

An Interview by Malaysia SME

An interview by Malaysia SME Paper with TEEAM President, Ir Chew Shee Fuee KMN on the role of TEEAM in the electrical and electronics industry in Malaysia. This interview was conducted by Journalist, Mr Kenneth Joseph on 16th June 2016.

The electrical and electronics industry is well-known in the country, thanks to the investment of many multinational companies decades ago in the industrial zones of Penang. With humble beginnings in assembly work, the industry in Malaysia has grown in leaps and bounds into the national economic powerhouse that it is today, taking up a large chunk of the local manufacturing sector.

Malaysia SME spoke to the TEEAM President, Ir Chew Shee Fuee KMN who said the electrical and electronics industry has come a long way, with TEEAM being formed in 1952 mainly by electrical contractors. It was a relatively conservative ethnic Chinese association back then.

However since then the association has grown to become the leading representative for the industry in Malaysia, with three main categories of members, representing the entire electrical and electronics supply chain, including electrical engineers, manufacturers and traders.

The association's main dual functions are to lobby on various industry issues to the relevant governmental bodies, as well as raising awareness on the many issues which affect both industry players as well as the Malaysian public.

The association plays a role in monitoring standards and practices among various professionals in the industry, with collaboration from the government. However currently it lacks the authority to penalize members, with the relevant government authorities taking up this role.

TEEAM also plays a role in updating members on developments in the industry, such as changing foreign trade and industry regulations, along with various domestic changes that will affect the electrical and electronics sector.

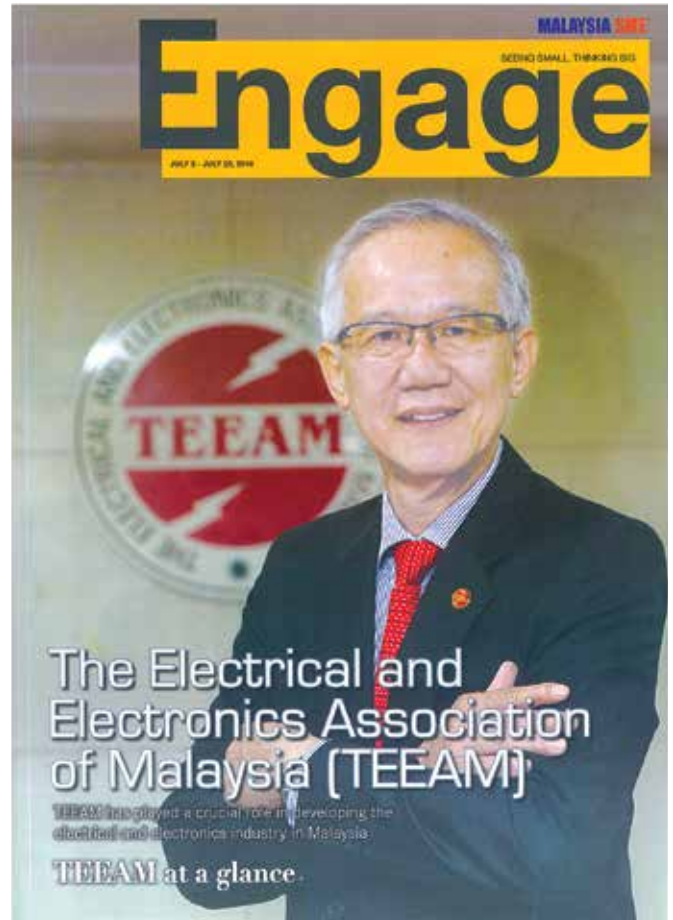
This has been crucial as many of its members tend to be smaller SME businesses located throughout the country, who may not be privy to some of the latest happenings both domestically and internationally.

The ever-present labour issue

One of the major issues facing the industry is foreign labour, which has made headlines over the past few months following a series of directives from the government which received mixed responses from the industry.

Ir Chew said, "The indecisive position of the local government on the issue over the past few years has caused some measure of difficulty for our members in managing their businesses as many of them are heavily reliant on foreign labour, especially for their manufacturing capabilities."

He went on to say that foreign labour was a necessity for the electrical and electronics industry given the labour-intensive manufacturing process for components and systems that require human assistance, and the local workforce will not be able to fill this need.



"Of course, various players in the sector are looking at automation as a substitute for foreign labour, however in our industry this can only work up to a certain extent. Beyond that, it is necessary for there to be human assistance to the process. This is due to the fact that the engineering and electrical layout for each building that is to be constructed is unique and will require individualised planning by various specialist engineers, so there is a lack of scalability and repetition which is required for automation. Besides that, for large-scale labour-intensive tasks such as the laying of cables in buildings, we cannot use machines at the moment; large amounts of human labour are still required in the industry," he said.

The electronic future

But Ir Chew also mentioned that despite these issues there is still huge potential for the industry. One such area is in the domain of appliances in the internet of Things, which is fast picking up speed in many countries throughout the world, including Malaysia where various user and home appliances can 'communicate' with each other to provide increased functionality and usability.

Ir Chew said, "The possibilities for this among appliances and systems is almost endless and at the heart of this will be the electronics and electrical industry, which will form the hardware base for these new technological innovations, ensuring the longevity of the industry in years to come."

Another new technological innovation which has the electrical and electronics industry at its core are advancements in renewable and efficient energy. These utilise smarter electronic systems to either



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use alternative energy sources or improve the energy efficiency of existing systems. One area in which this is gaining momentum is the air-conditioning and refrigeration sector, which has recently seen the shift towards part load technology for greater energy efficiency and the eventual use of more environmentally-friendly coolants.

Last but not least is the increasing prevalence of LED lighting technology which promises greater light-to-heat ratios for users as well as the reduction of harmful UV rays in lights.

Safety first

Despite these exciting advances in technology and the electrical and electronics field, one major concern for TEEAM and other players is increasing awareness on the importance of safety precautions and knowledge of electrical products for consumers and industry players alike.

TEEAM is at the forefront of this with its series of public awareness road-shows to raise awareness on the basic precautions that home users can take to prevent damage and fatalities from faulty electrical and electronic products, particularly the regular maintenance of fuse boxes.

Ir Chew said, “The overwhelming majority of Malaysians have fuse boxes in their houses, yet few realise the need to test the safety switch on a monthly basis to prevent lethal current leakage, as many vendors are also unaware of the importance of this. However, following the tragic death of a Japanese couple in 2013, TEEAM requested information on all fatalities due to electrical products, and we found that almost all cases were due to faulty fuse boxes, which prompted us to start our nationwide awareness-raising campaign for several years, predominantly in malls and shopping complexes. We have also turned to social media as an outlet for raising awareness on basic safety precautions around such electrical and electronic products.”

TEEAM also invests heavily in various efforts and campaigns to reach out its various business members to raise awareness among vendors who are the first point of contact for many customers.

Government-industry collaboration

Ir Chew also said TEEAM has very good working relationships with many governmental agencies related to the electrical and electronics industry such as the Energy Commission and Standards Malaysia, MATRADE as well as MITI.

“Our collaboration with industrial bodies such as the Energy Commission and Standards Malaysia is mainly to do with controlled items such as electrical cables, which often have less safe counterfeit versions which are sold due to high demand from both contractors and individuals” he said.

Besides this, TEEAM also works closely with these bodies to ensure high levels of professionalism, by gathering feedback from both member companies and the general public, which is then channeled on to the relevant government enforcement agencies such as the Energy Commission and the Ministry of Domestic Trade, Co-operatives and Consumerism.

TEEAM also works closely with MATRADE and MITI to participate in various international trade exhibitions and trade fairs, with recent ones in countries such as Korea and Turkey. Specialised trade missions are also organised with business matching components to help local industry players to expand into international markets, particularly with the recent commencement of the AEC, which presents many good opportunities to export products and set up foreign operations.

Ir Chew said TEEAM appreciates the strong cooperation and collaboration given by the government in advancing the sector and hopes that TEEAM will be able to play a bigger role in governing the industry, with the possibility of issuing licenses in the future.



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Day 2, 28th September 2016 Wednesday

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Evening attend Welcome Dinner in-conjunction with SECA 40th Anniversary Dinner with presentation of AFEEC Best Contractor Award 2016.

Day 3, 29th September 2016 Thursday

After breakfast, transfer to Marina Bay Sands.
AFEEC Meeting & FAPECA Meeting.
Lunch.
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Return to hotel, free & easy.

Day 4, 30th September 2016 Friday

After breakfast, tour of exhibition.
SECA Golf.
Evening attend Farewell Dinner at Seletar Country Club.

Day 5, 1st October 2016 Saturday

After breakfast, free at leisure.
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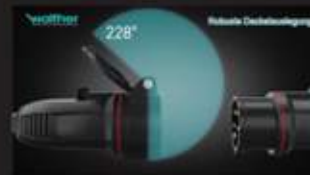
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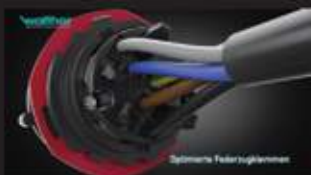
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Asian Utility Week 2016

Asian Utility Week 2016 took place on 31st May & 1st June 2016 at the Centara Grand & Bangkok Convention Centre located at Central World in Bangkok. It was part of a global series of Utility Expositions, which have been running successfully for seventeen years. It was a large Exposition with a Conference slotted in, designed specifically for Asian utilities, with a view to transform their utility businesses. This year's Expo in Bangkok featured a two day Conference with experts talking about, among others, Digital Utility, Micro-grids, Advanced Metering Infrastructure, Rooftop Solar and Smart Energy.

The Expo attracted over 2,500 utility technology specialists from across Asia and the world. It featured 200 Speakers and 150 Expo Booths, across a wide range of topics. TEEAM was privileged to be one of the supporting organisations contributing to the success of this Expo and Conference. TEEAM International Affairs Chairman, Mr Suresh Kumar Gorasia and some TEEAM members participated in this prestigious industry event.



Conference Session – KEPCO Korea's presentation on Advanced Metering Infrastructure Development.

Asian Utility Week 2016





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TEEAM Specialised Group – Engineering Construction & Services

By Chairman, Ir Chang Yew Cheong

Electrical Accidents

A few electrocution cases happened this year. They involved the water heater, improper wire installation and use of hand-phone charger. The first case happened on 8th April when a man was killed while he was installing an exhaust fan at a factory near Ipoh. This was followed by a woman who was electrocuted on 15th April while she was making a call on a charging phone at her house near Cheras, Kuala Lumpur. The most recent case involved two brothers who were electrocuted to death in Penang on 6th June this year.

From the Suruhanjaya Tenaga (ST) statistics, about 37.2% of electrical accidents are involved with lack of maintenance, 30.1% due to safety procedures not complied with and about 10.2% are due to illegal electrical modifications. The public is less aware of electrical safety at home and at the workplace. House owners are not aware of faulty RCCBs. Employing incompetent wiremen for house wiring modifications, etc., is one of the main causes of these electrical accidents.

Causes of Electrical Accidents



As a responsible association, TEEAM had organised a series of “Self-Test RCCB” Campaign roadshows over the country since the last two years. The roadshows were organised in the Kuala Lumpur and Selangor areas, and also in Penang, Johor Bahru, Ipoh and Kuching. The next city slated for the road show will be Seremban. This is because of the recent water heater electrocution case which happened in Seremban. It is hoped that with the continuing series of TEEAM roadshows, the public will be more educated about the importance of self-test RCCBs, to ensure the correct functionality of the RCCBs, and hence to reduce the occurrences of electrocution cases in the country as a whole.

Assume that a house owner buys a water heater from an electrical appliance shop and he requests the electrical appliance shop to recommend their contractor to install the water heater. Will the electrical shop recommend a competent wiring contractor for him? Most of the time, the incompetent contractor is found to be tapping the power source from the nearest 3-pins socket such as near the kitchen areas, to simplify his installation work. The faulty installation without any 10mA RCCB and MCB for additional protection will definitely expose the house owner to electrical danger.

A few years ago, I bought a new water heater. After installing it and doing the test on the water heater metal parts, I found that the metal parts had floating voltage. After tracing the wiring from the Distribution Board to the water heater point, I found that the developer’s wiring contractor had not connected the earthing cable near the switch outside the bathroom.



Ir Chang Yew Cheong
changyewcheong@gmail.com

Additionally, the poor workmanship of the cabling works was not properly inspected. I believe the above case is happening all over the country. The public is not able to identify competent and incompetent wiremen. Hence, electrical accidents may happen anytime. The public is strongly advised to look for well trained and qualified electricians to perform electrical works at home.

On 20th April, after the incident of the woman who was killed when using the phone while charging, the ST had issued a press release about the use of handphone chargers. ST advises phone users to use genuine chargers from certified manufacturers and to select chargers having the SIRIM-ST label or to obtain genuine chargers from manufacturers with SKMM (Malaysian Communication and Multimedia Commission) approval. The user should not be using the hand phone while the phone is charging because it is extremely dangerous. If the charger is faulty it will cause a leakage current to pass through the user’s body and electrocution is bound to occur.

TEEAM Best Electrical Contractor Award

Every two years, the TEEAM Engineering Construction and Service Group will select the Best Electrical Contractor Award. For this year we have invited representatives from ST, JKR and CIDB to sit in on the judging panel. The winners will be selected under four categories, i.e., the Industrial, Commercial, Residential and Infrastructure categories. The winners will be receiving another award, i.e., the AFEEC Best Electrical Contractor Award during the AFEEC & FAPECA Conference to be held from 27th to 29th Sept 2016 at Marina Bay Sands Singapore.

AFEEC & FAPECA Conference

The yearly AFEEC & FAPECA Conference is held in conjunction with an International Facilities Management Exhibition. It will be hosted by Singapore this year. TEEAM is pro-actively organising a large delegation to attend this year’s AFEEC & FAPECA Conference. Members are encouraged to join us for this Conference and at the same time have a chance to network with our ASEAN counterparts.

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New Members

The following new members have been approved and accepted by the TEEAM Council (as at 28th July 2016).
A warm welcome to all 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 services to you.

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LEDVANCE Sdn Bhd 100.02.031, 129 Offices, Block J, Jaya One, Jaya One, No. 72, Jalan Universiti, 46200 Petaling Jaya, Selangor Darul Ehsan. Tel: +603-7941 2266 Fax: +603-7941 2255 Website: www.ledvance.com Contact Person: Mr Mok Tze Boon <i>Business: Lighting.</i>	Visit TEEAM's Website at www.teeam.org.my Like our Fan Page www.facebook.com/teeam.org.my

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 2 points, while introducing an individual member will be entitled for 1 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 TEEAM Membership application form can be printed from TEEAM website at www.teeam.org.my.



TEEAM Specialised Group – Engineering Construction & Services (Continued)

CIPAA

Payment has always been a major problem in the construction industry. Construction Adjudication is a 'rough and ready' dispute resolution process which is made available to almost all parties listed in the construction contracts. It is meant to provide a swift interim dispute resolution process. Its primary purpose is to provide an interim solution to a dispute in order to maintain cash flow through the supply chain, from the manufacturers of building materials to sub-contractors and eventually to the main contractors. A half day seminar on the Construction Industry Payment & Adjudication Act

(CIPAA) was successfully held on 9th March 2016 at the TEEAM Conference Room in Kuala Lumpur. The speaker at the event was Ir. Lai Sze Ching. He graduated as a Mechanical Engineer from University Malaya. He also holds an LL.B degree from the University of London and an LL.M degree from University Malaya. The seminar was attended by 50 members and it was a very informative seminar.

TEEAM Engineering Construction and Service group will be organising more seminars and technical visits in future. It is hoped that TEEAM members will be able to join and network with us.



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General Considerations for Selecting an Enclosure

This article is contributed by Mr Muhammad Izzuddin Abdul Latif, Hager Engineering (M) Sdn Bhd

Appearance-wise deemed as a straight box, the electrical enclosure or more commonly known as the Distribution Board (DB) has its own considerations and parameters in order to ensure competence to its purpose and requirements. This article intends to offer some peeks of the perspective needed when considering a low voltage enclosure, which is purposely installed in generally residential or commercial areas.

Really, why use an enclosure?

An enclosure firstly is about safety. Complementing the direct protection devices such as MCB, MCCB and RCD, an enclosure generally serves as an additional barrier between these devices, to users and the environment. This is significant considering the making, breaking and sparks that may occur in the enclosure, plus the possibility of exposed connections and terminals from the internal wiring.

Additionally depending on the ambient requirements, an enclosure may also protect these protection devices and the internal wiring from external factors such as water (rain), chemical exposures, saline atmospheres, even small animals. These entities are unlikely 'friends' of electricity.

One may imagine as well, the hassle of an engineer to design, control, and maintain power distribution without any centralized location. An enclosure allows the allocation of major protection devices such as MCCB, MCB, RCDs in one place, hence, a well prepared centralized 'control centre'. This conforms to engineers – it's systematic.

Which enclosure is suitable ?

Aspect #1 Compliance

Standards are an integral part of selecting an enclosure. Depending on the product, it is usually type-tested to ensure compliance to the standard required. The proof is in the test report.

A relevant standard for enclosures would be:

IEC 61439-3 (*Low-voltage switchgear and controlgear assemblies - Part 3: Distribution boards intended to be operated by ordinary persons (DBO)*)

Aspect #2 Size

The amount of devices required for a certain installation will nonetheless dictate the size of the enclosure. The parameter for the sizes are represented by the unit 'mod' (1 mod = 17.5 mm) and the number of rows for the enclosure. Usually a 1-pole MCB is equivalent to 1 mod of size. Hence, an enclosure of 1 row and 12 mods will be theoretically able to fit altogether twelve 1-pole MCBs. Some devices such as contactors may also require additional spacing. This factor may be taken into account. If spacing requires half mod, then a 1 mod contactor may require 2 mod of space in the respective row.

The outer dimension of the enclosure itself is a parameter, considering the space constraint that one might have. Normally, this dimension is represented directly by width (mm) x length (mm) x depth (mm).



Electrical enclosures.

Hence, 3 considerations for the size of an enclosure:

1. Outer dimension/ Box Dimension
2. Mods
3. Row

A 12-mod enclosure with 3 rows implies that you will have altogether $12 \times 3 = 36$ mods.

Aspect #3 Material

As electrical installations are required in different types of locations, this may influence the type of material that one may select. Locations which are near to the sea, between bays or sloughs may expose the installation to saline environment which can prove to be detrimental to normal metal enclosures. In this case, Glass Reinforced Polyester (GRP) Enclosures are recommended.

As the dynamics of the industry is also getting more interesting, enclosures are also often valued for its aesthetics. In this instance, insulated or plastic material is normally more appealing. Some manufacturers have even won awards for its design, an additional value on top of a usual product judged by its robustness. It would be more assuring to confirm whether this type of material is fire retardant, which means that the material will self-extinguish under a certain parameter of heat. Given that fire may occur due to electricity, the plastic material should not instead be a 'fuel' to escalate further any fire. The respective test report will confirm this feature.

Aesthetic-wise, a metal enclosure will seemingly be less appealing, but is valued for its robustness. If the enclosure is designed to be located in the storage room or for industrial environment this would be a good match. One may take note as well at the thickness of its metal as this contributes to its robustness. Nevertheless, some colour code plus a good finishing will help to reduce the intimidation of a 'metal look cabinet' to certain concerning users.

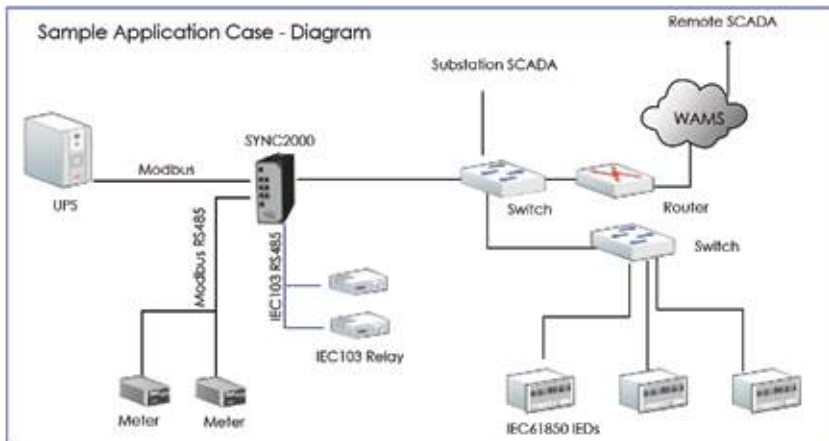
Thus, any of these 3 types are commonly in the market and you may now choose wisely:

1. Glass Reinforced Polyester (GRP) ,
2. Metal (coated steel, stainless steel, aluminum, etc.) or
3. Plastic / Insulated (fire retardant) enclosures which comply with IEC 60695-2-1.

SYNC 2000 SERIES SUBSTATION PROTOCOL GATEWAY

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Applications

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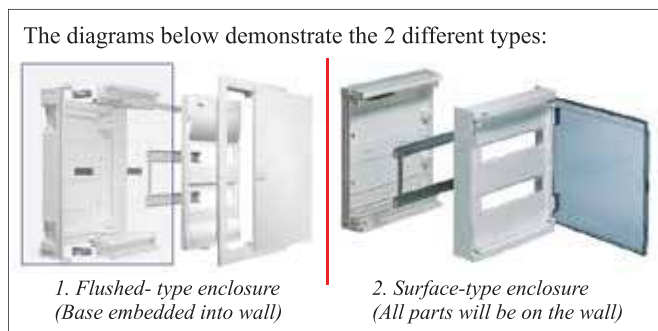
Aspect #4 Mounting

There are 2 types of mountings commonly found in the market.

Firstly, surface of mounting literally means to screw/mount the enclosure directly to the wall. This type of mounting which is also the most common type may look a bit protruding to the eyes of users and seemingly 'hanging' in the living room. Some enclosures are designed especially with good appearance intending to eliminate this claimed disadvantage.

Secondly is flushed mounting, also commonly known as concealed type. The enclosure will be embedded into the wall of the premise while only the door will prevail. The advantage besides the aesthetic side is of course the mounting will not protrude from the wall, giving it a smooth look, even for a living room. Worth to note prior selection is the depth of the base (which is embedded) whether it is not deeper than the wall's depth. The wall dimension may differ from the type of wall such as a brick wall or a pre-cast concrete wall. A flushed mounting usually is a total love especially for Interior Designers.

The diagrams below demonstrate the 2 different types:



Aspect #5 Location

An enclosure can be used either indoor or outdoor based on its Ingress Protection (IP) Rating. Generally, the Ingress Protection Rating classifies and rates the intrusion level provided against intrusion of liquids and solid.

IP20 ~ IP40 is recommended for indoor whilst IP55 ~ IP66 can be used for outdoor usage.

Aspect #6 Door

The door of an enclosure can either be

1. Transparent, or
2. Solid

While a transparent door allows easier identification of light indicators from devices inside the enclosure, a solid door may appeal in terms of appearance.

Light indicators may be used to inform status of devices such as power supply status, or even lifetime of a surge protection device –

one may feel eased considering that there will be no need to open the door of an enclosure every day to make sure its installation is always protected from lightning hazards.

Additionally, some enclosures are designed with exchangeable door positions. This enables the door angle to be changed following the user's preference and allows more flexibility for future renovations, e.g., the enclosure door may not collide with near doors or obstruct any path. Added flexibility.

Aspect #7 Standard and Optional Accessories

Standard accessories are usually included with the enclosure upon purchase. This includes :

- i) Neutral Bar
- ii) Earth Bar
- iii) Din Rail
- iv) Door Latch

Alternatively, optional accessories are extras that may give an edge to your selected enclosure and may also cater for specific applications. Examples of these accessories include:

i) Door Lock

The enclosure door shall be locked in case of concerns of theft, abuse, mishandling, improper or misuse of the protection devices itself.

ii) Label Marking

The label marking allows each protection device to be indicated visually to the load it controls. This helps with fault identification, maintenance and also future renovation works. It is a simple accessory with significant benefit.

iii) Blanking Plate

Some enclosures are purposely left with additional spaces in case of future needs. The space left behind which is unoccupied by any protection device can be covered by a blanking plate, ensuring a proper cover to these void areas.

Conclusion:

There are indeed many more factors in selecting a suitable enclosure for your electrical installation. As safety is always first, nowadays aesthetics are also becoming an added question. Always keep in touch and never hesitate to seek consultation from your respective manufacturers!

Muhammad Izzuddin Abdul Latif sees himself as an explorer in the world of engineering.

He is passionate about the idea of simplicity, inspired by a famous remark made by Albert Einstein: Everything should be made as simple as possible, but not simpler."

Graduated in Electronics & Electrical Engineering from University of Strathclyde (UK), he was with Sony as a Senior Engineer before joining the marketing team in Hager Engineering (M) Sdn Bhd. He can be contacted at izzuddin.latif@hager.my.



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State Associations News



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Email: pema_pg@yahoo.com
Website: www.pema.org.my

PEMA Academic Award 2016

Forty-five students who had done well in the Government examinations which were held last year, were given cash awards by the Penang Electrical Merchants' Association (PEMA) during its Academic Award 2016 Presentation Ceremony held at the Ixora Hotel, Penang on 17th July 2016.

PEMA's Executive Advisor, Dato' Hong Yeam Wah said the recipients were children of PEMA members or children of their full-time employees who had met the qualification as stipulated in the rules of the PEMA Academic Award. He said that PEMA had been faithfully giving out the awards for the last 25 years with a view to spur the children to excel in their studies at all levels.

Ten top performing students received RM100 each for excelling in the UPSR (Standard 6) examinations while thirteen others took home RM150 each for doing well in the PT3 (Form 3) examinations. Fourteen more were awarded RM200 each for obtaining good results in the SPM (Form Five) examinations whereas another eight received RM300 each for excelling in their STPM (Form 6) examinations. The Association also gave each successful student a Certificate of Appreciation for obtaining praiseworthy results.



All smiles – Group photo of recipients with PEMA officials and Guest of Honour.

The highlight of the event was the presentation of a Scholarship award to Ms Ng Yun Ning who will be doing her three-year Diploma in Electrical and Electronic Engineering programme at the INTI International College based in Penang. She received a Certificate and RM2,000.00 for this year and will also be receiving the same amount for each of the next 2 years.

Ms Ng gratefully told reporters and the audience that she was proud to be recognised with the PEMA scholarship award and thanked the Association for recognizing her achievements. She said she would make good use of the Scholarship money to pay for her course fees as well as to buy essential textbooks and other study materials.

The Penang Youth and Sports, Women, Family and Community Development Exco Member, YB Chong Eng who was the Guest of Honour at the auspicious PEMA event, congratulated all recipients for doing well in their respective studies. She told them that besides

doing well academically, they must also have good morals and principles. Also present at the Award Presentation Ceremony were PEMA Association President, Mr Khaw Tatt Siew and PEMA's Education Fund Committee Chairman, Dato' Ooi Kok Kee.



Well done – Penang Youth & Sports, Women, Family & Community Development, Exco, YB Chong Eng congratulated all recipients for doing well in their studies.

PEMA – TNB Pulau Pinang Dialogue

The PEMA – TNB Pulau Pinang Dialogue was held on 15th June 2016 at the TNB conference room, Anson Road, Penang. It served as a good platform for PEMA's Contractor members to voice out their unresolved problems to TNB officials.

The PEMA delegation which comprised fourteen PEMA Contractors' members and Technical Advisors, was officially led by the President Mr Khaw Tatt Siew. The Acting General Manager of TNB Pulau Pinang, Mr Haji Lathifi Bin Teh and eight other senior TNB officials, cordially received the PEMA delegates.

The following seven items as per the Agenda were discussed at length:

- 1) Schedule of TNB works for the industrial category, flow charts, new procedures and the time duration on the applications for MV/HV large power users.
- 2) Metering issues on installation and standardization-related matters between the Penang and Butterworth areas.
- 3) Requirements and procedures by TNB with regards to applications to JKR/MPPP for permit approvals (such as for road-cutting and deposit payments to JKR and MBPP) plus documentation procedures.
- 4) Substation issues such as earthing and filling of trenches, to be undertaken by TNB-authorized Contractors.
- 5) Budget and shortage of materials' issues which are still persisting for Contractors.
- 6) Contractors being unable to get their 2nd or 3rd meters for consumers in their premises.
- 7) e-Application updates.

This interactive and very helpful face-to-face dialogue session lasted more than three hours. It was definitely a truly fruitful one as many issues and arising matters were resolved on the spot. TNB stated that it would look into ways to prevent those problems from recurring. It was agreed upon that the next dialogue session would be held in December this year. After the dialogue session, a Souvenir was presented as a token of appreciation to Mr Haji Ismail Lathifi bin Teh.

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Thank you – Mr Khaw Tatt Siew (PEMA President) presenting a souvenir to Mr Haji Ismail Lathifi Bin Teh (General Manager of TNB Pulau Pinang) after the dialogue.



Attentive – Dialogue in progress.



Persatuan Kekompetenan Penjaga Jentera & Pendawai Elektrik Perak
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Email: pkppe.2001@gmail.com

PKPPE Facebook Fan Page

Persatuan Kekompetenan Penjaga Jentera & Pendawai Elektrik Perak (The Perak Chargeman & Wireman Competence Association - PKPPE) has created an official Facebook Fan Page to upload activities, events, photos, videos and other useful information. It serves as a good platform for members to pro-actively share ideas, receive updates, questions, view news feeds, like the page and also to share with the public and their friends.

PKPPE Facebook Fan Page:

www.facebook.com/Persatuan-Kekompetenan-Penjaga-Jentera-Pendawai-Elektrik-Perak

Technical Visit to Maxguard

On 24th May 2016, a technical factory visit was organised by PKPPE to Maxguard Switchgear Sdn Bhd in Shah Alam, Selangor. The factory visit provided an overview on the in-house QC testing facilities on finished products of the MCB (IEC 60898-1) and MCCB (IEC 60947-2). In addition, the visit also focused on the finished products' test procedures, products and IEC standards' familiarisation.

Maxguard Switchgear also gave a chance to the delegates to visit the factory lines and witness the QC process and routine tests on finished products. They also had the opportunity to witness MCB and MCCB testing procedures at the facilities.

In conclusion, the technical factory visit provided plenty of useful information, technical knowledge and standard guidelines for the benefit of our PKPPE members.



Souvenir Presentation by PKPPE Deputy President, Mr Yong Chee Choong (right) to Maxguard Managing Director, Mr Kenny Phang.



Group Photo at Maxguard Switchgear Sdn Bhd.

Touch Point Site Visit by ST

Officials from the Energy Commission (ST) Headquarters made a special site visit on 1st Jun 2016 to one of the touch point locations at Pusat Jagaan Anak-anak Yatim dan Miskin Nurul Iman, Perak. The visit delegation was led by Ir Othman Omar (Director, Regional Operation and Enforcement), Ir Hj Md Zakuan Hj Ibrahim (Regional Director Northern Region), Mr Muhammad Sharul Azam Abdul Rahim (Regional Director Perak) and was accompanied by Mr Kenny Phang (Managing Director of Maxguard Switchgear Sdn Bhd).



PKPPE President, Mr Choong Soon Yean briefing Ir Othman Omar.

The main objective for the site visit was to get more detailed information and also to conduct site inspection for the job done by PKPPE in the touch point programme. The programme involved the replacement of obsolete ELCBs with RCCBs at selected premises.



Group photo at Pusat Jagaan Anak-anak Yatim dan Miskin Nurul Iman, Perak.



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“Pengukuhan dan Pematuhan Pindaan Akta Bekalan Elektrik (Pindaan) 2015” Seminar

A Seminar on “Pengukuhan dan Pematuhan Pindaan Akta Bekalan Elektrik (Pindaan) 2015” was organised by the Energy Commission (ST) on 2nd June 2016 at Bukit Merah Laketown Resort, Perak. PKPPE participated in the seminar to receive updates from ST regarding the amendments to the Act. The seminar highlighted the Electricity Supply Act 1990 (Amendment) 2015, Electrical Infrastructure Safety Code, amendments related to licensing, enforcement activities and investigations under the Electricity Supply Act 1990 (Amendment) 2015 and also ECOS Online.

Ir Othman Omar (Director, Regional Operation and Enforcement) officiated the Opening Ceremony. A video presentation on ST’s touch point programme was also arranged. In addition, a Touch Point Programme Appreciation Award was presented by Ir Othman Omar to Mr Kenny Phang (Managing Director of Maxguard Switchgear Sdn Bhd), Mr Choong Soon Yean (PKPPE President) and PKPPE members who contributed to the programme.



Touch Point Programme Appreciation Award.

Self-Test RCCB National Campaign

It was held on 5th June 2016 at Aeon Station 18, Ipoh, Perak. TEEAM, in collaboration with Schneider Electric Industries Malaysia Sdn Bhd helped to promote RCCBs and RCBOs for water heaters. PKPPE participated as one of the supporting organisations in this campaign, by helping to secure a venue and provided manpower to assist during the day. This was to raise public awareness on domestic electrical safety and also to promote periodic self-testing of RCCBs.



Welcome Speech by PKPPE President, Mr Choong Soon Yean.

Technical Sharing Seminar on RCCBs

The Technical Sharing Seminar regarding RCCBs was held on 24th June 2016 at the PKPPE premises. The seminar was conducted by the PKPPE Technical Advisor, Mr Leong Kok Wah and the PKPPE Technical Manager, Mr Chew Kam Hoong. The technical-oriented seminar consisted of theory and practical sessions.

Mr Leong first explained the theory part, namely, the working

principle and calculation formula regarding the RCCBs and RCBOs whereas Mr Chew did the demo and simulated different types of RCCBs and RCBOs in order to prove the fundamentals discussed in the theory session. The seminar was a very interesting one and PKPPE members gained a lot of useful technical knowledge regarding the importance of RCCBs & RCBOs.



Practical session.



Mr Leong Kok Wah (right) giving theory lecture.

Self-Service Portal (SSP) Seminar by TNB Lahat, Ipoh

A new system called MyTNB will be implemented starting from 21st July 2016 to replace the existing e-application system. TNB Ipoh cordially invited PKPPE members to attend a Self-Service Portal (SSP) Seminar on 29th June 2016.

Topics included in the seminar were:

- « E-Apps migration to www.mytnb.com.my
- « Supply application summary plus roles and responsibilities
- « Registering as a myTNB user
- « Supply application for more than 100KVA
- « Supply application for Contractors
- « Key takeaways

Some video clips were presented during the seminar to introduce and educate the participating Consultants and Contractors on how to use the new system referred to as MyTNB. Videos have been uploaded into the PKPPE facebook fan page.



Seminar in progress.

*Our greatest weakness lies in giving up.
The most certain way to succeed is always
to try just one more time...*

- Thomas Alva Edison



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AGM & Election

On 17th July 2016, the Electrical Association of Sarawak & Sabah (EASS) held its 29th Annual General Meeting and Election of Office-Bearers for the term 2016-2018. Mr Hii Hua Chuon was re-elected as the Chairman of EASS.

The highlight of the event included the signing of a Memorandum Of Understanding (MOU) between EASS and University College of Technology Sarawak (UCTS) for the Electrical Wireman (Grade 2) Course. The Guest-of-Honour, Mr Syed Mohamad Fauzi Shahab, Director of Electricity Supply (Electrical Inspectorate Unit) was invited to witness the Official Signing Ceremony. The Electrical Wireman (Grade 2) Course jointly organised with UCTS is now open for registration and EASS Chairman, Mr Hii Hua Chuon appealed to the respective parties for support and participation.

On the same day, EASS Academic Excellence Awards were presented to members' children who had excelled in their studies. Seven awards were presented by the newly-elected Chairman.



MOU signing – MOU Signing between Mr Hii Hua Chuon (EASS Chairman) and Prof Dato Dr Sabarudin Mohd (UCTS Deputy Vice-Chancellor) and was witnessed by (from far left) Mr Syed Mohamad Fauzi Shahab (Director of Electricity Supply, Electrical Inspectorate Unit) and Mr Young Leh Luang (EASS Secretary).



Strong participation – The EASS 29th AGM and Election was well attended by its members.



Well done! – EASS Chairman, Mr Hii Hua Chuon presenting an Academic Excellence Award to a member's child. The event was witnessed by EASS officials.

EASS Office-Bearers for the year 2016 – 2018

Position	Name
Chairman	Hii Hua Chuon
Deputy-Chairman	Tiong Chiong Kiing
1st Vice-Chairman	Lee Joon Lee
2nd Vice-Chairman	Hii Tao Chin
3rd Vice-Chairman	Goh Kee Hin
4th Vice-Chairman	Teu Sze Wang
5th Vice-Chairman	Liong Keh Li
6th Vice-Chairman	Ong Chet Kiong
Secretary	Young Leh Luang
Secretary (English)	Yu Hieng Jeong
Secretary (Chinese)	Lai Chiong Ann
Treasurer	Ling Kung Leh
Assistant Treasurer	Wong Choo Tiong
Supervisor	Goh Yew Hwong
Assistant Supervisor	Wong Ding Hie
Public Relations Officer	Chia Yik Chong
Welfare Officer	Toh Kah Wuong
Committee Members	Wong Liong Hiong
	Hii Teck Ping
	Ngu Meng Kuong
	Wong Yuk Soon
	Sia Wee Ching
	Law Hieng King
	Nguoi Ing King (Vincent)
	Siew Ik King

Sub-Committee Chairmen

Contractor Officer-In-Charge	Lau Ting Hui
Contractor Assistant Officer-In-Charge	Ng Kian Ko
Contractor Assistant Officer-In-Charge	Lu Weng Leong
Supplier Officer-In-Charge	Lee Men Chiew
Supplier Assistant Officer-In-Charge	Hii Yii Hock
Air-Conditioner Officer-In-Charge	Lau Kiing Yieing
Air-Conditioner Assistant Officer-In-Charge	Moh Kee Tung
Air-Conditioner Assistant Officer-In-Charge	Razali Bin Mahsen
Wireman Grade I Officer-In-Charge	Wong Hock Chin
Wireman Grade I Assistant Officer-In-Charge	Hii Lu Hui
Wireman Grade I Assistant Officer-In-Charge	Benedict Sii Lee Tat
Wireman Grade II Officer-In-Charge	Sii How Siang
Wireman Grade II Assistant Officer-In-Charge	Hu Kheng Wei
Technician Officer-In-Charge	Ling Ting Mong
Technician Assistant Officer-In-Charge	Sazali Bin Adeni
Technician Assistant Officer-In-Charge	Petrus Ak. Lapok
Education Officer-In-Charge	Ting Kee Nguan
Education Assistant Officer-In-Charge	Kong Kuok Shien
Tourism Officer-In-Charge	Ding Tiing Hoh
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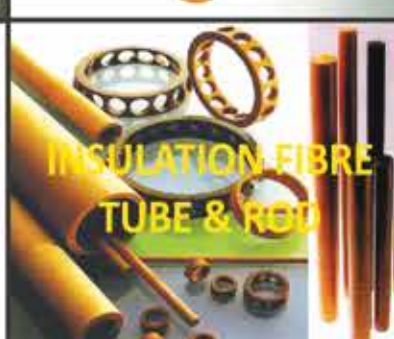


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Email: sea.kchsarawak@gmail.com

Dialogue with EIU

The Electrical Inspectorate Unit (EIU) of the Public Utilities of Sarawak, visited the Sarawak Electrical Association (SEA) to have a Dialogue Session on 3rd August 2016. The EIU delegation was headed by its Director, Mr Syed Mohamad Fauzi. On hand to welcome the EIU delegation was SEA Chairman, Dato' Sri Ir Peter Lu and his Committee Members. The main issue discussed was regarding the reclassification of electrical installation contractor certification.



For the album – EIU visiting SEA for a Dialogue Session.

Visit to Intermach & Subcon Thailand

Dato' Sri Ir Peter Lu, Chairman of Sarawak Electrical Association (SEA), joined the TEEAM delegation to visit Intermach & Subcon Thailand 2016 from 11th to 14th May 2016 at BITEC, Bangkok. It was a fruitful event with good exposure to the Thai market, to source for electrical and electronics components and parts.



Fruitful visit – Dato' Sri Ir Peter Lu (SEA Chairman) at Intermach & Subcon Thailand 2016.

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Email: info@jbeea.com.my
Website: www.jbeea.com.my

38th Anniversary Dinner

The Johor Bahru Electrical & Electronics Association (JBEEA) celebrated its 38th Anniversary on 23rd July 2016 at Grand Straits Garden Restaurant, Danga Bay, Johor Bahru. Gracing the event as the Guest-of-Honour was Energy Commission (ST) Director of Southern Region, Ir Idris Jamaludin. TEEAM Vice President, Ir Chang Yew Cheong was also present to congratulate JBEEA and share their joyous moment. Some 71 tables of guests and JBEEA members joyously celebrated the grand occasion. There was live band performance, lucky draws and games to entertain the invited guests and members. It was indeed a memorable night for all present.



All smiles – JBEEA Committee Members posing for a group photo.



For the album – (from left) Mr Wong Jiunn Shyong (Deputy Chairman), Ir Idris Jamaludin (ST Director, Southern Region), Ir Chang Yew Cheong (TEEAM Vice President) and Mr Lee Chee Boon (JBEEA Chairman).

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Evaporative Air Cooler

商业移动式冷风机

Big Airflow, Less Noise, Heavy Duty Products

《风力强大集中，噪音低及耐用》

节能省电每小时费用只8分

How Evaporative Coolers Work

Centralized & Distance Airflow - up to 50 ft

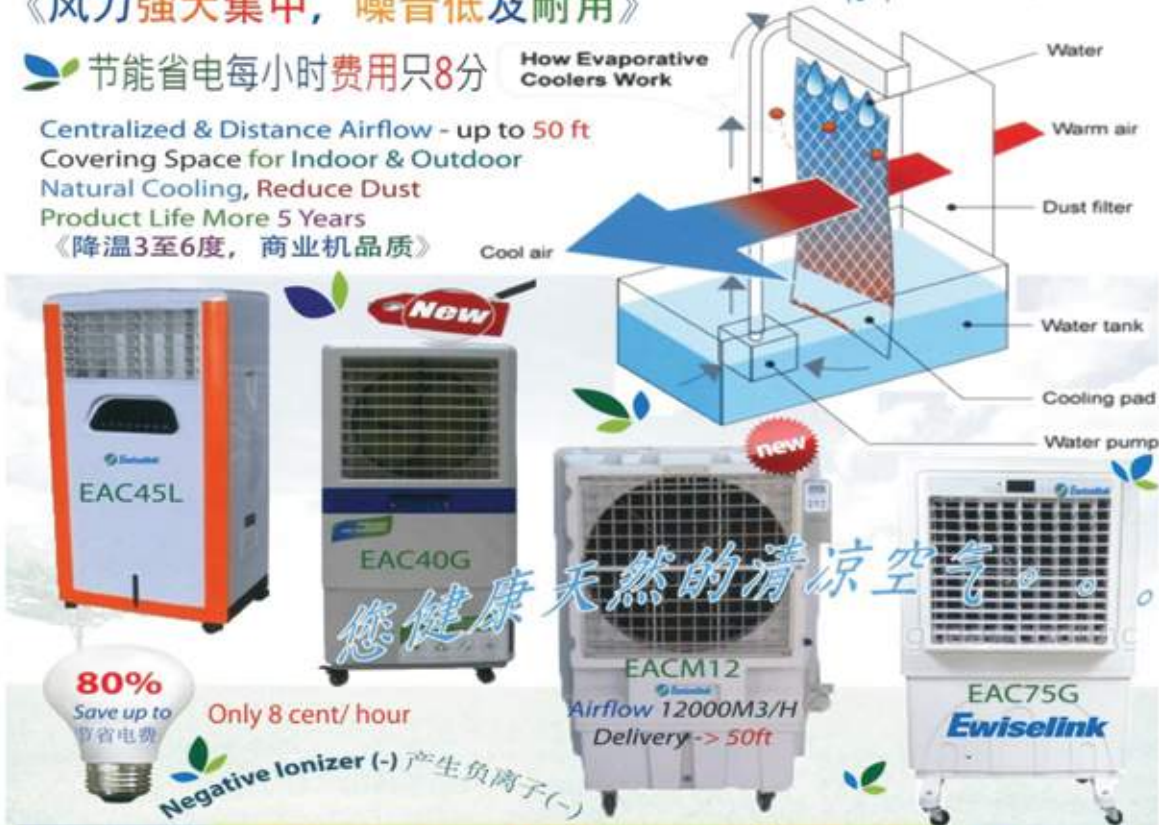
Covering Space for Indoor & Outdoor

Natural Cooling, Reduce Dust

Product Life More 5 Years

《降温3至6度，商业机品质》

It's all Cool Fresh Air..
for your health...



MODEL	EAC 40G	EAC 45L	EAC 75G	EAC M12
Airflow (M3/H)	4000	4500	>7500	12000
Motor Power (W)	90	100	200	450
Rated Power (w)	200	280	350	500
Speeds/Phase	3/240V/50HZ	3/240V/50HZ	3/240V/50HZ	3/240V/50HZ
Fan Type	Axial	Centrifugal	Axial	Axial
Air Pressure (Pa)	50	60	90	130
Noise (dB)	<56	<54	<63	<75
Water Tank (L)	30	35	85	110
Water Consumption(L/H)	4 ~ 6	3 ~ 5	8 ~ 10	12 ~ 15
Winding Distance (M)	6	7	12	20
Cooling Area (M2)	25 ~ 40	30 ~ 50	50 ~ 80	80 ~ 120
Size(mm) L*W*H	610*400*1280	610*400*1320	756*570*1380	900*560*1400
Net Weight (Kg)	28	30	35	40
Gross Weight (Kg)	30	32	38	45
Operating Weight (Kg)	58	60	120	135
Cooling Pads	3	1	1	1
Built-In Ionizer		YES		NO
Water Level Indicator		YES		
Dust Filter Net		YES		

* Pump Protection

* Over Load Protection

* Temperature Display

* Remote Control



ARI ELECTRIC SDN BHD (461513-W)

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Donation to Cheshire Home & Bukit Harapan

On 29th April 2016, Persatuan Elektrik Sabah (PES) donated RM3,000.00 each to the Sabah Cheshire Home & Bukit Harapan Therapy Community. The charity funds were generated from the 2nd Charity Golf Tournament organised by PES in January 2016.

A group of PES Committee Members led by the President Mr Bunny Teh Bung Nee together with the First Lady Mrs Jenny Teh, paid a visit to the charity homes to hand over the funds. Madam Jennifer Liew is the Person In-Charge (PIC) of the Sabah Cheshire Home which specially takes care of disabled children, abused children and also single and disabled women. Madam Audra Keyworthof is the Person-In-Charge of the Bukit Harapan Therapy Community, which also provides a shelter home for disabled children, abused children and also for single and disabled women.

The children were well trained with various skills and talents to upkeep their minds and bodies. The PES group was entertained by the children playing songs with guitar accompaniment.



Mock Cheque presentation – (from left) Mrs Jenny Teh, Madam Jennifer Liew, Mr Roslan Serin, President Bunny Teh Bung Nee & Mr Mohd Zulfikar.



Posing for the album – (left to right, back row) – Madam Audra Keyworthof, Mrs Jenny Teh, President Bunny Teh Bung Nee, Mr Mohd Zulfikar, Mr Roslan Serin & Ms Marcyella.

Installation of PES' New Office-Bearers

PES' 10th Elected Office-Bearers Installation for the year 2016-2017 was held at EWest Function Room, Kota Kinabalu on 6th May 2016.

During the same evening, Ir Dr Jacob Yan Ngai Nen and Datuk Lee Chuen Wan JP, were appointed as Technical Advisor and Legal Advisor respectively for the year 2016-2017. The installation and swearing-in ceremony was witnessed by the Technical Advisor, Ir Dr Jacob Yan Ngai Nen and the Immediate Past President, Mr Woo Soo Poo.



New Office-Bearers

(standing, from left) Committee Members – Mr Albert Tey Boong Kwang, Mr Ricky Wong Kiong Lien, Mr Lee Vui Ken, Mr Lai Tet Vui, Mr David Chan Siew Vui, Mr Danny Chin Chee Khen, Mr Lawrence Yap Kong Fen and Mr Chin Fui Ming. (Seated from left) Mr Alexander Richard (Asst Secretary), Mr Roslan Serin (Secretary), Mr Leslie Jong (Vice President 1-cum-President Elect), Ir Dr Jacob Yan Ngai Nen (Technical Advisor), Mr Bunny Teh Bung Nee (PES President), Mr Woo Soo Poo (Immediate Past President), Mr Aldrin Wong Fung Lyong (Vice President II) and Mr Mohamed Zulfikar (Treasurer).

Donation to Yayasan Kebajikan Suria

On June 17th 2016, PES handed over RM3,000.00 to Yayasan Kebajikan Suria at Yayasan's Office in Likas, from the funds generated from the 2nd PES Charity Golf Tournament. PES was warmly welcomed by the Home Founder and Executive Chairman, Datuk Raya Erom.

Among the PES Committee Members present were President Bunny Teh Bung Nee and First Lady, Mrs Jenny Teh, Vice President, Mr Aldrin Wong and Secretary, Mr Roslan Bin Serin.



Charity at heart – PES President, Mr Bunny Teh Bung Nee, presenting a mock cheque to Datuk Raya Erom.

Recognition of Prior Learning Talk

PES' Technical Advisor, Ir Dr Jacob Yan Ngai Nen presented a talk on Recognition of Prior Learning (RPL) at the PES Office on 4th July 2016. This programme was introduced by Ir Dr Jacob Yan to PES members and it is especially designed for those who are not highly educated but have an abundance of industry experience. Under this programme, applicants need to have at least five years