTS Joint Chapter

Reported by: Mohamad Yusoff Alias, Multimedia University (MMU)
Fatimah Zaharah Ali, Universiti Teknologi MARA (UiTM)

Stand Taller in Career with IEEE 6th July 2022



IEEE Malaysia Kuala Lumpur Subsection and IEEE UM Student Branch in collaboration with IEEE Young Professionals Malaysia and IEEE Malaysia Communications & Vehicular Technology Joint Chapter organized the IEEE Malaysia Professional Development Event UM 2022 "STAND TALLER IN CAREER WITH IEEE" on Wednesday 6th July 2022. The event is supported by IEEE Region 10 (Asia-Pacific Region) Membership Development Committee (MDC).

V2X Seminar Series: A holistic design of vehicular networks: communications, blockchain security and Internet-of-Things (IoT) 26th July 2022

V2X Seminar Series: A holistic design of vehicular networks: communications, blockchain security and Internet-of-Things (IoT)

Speaker: Dr. Zhengguo Sheng, University of Sussex, UK.

Date: 26th July 2022 (Tue)

Time: 11am- 12.30pm

Physical Venue: Smart Classroom, Tutorial Room 10, Level 5, P19a, School of Electrical Engineering, UTM

Online: Zoom

Industrial Visit to HUAWEI CSIC (Customer Solutions and Innovations Centre) 24th August 2022



Approximately 14 participants consisting ComSoc/VTS committees and members joined the visit in Huawei Customer Solution Innovation Centre (CSIC), Jalan Tun Razak, Kuala Lumpur.

IEEE Malaysia Section Newsletter

IEEE Dielectrics and Electrical Insulation Society (DEIS)

Reported by: Ir. Ts. Dr. Wong Jee Keen Raymond, Universiti Malaya (wjkraymond@um.edu.my)

Lightning: Safety and Understanding

The Faculty of Electrical Engineering Technology, Universiti Malaysia Perlis in collaboration with IEEE DEIS Malaysia Chapter and R10 “reaching the local initiative” implemented a knowledge sharing with local community named “Lightning: Safety and Understanding” and in local terms Kilat: Pemahaman dan Keselamatan. Most of the community live near the paddy field and are highly exposed to lightning threats. However, the community lack knowledge in lightning safety and protection. With the explanation of lightning safety and protection, the community will be able to understand the importance of lightning protection and what should be done during a lightning thunderstorm.



Research & Innovation Engineering Day 2022

The Research and Innovation Engineering Day 2022 (RADIATE 2022) was organized by Faculty of Electrical Engineering (FKE), Universiti Teknikal Malaysia Melaka (UTeM) on the 15 Jun 2022. The Malaysia IEEE Dielectrics and Electrical Insulation Society (DEIS) committee members would like to congratulate Group S1-1 on receiving the “Anugerah Khas Industri” sponsored by Malaysia IEEE Dielectrics and Electrical Insulation Society (DEIS) during the Research and Innovation Engineering Day 2022 (RADIATE 2022). Ts. Dr. Mohd Shahril Ahmad Khair (right) represented IEEE DEIS Malaysia Chapter to present the “Anugerah Khas Industri” to the representative from Group S1-1 IDP during RADIATE 2022.



Utilising Nanoparticles for Liquid Insulation Applications

A research talk entitled “Utilising nanoparticles for liquid insulation applications” was delivered by Dr. Mohamad Zul Hilmey Makmud, from Universiti Malaysia Sabah (UMS) on 22nd September 2022. The talk was part of the research visit activities by Dr. Zul Hilmey at the Universiti Malaya High Voltage Laboratory (UMHVL) at the Department of Electrical Engineering, Faculty of Engineering, Universiti Malaya.



IEEE Malaysia Section Newsletter

IEEE Electronic Packaging Society (EPS)

Compiled by Bernard LIM

berna_rd@ieee.org

Panelist in “International Market Briefing: Business Opportunity with Malaysia”, organized by Greater Austin Asian Chamber of Commerce (GAACC)

(Compiled by Dr Eu Poh Leng)

This event is part of GAACC's initiative to connect Austin to International Markets in Asia and beyond. Dr Eu Poh Leng who is the Director of External Package Innovation in NXP Semiconductors, as well as the Vice Chairman of IEEE EPS Malaysia Chapter, was invited as one of the Panelists.

The event took place on the 27th of Sept 2022, from 5.30-7.30pm Austin time, at Indeed Tower Austin Texas. More than 30 guests were present to explore business and investment opportunities with Malaysia and to network with Miss Nadirah who is a Panelist from Malaysian Development Investment Authority (MIDA), as well as with Dr Eu based on her 25 years of working experience in NXP Semiconductor Malaysia and good understanding on Malaysia electronics industry environment through her strong network among IEEE Electronics Packaging Society members across Malaysia.

It was a very well-organized event by GAACC and excellently moderated by Mr Clifford Chiu with fireside chat-style discussion and networking. The organizer even have a Malaysian Chef to prepare delicious Malaysian-themed appetizers which was very heart-warming.



IEEE Malaysia Section Newsletter

IEEE Electronic Packaging Society (EPS)

Compiled by Bernard LIM

berna_rd@ieee.org

Technical Talk in Semicon Taiwan on Heterogeneous Integration for Autonomous Driving

10th June 2022

(Compiled by Dr Eu Poh Leng)

Multimedia University (MMU) Malaysia has organized a forum-style Webinar under "Real E&E Engineering Series", featuring Dr Eu Poh Leng who is the Director of External Package Innovation in NXP Semiconductors, as well as the Vice Chairman of IEEE EPS Malaysia Chapter. It was a light and easy Q&A session moderated by MMU lecturer Dr. Katrina D. Dambul from the MMU Engineering Faculty. This session has reached 650 MMU engineering students through MMU Facebook Live with 128 views.

The event took place on the 10th of June 2022, from 10-11am Malaysia time. The following questions were discussed under the topic of Advanced Semiconductor Packaging - Architect the Autonomous Car:

- Q1: How do you see the future of autonomous driving? It has been a hype for quite sometime but in terms of implementation it seems to be a bit slow.
- Q2: How does AI fit into the implementation of autonomous driving?
- Q3: How can an electronic engineer blend together with AI?
- Q4: How significant will be the electronic engineers in advancing autonomous driving?
- Q5: What would be the additional skills required for all electronic engineers to be part of the autonomous driving industries?
- Q6: A lot of people are looking at engineering as a difficult field. What would be the best way to convince them the importance of engineering especially in the advancement of autonomous driving in the future?
- Q7: What is the demand like for electronic engineers now especially in the autonomous driving industries?
- Q8: Would it be worth it for someone to take electronic engineering especially looking at the salary that they will be getting in the future?
- Q9: What is the trend now for hiring electronic engineers especially in Malaysia?
- Q10: Apart from the normal degrees, any other extra certification programmed that might be required of the engineers to be part of the autonomous driving industries?



Real E & E Engineering Series

Listen to the Industry Expert

Advanced Semiconductor Packaging: Architect the Autonomous Car

10 June 2022 (Friday)
10:00 a.m. - 11:00 a.m.

Upcoming E&E Engineering

Using Python in Engineering Applications

10 June 2022 (Friday)
11:00 a.m. - 12:00 p.m.

Dr. Tan Wool Haw | Dr. Eu Poh Leng | Moderator: Dr. Katrina Dambul

LIVE @mmumalaysiaiv | LIVE @mmumalaysia

collaboration with IEEE ELECTRONICS PACKAGING SOCIETY | NXP



IEEE Malaysia Section Newsletter

IEEE Electronic Packaging Society (EPS)

Compiled by Bernard LIM

berna_rd@ieee.org

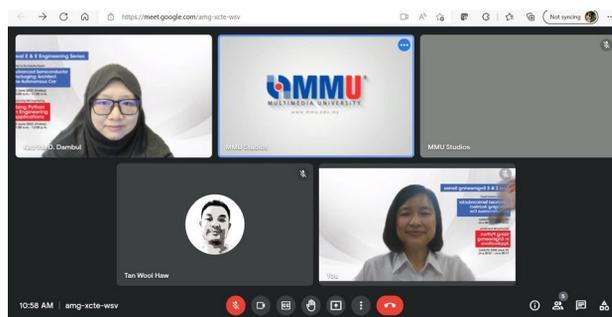
Technical Talk in Semicon Taiwan on Heterogeneous Integration for Autonomous Driving (con't)
10th June 2022

(Compiled by Dr Eu Poh Leng)

Dr Eu expounded on the key motivation for autonomous cars, which is to have better senses than the human driver through automation of driving decisions, ultimately making better decisions and achieving zero traffic related serious injuries and fatalities, which is also inline with the aim of Vision Zero. Autonomous car is basically running based on AI system which helps the car to see and sense the world, and steer clear of every hazard that might come their way. Engineers play very key roles in advancing autonomous driving, all the way from designing the right semiconductor chips to be used as radar, processor, etc, as well as car hardware, battery system, wiring system for safety & durability, to developing software solution and AI algorithms that links and enables all systems to function seamlessly. When talking about engineering is a difficult field, Dr Eu believes every field has its own challenges. Key is to be passionate in what we do, and we will sure be successful. As the world is focusing on Connectivity, Electrification and Autonomy driven by the Automotive Megatrend, there's no better time to be an engineer than NOW. There's huge job opportunity in various countries with good pay. For example, Malaysia has a full range of companies that support the entire semiconductor value chain, including semiconductor design houses, wafer fabrication factories, wafer level packaging factories, advanced semiconductor packaging and testing factories (e.g. NXP, Texas Instrument, Infineon, Intel, etc), semiconductor materials manufacturing factories (e.g. Mitsui leadframe, Showa Denko/Hitachi mold compound, Nitto mold compound, etc), semiconductor equipments manufacturing factories, automated test equipment manufacturers, and many more.

Lastly, regarding other skills and knowledge that fresh graduates should be equipped to be more ready for the semiconductor industry world out there, and to be part of the autonomous driving industries, Dr Eu shared the following guidance:

- Good understanding of semiconductor supply chain: both Front End and Back End processes and needs
- Statistical knowledge such as Design Of Experiment, Response Surface Methodology, DMAIC, etc
- AI knowledge such as Machine Learning and Deep Learning
- Simulation knowledge such as mechanical simulation, electrical simulation, thermal simulation, etc
- Program management skill such as how to manage a project effectively
- Leadership skill such as how to lead a team confidently
- Public speaking and public presentation skill such as how to share your ideas convincingly
- Be a team player, i.e., able to work well in a team, able to receive and follow instruction from a leader, able to go the extra mile, able to provide constructive ideas and bring solution to the table to help the team succeed
- Creative and positive thinking, i.e., able to think out-of-the-box, able to provide new and more efficient ways of doing a certain task, never take “no” as an answer until all means have been exhausted



IEEE Malaysia Section Newsletter

IEEE Electronic Packaging Society (EPS)

Compiled by Bernard LIM

berna_rd@ieee.org

Technical Talk in Semicon Taiwan on Heterogeneous Integration for Autonomous Driving 15th Sept 2022

(Compiled by Dr Eu Poh Leng)

Semicon Taiwan has invited Dr Eu Poh Leng as an invited speaker in a special session entitled “Heterogeneous Integration Global Summit 2022”. Dr Eu Poh Leng who is the Director of External Package Innovation in NXP Semiconductors, as well as the Vice Chairman of IEEE EPS Malaysia Chapter, has taken the opportunity to travel into Taiwan after her last trip which was 35 months ago before Covid started. It was a very fruitful experience where she provided a very good technical sharing and received many positive feedbacks from the attendees. She also took the opportunity at the end of her sharing to promote IEEE EPS as well as the upcoming IEMT Conference in Putrajaya Malaysia. Overall, Semicon Taiwan 2022 was a very well organized and well attended event.

The technical talk took place on the 15th of Sept 2022, from 3.30-3.55pm Taiwan time. It was well attended by over 150 physical attendees.

Right after the technical talk, Dr Eu joined 4 other speakers, who attended physically, in a Panel Discussion. The session was excellently moderated by Dr CP Hung from ASE, who is the Vice President and Co-Chairs of SEMI Taiwan Packaging and Testing Committee. The following 2 questions were discussed in great details:

1. What are the essential semiconductor integrating technology for the coming decade's automotive devices?
2. For the strong growing global new-vehicle's need on component / module / system, what is the challenge and suggestion to enable effective collaboration between gigantic supply chains of semiconductor and automotive industries?

With regards to the essential semiconductor technology for automotive devices in the coming decades, Dr Eu shared several examples which include more Flip Chip in terms of assembly processes, as well as more heterogeneous integration of different Si technology and discrete components, software defined vehicle, more advancement into smaller Si technology, more powerful processor compute for domain, zone and end nodes, wireless and wired integration such as ethernet.



Dr Eu also shared that key challenges for the strong growing global new-vehicle's need are wafer and material supply, as well as long equipment leadtime. Key focus is to ensure early planning and more than one source is qualified and released to production for supply assurance.



IEEE Malaysia Section Newsletter

IEEE Electronic Packaging Society (EPS)

Compiled by Bernard LIM

berna_rd@ieee.org

STEM Talk Series: STEM Youth Program - ASM Northern Region 24th September 2022

(Reported by Shaw Fong Wong)

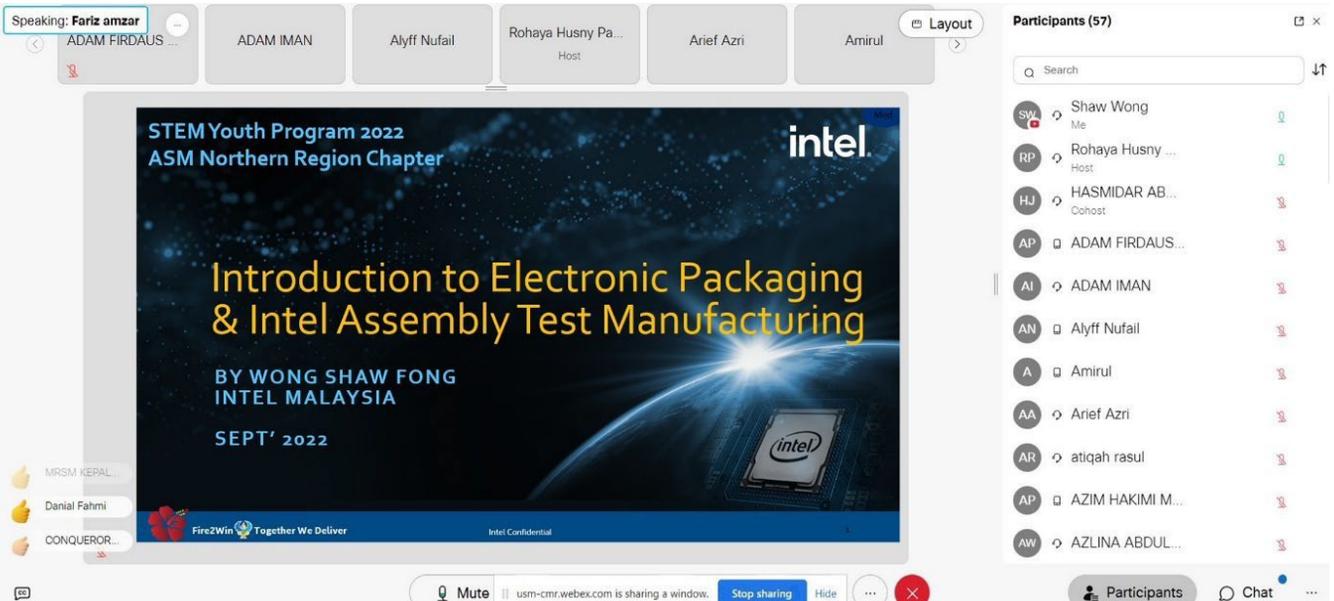
IEEE EPS Malaysia Junior Past Chair, Dr. Wong Shaw Fong was the invited speaker for the topic on “Introduction to Electronic Packaging & Intel Assembly Test Manufacturing”. This special online talk held on 24th September 2022 by Academy of Sciences Malaysia (ASM). This technical talk is part of the series session in supporting the STEM Youth Program 2022. Overall, 100 pax of students from 16 high schools have registered to the program and particularly total no. of registered participants for Project Theme of AI by Intel is 40 pax of students from 7 high schools. The inline sharing is also in partnership with ASM Northern Region Chapter with the objective to cultivate students' interest and drive passion towards engineering, science & technology (STEM). It serves as a platform for creation of knowledge and innovation skills as well as the initiative to increase student's interest and enrolment in STEM education within the young generations. Many interesting sub-topics such as various engineering disciplines with associated job opportunities were also discussed during the session.

STEM YOUTH PROGRAM 2022 ASM NORTHERN REGION CHAPTER

Organized by :



In Collaboration With

Speaking: Fariz amzar

Participants (57)

Initials	Name	Role
SW	Shaw Wong	Me
RP	Rohaya Husny Pa...	Host
HJ	HASMIDAR AB...	Co-host
AP	ADAM FIRDAUS...	
AI	ADAM IMAN	
AN	Alyff Nufail	
A	Amirul	
AA	Arief Azri	
AR	atiqah rasul	
AP	AZIM HAKIMI M...	
AW	AZLINA ABDUL...	

**STEM Youth Program 2022
ASM Northern Region Chapter**

Introduction to Electronic Packaging & Intel Assembly Test Manufacturing

BY WONG SHAW FONG
INTEL MALAYSIA

SEPT' 2022

Intel Confidential

Mute | usm-cmr.webex.com is sharing a window. | Stop sharing | Hide

Participants | Chat

IEEE Malaysia Section Newsletter

IEEE Electronic Packaging Society (EPS)

Compiled by Bernard LIM

berna_rd@ieee.org

Best Engineering Student Award (BESA) 2022: IEEE Electronic Packaging Society (EPS) Final Project Year Winner

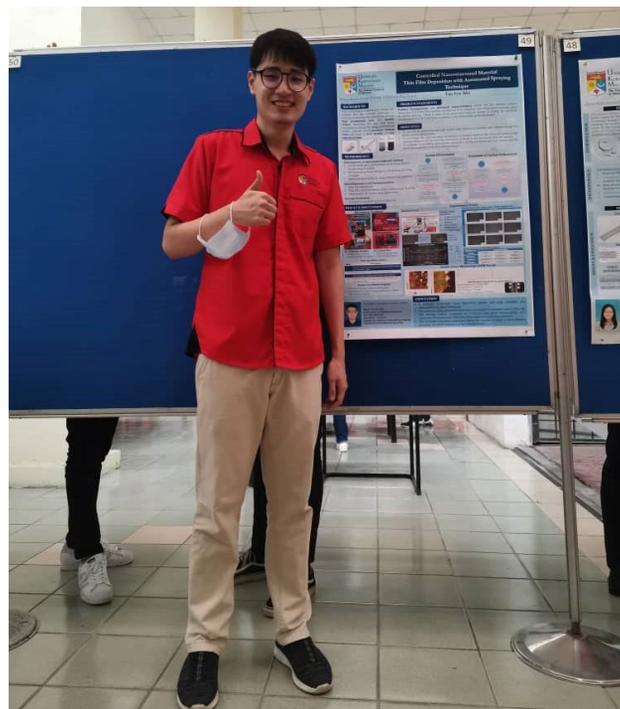
(Reported by DR Kim S Siow)

On 8th of September 2022, Tan Foo Wei, a Texas Instrument Engineer was awarded the “Best Engineering Student Award (BESA)”. For the past few years, IEEE Electronic Packaging Society (EPS) has been sponsoring BESA for undergraduate students to motivate them to do well in their Final Year Project (FYP). This year, Tan Foo Wei emerged a winner for his outstanding Final Year Project work titled “Controlled Nanostructured Material Thin Film Deposition with Automated Spraying Technique”. The project was supervised by Dr. Iskandar Yahya from the department of Electrical, Electronic and Systems Engineering (JKEES), Universiti Kebangsaan Malaysia. Tan won a total of RM3,000.

The motivation of Tan’s work is the variations in nanomaterials properties due to their high-demand structures, especially in thin film fabrication. Spray deposition is a promising low-cost technique that yields uniform thin film compared to others (ie: spin-coating, dip-coating, vacuum filtration, and chemical vapor deposition). However, the conventional manual airbrushing method are prone to human error, eventually leading to poor quality and low reproducibility of the thin film. His project developed an automated airbrush system with evaluated performance using single-walled carbon nanotubes (SWCNT) with outstanding optoelectrical properties as the study material. The project methodology was divided into four phases: i) system verification and development, ii) system parameters optimization, iii) thin film characterization, and iv) correlation study.



Picture: Project developments in the Laboratory



Picture: Tan Foo Wei in front of his poster presented at the Department of Electrical, Electronic and Systems Poster Day 2022.

Upon receiving the award, Tan expressed his gratitude to IEEE-EPS Malaysia for “Best Engineering Student Award (BESA) 2022”. Additionally, he would like to take this opportunity to convey his appreciation to his supervisor, Dr. Iskandar Yahya for his guidance throughout his project. The relentless support is his biggest motivator in moving forward towards goal. He also wants to extend his utmost gratitude to the research team for their valuable advice and kind assistance.

The introductory video to his project can be accessed through the following link:
<https://youtu.be/9MRh2-6tSBY>

IEEE Malaysia Section Newsletter

IEEE Engineering in Medicine and Biology Society (EMBS)

Reported by Ezreen Farina Shair (ezreen@utem.edu.my), Siti Anom Ahmad (sanom@upm.edu.my)

MyEMBS Webinar: Medical Device Act 2012 (Act 737)

On 17th August 2022, the IEEE-EMBS Malaysia Chapter has successfully co-organized an online webinar on Medical Device Act 2012 (Act 737) with the Universiti Sains Malaysia (USM). Puan Aidahwaty M. Olaybal, the Director of the Pre-Market Control Division, Medical Device Authority was the invited speaker, sharing her insights and experiences on the subject matter. The session was chaired by Assoc. Prof. Dr. Fatanah Mohamad Suhaimi, a lecturer at the Advanced Medical and Dental Institute, USM and also the MyEMBS executive committee. Almost 100 participants from various backgrounds attended this event.



IEEE EMBS Virtual Summer Camp 2022

IEEE-EMBS Malaysia Chapter has supported the IEEE EMBS Students Activities Committee in preparing the speakers lineup for the IEEE EMBS Virtual Summer Camp 2022. The special event has been conducted on the 6th day of the summer camp on 12th September 2022 from 3pm until 6pm AEST. The speakers lineup are as follows:

1. Machine Learning for Gait Analysis by Dr Saaveethya Sivakumar (Curtin University Malaysia)
2. AI in Neurorehabilitation by Dr Kang Xiang Khor (Managing Director, Techcare Innovation Sdn Bhd)
3. Lab-on-a Compact Disc Microfluidics for POC Medical Diagnostics by Prof Ir Dr Siti Fatimah Ibrahim (Head of Centre for Innovation in Medical Engineering, Universiti Malaya)

The posters promote three sessions:

- Part 1: Machine Learning for Gait Analysis** by Dr Saaveethya Sivakumar, held on 12 September 15:00 - 16:00 AEST.
- AI in Neurorehabilitation** by Dr Kang Xiang Khor, held on 12 September 16:00 - 17:00 AEST.
- Lab-on-a Compact Disc Microfluidics for POC Medical Diagnostics** by Prof Ir Dr Siti Fatimah Ibrahim, held on 12 September 17:00 - 18:00 AEST.

 Each poster includes a QR code for registration and the website www.emb.org/students.

International Conference on Healthcare Engineering (ICHE2022)

On 23rd – 25th September 2022, IEEE-EMBS Malaysia Chapter has successfully become the Technical Co-Sponsor for ICHE2022. It is a conference organized by the School of Biomedical Engineering & Health Sciences, Universiti Teknologi Malaysia. The conference has been held to provide a perfect platform for leading academics, industrial experts, consultants, scholars, researchers, governments and policy makers with different backgrounds to share ideas, findings innovations and breakthrough in the area of Healthcare Engineering.

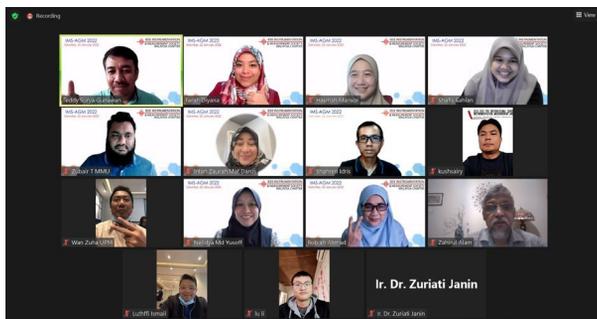
IEEE Malaysia Section Newsletter

IEEE Instrumentation & Measurement Society (IEEE IMS)

Reported by: Farah Diyana binti Abdul Rahman (farahdy@iium.edu.my)

IEEE IMS Malaysia Chapter Annual General Meeting 2022

IEEE IMS AGM was conducted on Saturday, 22nd January 2022, 9.00 am virtually via Zoom platform. A total of 16 members which consists of ten senior members, five members and one graduate student member attended the IMS AGM. This year, there was no election of new executive committee since the motion of two years candidature was agreed in the previous AGM. The session started with the welcoming speech by IMS chair, Prof. Dr. Teddy Surya Gunawan followed by an acceptance of the 2021 AGM minutes of meeting. Then, the annual report and activities report of year 2021 was presented. AGM end at 10.15 am with a photo session.



Attendees of the 2022 AGM of IEEE IMS Malaysia Chapter

IEEE I2MTC 2022 and I2MTC 2023 Handover

The IEEE International Instrumentation & Measurement Technology Conference (I2MTC) is the flagship conference of IEEE Instrumentation & Measurement Society (IMS) and IMS Malaysia Chapter has successfully secured I2MTC 2023 to be held in Kuala Lumpur from May 22 until May 25. Two representatives from IMS Malaysia Chapter; Dr. Kushsairy Abdul Kadir and Dr. Robiah Ahmad; presented their papers and present for the handover ceremony during I2MTC 2022 in Ottawa, Canada from 16 until 19 May 2022. They also had a courtesy visit to High Commission of Malaysia Ottawa and had a short discussion with Her Excellency YBhg. Datin Paduka Anizan Siti Hajjar Adnin, High Commissioner of Malaysia and her team at Rumah Malaysia.



Handover ceremony during I2MTC 2022 in Ottawa, Canada

IEEE I2MTC 2023 Site Visit by Board of

IEEE IMS Malaysia Chapter received a visit from two I2MTC Board of Directors in representatives in the preparation for I2MTC May 2023 at Kuala Lumpur Convention Center. The BOD are Professor Salvatore Baglio, President IEEE I&M Society and Dr. Lee Barford, Master Scientist at Keysight Laboratories, and the research arm of Keysight Technologies. The visits started from 11 July until 14 July. Among the places of visits were The conference site; Kuala Lumpur Convention Center, potential conference hotels nearby such as Traders Hotel, Grand Hyatt, Impiana KLCC Hotel and Mandarin Oriental, KL Tower, UniKL British Malaysia Institute, Gombak, Malaysia Convention & Exhibition Bureau (MyCeb), Putrajaya, UiTM Shah Alam and eMooVit Technology, Cyberjaya.



IMS Malaysia Chapter Activities Planning 2022

IEEE IMS Malaysia Chapter had the first meeting to strategize the activities planning for year 2022, with a focus on ICSIMA 2022. The meeting was held on 16th April 2022 at Hatten Hotel, Melaka. Seven executive committee members joined the two hours meeting with productive discussion. The purpose of the location of the meeting was also to scout for the location ICSIMA 2022 as well as to have an iftar gathering among the members as well as the whole families. Previously, we had a meeting at Chef Wan's café on 16th December 2021, for our final meeting for 2021. These photos below are some of the captures during the meetings.



IEEE Malaysia Section Newsletter

IEEE Photonics Society (IPS), Malaysia Chapter

Reported by: Nelidya Md. Yusoff, imanlsmail (nelidya.kl@utm.my; aiman@uniten.edu.my)

MyIPS – DISTINGUISHED LECTURE PROGRAM

On 26th of July 2022, the IEEE Photonics Society Malaysia Chapter (MyIPS) organized a distinguished lecture program with the title ‘Mentorship for Young Scientists: Developing Scientific Survival Skills’. The session was held at UNITEN and the speaker was Prof. Federico Rosei from Institut National de la Recherche Scientifique (INRS), Canada. He shared basic guidance and mentoring with young scientists. The central theme of the presentation was the topic that succeeding in Science requires skills (often referred to as ‘soft professional skills’) beyond those needed for Science.



MyIPS – PHOTONICS LECTURE SERIES

On 27th of July 2022, the IEEE Photonics Society organized a Photonics Lecture Series titled ‘Development of Fiber Interferometer Sensors For Multi-Parameter Sensing’. The speaker was Dr. Siti Musliha Aishah Musa from Multimedia University (MMU). The lecture was focusing on fiber interferometer sensors, particularly on the multi-parameter sensing capability. The lecture also covers the topics of the performance and functionality of optical fiber sensors, fabrication techniques, digital signal processing, sensor materials, and specialty optical fiber.



MyIPS – COMMUNITY ENGAGEMENT

On 24 August 2022, with the collaboration between Universiti Teknologi Malaysia (UTM), Institution of Engineering and Technology (IET), and MyIPS under UTM Knowledge Transfer Grant (KTP-RIG), organized a STEM carnival called Ask Dr. Solar!. The carnival was held physically at Sek. Keb. Bandar Bukit Mahkota with 100 participants. The speaker was Assoc Prof. Dr. Nelidya Md. Yusoff from UTM. The aims are to transfer electrical engineering knowledge and skills to primary students, hoping that they empower themselves to be sustainable to implement electrical engineering concepts, principles, and application/practice in their daily life and problem-solving activities. The carnival ended at 3 pm.



MyIPS – FLAGSHIP CONFERENCE

The IEEE 9th International Conference on Photonics 2022 was organized by MyIPS virtually through the Zoom platform. The conference was held from 8th to 9th of August 2022 and was attended by 74 participants from all over the world. The keynote talks were delivered by Professor Chennupati Jagadish from The Australian National University, Professor Nathan J Gomes from University College London, United Kingdom, Nobuhiko Shibagaki from Hitachi Kokusai Electric Inc., and finally, Dr. Hashima Hasan from National Aeronautics and Space Administration (NASA). There was also a plenary forum discussed by 3 renowned speakers as well as 23 invited sessions with different research topics delivered during this conference. The papers presented are indeed interesting and we look forward to ICP2024.



IEEE Malaysia Section Newsletter IEEE Power & Energy Society (PES)

Reported by Assoc. Prof. Ir. Dr. Miszaina Osman (miszaina@uniten.edu.my)

Webinar: How to Become a Good Reviewer (28 July 2022)

PES Malaysia in collaboration with UTEM conducted an online webinar presented by Prof. H. B. Gooi from Nanyang Technological University, Singapore on the 28th July 2022. Prof Gooi is an Outstanding Associate Editor Award recipient for IEEE Transactions on Power Systems.



LIVE WEBINAR

HOW TO BECOME A GOOD REVIEWER

OUR SPEAKER

PROF. H. B. GOOI
Nanyang Technological University, Singapore
Outstanding Associate Editor Award for IEEE Transactions on Power Systems

MODERATOR

DR. AZHAN AB RAHMAN

THURSDAY, 28 JULY 2022
2:30 PM – 3:30 PM

<https://www.facebook.com/FKEUTeMMalaysia>

shorturl.at/pju05

PUBLICATIONS
37 H Index, Web of Science
60 H Index Scopus
47 H Index Google Scholar

SUPERVISION
Supervised 4 Research Engineers, 3 Research Associates,
21 Research Fellows, 2 Senior Research Fellows and 20 MSc graduates,
26 PhD Graduates,
9 MEng Graduates

UTeM FKE UJEEAS PES

Prof H.B. GOOI received the PhD degree from Ohio State University, Columbus, OH in 1993. He worked as Assistant Professor at Lafayette College, Easton, PA during 1993-95, and Senior Engineer at General Electric Energy Management System Division, Plymouth, MA for about 6 years before joining Nanyang Technological University (NTU), Singapore in 1996. He has served as Co-Director of SP Group-NTU Joint Lab since 2010 and Chairman LMAG, IEEE Singapore since 2010. His current research interests include microgrid energy management systems dealing with energy storage, condition monitoring, electricity market and spinning reserve.

Webinar: ELECTRIC VEHICLE CHARGING INFRASTRUCTURE AND STANDARDS IN MALAYSIA (29 July 2022)



Ir. Lee Yuen How delivered an online webinar on 9th of July 2022 via IEEE PES Facebook and Youtube channel. He is currently the Chairman of the EV Charging Industry Association in Malaysia. Energy Storage has played three primary roles. This webinar presents the current status, trend and development of electric vehicle charging systems in Malaysia as well as experience from implementing the first 180kW DC Charger in the country will be shared.

IEEE PES MALAYSIA DISTINGUISH LECTURER PROGRAM : PROFESSOR PIERLUIGI MANCARELLA (14 September 2022)

Prof Mancarella delivered a DLP Lecture entitled “Reliability And Resilience In Low-carbon Power Systems And Markets” during a face-to-face lecture in TNB Research Sdn Bhd. He is a Chair Professor of Electrical Power Systems at the University of Melbourne, Australia, and a part-time Professor of Smart Energy Systems at the University of Manchester, UK. In this DLP, he discussed on how there is a need for introducing new analysis and modelling frameworks to deal with the increasing fragility of low-carbon grids and markets and exposure to extreme physical and economic events.

All online PES webinars are posted on <https://www.facebook.com/IEEEPESMalaysia/> and YouTube channel https://www.youtube.com/channel/UC7FVG6YWHgIY2P_Ck3DIvYw





IEEE Malaysia Section Newsletter IEEE Power & Energy Society (PES)

Reported by Assoc. Prof. Ir. Dr. Miszaina Osman (miszaina@uniten.edu.my)

2022 IEEE INTERNATIONAL CONFERENCE ON POWER SYSTEM TECHNOLOGY (POWERCON) (12-14 September 2022)

IEEE PES Malaysia successfully conducted the 2022 IEEE INTERNATIONAL CONFERENCE ON POWER SYSTEM TECHNOLOGY (POWERCON), which was held at Pullman Hotel, Kuala Lumpur on 12 - 14 September 2022. The aim of the conference is to provide a premier platform for electrical engineers and researchers to present their works and to share experiences and ideas in power and energy engineering with experts and scholars from around the world. This PES flagship conference which started in Beijing, China in 1998, POWERCON is now a biennial power engineering conference organized in Asia-Pacific Region. The conference program features keynote sessions, forum sessions, technical paper presentations and technical exhibition. Distinguished speakers deliver keynote speeches and invited talks on emerging technologies in power and energy engineering.



University Tun Hussein Onn Malaysia (UTHM) Final Year Project Competition

The IEEE PELS Malaysia Chapter has sponsored two IEEE Plaques to a Final Year Project Competition organized by University Tun Hussein Onn Malaysia, UTHM. The competition was held from 3rd – 6th July 2022. A total of 250 final year students participated in this competition. Academic staff from the Faculty of Electrical and Electronic Engineering (FKEE) of UTHM had carried out online evaluation to access all of the projects from 3rd – 5th July, 8am – 5pm. Two outstanding students, Nur Dini Shahirah Bt. Mohd Zamri and Hakimi Zikri Bin Nasirin were shortlisted based on their project contributions in the field of power electronics and drives. A prize giving ceremony is organized on the last day of the competition. Executive Committee Member, Dr. Shamsul Aizam Zulkifli, had represented IEEE PELS Malaysia Chapter to deliver the plaques and certificates to the winners.

IEEE SPECIAL AWARD

Congratulations

FROM

IEEE POWER ELECTRONICS SOCIETY

BEV 6
NUR DINI SHAHIRAH BT MOHD ZAMRI
POWER SYSTEM ANALYSIS FOR LARGE SCALE SOLAR PHOTOVOLTAIC SYSTEM USING PVSyst AND ETAP
SV : PROF. MADYA A. Dr. MOHD NOOR BIN ABDULLAH

1st

BEV 15
HAKIMI ZIKRI BIN NASIRIN
2D FEA BASED OPTIMIZATION OF FLUX REVERSAL MOTOR FOR EV SCOOTER
SV : TS. DR. MAHYUZIE BIN JENAL

2nd

IEEE POWER ELECTRONICS SOCIETY
 Powering a Sustainable Future

PELS Malaysia Chapter Technical Events Scheduled in Q4-2022

Webinar:
Powering Vital Services in O&G Industry via Statis UPS

Date: 1 October 2022 (Sat)
Time: 10:00 am – 12:00 pm
Platform: Microsoft Team
<https://www.microsoft.com/microsoft-teams/join-ai-1e3e19>
Meeting ID: 472 500 910 966
Passcode: ZARYN
Registration: <https://forms.gle/7BnjnpeeUq5CW8S>

Register & Join Now

Speaker:
 Dr. Chan Chee Ying is a Staff Electrical Engineer (Diplomat) with Group Technical Solutions (GTS), Project Services & Technology (PST), PETRONAS. She has 17 years of experience in project execution and technical engineering contributions for oil and gas projects and facilities, encompassing various oil and gas terminals, petrochemical and O&G plants, collection, offshore platform, FPSO and floating LNG. She is the technical review committee and author of PETRONAS Technical Standards, author and trainer of Electrical skill group development program, executive of operational capability development program and design review person for Electrical skill group. She is currently the program leader, giving digital solutions for transformer and real-time asset management in PETRONAS. Dr. Chan is a registered Professional Engineer with the Board of Engineers, Malaysia, a member of the Institution of Engineers Malaysia and possesses ECEs Certificate of Project Executive for fluid unit project and advanced license in local universities.

Moderator:
 AP-Dr. Noor Zaihar B. Yahaya

IEEE POWER ELECTRONICS SOCIETY
 Powering a Sustainable Future

IEEE PELS Malaysia Chapter Professional Lecture Program

Speakers:

Prof. Binu Singh
 Indian Institute of Technology, Delhi, India
 Title: "eVto: Vehicle As a Glance"

Prof. Yijie Wang
 Tsinghua University of Technology, China
 Title: "Key technologies of high frequency wireless power transfer system"

M. Zaid Zulkarnain
 PETRONAS Research Lab, Kuala Lumpur
 Title: "Energy Storage: A New Perspective"

3rd
October

1st
October

20th
October

18th
November

5th
December

Distinguished Lecture:

Professor Dimosthenis Pethelis of Norwegian University of Science and Technology (NTNU)

Topic: SiC power semiconductors: a key enabler for cost-optimal design and operation of power converters

DATE AND TIME | **LOCATION** | **HOSTS**

Date: 18 Nov 2022
Time: 03:00 PM to 04:00 PM
All times are (UTC+08:00) Kuala Lumpur

Online Meeting Details:
 Click here to join the meeting
 Meeting ID: 418 841 428 812
 Passcode: 519436

Webinar Series Co-organizer:
 Microsoft PE Technical Malaysia

IEEE POWER ELECTRONICS SOCIETY
 Powering a Sustainable Future

Webinar:

Prof. Ail Sobal of Department of Electrical Engineering, Qatar University, Doha, Qatar.

Topic: Challenges in Grid-Connected Distributed Energy Sources

DATE AND TIME | **LOCATION**

Date: 20 Oct 2022
Time: 03:00 PM to 04:00 PM
All times are (UTC+08:00) Kuala Lumpur

Microsoft Teams meeting
 Click here to join the meeting
 Meeting ID: 428 829 464 637
 Passcode: 1A2Zp5

IEEE PECon 2022
POWER & ENERGY CONFERENCE

2022 IEEE International Conference on Power and Energy (PECon2022)

05th – 06th December 2022
Langkawi, Malaysia

IEEE Malaysia Section Newsletter

IEEE Robotics and Automation Chapter (RAS)

Reported by: Assistant Professor Mohamed Khan(mohamedkhan@ucsiuniversity.edu.my)

Research with Canadian Institute of Technology,
Albania

ROBOT EXOSKELETON – TECHNICAL TALK and
Simulation workshop

**Webinar venue: Zoom –CIT Albania &UCSI University.
14 July 2022.**

A research meeting was organized in CIT Research center, where researchers from various departments joined together to present their area of research work under different topics. More than 10 participants mostly staffs from various departments of CIT took part. The objective of this event was to share the researcher's knowledge among the participants and get to know their respective research area, that will enable to form a collaborative research network between CIT and UCSI. Dr.Mohamed Khan represented on the area of robotics and controls. In future both the universities will work together for various projects.



Research & Innovation Engineering Day

Venue: UTeM, 15 June 2022.

IEEE RAS Malaysia Chapter has sponsored the IEEE RAS special award for the annual Research & Innovation Engineering Day (RADIATE 2022) held at Fakulti Kejuruteraan Elektrik, UTeM. The event involves research exhibition for various category including final year project and integrated design project as well as robotics competition. The event is open to FKE student and public. The special award is won by Kalayarasan a/l Ganasegaran with a project titled Smart Pesticide Sprayer Robot Management System supervised by Ts. Dr. Wan Mohd Bukhari Bin Wan Daud.



Webinar venue: MS Team UCSI University, IEEE HKN UCSI,IEEE UCSI Student branch, Malaysia. 23 July 2022.

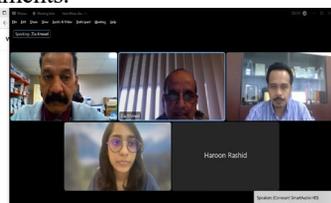
A technical talk was organized by IEEE UCSI Student branch. The objective of this event was to share the researcher's knowledge among the participants. Dr.Mohamed Khan presented a 2 hour technical talk on – ROBOT EXOSKELTON and conducted a simulation based training . Robotic exoskeletons are wearable electromechanical devices that have been developed as augmentative devices to enhance the physical performance of the wearer or as orthotic devices for gait rehabilitation or locomotion assistance. These enable users with appropriate physical abilities to stand, walk, climb stairs and perform daily tasks. In this talk a brief summary of Robotic exoskeletons and its application to Healthcare Industries are presented. More than 50 students from various faculties attended this event. The event started at 2 pm and ended at 4 pm.



IEEE R10 Robotic competition

Webinar venue: Webex -UCSI University, IEEE RAS Malaysia. 19 July 2022.

A technical meeting was organized by IEEE R10, IEEE Malaysia section and IEEE RAS Malaysia chapter to discuss on the issues related to the proposed IEEE R10 Robotic competition., Dr.Zia was the chair and more than 6 participants mostly staffs from various chapters took part. The objective of this event was to share the issues and upcoming problems to host the competition in Malaysia during December 2022. Dr.Mohamed Khan represented on behalf of IEEE RAS Malaysia chapter and provided key comments.



IEEE Malaysia Section Newsletter

IEEE Sensors & Nanotechnology Council Malaysia Joint Chapter (SNCMJC)

Reported by: Hasnizah Aris (hasnizah@unimap.edu.my)

IEEE Industrial/Technical Talk

On 1st July 2022, the IEEE Sensors & Nanotechnology Council Malaysia Joint Chapter (SNCMJC) in collaboration with Universiti Teknologi PETRONAS (UTP) had successfully organized an IEEE Industrial/Technical Talk. The talk entitled Avenue to Success: 3 Simple Tips. The program featured Nur Afiza Abdul Rahman, Operation and Site Manager of Ethernet Networking Platforms Operation from Intel Corporation.

This program was conducted for first year students of Universiti Teknologi PETRONAS (UTP) to give them an overview electronic engineering career and how to start preparing for their engineering studies and career. A total of 61 audiences attended the talk including 2 IEEE members. (Reported by Ir. Dr. Huzein Fahmi)



ADJUNCT LECTURE

"AVENUE TO SUCCESS: 3 SIMPLE TIPS"

1st July 2022 (Fri) 3pm-5pm Microsoft Teams

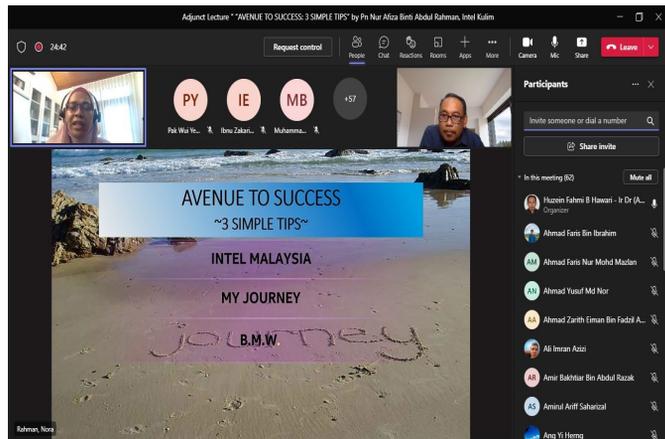
To join click the URL or scan the QR code below

NUR AFIZA ABDUL RAHMAN
Operation & Site Manager of Ethernet Networking Platforms Operation Intel Corporation

- Graduated with a Bachelor of Science in Electrical Engineering from University of Illinois at Urbana-Champaign, UIUC, USA
- Strategic and dynamic 21-year engineering and operation management career with Intel Corporation, of which for the last 8 years to date has been responsible as the Site Operation Manager to start-up and establish the Ethernet Networking Platform Operations (NPO) Design & Development team locally.
- Started the career as Physical Layout & Circuit Design Engineer at Penang Design Center for 3 years before spending 20+ years in product engineering and factory operations at internal and external manufacturing supporting various business units and outsourced manufacturers in Malaysia, Thailand, Korea, Taiwan & China.
- Distinctive industry experiences especially in manufacturing systems, supply chain operations, product engineering, RPI and quality of semiconductor to board and system products with operational excellence.

<https://bit.ly/3NmDOR4>

UTP IEEE IEEE Sensors Council Malaysia Section Chapter



Adjunct Lecture: "AVENUE TO SUCCESS: 3 SIMPLE TIPS" by Ir. Nur Afiza Binti Abdul Rahman, Intel Kulum

Request control: People Chat Reactions Rooms Apps More

Participants: Invite someone or dial a number, Share invite

In this meeting (60):

- Huzein Fahmi B Hawari - Ir Dr (A... Organizer
- Ahmad Fais Bin Ibrahim
- Ahmad Fais Nur Mohd Mustaf
- Ahmad Yusof Md Nor
- Ahmad Zairin Eiman Bin Fadzil A...
- Ali Imran Aziz
- Amir Bakhtiar Bin Abdul Razak
- Anisul Arif Saharzal
- Ang Yi Heng

AVENUE TO SUCCESS
~3 SIMPLE TIPS~
INTEL MALAYSIA
MY JOURNEY
B.M.W

Integrated Design Project (IDP) Exhibition 2022 (IDPEX 2022)

Faculty of Electronic Engineering Technology, Universiti Malaysia Perlis (UniMAP) had successfully organized an IDPEX2022 on 8th July 2022. The IEEE Sensors & Nanotechnology Council Malaysia Joint Chapter (SNCMJC) was proudly sponsored the IEEE Sensors & Nanotechnology Special Award during the exhibition. There are in total of 39 design projects presented during this event. The IEEE Sensors & Nanotechnology Special Award won by Group 31, with project entitled Smart Indoor Aeroponic System Gardening. This project supervised by Prof Dr Prabakaran Poopalan.

(Reported by Dr Hasnizah Aris)



IEEE Malaysia Section Newsletter

IEEE Sensors & Nanotechnology Council Malaysia Joint Chapter (SNCMJC)

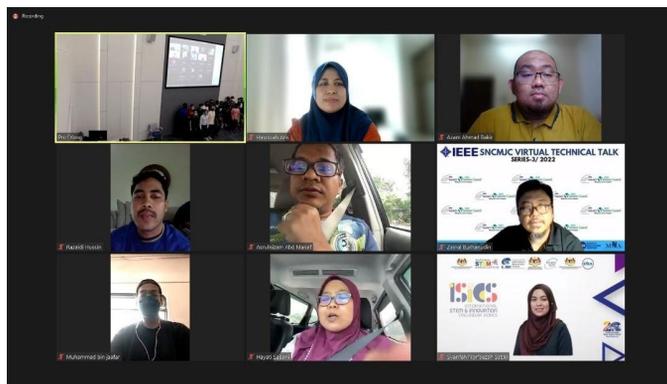
Reported by: Hasnizah Aris

hasnizah@unimap.edu.my

IEEE Distinguished Lecturer Talk I

Title: Nano Carbons for Biology and Medicine: Sensing, Imaging, and Drug Delivery

The IEEE Sensors & Nanotechnology Council Malaysia Joint Chapter (SNCMJC) in collaboration with University of Southampton Malaysia had successfully organized an IEEE Distinguished Lecturer Talk on 12th July 2022. The program has invited Professor Ken-Tye Yong from the School of Biomedical Engineering Faculty of engineering University of Sydney. This program was organized for the sensors and nanotechnology community at large and it was held in hybrid mode. The attendees include academic staff and students (undergraduate and postgraduates) from several universities and some other representatives from industry and government agencies. There are in total of 40 guests attended the program and they're including 24 IEEE members. (Reported by Dr SuanHui Pu)





IEEE Malaysia Section Newsletter

IEEE Signal Processing Society (SPS)

Reported by Dr. Usman Ullah Sheikh (usman@utm.my)

Working With MATLAB A problem Based Approach



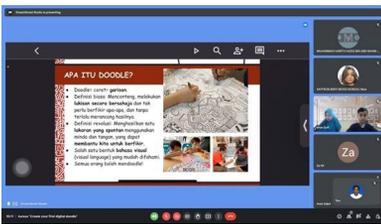
IEEE SPS Malaysia chapter conducted a workshop on “Working with MATLAB – A Problem Based Approach” on the 28 – 29 July 2022. Participants of the workshop were exposed to the components and fundamentals of MATLAB through examples. The topics covered included mathematical calculations, matrix manipulations, visualizing and introduction to toolboxes. The workshop was conducted by Syed Khaleel Ahmed, a consultant and trainer with over 30 years of experience in industry and academia.

Smart Farming with MMU Smart Sensor Module



Multimedia University (MMU) in collaboration with IEEE SPS Malaysia conducted a 1 day program on 9th of July 2022. The program introduced smart farming using smart sensor module developed by MMU. This program was conducted with SRKT Kajang.

Doodle Art Workshop



IEEE SPS Malaysia chapter announced the Doodle Art and Video Competition with the topic : How Signal Processing Inspires Me!. In conjunction with the competition, a workshop on Digital Doodle Art was organized on 4 Sept 2022. Mr. Amir Sabri, a renowned local doodle artist was the invited speaker. In the workshop, he introduced the concept of doodle art and gave a tutorial on using Autodesk SketchBook. The event was attended by 11 participants.

Symposium on Acoustic, Speech and Signal Processing (SASSP) & Image Processing, Image Analysis and Real-Time Imaging (IPIARTI) 2022



IEEE SPS Malaysia Chapter, Centre for Digital Home and Faculty of Engineering, Multimedia University jointly organized the 10th SASSP 2022 and 12th IPIARTI 2022, on 14 Sept 2022 at Multimedia University, Cyberjaya in hybrid mode. The event was to bring the university and industry community together to share and discuss the latest trends in signal and image processing and as a forum for professional networking and advancement. A total of 57 participants attended the event (37 on site, 20 virtual) with 13 abstracts from the participants. Three distinguished speakers were Prof Yuejie Chi (Carnegie Mellon, USA), Mohd Hisham (Petronas) and Prof Syed Abd Rahman (UPM).

Short Course on Data Compression Strategies



Prof. Dr. R. Logeswaran gave a short course on Data Compression Strategies : The Building Blocks from 23 – 27 Aug 2022. The short course was conducted at Vel Tech, Chennai. 31 participants attended the short course (3 IEEE members)

Artificial Intelligence in Medicine



Prof. Dr. R. Logeswaran also gave a technical talk on Artificial Intelligence in Medicine - Achievements & Future Directions on 30 Aug 2022. 78 participants attended the technical talk (5 IEEE members)

Research Seminar in the Area of Robotics, Automation & Manufacturing



Universiti Teknologi Petronas in collaboration with IEEE SPS Malaysia chapter organized a research seminar on robotics, automation and manufacturing. The even was held on 13 Sept 2022 at the CISIR training room. Two distinguished speakers, Dr Mikael Ericsson and Dr Prabhu from University West Sweden gave the seminar. 16 physical and 5 virtual participants (all IEEE members) attended the seminar.

IEEE Malaysia Section Newsletter

EDS Malaysia Kuala Lumpur Chapter Quarter 3, 2022 (Oct 2022 Issue)

Reported by: Maizatul Zolkapli (maizatul544@uitm.edu.my)

STEM4FUN community program: Promote STEM interest among 1500 students



Students from Selangor, Wilayah Persekutuan Kuala Lumpur and Negeri Sembilan had a great time in STEM4FUN activities.

A total of 1,500 primary and secondary school students in Selangor, Negeri Sembilan and the Federal Territory of Kuala Lumpur are targeted to be involved in the STEM4FUN community program organized by the College of Engineering Studies of Universiti Teknologi MARA (UiTM) in collaboration with The Institute of Electrical and Electronics Engineers (IEEE) Electron Devices Society (EDS) Malaysia. The programme was funded by the 2022 EDS Humanitarian Project Grant.

The STEM4FUN community programme is a knowledge transfer programme that uses demonstrations of electronic blocks (SnapCircuits), drones, augmented virtual reality, and robots to provide exposure and foster interest in subjects based on science, technology, engineering and mathematics (STEM). This exposure is intended to encourage students to pursue STEM majors in higher education and then in their careers.

The STEM4FUN programme includes exposure to cutting-edge technology such as green technology, the use of gadgets or technological devices to strengthen students' understanding of STEM subjects, and it is also a new learning experience about STEM, particularly in the field of electron devices. STEM4FUN is also implemented in collaboration with other IHLs, such as Universiti Malaya and Universiti Kebangsaan Malaysia, and industry to form a Quadruple Helix between university entities, industry, government agencies the Ministry of Education Malaysia, and the community, which is schools.

Strategic partners supporting this programme include The Institute of Electrical and Electronics Engineers (IEEE) Electron Devices Society (EDS) Malaysia the National STEM Centre, AR Distributor as well as Selangor, Negeri Sembilan and the Federal Territory of Kuala Lumpur Education Department.

According to the Project Leader, Associate Professor Ir. Dr. Ahmad Sabirin Zoolfakar, and five members, Prof. Ir. Dr. Norhayati Soin, Associate Prof. Dr. P. Sushitha Menon, Ir. Ts. Dr. Rozina Abdul Rani, Ir. Dr. Maizatul Zolkapli, and Ir. Dr. Azrif Manut, this activity exposes 1500 students and 300 school teachers to STEM knowledge in producing skilled human capital. Students must be nurtured and homed in their use of technology through creativity, while also developing critical thinking skills. The excellence of STEM students at the tertiary level can encourage research, the development of new inventions, and innovation. This project has the full support of the National STEM Centre, the Malaysia Ministry of Education, and the State Education Departments of Selangor, Negeri Sembilan, and the Federal Territory of Kuala Lumpur. The STEM4FUN programme has been implemented in schools across Selangor, Negeri Sembilan and the Federal Territory of Kuala Lumpur beginning in July 2022.

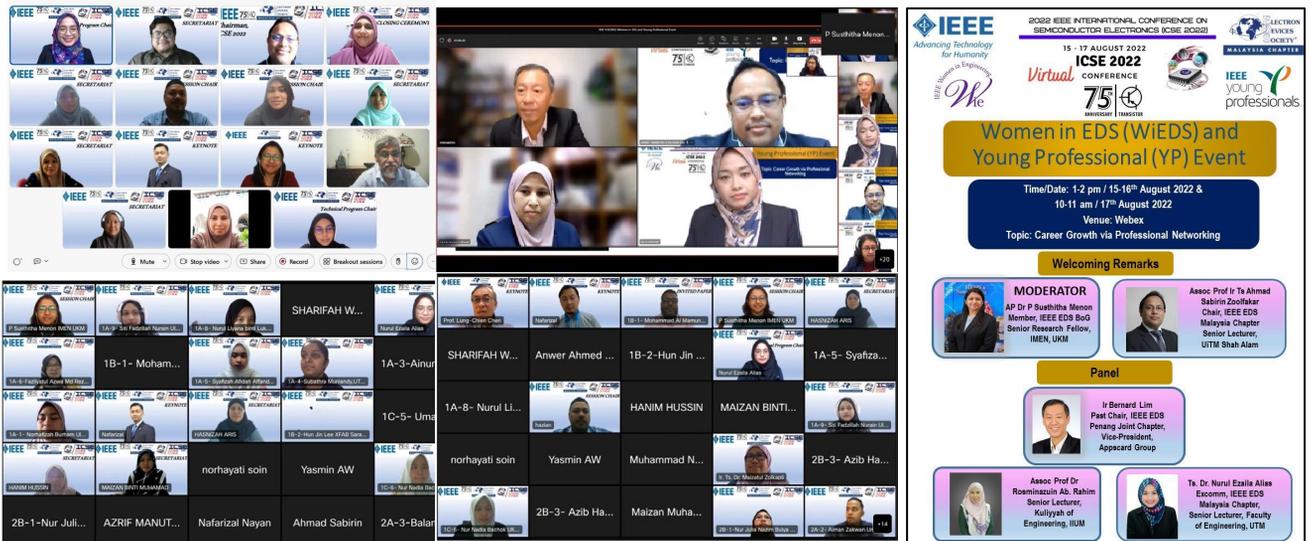
Prepared by Ahmad Sabirin Zoolfakar, Norhayati Soin, P. Sushitha Menon, Rozina Abdul Rani, Maizatul Zolkapli and Azrif Manut

IEEE Malaysia Section Newsletter

EDS Malaysia Kuala Lumpur Chapter Quarter 3, 2022 (Oct 2022 Issue)

Reported by: Nurul Ezaila Alias (ezaila@fke.utm.my)

15th International Conference on Semiconductor Electronics (ICSE2022)



The image displays a large grid of video conference windows from the ICSE2022, showing numerous participants in various tracks. To the right is a poster for the 'Women in EDS (WIEDS) and Young Professional (YP) Event'. The poster includes the following details:

- Event Title:** Women in EDS (WIEDS) and Young Professional (YP) Event
- Time/Date:** 1-2 pm / 15-16th August 2022 & 10-11 am / 17th August 2022
- Venue:** Webex
- Topic:** Career Growth via Professional Networking
- Welcoming Remarks:**
 - MODERATOR:** AP Dr P Sushitha Menon, Member, IEEE EDS BoD, Senior Research Fellow, IMEN, UKM
 - Assoc Prof Ir Ts Ahmad Sabirin Zoolfakar:** Chair, IEEE EDS Malaysia Chapter, Senior Lecturer, UTM Shah Alam
- Panel:**
 - Ir Bernard Lim:** Past Chair, IEEE EDS Penang Joint Chapter, Vice-President, Appared Group
 - Assoc Prof Dr Rosminazuin Ab. Rahim:** Senior Lecturer, Kulliyah of Engineering, IUM
 - Ta. Dr. Nurul Ezaila Alias:** Excomm, IEEE EDS Malaysia Chapter, Senior Lecturer, Faculty of Engineering, UTM

Group photo of the ICSE2022 attendees and poster of the WIEDS/YP event

The 2022 IEEE International Conference on Semiconductor Electronics (ICSE2022) was successfully held online from August 15-17, 2022 via Webex. The conference was organized by IEEE Electron Devices Malaysia Chapter and IEEE Malaysia Section. ICSE2022 was chaired by IEEE EDS Chair, Assoc Prof Ir Ts Dr Ahmad Sabirin Zoolfakar from UiTM Shah Alam and Technical Chair was Ts Dr Nurul Ezaila Alias from UTM Johor. There were 42 papers presented at the conference with more than 50 participants attending from around the world. ICSE2022 was proud to feature Prof. Koichi Sasaki from Hokkaido University, Japan, Prof. Lung-Chien Chen from National Taipei University of Technology, Taiwan, and Assoc. Prof. Dr. P. Sushitha Menon from Universiti Kebangsaan Malaysia as the keynote speakers. Prof. Koichi Sasaki from Hokkaido University (Keynote title: Contribution of excited states of molecular nitrogen to surface reactions in nitrogen plasmas), Prof. Lung-Chien Chen from National Taipei University of Technology (Keynote title: Properties and sensing applications of MA3Sb2Br9 bulk crystals and (PEA2) (MA)3Sb2Br9 thin films) and Assoc. Prof. Dr. P. Sushitha Menon from Universiti Kebangsaan Malaysia (Keynote title: Plasmonics in Biosensors and Electronic Devices). This is the 15th conference in the ICSE series since 1992 which aims at bringing together researchers from industry and academia to gather and explore various issues and trends in the field of semiconductor electronics. Else than that, for the first time, the conference featured a pre-recorded Women in EDS (WIEDS) and Young Professional (I YP) session which was aired during the lunch break of the conference. The session was moderated by WIEDS Chair, Assoc Prof Dr P Sushitha Menon from UKM and welcoming remarks were given by EDS Malaysia Chapter Chair, Assoc Prof Ir Ts Dr Ahmad Sabirin Zoolfakar from UiTM Shah Alam. The session, which featured 3 prominent speakers: Ir Bernard Lim from EDS Penang Joint Chapter, Ir Ts Dr Nurul Ezaila Alias from UTM Johor and Assoc Prof Dr Rosminazuin Ab Bakar from IUM, was entitled Career Growth via Professional Networking. The speakers shared their experiences on how their involvement in professional organizations such as IEEE EDS sparked their personal and career growth in an exponential way. The recording of the event can be obtained here < <https://youtu.be/2ke2rShXO4o> >. ICSE2022 offered Invited Papers to academicians and researchers from the industry for every track session, Best Paper Award for each cluster, and the Best Presenter Award to student presenters. ICSE2022 is also pleased to offer 2 special awards which are the Best Paper Award EDS and Best Paper Award IET Malaysia. This time around, it is honored to receive a sponsor from the IET, Malaysia. Altogether ICSE2022 has 6 track sessions, therefore, 6 invited papers were offered to the academicians and researchers from the industry to present their work as invited speakers for the respective track session. The Best Paper Awards were accorded based on 4 main clusters and 1 special cluster and all the papers were evaluated by the Technical Program Committee. The Best Presenter Award to the student was evaluated by the session chairs. Overall, the conference achieved its main objective of bringing together researchers from industry and academia to gather and explore various issues and trends in the field of semiconductor electronics.

Prepared by Nurul Ezaila Alias, P Sushitha Menon and Ahmad Sabirin Zoolfakar

IEEE Malaysia Section Newsletter

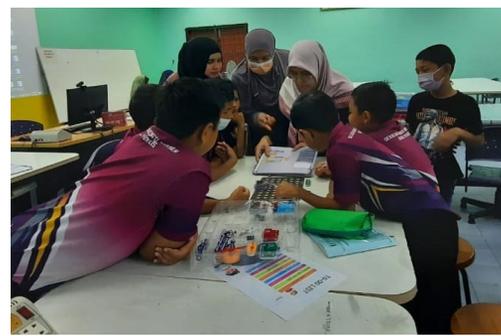
EDS Malaysia Kuala Lumpur Chapter Quarter 3, 2022 (Oct 2022 Issue)

Reported by: P Sushitha Menon (susi@ukm.edu.my)

Electronics in Coding & Robotics STEM Programme



Train the Trainer Session at IMEN UKM



Train the Student STEM Session at STB Arau Perlis

A Train the Trainer Session for the Electronics in Coding and Robotics STEM programme was held on the 5th of September at the Institute of Microengineering and Nanoelectronics (IMEN), Universiti Kebangsaan Malaysia (UKM) by STEM Champion 2022; Assoc Prof Dr P Sushitha Menon. The session was attended by 6 lecturers from the Faculty of Electronic Engineering & Technology, Universiti Malaysia Perlis (UniMAP). The lecturers were trained to use the Electronic Blocks with Coding, Tobiell robot and Solar Botkits.

Eventually, a Train the Student STEM session was held at Sekolah Tengku Budriah (STB), Arau Perlis on 1st October 2022. This event was conducted in collaboration between FEETUNIMAP, IEEE EDS Malaysia, IEEE Sensors & Nanotechnology Council Malaysia Joint Chapter (SNMJC) and STEM Club, Sekolah Tengku Budriah (STB). This half-day program was attended by in total of 32 students from Sekolah Kebangsaan Tengku Budriah, Arau. Thirteen (13) academic staff from the Faculty of Electronic Engineering & Technology, Universiti Malaysia Perlis (UniMAP) and two (2) teachers from the school's STEM Club have conducted the program. All educational kits were provided by IEEE EDS Malaysia and they're including 1) Tobiell II Robot which uses microbit: programmable board and Microsoft Make Coder Editor or Python Editor for coding and 2) SnapCircuits with coding (using Bluetooth-powered SC controller and enabled via app-driven BOT code and Blockly codes).

IEEE Malaysia Section Newsletter

IEEE Universiti Malaya Student Branch (UMSB)

Reported by Ir. Dr. Hazlee Azil Illias
h.illias@um.edu.my

Research Talk on Utilising nanoparticles for liquid insulation applications



Research talk by Dr. Mohamad Zul Hilmey Makmud

A research talk entitled "Utilising nanoparticles for liquid insulation applications" was delivered by Dr. Mohamad Zul Hilmey Makmud, from Universiti Malaysia Sabah (UMS) on 22nd September 2022. The talk was organized by IEEE Universiti Malaya Student Branch (UMSB). The talk was part of the research visit activities by Dr. Zul Hilmey at the Universiti Malaya High Voltage Laboratory (UMHVL) at the Department of Electrical Engineering, Faculty of Engineering, Universiti Malaya. During the talk, Dr Zul explained about background and history of nanofluids, methodology for preparation of nanofluids, several electrical characteristics results of nanofluids, current research work done at UMS and the latest development of nanofluid applications.



Dr. Mohamad Zul Hilmey Makmud with UMHVL members



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Stand Taller in Career with IEEE

IEEE UMSB in collaboration with IEEE Malaysia KL Subsection had successfully co-organized an IEEE Malaysia Professional Development Event entitled "Stand Taller in Career with IEEE" on 6th July 2022 at the Faculty of Engineering, Universiti Malaya. The event was started with the opening ceremony by Dr. Fawnizu Azmadi Hussin, the Vice Chair of IEEE Malaysia KL Subsection, followed by a talk entitled "How to Speak: Delivering Effective Presentation" delivered by Dr. Faiz Zaki from Universiti Malaya. It was followed by two talks entitled "Journey as a technopreneur" delivered by Mr. Razlan Dhamir Hamdan from Aphelia and "IEEE Membership Benefits" by Dr Haroon Rashid, the Chair of IEEE Malaysia YP. The event was closed by Prof. Dr. Norliza Mohd Noor, the Chair of IEEE Malaysia KL Subsection.

IEEE Malaysia Section Newsletter

IEEE Universiti Teknologi PETRONAS Student Branch

Reported by: Ghulam E Mustafa Abro, MIEEE, Grad Eng. BEM

Virtual Session on “Essentials of Systematic Literature Review”

IEEEUTP Student Branch with the collaboration of IEEEERAS Malaysia and Electrical and Electronic Engineering Student Society Club organized a session titled as "Essentials of Systematic Literature Review".

For this purpose, we invited Ir. Dr. Dur Muhammad Soomro, who is currently working as an Associate Professor at Universiti Tun Hussein Onn Malaysia UTHM. This session has been attended by several postgraduate students and research staffs around the globe.



Physical Session on “Exploring the Research Opportunities in the Area of Robotics, Automation and Manufacturing by Dr. Mikael Ericsson and Dr. Prabu K Ramanathan”

On 13th September 2022, IEEEUTP Student Branch along with the support of IEEEERAS Malaysia, IEEE SPS Malaysia, Centre for Automotive Research and Electric Mobility (CAREM) UTP and Centre for Systems Engineering (CSE) UTP organized a physical session where they invited international speakers from University West Sweden to talk over the topic "Exploring the Research Opportunities in the Area of Robotics, Automation and Manufacturing." This time, IEEEUTP Student Branch invited Dr. Mikael Ericsson, head of department of production systems at University West Sweden and Dr. Prabu K Ramanathan Senior Lecturer at Division of Production Systems University West Sweden.



IEEE Malaysia Section Newsletter

IEEE Universiti Teknologi PETRONAS Student Branch

Reported by: Ghulam E Mustafa Abro, MIEEE, Grad Eng. BEM

Physical Technical Workshop on “PCB Designing using Autodesk Eagle Software”

Today on 17th October 2022, IEEEUTP Student Branch with the collaboration of IEEERAS Malaysi Chapter and E3S2Club had organized a physical training titled as “PCB designing Using Autodesk Eagle Software by Mr Temitope Ibrahim amose”.

The workshop started with the welcome message by Ghulam E Mustafa Abro, Chair IEEE UTP Student Branch and concluded by Ms. Ch'ng Jing Ying, one of the executive members of IEEE UTP SB and event incharge. Here are few glimpses of the workshop.



Physical Technical Workshop on “Playing MATLAB and Simulink by Mr. Abro”

IEEE UTP SB with the collaboration of Post Graduate Student Council of Universiti Teknologi Petronas arranged a technical and hands-on workshop titled as "Playing MATLAB" on 10th August 2022. For this workshop Engr. Ghulam E Mustafa Abro Chair IEEE UTP SB and PhD Student at Electrical and Electronic Engineering Department had been invited to conduct the training. This training had also been attended by 7 research officers from STRIDE Ministry of Defence (Maritime Division) Naval Base, Lumut, Perak Malaysia.



In last, concluding remarks were given by Assoc. Prof. Dr Balbir Singh Mahinder Singh, who is honorable Dean Centre for Graduate Studies (CGS) UTP. He appreciated the efforts of both clubs and presented a brief presentation about the research programs which are being offered at UTP under different research institutes.



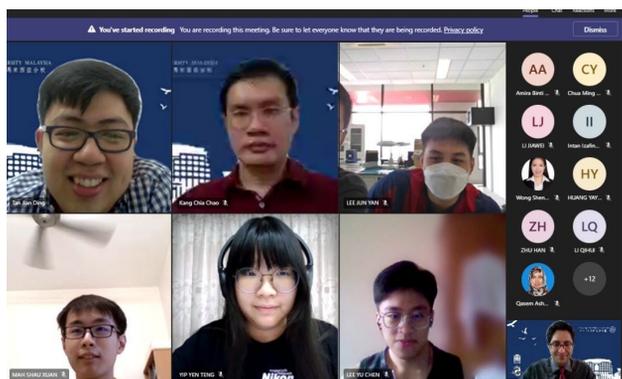
IEEE Malaysia Section Newsletter

IEEE XMUM STUDENT BRANCH (XMUM)

Reported by: Ts. Dr. Kang Chia Chao (chiachao.kang@xmu.edu.my)

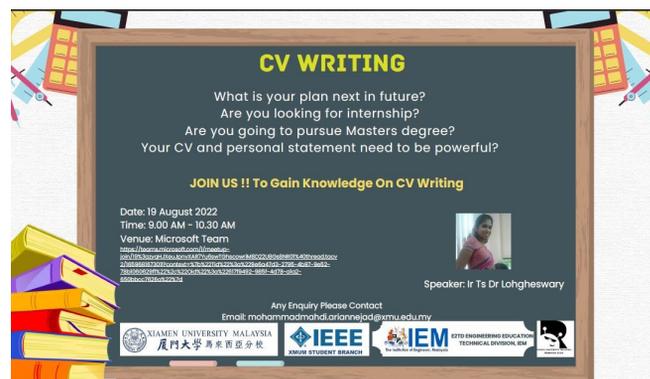
Webinar on XMUM IEEE & Robotics Club Talk

Webinar venue: Microsoft Team, Xiamen University Malaysia. 15 August 2022. The event started at 2.00 PM with a key note address from Dr . Mohammad Mahdi Ariannejad. During the key note address Dr . Mohammad Mahdi Ariannejad introduced the event speaker Ts. Dr . Kang Chia Chao & Dr. Tan Jian Ding from Xiamen University Malaysia. More than 40 participants took part and got exposed to the access essential and exclusive benefits offered to IEEE members, including latest technical topics, networking opportunities, career advancement and member discounts. Besides that, the webinar also introduce the robotics club in the university so that collaboration can be carry out and students can join more activities that organized by the student branch or club.



Webinar on CV Writing

Webinar venue: Microsoft Team, Xiamen University Malaysia. 19 August 2022. The event started at 9.00 AM with a key note address from Dr . Mohammad Mahdi Ariannejad. During the key note address Dr . Mohammad Mahdi Ariannejad introduced the event speaker Ir. Ts. Dr. Lohgheswary from Xiamen University Malaysia. More than 40 participants took part and got exposed to the skills of CV Writing. Besides that, the webinar also introduce step by step how to generate a powerful CV when apply for a new job. The webinar is suitable for student who are looking for the internship placement or student that are going to pursue Master degree.



CV WRITING

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Your CV and personal statement need to be powerful!

JOIN US !! To Gain Knowledge On CV Writing

Date: 19 August 2022
Time: 9.00 AM - 10.30 AM
Venue: Microsoft Team
Host: IEEE Malaysia Section & IEEE XMUM Student Branch
Speaker: Ir. Ts. Dr. Lohgheswary

Any Enquiry Please Contact
Email: mohammadmahdi.ariannejad@xmu.edu.my

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Universiti Sains Malaysia, Penang, Malaysia, December 19-22, 2022



IEEE MALAYSIA SECTION

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