

SUARA TEEAM



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A Publication of The Electrical and Electronics Association of Malaysia

77th Issue

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Deputy President

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Immediate Past President

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Ir Chew Shee Fuee, KMN (G H Liew Engineering (1990) Sdn Bhd)

Fu Wing Hoong (EITA Resources Berhad)

Dato 'Ir Lee Peng Joo (Individual)

Suresh Kumar Gorasia (Amalgamated Engineering & Commercial Co (KL) Sdn Bhd)

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David Chong Ah Nyap (Euro Electrical Sdn Bhd)

Simon Leong Kien Khan (Sena Letrik (M) Sdn Bhd)

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Lee Peng Sian (Furutech Electrical Sdn Bhd)

Honorary Treasurer

Lim Sai Seong (QAV Technologies Sdn Bhd)

Assistant Honorary Secretary

Ir Dr Ng Kok Chiang (Syarikat Pembaikan Letrik Leong Hing)

Assistant Honorary Treasurer

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Leonard Choong Kin Loong (KDK Fans (M) Sdn Bhd)

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Sabah Electrical Association

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Sarawak Electrical Association

The Perak Electrical Association

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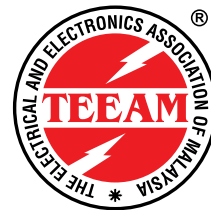
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Plugs, Socket-Outlets for Industrial Purposes

LS – TYPE Plugs and Socket-Outlets for Entertainment



Plugs



Couplers

Inclined flush mounting sockets - Watertight IP67



PEW...PI 16A-32A 63A-125A

Couplers - Watertight IP66/IP67



16A-32A

Wall-mounting plugs - Watertight IP67



PEW...SM 63A

Plugs – Watertight IP66/IP67



PEW...SV 16A – 32A

Interlocked switched socket-outlets with screw type fuse carrier aluminium enclosure – splashproof IP55



(PK...PB5 125A)

Interlocked Switched Socket-Outlets



TM...SP

Plugs - Low voltage from 50V to 690V

IP44



PE...PP 16A-32A

IP67



Couplers 16A-32A



PE...PQ 16A-32A



SIPW...SV



PE...SV 16A-32A



PEW...PP 16A-32A



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C-Type



IP Enclosure C-Type



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Hoods with 1 level

CNE-CSE 16 Poles



Inserts, Screw terminal connection

MIXO modular units



4 poles 40A-830V

CT – CTS 64 Poles



Terminal blocks inserts screw terminal connection

CP 6 Poles 35A-400/690V



Inserts, screw terminal connection

CKS 3 and 4 Poles



Inserts, 3 poles + connection with spring terminal



Inserts, 4 poles + connection with spring terminal

CMCE 3+2 (aux) polest



Inserts, Crimp Connections

MIXO modular units 2 poles 100A



Crimp connections



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From The Editor's Desk



The TEEAM Annual General Meeting (TEEAM AGM) for the year 2019 and the election of new Office Bearers for the term 2019- 2021 were held on 5 May 2019 at Armada Hotel, Petaling Jaya, Selangor. The AGM was overwhelmed with 174 attendees.

Congratulations to the newly-elected President, Mr C T Siew and all the elected Council Members. I believe that with the able leadership of the new President, we can anticipate greater achievements for the Association.

There was a disruption to some major Government projects last year and we are now beginning to see some recovery in those projects which had been affected. This development will certainly improve the construction sector outlook.

The MESTECC Minister, YB Yeo Bee Yin, attended the launch of "Malaysia's Largest Rooftop Solar Photovoltaic (PV) Project (2.5MW)" under the Net Energy Metering (NEM) scheme by Goodyear Malaysia Bhd (Goodyear) on 23 July 2019.

We look forward to more new opportunities in the Solar PV sector and hope that everyone can benefit from these investments whilst at the same time help the country to increase Renewable Energy (RE) in power generation.

The Conference and Meeting of the ASEAN Federation of Electrical Engineering Contractors (AFEEC) and the Federation of Asian Pacific Electrical Contractors Associations (FAPECA) for 2019 will be held from 6 to 8 November 2019 at Kimdaejung Convention Centre, Gwangju, Korea. The theme for this year's Conference is 'Power System Interconnection'. The event will be hosted by the Korea Electrical Contractors Association (KECA) in-conjunction with BIXPO 2019, a Power Energy Exhibition organised by KEPCO. It is hoped that more members will join TEEAM's delegation to participate in this event.

Regards,

A handwritten signature in black ink, appearing to be 'Ir Chew Shee Fuee'.

Ir Chew Shee Fuee, KMN
Editor
Suara TEEAM



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TEEAM AGM & Election 2019

The TEEAM Annual General Meeting (AGM) for the year 2019 and the election of new office-bearers for the term 2019-2021 were held on 5 May 2019 at Armada Hotel, Petaling Jaya, Selangor. The AGM was overwhelmed with 174 attendees.

Acceptance of Minutes, Annual Report and Accounts

The attendees approved the minutes of the past Annual General Meeting. Out-going Honorary Secretary, Mr Subramaniam Karuppan, presented the Annual Report which outlined the activities of the Association for the year 2018. This was followed by the tabling of Audited Accounts by the Out going Honorary Treasurer, Mr Wong Chin Cheong, for the year ended 31 December 2018. Both the Annual Report and the Audited Accounts were duly adopted at the Annual General Meeting.

Election of New Office-Bearers

At the AGM, the election of new office-bearers for the term 2019-2021 took place with many new faces joining the line-up. Mr C T Siew was elected as the new President, Ir Chang Yew Cheong was elected as the Deputy President, Mr Lim Sai Seong was elected as the Honorary Treasurer, Mr Stan Lim was elected as the Assistant Honorary Treasurer and Ir Dr Ng Kok Chiang was elected as the Assistant Honorary Secretary. Mr Lee Peng Sian was later appointed as the Honorary Secretary by the President.

Eight Committee Members of the Council were elected during the AGM. They were Mr Leonard Choong, Mr Rajasegaran, Dato' Andy Tan, Mr Chris Yow, Mr Nathan Chiam, Ms Chaw Wei Yin, Ms Julee Tan and Ms Liow Lihna.

Mr Narendren Rengasamy and Datuk Ir Azlan Robert were co-opted as Committee Members in the Council. One Representative was to be appointed from each State Association.

Proposed Constitution Amendments

The proposed amendments to TEEAM's Constitution were tabled and there was intense debates among members on the proposed changes. The members requested for a column to spell out clearly the intended changes. Motion was carried later to defer the amendments after a majority vote.

Specialised Group Meeting

When the AGM ended, members dispersed to their respective specialised group's General Meeting. The three specialised groups elected their respective Chairmen, namely Ir Kok Yen Kwan for the Engineering Construction & Services Group, Mr David Chong for the Trading Group and Mr Simon Leong for the Manufacturing Group. The three respective groups' Chairmen were automatically the Vice Presidents of TEEAM.

Two representatives are seconded from each Specialised Group to sit in the TEEAM Council. They are Mr How Chee Seng and Mr Chong Yoon Koon from the Engineering Construction & Services Group; Mr Philip Por and Mr Lee Chee Kin from the Trading Group and Mr Ng Kiet Tay and Mr Willy Wong from the Manufacturing Group.

The full list of new office bearers appears on page 11.



Exciting – Members queuing up for ballot papers.



Attentive – AGM in progress.



TEEAM EXCO – (from left) Mr Stan Lim (Assistant Honorary Treasurer), Mr Lim Sai Seong (Honorary Treasurer), Ir Kok Yen Kwan (Vice President), Ir Chang Yew Cheong (Deputy President), Mr C T Siew (President), Mr David Chong (Vice President), Mr Simon Leong (Vice President), Mr Lee Peng Sian (Honorary Secretary) and Ir Dr Ng Kok Chiang (Assistant Honorary Secretary).



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Snapshots of the TEEAM AGM & Election 2019





TEEAM Council For The Year 2019-2021

(seated from left) Nick Liew Kar Hoe (Council Member), Fu Wing Hoong (Past President), Suresh Kumar J Gorasia (Past President), Lim Sai Seong (Honorary Treasurer), Ir Kok Yen Kwan (Vice President), Ir Chang Yew Cheong (Deputy President), C T Siew (President), David Chong Ah Nyap (Vice President), Simon Leong Kien Khan (Vice President), Lee Peng Sian (Honorary Secretary), Dato' Ir Lee Peng Joo (Past President), Ir Chew Shee Fuee, *KMN* (Past President) and Chan Kam Saim (Council Member).

(standing from left) Council Members: Dato' Andy Tan Boon Hin, How Chee Seng, Philip Por Tuan Lip, Rajasegaran Bungara Naidu, Leonard Choong Kin Loong, Lee Chee Kin, Julee Tan Chiew Theng, Chaw Wei Yin, Liow Lih Na, Nathan Chiam Tow Jen, Narendren Rengasamy, Stan Lim Hui Ming (Assistant Honorary Treasurer), Chris Yow Loo Sik, Chong Yoon Koon and Ir Dr Ng Kok Chiang (Assistant Honorary Secretary).

Some Council Members are not in the photo: Ir Yong Ah Huat (Immediate Past President), Willy Wong, Ng Kiet Tay, Datuk Ir Azlan Robert Abdullah, Darren Lee Weng Kee, Lee Chee Boon, Gan Seng Chong, Chew See Kheng, Dato' Sri Ir Peter Lu Nguang Siong, Hii Hua Chuon, Leslie Jong Vui Kee and Chin Ket Hiung.

TEEAM OFFICE BEARERS FOR THE YEAR 2019-2021

Council		
Post	Company/Individual/State Association	Representative
President	Gruppe Lighting Solution Sdn Bhd	C T Siew
Deputy President	Abbaco Controls Sdn Bhd	Ir Chang Yew Cheong
Immediate Past President	Ir Yong Ah Huat	-
Past Presidents	Amalgamated Engineering & Commercial Co (KL) Sdn Bhd	Suresh Kumar J Gorasia
	EITA Resources Berhad	Fu Wing Hoong
	G H Liew Engineering (1990) Sdn Bhd	Ir Chew Shee Fuee, <i>KMN</i>
	Dato' Ir Lee Peng Joo	-
Vice Presidents	Euro Electrical Sdn Bhd	David Chong Ah Nyap
	NK Engineers Sdn Bhd	Ir Kok Yen Kwan
	Sena Letrik (M) Sdn Bhd	Simon Leong Kien Khan
Honorary Secretary	Furutech Electrical Sdn Bhd	Lee Peng Sian
Honorary Treasurer	QAV Technologies Sdn Bhd	Lim Sai Seong
Assistant Honorary Secretary	Syarikat Pembaiki Letrik Leong Hing	Ir Dr Ng Kok Chiang
Assistant Honorary Treasurer	Nanyang Electric Co (M) Sdn Bhd	Stan Lim Hui Ming
Committee Members	Aras Kejuruteraan Sdn Bhd	Datuk Ir Azlan Robert Abdullah
	Candlelux Marketing Sdn Bhd	Liow Lih Na
	CS Project & Engineering PLT	How Chee Seng
	Davex (Malaysia) Sdn Bhd	Chaw Wei Yin
	Electrical Association of Sarawak & Sabah	Hii Hua Chuon
	Empire Chain Sdn Bhd	Philip Por Tuan Lip
	Johor Bahru Electrical & Electronics Association	Lee Chee Boon
	KDK Fans (M) Sdn Bhd	Leonard Choong Kin Loong
	Malacca Electrical Contractors & Traders Association	Gan Seng Chong
	Malaysia CIE	Narendren Rengasamy
	Negeri Sembilan Electrical Engineering Association	Chew See Kheng
	Paramount PES Engineering Sdn Bhd	Dato' Andy Tan Boon Hin
	Penang Electrical Merchants' Association	Darren Lee Weng Keen
	Perniagaan Kejuruteraan Chongs	Chong Yoon Koon
	Persatuan Kekompetenan Penjaga Jentera & Pendawai Elektrik Perak	Nick Liew Kar Hoe
	Sabah Electrical Association	Leslie Jong Vui Kee
	Sandakan Electrical Engineering Association, Sabah	Chin Ket Hiung
	Sarawak Electrical Association	Dato' Sri Ir Peter Lu Nguang Siong
	DPI Industries Sdn Bhd	Rajasegaran Bungara Naidu
	Sik Supply Sdn Bhd	Chris Yow Loo Sik
	SW Electric Sdn Bhd	Lee Chee Kin
	The Perak Electrical Association	Chan Kaim Sam
	TS Electrical Marketing Sdn Bhd	Nathan Chiam Tow Jen
	Welux (M) Sdn Bhd	Julee Tan Chiew Theng
	Wintrad Industries Sdn Bhd	Willy Wong
	Zenith Electric Company (M) Sdn Bhd	Ng Kiet Tay
Technical Advisors	Datuk Ir Ahmad Fauzi Hasan	-
	Ir Rocky Wong Hon Thang	-
Internal Auditors	Letrik PJ Union Sdn Bhd	Fong Mun Loon
	Translite Electric Sdn Bhd	Yong Kim Yun
Trustees	Amalgamated Engineering & Commercial Co (KL) Sdn Bhd	Suresh Kumar J Gorasia
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Study Visit to SHRDC, Shah Alam

TEEAM made a Study Visit to the Selangor Human Resource Development Centre (SHRDC) in Shah Alam on 27 June 2019. The Honorary Secretary, Mr Lee Peng Sian, led a delegation of 25 members for the Study Visit. SHRDC's training centre in Shah Alam is strategically located in the vicinity of Selangor's manufacturing and high tech hub, occupying 40,000 sq ft of space, equipped with the latest technology and infrastructure to accommodate modern and effective learning. Founded in 1992, SHRDC is a smart partnership between the Federal Government, Industry and the Selangor State Government. The Centre is not-for-profit and is an industry-driven training and talent development centre incorporating competency-based training.

Members were given a warm welcome by the SHRDC Executive Director, Mr Tan Beng Teong; its Chief Executive Officer, Ms Teh Sook Ling; and its Senior Manager of Corporate Communications,

Ms Koo Yi Lin. The session started with a briefing on the various skills training and talent development programmes offered by SHRDC. This was followed by a detailed explanation on the Malaysian Smart Factory (MSF) 4.0 programme. MSF 4.0 is an SHRDC partnership with the Swiss Smart Factory entity, delivering hands-on experience, training, technology and talent development for Industry 4.0 and Smart Factory competencies. The current programmes available under the INCERT Grant by HRDF for Smart Factory where contributors are entitled to a 50% discount of course fee and SME contributors are entitled to 100% course fees, include 'PLC Essentials for Smart Factory' and 'Data Generation'.

Members were later taken for a guided tour of the facilities at SHRDC. It was certainly a fruitful visit for all. A big thank you to SHRDC for the warm hospitality accorded to TEEAM.



Warm welcome – Mr Tan Beng Teong (SHRDC Executive Director) giving a Welcome Address.



Thank you – Mr Lee Peng Sian (TEEAM Honorary Secretary) presenting a Certificate of Appreciation to Ms Teh Sook Ling (SHRDC CEO).



Attentive – TEEAM's delegation at the training centre.



Ms Koo Yi Lin – SHRDC Senior Manager of Corporate Communications giving an informative presentation.



Hands-on – Wiring courses are offered at SHRDC.



Interesting – Tour of the Centre's facilities.



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Gen Set & ATS Controller

GENSET CONTROLLER

Auto-Main Failure
Control Module



HGM 6110N

Auto -Sync GenSet
Control Module



HGM 9510

Marine Engine
Controller



HMC 9000A

ATS CONTROLLER

ATS Control Module



HAT 560N



HAT821

SmartGen ATS control modules can be utilised to control Type PC, CB & CC Auto transfer switching equipment to IEC60947-6-1.

Automatic switching for two or three power sources with coupler or/with Generator/UPS can be program.

1. HAT 821 controller - Two Utilities sources with bus tie controlling two main circuit breakers & Bus Tie breaker
2. HAT 832 controller - Two Utilities sources with GenSet/UPS source using two tier transfer switching
3. HAT 833 controller - Two Utilities sources with GenSet/UPS source controlling three Main circuit breakers



HAT 700B



HAT832



HAT833

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BACM1206
(RS485)



BASM2406
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Study Visit to SHRDC, Shah Alam



Membership Recruitment Campaign

TEEAM appeals to members to help in recruiting companies and individuals to join the association to strengthen TEEAM's membership base. Incentives are offered by the Membership Recruitment Committee. Members introducing a company member will be entitled for two points, while introducing an individual member will be entitled for one point. The points can be accumulated and used to redeem free advertisements in Suara TEEAM or redeem membership subscription.

For details, please contact the TEEAM Secretariat at Tel: +603-9221 4417. The membership application form can be downloaded from the TEEAM website at www.teeam.org.my.

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GILE 2019, Guangzhou

The Guangzhou International Lighting Exhibition 2019 wrapped up its 24th edition by welcoming a whopping 172,856 visitors from 133 countries and regions and 2,626 exhibitors from 22 countries and regions. GILE 2019 was successfully held at the China Import and Export Fair Complex in Guangzhou, China. The Fair emphasised the importance of embracing change in the lighting industry, whether that be in the shape of smart and connected lighting, LED miniaturisation or even human-centric lighting. The lighting supply chain is also undergoing change with the growth of smart lighting and IoT applications as software developers, electronics engineers and lighting manufacturers begin to collaborate and analyse together the facets of the end-user product. New digital technologies are transforming the lighting industry and 'disruption' has been a key talking point among industry players.

Product groups at GILE 2019:

- * Lighting accessories, component and equipment (Lighting accessories, LED packaging components, electronic components, optical components, measurement equipment, testing equipment and LED packaging equipment)
- * LED technology (LED and Light sources, power supply, drivers and electronics, specialty applications, LED displays and signages)
- * Luminaries (Residential lighting/ indoor lighting, commercial lighting, industrial lighting, urban lighting, architectural lighting, outdoor lighting, smart lighting, and electric lights).

The show theme for 2019 was THINKLIGHT: Envisage the Next Move. This was aimed at encouraging the lighting community to see

the many changes as a means of progression and innovation. GILE will continue to devote its efforts into offering a dynamic hub for the lighting industry with a view to learn and share ideas across different disciplines and sectors plus establishing dialogue about strategies for a new, complex and ever-changing lighting market.



Networking – Mr Lee Peng Sian (TEEAM Honorary Secretary) and Ir George Ko (HKECA Past President) engrossed in discussion.

TEEAM was honoured to have been officially invited by the Organisers, namely, Guangzhou Guangya Messe Frankfurt Co Ltd and Messe Frankfurt (HK) Ltd, as the Special Guest to visit GILE 2019. TEEAM was represented by its Honorary Secretary, Mr Lee Peng Sian. The event was also attended by Ir George Ko, Ir Walter Au and Ir Lau Chun Kay of Hong Kong Electrical Contractors Association and trade delegates from Malaysia as well as other countries. TEEAM wishes to put on record its heartfelt thanks to Ms Lucia Wong and her team from Messe Frankfurt for their kind invitation, warm hospitality and great efforts in making all the necessary arrangements for our TEEAM representative.

The next Guangzhou International Lighting Exhibition (GILE 2020) will be held from 9 to 12 June 2020. Mark your calendar for this exciting lighting event



Concurrent event – A Forum at GILE 2019.



For the album – (from left) Mr Lee Peng Sian (TEEAM Honorary Secretary), Ms Lucia Wong (Deputy General Manager, Messe Frankfurt (HK) Ltd) and Ir George Ko (HKECA Past President).



Impressive – Good crowd at GILE 2019.



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IEM EETD-SEDA-TEEAM Dialogue

The Electrical Engineering Technical Division of the Institution of Engineers Malaysia (IEM-EETD) together with TEEAM, paid a courtesy visit to Ir Dr Sanjayan Velautham, Chief Executive Officer of the Sustainable Energy Development Authority Malaysia (SEDA) and consequently had a friendly tri-partite dialogue on 20 June 2019.

IEM EETD and TEEAM congratulated Ir Dr Sanjayan on his appointment as the CEO of SEDA and thanked him for hosting the dialogue session. Ir Dr Sanjayan and his senior officers welcomed the delegation from IEM-EETD and TEEAM. They then proceeded with the introduction of SEDA, IEM EETD and TEEAM.



All smiles – Fruitful meet amongst IEM-EETD, SEDA & TEEAM Officials.

Among the key issues discussed at the Dialogue session were the following:

- IEM EETD and TEEAM to work with SEDA on arranging Biogas/Biomass/Solar Power Plants technical visits and conference/seminar/training courses on Sustainable Energy involving the RE (Renewable Energy) and EE (Energy Efficiency) sectors,
- Safety issues of Solar PVs in case of a fire on the roof top of a solar integrated building. It was agreed to start off by having a discussion with BOMBA (Fire Department) and SEDA to identify the gaps and to address the safety issues. This included identifying the gaps and voids in the current technical standards and guidelines of RE,
- Assist on SEDA's Studies and Surveys on RE and EE Developments and to provide feedback,
- IEM EETD and TEEAM informed that they can support and

promote SEDA's initiatives and awareness programmes on RE and EE and on policies and data sharing with the members and relevant stakeholders. Ir Dr Sanjayan informed that SEDA is currently working on finalising the RE Transition Roadmap and will have a sharing session with IEM EETD and TEEAM members, and

- Route to Professional Engineer (PE) Workshop. IEM EETD and TEEAM will continue to provide workshops on Route to PE to SEDA's team with a view to encourage them to become Professional Engineers.

All in all, it was a fruitful tri-partite discussion amongst the three parties. It is hereby hoped that all can pro-actively contribute to the resounding development of the RE and EE industries for the nation. A group photo of the 16-strong tri-partite members capped off the highly fruitful Dialogue session.



2019 AFEEC-FAPECA Conference & Meeting in Korea

In-conjunction with BIXPO 2019, a Power Energy Exhibition organised by KEPCO

The Conference and Meeting of the ASEAN Federation of Electrical Engineering Contractors (AFEEC) and the Federation of Asian Pacific Electrical Contractors Associations (FAPECA) for 2019 will be held from 6 to 8 November 2019 at Kimdaejung Convention Centre, Gwangju, Korea. The theme for this year's Conference is "Power System Interconnection". The event will be hosted by the Korea Electrical Contractors Association (KECA).

The conference and meeting will draw participation from national associations including Association of Indonesia Electrical and Mechanical Contractors (AKLI), Hong Kong Electrical Contractors Association (HKECA), Singapore Electrical Contractors and Licensed Electrical Workers Association (SECA), Society of Philippine Electrical Constructors & Suppliers, Inc (SPECS), Taiwan Electrical Contractors Association (TECA), Thai Electrical & Mechanical Contractors Association (TEMCA), KECA and TEEAM.

TEEAM will be organising a delegation to attend the above events and members are invited to participate. This is a good platform to network with M & E contractors from ASEAN and the Asia-Pacific region.

For registration, please contact TEEAM Secretariat at teeam52@gmail.com.



Itinerary:

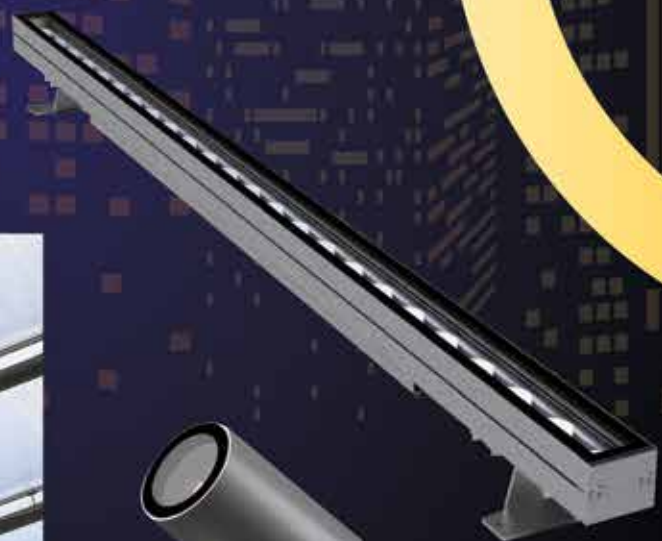
- Tues, Nov 5 : Arrival of Delegates
- Wed, Nov 6 : 10:00 am BIXPO 2019 Opening Ceremony
13:00 pm Tour of Exhibition
18:00 pm Welcome Dinner
- Thurs, Nov 7 : 08:30 am AFEEC & FAPECA Conference
16:00 pm AFEEC Council Meeting
17:00 pm FAPECA Board Meeting
19:00 pm Farewell Dinner
- Fri, Nov 8 : Tour of Industrial Facilities (subject to confirmation)
Tour & Activity (subject to confirmation)
- Sat, Nov 9 : Departure



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ARCHIDEX 2019

South East Asia's most successful annual industry trade event for the architecture, interior design and building fraternity – ARCHIDEX (International Architecture, Interior Design and Building Exhibition) has continually been reaping phenomenal success and garnering steady growth through strategic planning and partnerships since its introduction in 2000.

ARCHIDEX 2019 was held from 3 to 6 July 2019 at the Kuala Lumpur Convention Centre, and it is widely recognised as a leading event that draws together South East Asia's fraternity of architects, interior designers, developers, urban planners, engineers, academicians, students and various related industry professionals. It is a prestigious platform that features the latest products' trends and innovation with cutting-edge technologies, alongside talks, discussions and industry updates from leading architects of the industry. ARCHIDEX has firmly established itself as a key multinational 4-day exhibition. It drew some 35,000 visitors

comprising professionals and trade visitors of the industry hailing from over seven countries.

TEEAM Council Members, Mr Chris Yow and Mr Narendren Rengasamy attended the Opening Ceremony. ARCHIDEX 2019 is jointly organised by the Malaysian Institute of Architects (Pertubuhan Akitek Malaysia or PAM) and CIS Network Sdn Bhd, a leading Malaysian trade and lifestyle exhibitions organiser. TEEAM was pleased to have been invited to be one of the Supporting Organisations and had an Executive Council Meeting during the event. The Networking Cocktail held on the third day was a good event which was attended by TEEAM to network with the people in the architecture, interior design and building fraternity.

ARCHIDEX 2020 is set for 1 to 4 July 2020 at the KL Convention Centre.

Snapshots at ARCHIDEX 2019



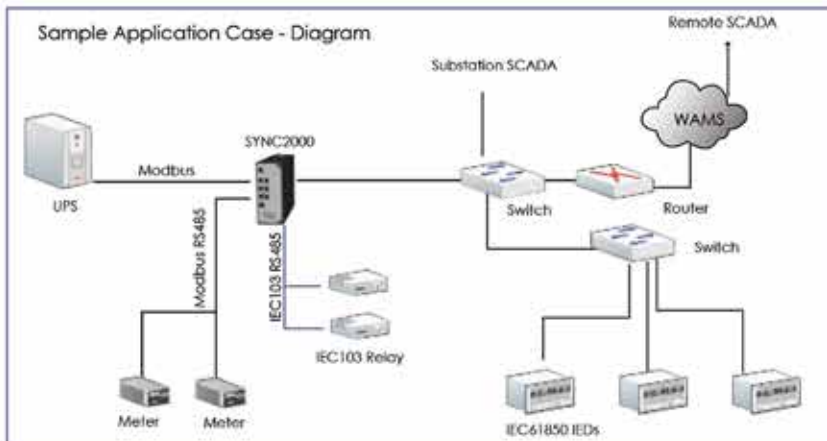
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Sample Application Case - Diagram



Applications

- Substation Protocol Gateway
- SMS Gateway

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ASEAN Super 8

ASEAN Super 8, ASEAN's leading event for the built environment, combining eight established events, was held in conjunction with the International Construction Week (ICW). The ASEAN Super 8 includes ASEAN M&E, TENAGA, ASEAN Solar, ASEAN Lift, ASEAN Ecolight, Ecobuild Southeast Asia, HeavyMach and IFSEC Southeast Asia.

ASEAN Super 8 organised by UBM Malaysia, was successfully staged from 19 to 21 March 2019 at MITEC Kuala Lumpur. ASEAN Super 8 brought together a plethora of local and international companies and players from the construction, engineering, energy, heavy machinery & equipment and security industry. Industries had the opportunity to showcase innovations, source for suppliers, make valuable contacts with top industry players and stay updated with the latest developments in everything built environment related in this unique business trade platform.

ASEAN Super 8 attracted a total of 16,781 trade visitors from 61 countries, 339 exhibiting companies and 300 group visits from the corporate, government bodies, associations and universities. ASEAN Super 8 featured more than 300 sessions of Business Matching Meetings. The three day extravaganza event featured conferences, seminars and technology symposiums as well.

TEEAM was pleased to have been invited to be one of the Supporting Organisations of this mega exhibition. TEEAM participated as an exhibitor as well and also had a Council Meeting during the event. It was a rewarding and enjoyable experience at ASEAN Super 8 for all attendees.

The next ASEAN Super 8 is booked for 23 to 25 June 2020 at MITEC Kuala Lumpur. Hope to see you there!

Snapshots of ASEAN Super 8



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Environment-friendly	✓	—	✓
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No preparation of the connection necessary	✓	—	✓
No welding expert needed	✓	—	✓
No risk for the operator by harmful welding smoke	✓	—	✓
Mounting during rain	✓	—	✓
Corrosion-resistant	✓	✓	✓

* when using a torque wrench

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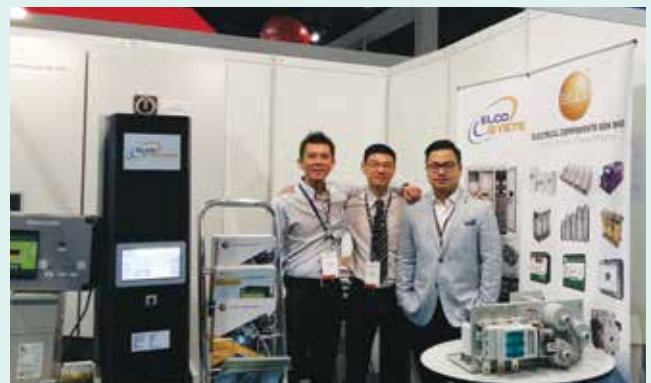


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Snapshots of ASEAN Super 8



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TiLS 2019, Taiwan

Taiwan International Lighting Show (TiLS 2019) which was held from 8 to 10 May 2019 at the Taipei Nangang Exhibition Centre, was organised by the Taiwan External Trade Development Council (TAITRA) and Taiwan Lighting Fixture Export Association (TLFEA).

The exhibits range included Lighting Integration, Lighting Design, Home/Residential Lighting, Commercial Lighting, Intelligent Lighting, Outdoor Lighting, Lighting for Kitchen and Furniture, Plant Factory and Lighting, Automotive Lighting, Special Lighting, Health Care and Institutional Lighting, Medical, Cosmetic and Beauty Lighting, Building Material and Lighting Applications, Neon/Light Boxes, Lighting Accessory, Lighting Production Equipment, Test and Inspection Equipment, LED Process Equipment, Materials and Components.

Industry Forums and Seminars were held during the Show to enable world-renowned experts and industry giants to share innovative lighting technologies and applications. The one-on-one procurement meetings were arranged for buyers to source lighting products and meet face-to-face with the suppliers. TiLS 2019 generated boundless business opportunities for both the visitors and the exhibitors/suppliers.



Curtains up – VIPs at TiLS 2019 Opening Ceremony

TEEAM was honoured to have been officially invited by TAITRA to visit TiLS 2019. A 10-member delegation headed by Deputy President, Ir Chang Yew Cheong, visited the Show. TEEAM wishes to put on record its heartfelt thanks to TAITRA and the Kuala Lumpur Taiwan Trade Centre for their kind invitation and excellent arrangements for our delegates during their stay in Taipei.

Snapshots of TiLS 2019, Taiwan





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Talk on Occupational Safety & Health

A Talk on Occupational Safety & Health (OSH) was organised on 26 February 2019 at TEEAM's Seminar Room. Guest Speaker was Mr Shahronizam Noordin from the National Institute of Occupational Safety & Health (NIOSH). Mr Shahronizam has more than eighteen years of working experience with NIOSH and he is responsible for conducting occupational safety programmes such as training, consultancy, audit, R&D and information dissemination that will expand the understanding of Occupational Safety & Health issues.

Mr Shahronizam enlightened the participants on Occupational Safety & Health management & legal compliances in workplaces. Most importantly he spoke on the NIOSH Safety Passport. NIOSH Safety Passport System is a series of training programme designed for specific target groups on specific OSH subjects and for a specific industry. The system provides the appropriate training and assessment so as to ensure that the target group acquire the appropriate and necessary safety and health knowledge required for

their jobs and fulfil the legislative requirements and the companies' policies. The series include induction training for contractor, permit to work, confined space and job safety analysis.

Currently NIOSH conducts twelve Safety Passport programmes for various industries. Contractors lament that they have to attend many NIOSH Safety Passport courses and sit for exams and pay the fees. The NIOSH Passport is a requirement by GLCs for Contractors to carry out works at their sites. It is a great burden and time consuming for Contractors to attend so many quite similar modules of safety courses. Contractors appealed to the Speaker to channel the issue to NIOSH Management to resolve. A common safety module can be tailored for all industries. Hence, Contractors save the hassle of going through so many courses. However, Mr Shahronizam informed that their Safety Passport programmes are tailored to their Clients' requirement.

The Talk was interesting and attracted some 20 participants to attend.

Snapshots of Talk on Occupational Safety & Health



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We in TEEAM care for our members' interests! One of the benefits for our members is that the TEEAM Secretariat had obtained discounts on room rates from selected hotels. Whether you are on a business trip, family holiday or organising seminar, TEEAM will always be happy to assist you. Call us for details on the discounts available.

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National Workshop on Wiring Standards

The Engineering Construction and Services Committee of TEEAM successfully organised a full day Workshop on Wiring Standards on 12 July 2019 at Hotel Armada, Petaling Jaya. The workshop dealt with the very essence of the electrical industry, which is wiring practice and standards. It was co-organised with the support from the International Copper Association of Southeast Asia and from our sponsors, Schneider Malaysia and Master Tec Wire & Cable. The Workshop also drew support from the Energy Commission (Suruhanjaya Tenaga – ST), Construction Industry Development Board Malaysia (CIDB), Institution of Engineers Malaysia (IEM) and Malaysia Cable & Wire Manufacturers Association (MCMA).

The Workshop is rooted in the current requirement of the ‘Professional Competency Examination’ (PCE). The requirement is enforced by the Board of Engineers Malaysia since 2018. Wiring standards and practices are part of the published syllabus of the PCE. The PCE implements a ‘2-tier’ Professional registration system. It is offered only for engineers with PEng (Professional Engineer) certification. They are required to sit for a professional examination which leads to the ‘Practice License’ for engineers who wish to submit plans under the Building/Construction sector.

While this workshop is meant to be an update for past PEng candidates who aim to take the PCE, it is also useful for existing PEng participant (engineers registered as PEng before 2018 are

exempted from the PCE), to update their knowledge and skills (if they are practicing as submitting engineers in the construction industry).

Among the topics presented were:

- * Regulatory Updates for Electrical Safety by Mr Mohd Elmi Anas (ST)
- * A Review and Updates to Technical Standards for Wiring Design by Ir Lim Kim Ten (IEM)
- * Voltage-Dependent RCD and Regulatory Practice – An Update by Mr Dahari Mat Siran (Chairman, Technical Committee for Low Voltage Assemblies Controls - TCLVAC)
- * Earthing from the Perspective of Power System and Equippotential by Ir Looi Hip Peu (TEEAM)
- * Safe Cable Installation by Mr Lokman A Dahlan (MCMA)
- * 10 Common Design Mistakes of Design Engineers by Ir Looi Hip Peu (TEEAM)
- * Building Wiring Inspection by Ir Chew Shee Fuee, KMN (TEEAM)

The Workshop successfully registered 90 participants. Overall, it was a very fruitful Workshop for participants to bring back useful information for their own personal use and also for their company’s professional development.



Snapshots of National Workshop on Wiring Standards





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Snapshots of National Workshop on Wiring Standards



Workshop Speakers



Mr Mohd Elmi Anas (ST)



Ir Lim Kim Ten (IEM)



Mr Dahari Mat Siran (Chairman, TC for LVAC)



Ir Looi Hip Peu (TEEAM)



Mr Lokman A Dahlan (MCMA)



Ir Chew Shee Fuee, KMN (TEEAM)

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Educational Visit to Tzu Chi Foundation in Kepong

TEEAM's Corporate Social Responsibility (CSR) Committee organised an Educational Visit to the Tzu Chi Foundation Centre in Kepong on 9 March 2019. Tzu Chi is a Taiwanese Buddhist Foundation that has a network in 94 countries and carries out missions of charity, medicine, education and humanistic culture. Some 20 TEEAM members including their friends and family members joined the visit. Tzu Chi Centre in Kepong is set in a huge compound and is very well kept. The Centre receives many visiting guests and runs many charitable activities.

Upon arrival, TEEAM's delegation was warmly received by Tzu Chi volunteers and we were then ushered to the meeting room for a brief presentation on Tzu Chi's works and also a talk on environment protection. TEEAM's delegates were very impressed of Tzu Chi's contributions to society in terms of aids and assistance to the needy, disaster relief efforts, environment protection initiatives and education support.

There are now some 156 Tzu Chi offices and contact points in Malaysia with more than 18,500 volunteers. Besides charity support, Tzu Chi has set up continuing education centres to impart knowledge and skills training through professionally designed courses. Tzu Chi's initiatives in environmental protection is indeed remarkable. It has some 360 recycling centres in the Klang Valley and they are operated by volunteers. Tzu Chi also inculcates the public to go for green living by bringing their own meal utensils to reduce the use of paper, disposable plastic and polystyrene wares.

Delegates were later given a guided tour of the Tzu Chi Centre and also their recycling centre in Desa Park City. They were amazed to learn about Tzu Chi missions and works in Malaysia and around the world.

TEEAM wishes to put on record its heartfelt thanks to the volunteers of Tzu Chi for their warm hospitality and kind arrangements.



Attentive – Participants listening attentively to a presentation.



For the album – Group photo at the recycling centre



For the record – Tzu Chi media team interviewing TEEAM CSR Chairman, Mr How Chee Seng.



Charity at heart – Tzu Chi volunteer, Mr Lee Peng Sian who is TEEAM Honorary Secretary giving an explanation of Tzu Chi's works.



Fruitful visit – All thumbs up!



Green living – A Tzu Chi volunteer inculcates the practice of 5R in our daily life.

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2019 MIECF, Macao

Hosted by the Government of the Macao Special Administrative Region (SAR), the 2019 Macao International Environmental Co-operation Forum & Exhibition (2019 MIECF) was successfully held from 28 to 30 March 2019. This year's event was themed 'Promoting Ecological Civilization and Green Development'.

The 2019 MIECF was supported by the National Development and Reform Commission, the Ministry of Science and Technology, the Ministry of Industry and Information Technology and the Ministry of Ecology and Environment of the People's Republic of China. It was co-organised by the Governments in the Pan-Pearl River Delta Region and co-ordinated by the Macao Trade and Investment Promotion Institute (IPIM) and the Environmental Protection Bureau (DSPA).

The 2019 MIECF showcased the Green Forum and the Green Showcase. A total of eight green forums were held together with one keynote speaker special session which attracted more than 4,700 participants. Covering a total area of about 16,900 square metres, the 2019 MIECF was joined by over 500 exhibitors from China, "Belt and Road" countries, European countries and Portuguese-speaking countries.

During this year's MIECF, technical visits were organised for visitors to the Macao Electronic Waste Recycling Treatment Facility and the Hong Kong-Zhuhai-Macao Bridge and Macao Port, for the delegates to learn about local efforts to promote environmental protection and the development of infrastructure. Another visit was also organised to inspect environmental projects and technologies of green companies

in the city of Zhuhai, Guangdong province, with the aim of learning about local facilities and projects relevant to environmental protection.

Meanwhile, a city tour was also arranged to Macao's Central District and the Macao Products Bazaar for visitors to experience the Macaonese culture and the community's economy.

TEEAM organised a 10-member delegation to visit the Green Showcase and participated in the Green Forum and Green Matching events as well as the networking activities, to gain exposure to the green markets in the region. TEEAM also took part as an exhibitor to promote the Association's activities. It was a very good exposure and also a great opportunity to meet so many participants from the Green Industry sector across the region. TEEAM wishes to put on record our heartfelt thanks to the Government of Macao SAR, IPIM and Koelnmesse for their kind invitation, warm hospitality and great efforts in making all the arrangements for our delegation. The next MIECF will be held from 26 to 28 March 2020. Mark your calendar for this exciting event in Macao!



Overwhelming attendance – A cross-section of the Green Forum crowd.



All smiles – TEEAM's delegates at 2019 MIECF Opening.

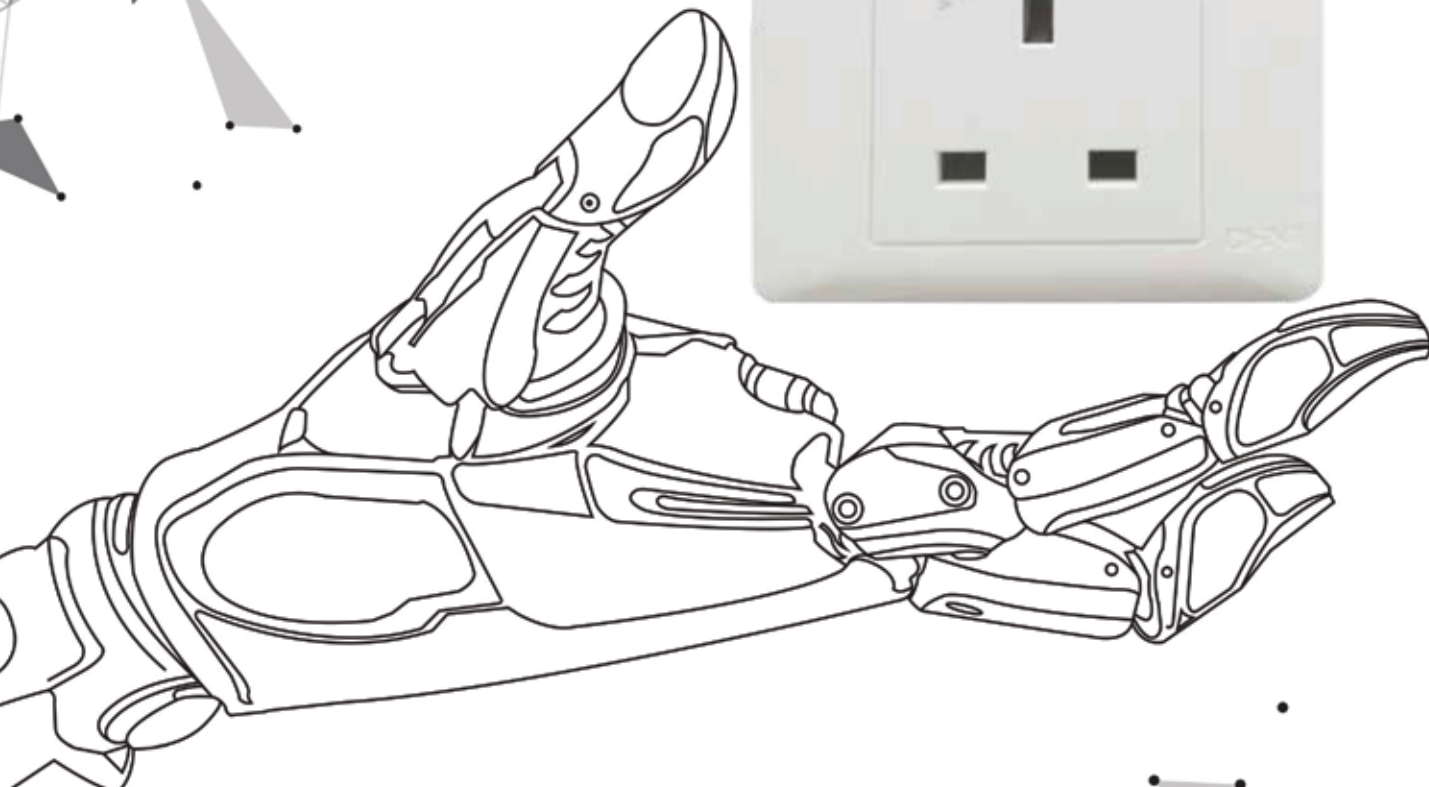


Cheers! – TEEAM's delegates at the Green Gala Dinner.



At TEEAM's Booth – Guests posing with TEEAM's delegates

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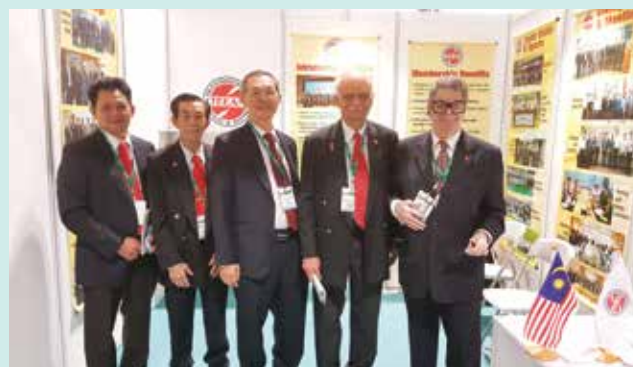
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Snapshots of 2019 MIECF, Macao



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Durian Outing to Bukit Tinggi

A durian outing was organised by the Membership and Sports Committee to the famous durian farm at The Waterway Villa in Bukit Tinggi, Pahang on 6 July 2019. It was TEEAM's third such trip to savour durians for durian-lover TEEAM members and also for the purpose of networking. The Waterway Villa is a lovely retreat resort with a beautiful landscape. Upon arrival, members were given a guided tour of the resort before gathering to savour the king of fruits. They happily ate 60 kgs of the Musang King, D24 and Tekka species. The outing attracted some 26 members, including their family members.

Overall, it was indeed a truly enjoyable outing to the countryside. Everyone drove back with their cars loaded with the aromatic fruits to share with their loved ones back home!



This one for me! - Durian-lovers at the farm.

Snapshots of the Fun-filled Durian Outing



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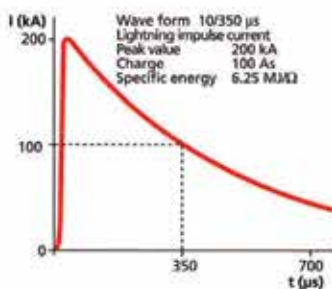
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Challenges and Opportunities in the Electrical Industry – Part 34

By Ir Chew Shee Fuee KMN, TEEAM Past President

ISO 50046:2019 - General methods for predicting energy savings has been published since February 2019. I have extracted some of the important highlights of the standard.

This document specifies general methods for the calculation of predicted energy savings (PrES), using measure-based calculation methods, also known as bottom-up or energy performance improvement actions (EPIAs)-based methods (see ISO 17742). Indicator-based methods (see ISO 17742) and total-consumption-based methods (see ISO 50047) are not included in the scope of this document.

This document provides general principles for categorising and choosing the method, taking account of the context, targeted accuracy and resources available for calculating the PrES. It also provides guidance on the conditions for ensuring the quality of the PrES, their documentation and validation.

It is applicable to calculation of PrES for any:

- type of EPIA;
- end-use sector;
- energy end-use;
- level of aggregation of energy savings;
- stakeholder.”

There are 4 General Formulae which are:

Formula 1

PrES = energy baseline – predicted energy consumption

Formula 2

Pr ES = energy baseline X predicted energy savings ratio

Formula 3

Predicted energy savings ratio = $1 - \frac{\text{predicted energy consumption}}{\text{energy baseline}}$

“Wherever possible, actual energy consumption data should be obtained, as it usually incorporates all the technical and usage characteristics of the specific EPIA being assessed and is the soundest basis for determining an EnB. Wherever this is not possible, an effort should be made to create these characteristics so as to calculate the energy consumption that best represents the baseline energy consumption that would have occurred. Credibility can be increased if:

- the EnB is calibrated with data from actual energy consumption and the results of the calibration documented; or
- the inputs and model development are documented and compared to historical norms, if they are available; or
- the model used”.

Type I calculation

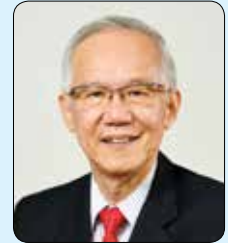
The EnB or predicted energy consumption for type I can be determined using empirical estimation. The EnB or predicted energy consumption is then directly determined based on energy consumption data, for example, from previous monitoring of the energy using systems where the EPIA is planned to be implemented. In that case the calculation formula will be either Formula 1 or Formula 2 and 3

Type II calculation

The EnB for type II can be determined using statistical or engineering modelling, or a combination of both. In this case, the adaptation of Formula (1) is given by Formula (4).

PrES = $f(X_1; X_2; \dots; X_i; \dots; X_n) - g(X_1; X_2; \dots; X_i; \dots; X_n)$ (4)

Ir Chew Shee Fuee KMN B Sc (Hons) (Strathclyde), PEng, CEng, FIEM, MIEE Member, IEEE Member, 1st Grade Electrical Engineer (Competent up to 500 kV).



Ir Chew was President of The Electrical and Electronics Association of Malaysia (TEEAM) for 2001-2005 and 2013-2017. He was the President of the ASEAN Federation of Electrical Engineering Contractors (AFEEC) for 2016-2018. He is the Chairman of The Institution of Engineering & Technology (IET) Malaysia Local Network. Ir Chew is the Managing Director of G H Liew Engineering (1990) Sdn Bhd and Chris Chew Electrical Consultant. He graduated from the University of Strathclyde, Glasgow with a B Sc (Hons) in Electrical & Electronics Engineering. He is a Professional Engineer and is also licensed by the Energy Commission as a Competent Engineer (without voltage limits) and a Service Engineer to carry out electrical testing up to a voltage of 500 kV.

Ir Chew has more than 30 years of industry experience in electrical control and relay protection. He is also specialized in electrical site tests on power equipment, electrical fault investigation, service and maintenance of electrical switchgears and relays. His work also includes electrical supervision of sub-stations and electrical audit. He also presents lectures on electrical apparatus and the protection system. He was Vice-Chairman of MyENC (Malaysian Electro-Technical National Committee) and is a Member of Technical Committees (TCs) and Working Groups (WGs) in Standards Development. He can be reached at E-mail: sfchew@ghliew1990.com.

where

$f()$ is the function used to represent the EnB;

$g()$ is the function used to represent the predicted energy consumption;

X is a variable affecting the energy consumption

i is the index for the variables

Overall calculation process

Irrespective of the calculation method used, the calculation of PrES aims at calculating the difference between the EnB and the predicted energy consumption. Figure 6 shows the overall calculation process, highlighting the key steps of the process and their purpose. This process might be iterative.

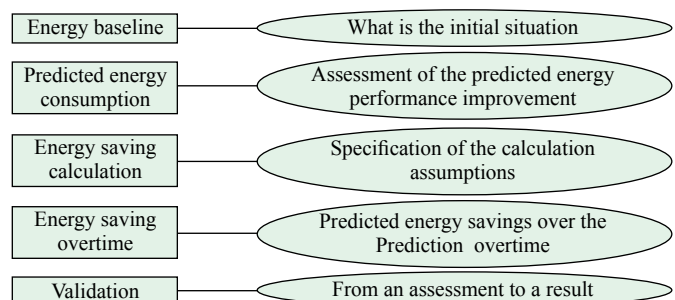


Figure 6 – Overview of the calculation process



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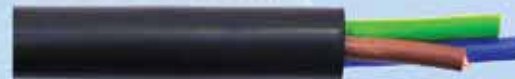
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Budget Consultation 2020

The Budget Consultation 2020 was organised by the Ministry of Finance, Malaysia (MOF) on 27 June 2019 at the MOF Building in Putrajaya. This Consultation Session provided a platform for participation and engagement from the Public, Private, People and Professionals (collectively termed as '4P'). The theme was 'Shared Prosperity: Engendering High Quality Inclusive Growth Towards High Income Economy'. It was chaired by the Minister of Finance Malaysia, YB (The Honourable) Lim Guan Eng.

TEEAM was represented by Mr C T Siew (President) and Mr Stan Lim (Assistant Honorary Treasurer). The Consultation Session was attended by over 304 organisations.

The inputs gathered from the Consultation Session will be analysed and considered in the preparation for the tabling of the 2020 Budget on 11 October 2019. The Government seeks to achieve the goal of 'Shared Prosperity by collaboration with the Rakyat and stakeholders of the economy in the following areas:-

- 1) Health and Social Security for the B40 Group
 - One-off payment of RM8,000 when the person contracts any of the stipulated 36 critical illnesses. In addition to that, RM50 per day (Max RM700) is also allocated.
 - Reduction of unemployment among youths.
 - A Cost of Living Index will be created to be used in tandem with the Consumer Price Index, to formulate welfare programmes and provide essential assistance for the B40 Group.
- 2) Inclusive Growth
 - By the removal of monopolistic businesses.
 - By empowering to create a healthy and competitive business environment, governed by the rule of law.
 - Promoting Competency, Accountability and Transparency.
- 3) Growth Acceleration
 - Industry 4.0
 - a) Incentives of digitalisation process to encourage Automation, Economies of Scale and Big Data.
 - b) Higher worker income via high productivity.
 - Lowering the cost of high speed internet for digitalisation acceleration.
 - RM2 Billion allocation for SME and RM1 Billion for Bumiputera SME via Syarikat Jaminan Pembiayaan Perniagaan .
 - RM3 Billion allocation for others via Bank Pembangunan.
- 4) Engagement and Collaboration with 4Ps
 - RM50 Million co-investment fund for peer-to-peer and crowd-funding for micro-SMEs.
 - Development of universities as bedrocks for digitalisation and Industry 4.0 via the inclusion of key economic components (namely, patent office, industrial offices, financial centres

and incubation centres) in the Economic Master Plan for 2020.

- Increasing Exports and Foreign Direct Investments (FDIs).

5) Fiscal Deficit Efforts

- Government will strive to reduce fiscal deficit to strengthen the economy. It has thus far been successful in reducing the deficit to 3.4% of the GDP, compared to 2017 which was at 3.7%. It has also targeted to achieve 3.0% in 2020 and below 3.0% by 2021.
- Reduction of fiscal deficit is essential for Malaysia's credit rating at A3/A-.
- Increased efforts to recover funds of RM150 Billion due to legacy issues.
- Establishment of MOT Debt Management Office.

MOF extends its gratitude to the 162 organisations that have submitted over 1,516 issues for the Ministry's action, the highest recorded in history. In conclusion, the Minister asserts that he will prioritise swift action in the following six (6) areas:-

- 1) The need for easy, quick and efficient access to loans and funding.
- 2) Taxation issues.
- 3) Bureaucracy issues of foreign workers employment.
- 4) Improvement of efficiency in the Government delivery system.
- 5) Trade war between USA and China.
- 6) Industry 4.0 and the Digital Transformation Plan.

It was a highly fruitful engagement session for all who had attended the Budget Consultation 2020 Session at the Ministry of Finance, Malaysia.



TEEAM's Representatives – (left) Mr C T Siew (President) and Mr Stan Lim (Assistant Honorary Treasurer).



Overwhelming attendance – Budget Consultation 2020 Session.

This report was prepared by Mr Stan Lim (TEEAM Assistant Honorary Treasurer) who attended the Consultation Session.



..... Continue Challenges and Opportunities in the Electrical Industry – Part 34

Types of EnB

Table 3 – Types of EnB

Type of energy baseline	Purpose	Examples (for the EnB in the case of a replacement of refrigerator)
"Context-specific before"	To represent the actual situation before the implementation of the EPIAs	Metered energy consumption of the refrigerator to be replaced
"Context-specific without"	To represent what would be the situation without implementation of the EPIAs, at the same time horizon as when the EPIA would be implemented	Energy consumption of the new refrigerator that a given household was planning to buy, before being offered a grant for another refrigerator with a higher energy efficiency
"Reference before"	To represent a reference situation before the implementation of the EPIAs,	Average energy consumption of the stock of refrigerators for the area considered
"Reference without"	To represent a reference situation without the implementation of the EPIAs	Minimum energy performance requirements set by legal or other requirement, or market average

Conditions of validity according to type of assessment

Table 4 – Conditions of validity according to type of assessment

Type of assessment	Type of assessment
Specific to a given context (given characteristics of the EPIA, given conditions of implementation)	Values can be used when planning the same type of EPIA in a similar context
Average value to be used to calculate the energy saving of a large number of EPIAs	Values cannot be used for a specific context, and representativeness of the average value should be checked
Based on operating conditions set in a regulation or specifications (e.g. manufacturers' data)	This choice should be mentioned in the documentation, and the assessment verifies whether the predicted operating conditions are similar to the pre-specified operating conditions (see 6.5.1)





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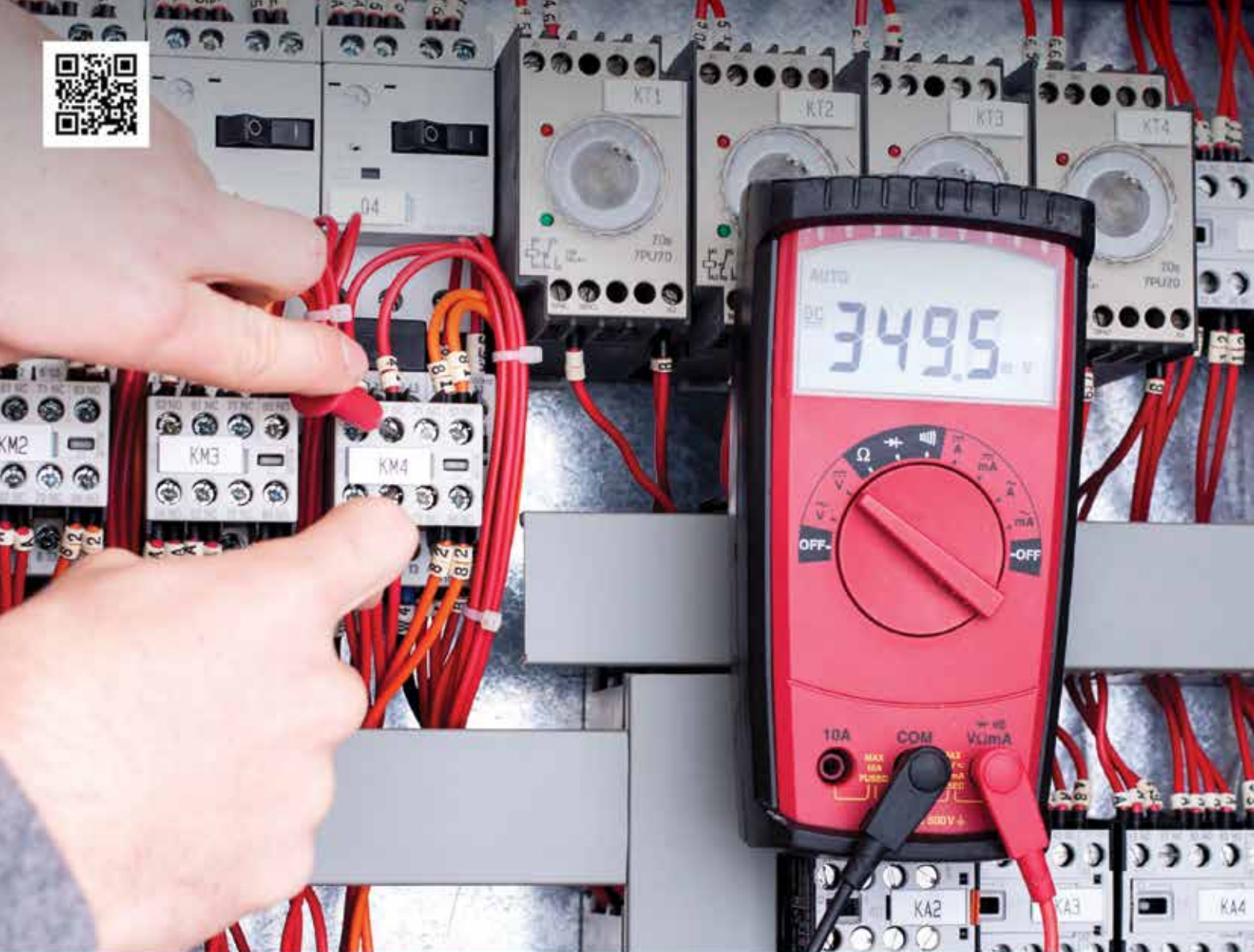
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IEC: Shaping the Future of Global Standardisation and the Way Forward for Industry 4.0

By Mr Alex Looi Tink Huey

Industry 4.0 encompasses production/manufacturing-based industries, marrying advanced manufacturing techniques with digital transformation, driven by connected technologies to create intelligent manufacturing systems which are not only interconnected, but also have the ability to communicate, analyse, forecast and use this information to drive further intelligent actions.

New business models and technologies such as the Internet of Things (IoT), big data, artificial intelligence (accurate diagnosis in healthcare systems, market and financial data analysis, self-driving cars, etc.) and additive manufacturing (aerospace and automotive components manufacturing, biocompatible materials for customised implants, life-saving devices in the medical sector, efficient and environmentally friendly energy and power sector components manufacturing, etc.) are driving the change of current business models and shifting the global economics and market structures.

Industry 4.0 is opening the door to connectivity, innovativeness and economic strength, allowing businesses to be more flexible, efficient and resource-saving. The key ingredient to this digital revolution is data. The efficient utilisation of transforming raw data into meaningful information is an essential enabler for future businesses. The wide use of new and advanced technologies requires an intelligent integration system, which can only be achieved if the relevant technologies, interfaces, frameworks and formats conforms to globally accepted standards. Therefore, Industry 4.0 and standardisation must go hand in hand.

Industry 4.0 involves global economic transformation. Hence, national standardisation activities need to be harmonised with the international level to focus on stipulating the international collaboration and cooperation mechanisms and exchange of information. In Malaysia, the Ministry of International Trade & Industry (MITI) is spearheading the national transition to Industry 4.0 through collaborative efforts with relevant ministries and agencies, funding and incentives, talent and human capital, technology and standards and digital-infrastructure and ecosystem.

The IEC has embarked on the development of Smart Manufacturing standards with the International Organisation for Standardisation (ISO) such as the participation of Joint Technical Committee, ISO/IEC JTC 1 – the standards development environment for Information and Communication Technology (ICT) to form Working Groups (WGs) to look into harmonising existing reference models and to oversee the development of the underlying architecture for smart manufacturing.

The main pillars or technology drives of Industry 4.0 include Autonomous and Artificial Intelligence (AI) where production or manufacturing processes will become increasingly digitised and interconnected cyber-physical systems. A recent article by the Forbes, Artificial Intelligence Beats the Hype with Stunning Growth, suggests that investment in AI is growing very fast. The Stamford, Conn., firm found that AI implementations grew 37% during 2018, and 270% over the last four years. IDC Corp., an international investment service forecasts spending for cognitive and AI systems will reach US\$77.6 billion by 2022, and notes that 60% of global GDP should be digitised by 2022, driving almost US\$7 trillion in Information Technology (IT) spending. Today, all sectors rely heavily on AI, from finance, manufacturing and robotics

Mr Alex Looi Tink Huey has two Bachelors' Degree in Electrical & Electronic Engineering and Software Engineering. He is the Head of Projects for Malim Consulting Engineers Sdn Bhd providing M&E consultancy services and turnkey project management for renewable energy power plants, commercial, and industrial developments; and Head of Projects for LAJ Engineering Sdn Bhd providing electrical contracting services: electrical installation inspection, T&C of high voltage



Mr Alex Looi Tink Huey
& low voltage electrical equipment, power system studies, power quality analysis, efficient energy management, and preventive maintenance programme. He is currently the elected Committee Member of the IEM Electrical Engineering Technical Division (EETD) and Chairman of the Activities Organising Committee. He is also an IEC (International Electrotechnical Commission) Young Professional and serves in the IEC SEG 10: Ethics in Autonomous and Artificial Intelligence Applications Committee. He is a Registered Electrical Energy Manager (REEM) with Energy Commission, Associate ASEAN Engineer (AAE), and a Certified Infrared Thermographer. He is also a member of TEEAM.

to healthcare, transportation, household appliances and even our smartphones which we carry everywhere we go!

AI is evolving and expanding far more quickly than we have ever imagined. So, it is important that AI technology standardisation needs to be considered to achieve global adoption. The AI ecosystem can be divided into three key areas involving technical, societal and ethical considerations.

How do we implement human ethics in AI? What moral decisions should be made by AI in self-driving cars on life and death situations? For example, if the brakes suddenly fail, should a car steer to the left and probably cause the death of one man or should it steer to the right and cause injuries to 20 people? The AI systems must be transparent to allow users to understand how AI decision-making is made.

The IEC Standardisation Evaluation Groups (SEGs) are established to identify new technical areas and to anticipate emerging markets or technologies such as smart manufacturing, communication technologies and smart home/office building systems. The IEC SEG 10 – Ethics in Autonomous and Artificial Intelligence Applications is set up to evaluate work that covers a broad area of new technologies to identify ethical issues and societal concerns throughout its work, and to collaborate with broader technical committees within the IEC as well as to develop broadly applicable guidelines for IEC committees on ethical aspects related to autonomous and AI applications.

AI helps to streamline efficiency for businesses in smart manufacturing as it can provide insights into where improvements can be made and more importantly, it can provide insights into where businesses can go further in terms of production planning. Standardisation is of central importance for Industry 4.0 which requires an unprecedented degree of system integration across domain borders, hierarchic boundaries, and life cycle phases. The IEC Standards are playing a key role in the transition to Industry 4.0.



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State Associations News



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JBEEA Annual General Meeting 2019

The Johor Bahru Electrical and Electronics Association (JBEEA) held its 2019 Annual General Meeting (AGM) on 22 March 2019 on a Saturday afternoon at their very own premise at Taman Iskandar, Johor Bahru.

Besides the Committee Members and existing ordinary members, some new members too attended the AGM. The Chairman expressed his appreciation for their presence. For the knowledge of the new members, the Chairman gave a briefing on the Association's activities and also answered their queries. The Chairman took this opportunity to encourage all members to join and participate in all the activities organised by the Association.

The AGM then continued with the standard Agenda being tabled and duly adopted, and later the meeting adjourned at about 3.00 pm.



Attentive –All ears during JBEEA's AGM proceedings.

Pre-AGM Talk

A Talk on 'Johor Investment and Development' was presented by YB (The Honourable) Mr Jimmy Puah Wee Tse, who is the ADUN (State Assembly Member) of Bukit Batu, Johor and also The International Trade, Investment and Utilities Committee Chairman. It was organised as a Pre-AGM Talk on 22 March 2019 for the members' benefits.



YB Mr Jimmy Puah – Presenting an informative Talk on Investment and Development in Johor.

JBEEA is grateful that YB Mr Jimmy Puah, in spite of his busy schedule, was able to allocate his valuable time to visit JBEEA's Office to give a presentation on a subject which is very much in the interest of Johor's contractors and businessmen.

At the presentation, YB briefed on the upcoming investment plans for Johor. He mentioned regarding the state budget for the year 2019 which related to the manufacturing, construction and development sectors. YB also touched on the strategies and perspective views of the electrical and electronics industries in Johor.

The discussions concluded with an interactive Q&A session with JBEEA members. The members then adjourned for a buffet lunch which was served at the ground floor of JBEEA's premise. JBEEA members thereafter proceeded to the 2019 Annual General Meeting.



Having a light breakfast before the Talk – In the centre is Guest Speaker, YB Mr Jimmy Puah. On the left is JBEEA Chairman, Mr Lee Chee Boon and on the right is JBEEA Honorary Secretary, Mr Javy Kam.



Sabah Electrical Association

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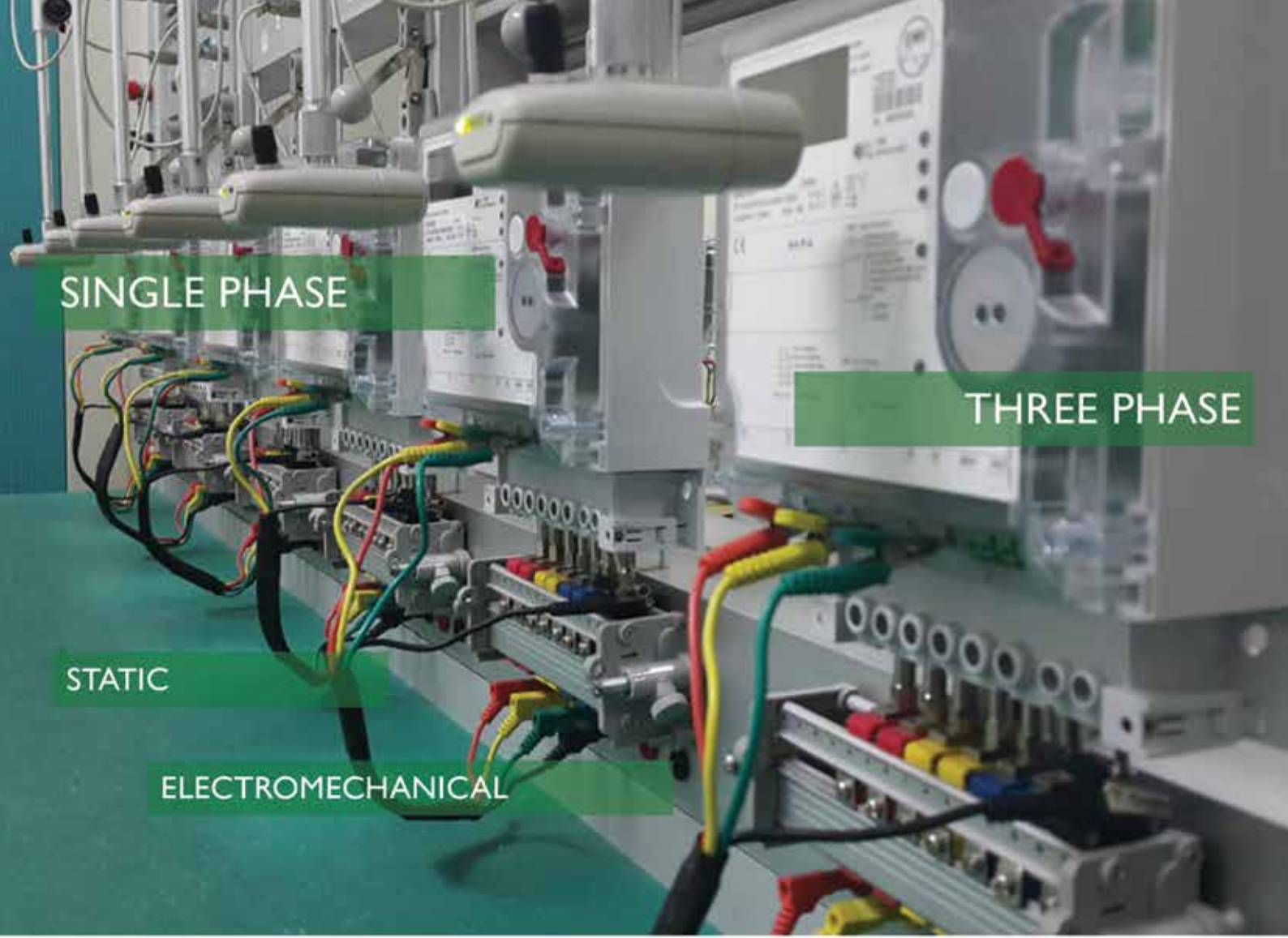
PES Fellowship Golf 2019

The Sabah Electrical Association (PES)'s fellowship golf was successfully held on 22 June 2019 at the Sabah Golf and Country Club. The fellowship golf was also organised as a token of appreciation to PES's Immediate Past President, Mr Bunny Teh, for his great contribution and success during his past two terms of leading PES.

There was a total of 60 golfers who participated in this year's competition. A big thank you was recorded to the major sponsors, Maxis Broadband Sdn Bhd and Topaire Sales & Services Sdn Bhd for being so generous in helping to make this event a great success.



All set – Group photo before the start of the game.



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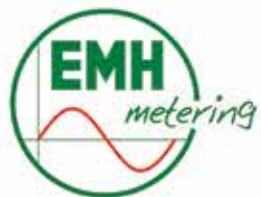
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E-mail: pema_pg@yahoo.com Website: www.pema.org.my

PEMA Walkathon

The Penang Electrical Merchants' Association (PEMA) Walkathon for 2018 was successfully held at the Youth Park on 9 December 2018. Mr Lim Kim San was the Organising Chairman. The objective of this event was aimed to foster a closer relationship amongst PEMA members, advisor and their employees and family members. About 150 participants took part in the event. Refreshments were served to all participants and there were also many attractive prizes for the lucky draw. PEMA President, Khaw Tatt Siew and Technical Advisor, Ir Tan Yeow Joo, flagged off the PEMA Walkathon 2018.



Ready-go! – PEMA President, Khaw Tatt Siew flagged off the Walkathon 2018.



Well done! - Group photograph of PEMA members, advisor and their employees and families.



Lucky-one! – PEMA President, Khaw Tatt Siew (right) presenting a lucky draw prize to a participant.

Charity Programme at St Joseph Home

In view of the tremendous success of the last charity programme and the feeling of joy in helping the unfortunate, the Welfare Committee under the stewardship of Mr Lim Kim San, successfully organised another Charity event at the St Joseph Home on 16 February 2019.

St Joseph Home is a charitable organisation providing holistic development and re-integration of the children into society. The pillars of the home are: Formation, Education and Community Life. It is a difficult struggle for them in their everyday life. They need a lifetime care from people like us and as. Subsequently, this event was an overwhelming success as PEMA managed to raise RM18,300.00, which was in excess of our original target. The Charity event was graced by YB (The Honourable) Phee Boon Poh, Penang State Exco for Environment, Welfare and Caring Society.



Gong Xi Fa Cai! – Group photo of YB Phee Boon Poh & PEMA Council Members at St Joseph Home.



Happy Trio – (left) PEMA President, Khaw Tatt Siew with PEMA Executive Advisor, Dato' Seri Hong Yeam Wah (centre) & YB Phee Boon Poh (right).



Roar! – Children happily posing with the "Lions".

PEMA 71st Annual General Meeting

PEMA's 71st Annual General Meeting (AGM) was held at the Association's premise on 14 April 2019. The meeting unanimously confirmed and adopted the minutes of the previous AGM which was held in 2018. This was followed by the Annual Report for the year 2018, which was tabled by the Honorary Secretary, Ir Lee Weng Keen. The Honorary Treasurer, Mr Neoh Boon Tong, tabled the audited accounts for the year ended 31 December 2018. Buffet lunch was served after the meeting.



Well done ! – All the award recipients posing with PEMA Council Members and guests after the presentation.



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PEMA's 71st Anniversary Dinner Celebration-cum-Academic and Scholarship Award 2019

PEMA celebrated its 71st Anniversary Dinner Celebration-cum-Academic and Scholarship Award 2019 at the Elite House Restaurant on 25 May 2019. The event was graced by YB Teh Lai Heng, Penang State Assembly Member of Komtar and Dato' Seri Hong Yeam Wah, Penang Chinese Chamber of Commerce (PCCC) President. More than 550 members and guests including PEMA's Trustees and Advisor attended the function.

The dinner started with a Welcome Address by Mr Khaw Tatt Siew (PEMA President). This was followed by speeches from Dato' Seri Hong Yeam Wah (PCCC President) and YB Teh Lai Heng (Penang State Assembly Member of Komtar).

In his opening address, PEMA President, Mr Khaw Tatt Siew, thanked all members, organisations and individuals for their support which had made the Anniversary Dinner-cum-Academic and Scholarship Award 2019 celebrations a great success. Over the years, the Association had attached great importance to the development of education. Therefore, similar events are held every year to fully reflect the noble purpose of the Association to encourage and recognise the children of PEMA members and their full-time employees and rewarding them to study hard and achieve superior results.

Besides celebrating PEMA's Anniversary, it was also included the PEMA Academic and Scholarship Award 2019. This started with an Address by Dato' Ooi Kok Kee (PEMA's Education Fund Committee Chairman). The PEMA Academic Excellence Award was presented to the children of PEMA members and their employees who had successfully achieved outstanding results in the national UPSR, PMR, SPM and STPM examinations. A total of 27 recipients were presented with the awards and the total amount awarded was RM4,700.00. Besides the awards, PEMA also presented the Final Year Scholarship Award of a yearly grant of RM2,000.00 to Ng Yun Ning who is pursuing a Diploma in E&E Engineering at INTI International College, Penang.

Excitements of the celebration dinner included singing, cake-cutting ceremony, presentation of certificates and souvenirs plus a lucky draw. Mr Khaw Tatt Siew presented mementos to the YB Teh Lai Heng and Dato' Seri Hong Yeam Wah and thanked them for sparing their time to attend the auspicious dinner.

The dinner was joyously rounded-off with entertainment coming from the Karaoke team which performed some all-time heart appealing, favourite, soft and nice songs, which successfully tuned and turned the dinner into a joyful, up-beat and a truly memorable night for all. It was indeed a very successful dinner and enjoyable night.



PEMA President, Khaw Tatt Siew (middle) presenting souvenirs to YB Teh Lai Heng (left) & Dato' Seri Hong Yeam Wah (right).

Seminar on Automation Transfer Switch (ATS) MS IEC 60947-6-1 and ATS & Genset Controllers (Smartgen)

PEMA, with the support from Wise Pro Sdn Bhd, organised a seminar on the Automation Transfer Switch (ATS) MS IEC 60947-6-1 and ATS & Genset Controllers (Smartgen) at the Vistana Hotel in Penang on 18 June 2019. The Organising Chairman was PEMA's Technical Committee Chairman, Ir Lee Weng Keen. The short course covered the definition of "AICHI" & VITZROTECH" Auto Transfer Switches (ATS) & Smarten Generators, and ATS Controller, and Cloud Monitoring Systems.

Wise Pro Sdn Bhd, which was established in 1992, has vast experience in handling Low-Voltage (LV) electrical components such as circuit-breakers, power capacitors, lightning and surge devices, automatic transfer switches, motor starters, motor protection relays and other related products, for the past 30 years. The Speakers from Wise Pro were Mr S F Ng who is currently the Sales and Marketing Engineer and Mr Ritesh Lutchman who is the Senior Sales and Marketing Manager.

The response to the seminar was encouraging, with about 65 participants taking part. The seminar offered ten CIDB CCD points and six BEM CPD hours for participants. The course was also HRDF-claimable. Each participant was presented with a Certificate of Attendance.



Good Response – A group photo for PEMA members, speakers & participants.



Great sharing session – Wise Pro's products on display for technical sharing.

Dialogue with TNB PULAU PINANG

PEMA had a fruitful Dialogue with TNB on 21 March 2019 at Wisma TNB, Pulau Pinang. The delegation of seven members from PEMA was headed by PEMA President, Mr Khaw Tatt Siew. They met TNB Head of Customer Services for Penang State, Miss U Ananda Rani Ulaganathan, and her officers.

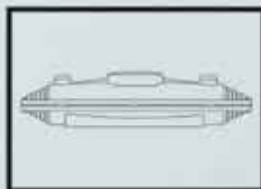
Among the important issues discussed were:

- Schedule of TNB works for the industrial category, flow chart, new procedures and application time duration for MV/HV large power user,
- Requirement and procedures by TNB regarding application to JKR/ MPPP for permit approval (such as road-cutting and deposit to JKR and MBPP) plus documentations,
- Budget and shortage of materials still persist for contractors,
- Contractors unable to get 2nd or 3rd meter for consumers in their premises,

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..... Continue State Associations News

- Pending meter installations taking a long period of time, and
- Site estimation waiting for contribution may take a long time.

The Dialogue was very fruitful and both parties managed to resolve some of the arising issues. PEMA thanked TNB for the time and opportunity to voice the industry concerns. Both parties hoped that the close working relationship between PEMA and TNB Pulau Pinang will continue to flourish. It was cordially agreed that another dialogue would be held six months later.



Engrossed in discussion – Important issues were highlighted at the Dialogue.



Group Photo – Souvenir presentation to TNB at the end of the Dialogue session.



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Charity Visit

In conjunction with Chinese New Year Celebrations, the PEA Committee paid a visit to Gopeng Old Folks' Home. They brought joy and happiness to the inmates with their generous contributions of "Ang Pau".



Warm hearts – PEA President, Mr Chan Kaim Sam and his Committee giving "Ang Pau" to the elderly.



Good cause – PEA's Charity Visit to Gopeng Old Folks' Home.

CNY Open House

The Perak Electrical Association (PEA) had a good start with its open house on 8th February 2019 to celebrate the auspicious Chinese New Year at the PEA premises. There was a "roaring" lion dance performance to usher the New Year. It was indeed a happy networking occasion amongst members of PEA.



For the album – PEA's Chinese New Year Open House 2019

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Goodyear Allocates RM8m to Install Solar Panels at its Plant

Goodyear Malaysia Bhd (Goodyear) has allocated RM8.2 million or 30% of its total capital expenditure this year for the installation of 6,680 solar panels at its tyre manufacturing plant in Shah Alam, Selangor. The project will be Malaysia's largest rooftop Solar Photo-Voltaic (PV) project recorded under the Net Energy Metering Scheme. Goodyear Manufacturing Operations' Asia Pacific Director, Mr Ramon Le, said that the installation at its sole tyre manufacturing plant in Malaysia was part of efforts undertaken to improve its financials and operations, and also to power up and reduce its carbon footprint. Goodyear expects to see savings of around US\$400,000 (RM1.6 million) per year. Goodyear also expects to see the return on investment in five years and 17% savings in electric consumption everyday. With this technology in place, Goodyear is set to reduce its spending on electricity whilst also significantly reducing the amount of greenhouse gas emissions. Le told the media at the launch of Goodyear's Solar Power System in Shah Alam on 23 July 2019.

According to Le, the solar panel system is capable of producing 2.5MW of power and it is connected to six low voltage substations located within the plant. The power generated from the panels will help run the manufacturing plant, office and warehouse buildings. The panels are estimated to reduce 1.98 million kg of carbon emission per year across 25 years. He said that the solar panels installation was in line with Goodyear's global mission to drive sustainability and thus reduce the environmental impact. He said that in order to drive more sustainability efforts, Goodyear started a programme called 'Better Future' at the corporate level several years ago. Through this programme, the tyre maker has identified more than 600 energy-efficient projects that focus on environmental protection.

For Malaysia, Goodyear has invested nearly RM23.47 million into the plant as part of its energy and sustainability efforts since 2015.

Through this, Goodyear has been able to eliminate almost 17% carbon emission by end-2018. Le said that the solar panels allowed the company to significantly reduce the amount of externally sourced electricity usage by the plant. Goodyear is still purchasing electricity from Tenaga Nasional Berhad but once this system is fully optimised, it is expected to have excess electricity which will be channelled back to the grid.

The Minister of Energy, Science, Technology, Environment and Climate Change, YB (The Honourable) Yeo Bee Yin who officiated the event, said that Goodyear's PV system is exemplary of a rising tide of corporates who have strong commitment to meet their environmental, social and governance obligations. She also said that there is a huge technical potential for rooftop solar PV applications given that Peninsular Malaysia has 4.1 million buildings adding that Solar PV systems will help consumers save on electricity bills and be part of the solution to climate change. She added that the Solar PV market can also help spawn the economy by specifically driving employment in this sector.

A report by the International Renewable Energy Agency with data provided by the Sustainable Energy Development Authority of Malaysia stated that Malaysia was the Asean region's biggest Solar PV employer with a total of more than 54,300 people working in the industry last year — up from 40,300 in 2017. This employment is inclusive of the manufacturing sector, of which Malaysia is among the top three PV producers in the world.

Besides Malaysia, Goodyear has tyre manufacturing plants in Thailand, Indonesia, China and India among other countries.

Source : This article is published with the kind permission of The Malaysian Reserve. It is taken from The Malaysian Reserve dated 24 July 2019 (themalaysianreserve.com).



Technical Visit to



TEEAM is organising a Technical Visit to LINKK Busway Systems (M) Sdn Bhd. The objective is to get first-hand information about busduct production and for the purpose of networking.



- The visit is Free of Charge
- Limited to TEEAM members only
- Maximum two (2) participants per company
- Kindly arrange your own transport to the venue
- The visit is limited to 40 participants
- Registration on first come, first-served basis

Registration:

Name of Company : _____

No	Name	Designation	Handphone	E-mail	Car Plate

Prior registration is required, please e-mail to: philia@teeam.org.my Tel: +603-9221 2091, 9221 4417 Fax: +603-9221 8212

Technical Visit Details:

- Date : 23 August 2019 (Friday)
 Time : 9.00am - 1.00pm
 Venue : Linkk Busway Systems (M) Sdn Bhd
 Lot 3226, Jalan Perindustrian Mahkota Utama,
 Taman Perindustrian Mahkota,
 43700 Beranang, Selangor Darul Ehsan.
 Tel: +603-8727 6080
- 8.45am Arrivals & Light Breakfast
 9.00am Welcome Speech
 9.15am Production Process Tour
 & Product Demonstration
 10.30am Tea Break & Refreshments
 11.00am LINKK Profile Presentation
 11.30am Technical Presentation
 12.00pm Q & A - Closing
 12.30pm Lunch / Guests Depart



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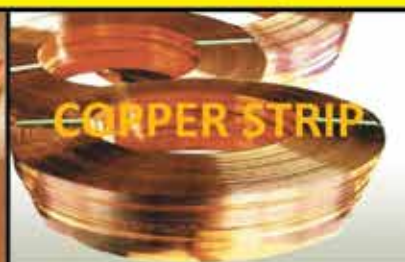
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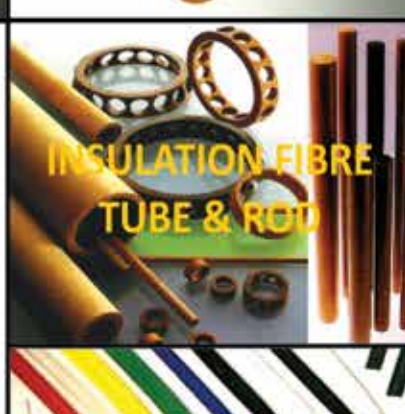
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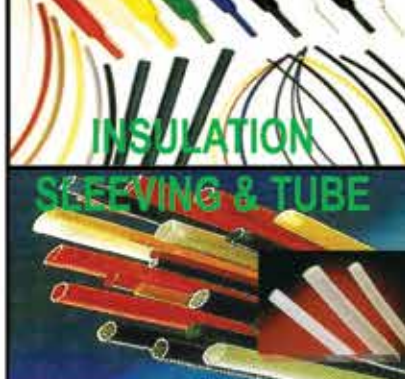
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ChangeXChange 2020 @ ELECRAMA 2020

The Indian Electrical & Electronics Manufacturers' Association (IEEMA) invites **TEEAM members to apply as Hosted Buyer** for the forthcoming ChangeXchange - The Reverse Buyer-Seller Meet at ELECRAMA-2020 scheduled from 18 - 22 January 2020, in Delhi, India.

IEEMA has around 850 member organisations encompassing the complete value chain in power generation, transmission and distribution equipment. IEEMA members represent a combined annual turnover in excess of US\$ 27 billion and have contributed to more than 90% of the power equipment installed in India.

ChangeXchange will be organised concurrently with ELECRAMA 2020, the premier showcase of Indian electrical equipment sector and world's largest confluence of the power transmission and distribution community. Held since 1990, fourteenth edition of ELECRAMA 2018 hosted 893 exhibitors from India and, 250 exhibitors from 26 countries also attracted 298,000+ footfalls into the exhibition

A limited number of foreign buyers keen to source power generation, transmission and distribution equipment from India are being invited to attend the event as hosted foreign buyers by IEEMA, with the support of Department of Commerce, Ministry of Commerce & Industry, Government of India.

Hosted Buyer Entitlements

1. A day's pre-planned one-to-one meetings with Indian power generation, transmission and distribution equipment manufacturers.
2. Complimentary economy return air-ticket from your nearest international airport to New Delhi, India.
3. Four days and three nights' hotel stay for attending the event, including breakfast.
4. Return transfers from hotel exhibition venue hotel to attend the event.
5. Visa recommendation letters to obtain Indian visa in their home country.

Apply online

In case you are interested in attending ChangeXchange - The Reverse Buyer-Seller Meet at ELECRAMA-2020 as a hosted foreign buyer, you are requested to apply online at: <http://www.ieema-rbsm.in/buyer-registration.php> or you may contact the TEEAM Secretariat for a copy of the hosted buyer's application form.

You may know more about ELECRAMA at www.elecrama.com



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Bowling Tournament 2019



Upcoming Sports Event

Date : 3 November 2019 (Sunday)
Time : 1:00pm
Venue : Pyramid Mega Lanes, Sunway Pyramid Shopping Centre, Petaling Jaya, Selangor

Registration : TEEAM Secretariat
Tel : +603-9221 4417, 9221 2091
Fax : +603-9221 8212
E-mail : philia@teeam.org.my
Website : www.teeam.org.my

Academic Excellence Awards 2019

Applications are invited from children of TEEAM members and children of their qualified employees who have excelled in the 2018 public examinations to apply for the TEEAM Academic Excellence Awards 2019. Applicants must attain the minimum results as prescribed by the Committee. Category & Criteria of the Awards and application form can be obtained from the TEEAM Secretariat at:

Tel: +603-9221 2091
Email: teeam52@gmail.com
Website: www.teeam.org.my
Closing Date: 6 September 2019



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New Books in Our Library

Informative reference materials are available in our Library. The Library is open to members from 9:00 am to 5:45 pm, Mondays to Fridays.

Title : 40 Years of Glory, 2014 Publisher : Malaysia-China Chamber of Commerce	Title : EUMCCI Review Volume 7, 2019 Publisher : EU-Malaysia Chamber of Commerce and Industry	Title : Master Builders Journal , Volume 1 (2019)-Volume 2 (2019) Publisher: Master Builders Association Malaysia
Title : ACEM Directory 2018-2019 Publisher : Association of Consulting Engineers Malaysia (ACEM)	Title : Heights, April-Jun 2019 Publisher : CIDB Malaysia	Title : MATRADE 25th Anniversary, 2019 Publisher : MATRADE
Title : A&S Asia, May-June 2019 Publisher : Messe Frankfurt New Era Business Media Ltd	Title : Horizon, Issue 1, 2019 Publisher : UTAR Education Foundation	Title : MFPA, March 2019 Publisher : Malaysian Fire Protection Association
Title : Asean Super 8 and ICW Show Directory, March 2019 Publisher : United Business Media (M) Sdn Bhd	Title : HKECA Newsletter January-April 2019 Publisher : Hong Kong Electrical Contractors' Association (HKECA)	Title : MGCC Perspectives, March-April 2019, May-June 2019 Publisher : Malaysian-German Chamber of Commerce and Industry
Title : Building & Investment, March-April 2019, May-June 2019 Publisher : NS BlueScope Malaysia	Title : Industrial Automation , May 2019 Publisher : Eastern Trade Media Pte Ltd	Title : Nurturing Workforce Potential 2017 Publisher : HRDF Malaysia
Title : Celebrating 60 Years of SETA, 2019 Publisher : Singapore Electrical Trades Association	Title : Jurutera, June 2019 & July 2019 Publisher : The Institution of Engineers, Malaysia	Title : SME Malaysia, 17th Edition 2019 Publisher : Small And Medium Enterprises Association
	Title : Malaysia SAFE, March-April 2019, May-June 2019 Publisher : PM Security Media Sdn Bhd	



Platinum Business Awards 2019

Now open for nominations!



Platinum Business Awards (PBA) 2019 (formerly known as SME Recognition Award) is an annual award programme organised by the SME Association of Malaysia to honour SMEs and individuals for their outstanding achievements and contributions in their respective fields.

Launched in 2002, this Award programme is into its 18th consecutive year of Award Presentation. As one of the pioneering awards for SMEs in Malaysia, PBA has gained extensive recognition among SMEs, the business community, and the public sector. Besides showcasing the achievements of Malaysia's top SMEs, this Award also provides a premium platform to benchmark the service/quality of SMEs, as well as to enhance their intellectual properties and brand image in the global marketplace.

The integrity and quality of the Platinum Business Awards is protected by the Organisers, supported by a reputable independent auditor whose role is to assess, evaluate and shortlist the potential Award winners for final judging by a top-class Selection Committee comprising leading business personalities. TEEAM is one of the Supporting Organisations.

TEEAM members are encouraged to apply. Submit your nomination online at www.pbasme.com.my and the dateline is 15 September 2019. For enquiry, please contact SME Association at Tel: 03-8024 5787 Email: 2019pba@gmail.com

KYODO PIPE SDN BHD

(753789-W)

KYODO PIPE Standard Galvanised Steel Conduit BS 31 CLASS B (SCREWED) / MANUFACTURER'S STANDARD

NOMINAL SIZE	OUTSIDE DIAMETER				WALL THICKNESS				CALCULATED WEIGHT WITH COUPLER	NUMBERS OF THREADS	LENGTH OF THREADS					
	MINIMUM		MAXIMUM		MINIMUM		MAXIMUM				MINIMUM		MAXIMUM			
	in	mm	in	mm	in	mm	in	mm			in	mm	in	mm		
¾	18.76	0.7387	19.05	0.7500	1.52	0.060	1.63	0.064	0.713	0.217	0.479	16	12.70	0.5000	14.29	0.5625
1	25.11	0.9887	25.40	1.0000	1.52	0.060	1.63	0.064	0.972	0.296	0.653	16	15.88	0.6250	17.46	0.6875
1¼	31.46	1.2387	31.75	1.2500	1.52	0.060	1.63	0.064	1.240	0.376	0.830	16	17.46	0.6875	19.05	0.7500
1½	37.80	1.4880	38.10	1.5000	1.73	0.068	1.83	0.072	1.680	0.511	1.130	14	19.05	0.7500	20.64	0.8125
2	50.50	1.9880	50.80	2.0000	1.93	0.076	2.03	0.080	2.510	0.765	1.690	14	22.23	0.8750	23.81	0.9375

MS 275 / BS 4568 CLASS 3 (SCREWED) / MANUFACTURER'S STANDARD

NOMINAL SIZE	OUTER DIAMETER		WALL THICKNESS	CALCULATED WEIGHT WITH COUPLER		PITCH	LENGTH OF THREADS	
	MINIMUM	MAXIMUM		MINIMUM	MAXIMUM		MINIMUM	MAXIMUM
mm	mm	mm	mm	kg/m	kg/m	mm	mm	mm
20	19.7	20.0	1.6 ± 0.15	0.643	0.783	1.5	13	15
25	24.6	25.0	1.6 ± 0.15	0.811	0.995	1.5	16	18
32	31.6	32.0	1.6 ± 0.15	1.069	1.301	1.5	18	20

MS IEC 61386-1 / MS 61386-21 Conduit Systems for Cable Management.

NOMINAL SIZE	OUTER DIAMETER		INSIDE DIAMETER	EXTERNAL THREAD LENGTHS
	MINIMUM	MAXIMUM		
mm	mm	mm	mm	mm
20	19.7	20.0	16.2	14.0
25	24.6	25.0	21.1	17.0

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Tel: +604-444 5178 Fax: 04-440 0521
E-mail: sm53james@yahoo.com



Golf Tournament 2019

12 September 2019

12:30pm

Palm Garden Golf Club,
IOI Resort City,
Putrajaya.

Entry Fee: RM450 per participant
Inclusive of : -

- Green fee
- Buggy/caddy on sharing basis
- Light lunch & dinner

*Restricted to TEEAM members only,
Sponsored non-members may participate.*

Closing Date:
20 August 2019

For enquiries & registration,
please contact Ms Philia at
Tel: +603-9221 4417
E-mail : philia@teeam.org.my



Badminton Tournament 2019

6 & 13 October 2019

Forum 19, Section 19,
Petaling Jaya.

8:30am

Registration Fee:
RM30 per player per event

Closing Date:
6 September 2019

Events :

Men's Singles

Champion : RM600
1st Runner-up : RM400
2nd Runner-up : RM200

Men's Doubles

Champion : RM1,000
1st Runner-up : RM600
2nd Runner-up : RM400

Mixed Doubles

Champion : RM800
1st Runner-up : RM500
2nd Runner-up : RM300

Restricted to TEEAM
members and their
employees only.



For enquiries, please contact the following
Committee Members:

Lee Chee Kin : +6012-220 6532
Chen Siang Long : +6016-221 4909
Lim Chong : +6012-298 5120
Yap Wee Tong : +6019-335 1565

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New Members

The following new members have been approved and accepted by the TEEAM Council from January - May 2019. A warm welcome to all the new members and special appreciation is extended to those who introduced these new members. For those who are not yet members..... why wait? Join us and find out how our Association can offer our value-added services to you and your highly esteemed Companies!

Mestron Engineering Sdn Bhd PT 50102, Jalan MU 1/9, Seksyen 10, Taman Perindustrian Meranti Utama, 47120 Puchong, Selangor Darul Ehsan. Tel: +603-8069 1815 Fax: +603-8069 1805 E-mail: benniez@mestron.com.my Website: www.mestron.com.my Contact Person: Mr Loon Chin Seng <i>Business: Manufacturing street lighting poles.</i>	Radical Control Sdn Bhd No. 18, Jalan BP6/13, Bandar Bukit Puchong, 47120 Puchong, Selangor Darul Ehsan. Tel: +603-8052 6989 Fax: +603-8052 7989 E-mail: sales@rcecontrol.com Website: www.rcecontrol.com Contact Person: Mr Yeoh Say Huat <i>Business: System integration, consulting, engineering design, customized solutions and services, field support and industrial training.</i>
Aco Eco Sdn Bhd No. 24A, Jalan Bunga Tanjung 8A, Taman Muda, 56100 Kuala Lumpur. Tel: +603-4292 4928 E-mail: vonnylai@aco-eco.com Website: aco-eco.com Contact Person: Mr Vonny Lai Shook Chin <i>Business: Solar power service provider, energy audit & energy saving leasing solution, electrical contractor.</i>	Vitalite Industry Sdn Bhd Lot 125 & 126, Hala Perusahaan Menglembu 11, Kawasan Perindustrian Menglembu, 31450 Menglembu, Perak. Tel: +605-282 1693/5227 Fax: +605-282 0227 E-mail: vitalite@yli-ind.com.my Website: www.yli-ind.com.my Contact Person: Mr Lee Chin Choong <i>Business: Emergency exit sign lighting.</i>
Schirtec (Malaysia) Sdn Bhd No. 17-01, Jalan Sagu 15, Taman Daya, 81100 Johor Bahru, Johor Tel: +6012-772 3478 E-mail: info@schirtec.my Website: www.schirtec.at Contact Person: Mr Freddy Tan Luck Tee <i>Business: Trading of lightning arrestors.</i>	LKH Switchgears Sdn Bhd Lot 4882, Unit (3), No 5 Jalan SS13/2, Subang Jaya Industrial Estate, 47500 Subang Jaya, Selangor Darul Ehsan. Tel: +603-5622 1671 Fax: +603-5622 1675 E-mail: tk.chai@corporate.mol.com Contact Person: Mr Chai Teik Kin <i>Business: Manufacture 11kV switchgears.</i>
Seimitsu Electronic (M) Sdn Bhd No. 39, Jalan Rebana 3, Off Jalan Seruling 59, Taman Klang Jaya, 41200 Klang, Selangor Darul Ehsan. Tel: +603-3318 5428 Fax: +603-3324 8277 E-mail: sivakumar@seimitsu.com.my Website: www.seimitsu.com.my Contact Person: Mr Sivakumar Eahambram <i>Business: Manufacture of electronic copper coils components.</i>	Idemco Sdn Bhd No. 51, Jalan 9/152, Taman Perindustrian OUG, Batu 6, Jalan Puchong, 58200 Kuala Lumpur. Tel: +603-7781 7973 Fax: +603-7781 8171 E-mail: idemco@idemcosb.com.my Contact Person: Mr Chiang Siew Weng <i>Business: Diagnostic and electrical crimping & cutting tools (battery operated).</i>
Ligetech Automation Sdn Bhd No. 60 & 62, Jalan IMJ 2, Taman Industri Malim Jaya, 75250 Melaka. Tel: +603-336 5696 Fax: +603-336 5699 Email: geraldlim@ligetech.com Website: www.ligled.com.my Contact Person: Mr Gerald Lim Boon Chye <i>Business: Manufacturing of LED lighting for indoor & outdoor.</i>	Ir Kington Liew Hock Seong Bg-2, Jalan 17/13, Happy Mansion, 46400 Petaling Jaya, Selangor Darul Ehsan. Tel: +6012-288 2300 E-mail: ladida@pd.jaring.asia <i>Business: Prepare shop drawings (as-built drawings), O&M compilation & write-up, method statement for installation of gen-sets.</i>
Dato' Ir Lee Peng Joo No. 27, Jalan Keranji 1, Off Jalan Kedondong, Jalan Ampang Hilir, 55000 Kuala Lumpur. Tel: +6012-294 7687 E-mail: pjlee555@yahoo.com <i>Business: Engineering advisor and energy management consultant.</i>	Dr Vineetha Kalavally 2, Lorong Kangkong, Taman Rajee, 41200 Klang, Selangor Darul Ehsan. Tel: +6012-224 5844 Fax: +603-5514 6207 E-mail: vineetha@monash.edu <i>Business: Education and research in EE Engineering.</i>
Amptech M&E Sdn Bhd 28-1, Jalan Setia Gemilang BM U13/BM, Seksyen U13, Setia Alam, 40170 Shah Alam, Selangor Darul Ehsan. Tel: +603-3359 8002 E-mail: amptech.fin@gmail.com Website: amptechengineering.com/amptech-me/ Contact Person: Mr Lee Kok Chong <i>Business: Electrical contractor.</i>	Visit TEEAM at www.teeam.org.my



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seewide@seewide.com.my (All branches)

Kuching

Lot 720 Block 8 MTLD Demak Laut Industrial Park, Jalan Demak Maju, Off Jalan Bako, 93050 Kuching, Sarawak
Tel: 082-539 000 Fax: 082-501 504

Petaling Jaya

No. 89, Jalan 20/7, Paramount Garden, 46300 Petaling Jaya, Selangor Darul Ehsan
Tel: 03-7875 7200 Fax: 03- 7875 2708

Miri

Survey Lot 8013, Industrial Building Phase 9, Senadin Enterprise Park, 98100 Lutong, Miri, Sarawak
Tel: 011-5170 6027 Fax: 085-665 882

Johor Bahru

No 26, Jalan Gemilang 1, Taman Perindustrian Cemerlang, Ulu Tiram, 81800 Johor
Tel: 07-868 3943, Fax: 07-867 7811

Kota Kinabalu

No 17, Industri E33 Likas, Mile 2 1/2, Jalan Tuaran Likas, 88400 Kota Kinabalu, Sabah, Malaysia
Tel: 088-286 028 Fax: 088-203 119

Seremban

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Mal-Autonics Sensor Sdn Bhd	8		
Maxguard Switchgear Sdn Bhd	77		
Nanyang Electric Co (M) Sdn Bhd	28		
Power Plug Busduct Sdn Bhd	70		

Remarks : IFC-Inside Front Cover
IBC-Inside Back Cover
OBC-Outside Back Cover



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Fax : 03-62516966 Email: mail@shaman.com.my Website : www.shaman.com.my



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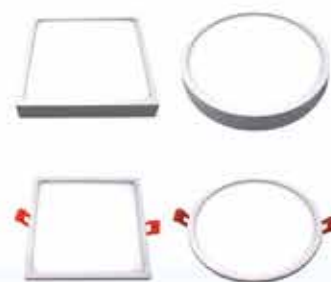
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STANDARDS

LYCORPOLE® Hot Dip Galvanized columns, masts and poles are designed and manufactured in accordance with BS EN 40, BS 6399-2, BS EN 10025, BS EN 1011-1, 2, Institution of Lighting Engineers Technical Report No. 7, AS 4100, AS 1170.2, AS 1798, AS 2979, AS/NZS 4676, AS/NZS 4677, AWS D1.1 and AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals.

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