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- Provides large air volumes and high external static pressure, enabling the use of extensive ductworks.
- Benefits:
 - ▶ Easy installation and maintenance.
 - ▶ Unit Customization (Fan type, motor, AHU fin material, coil frame, drain pan, air filter).
 - ▶ Total solution concept that enables both design and installation procedures to be based on one single technology.

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VRV IV



VRV IV S Series



VRV IV W Series



VRV IV Q Series



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COP 4.5



Heat



Heat Exchanger Unit

FREE HOT WATER

Hot Water supply

Converts wasted heat into heat energy that is used to provide hot water for the user.

Golf Tournament Winners

GROSS

Gross Champion:
Seow Nam Seng
Trophy + Replica + Toshiba 55" SMART LED TV

2nd Prize:
Wong Jiann Shyong
Trophy + Panasonic 49" LED TV

3rd Prize:
Francis Heng
Trophy + Samsung J7 Prime

4th Prize:
Ho Jin Hin
Sharp 32" LED TV

5th Prize:
Jeffrey Low
Lenovo Tab 2A

NETT

Nett Champion:
Philip Tang Tung Kee
Trophy + Replica + Toshiba 55" SMART LED TV

2nd Prize:
Cheong Pak Fatt
Trophy + Samsung J7 Prime

3rd Prize:
Nurrachman Abdul Basit
Trophy + Samsung J5 Prime

4th Prize:
Fong Mun Loon
Sharp 32" LED TV

5th Prize:
Sunny Lim
Lenovo Tab 2A

6th Prize
Muhammad Fairuz Addailami
3 Days/2 Nights stay at Swiss-Garden Resort Voucher for 2 persons

7th Prize:
Lam Kim Hoong
Sharp Micro System

8th Prize:
Kikid Sukantomo Adibroto
Mitsubishi Remote 16" Stand Fan

9th Prize:
Ardi Setiawan
Mitsubishi Remote 16" Stand Fan

10th Prize:
Goh Han Eng
Sharp Microwave Oven

11th Prize:
Liang Kok Boon
Sharp Microwave Oven

12th Prize:
Tony Wong
Panasonic Rice Cooker

13th Prize:
Ong Tiong Hing
Panasonic Rice Cooker

14th Prize:
Alex Yoon
KDK Stand Fan

15th Prize:
Ong Lit Jin
KDK Stand Fan

NOVELTY EVENT

NTP (Hole 5):
Lim Chee Chuan
KDK Table Fan

NTP (Hole 15):
Ng Yong Huat
KDK Table Fan

NTP (Hole 8):
Ardi Setiawan
KDK Table Fan

NTP (Hole 14):
Tan Seng Leong
KDK Table Fan

Longest Drive (Hole 8):
Zamri Shahrir
KDK Table Fan

Longest Drive (Hole 14):
Eddie Foo
KDK Table Fan

Wooden Spoon

Thomas Foo
Wooden Spoon + One dozen Golf Balls

Overall Gross Champion

Seow Nam Seng
TEEAM Gross Challenge Trophy

Overall Nett Champion

Philip Tang Tung Kee
TEEAM Nett Challenge Trophy

Upcoming Sports Event

TEEAM Badminton Tournament 2017



Date : 22nd & 29th October 2017 (Sundays)
Time : 9:00am
Venue : Sports Forum 19,
Petaling Jaya, Selangor

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

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The TEEAM Sports & Recreation Sub-Committee wishes to record its thanks and appreciation to the following sponsors for their generous sponsorship of goodies, prizes and cash for the TEEAM Golf Tournament 2017:

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2 sets Vouchers for 3 Days/2 Nights stay at Swiss Garden Resort for 2 persons

Omron Electronics Sdn Bhd

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Manufacturer Sdn Bhd

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Success Electronics & Transformer Manufacturer Sdn Bhd

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United MS Electrical Mfg (M) Sdn Bhd

RM 1,000.00

United U-Li (M) Sdn Bhd

RM 1,000.00

Wong Electrical & Teak Wood Sdn Bhd

RM 1,000.00



*Upcoming
Sports Event*

TEEAM Bowling Tournament 2017



Date : 17th December 2017 (Sunday)

Time : 2:00pm

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 : vince@teeam.org.my

Website : www.teeam.org.my



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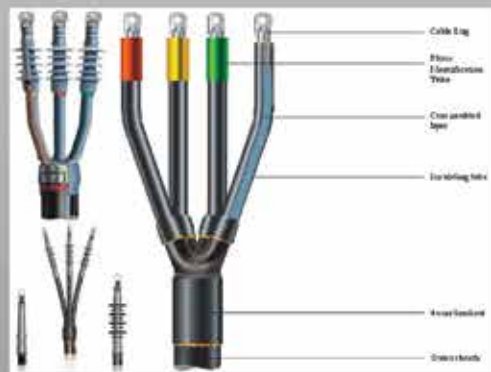


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Courtesy Visit to TEMCA Thailand

TEEAM Officials visiting the ASEAN Sustainable Energy Week 2017 took the opportunity to visit the Thai Electrical & Mechanical Contractors Association (TEMCA) on 6th June, 2017. TEEAM President, Ir Yong Ah Huat, led an 8-member delegation to TEMCA. On hand to receive the TEEAM delegation were TEMCA Officials, Mr Anant (Past President), Mr Taksin (Past President), Mr Teerapob (Deputy Secretary General), Ms Warin (International Affairs

Committee Member) and Mr Wuttikorn (Committee Member).

The visit aimed at providing a platform for networking and to learn about the Thai electrical industry. They shared market information, regulations of the electrical industry, competent personnel training & examination, and activities of TEMCA and TEEAM. Both parties had very fruitful discussions.

Good Networking and Fruitful Discussions





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State Associations News



Johor Bahru Electrical & Electronics Association

No.7-01, Jalan Bentara Luar, Taman Iskandar,
80050 Johor Bahru, Johor Darul Takzim.
Tel: +607 - 333 8174 Fax: +607 - 224 1923
E-mail: info@jbeea.com.my
Website: www.jbeea.com.my

39th Anniversary Dinner

The Johor Bahru Electrical and Electronics Association (JBEEA) celebrated its 39th Anniversary on 22 July, 2017 at Grand Straits Garden, Johor Bahru.

The Guest-of-Honour for the evening was Ir Idris Jamaluddin, the Regional Head of Johor Suruhanjaya Tenaga (ST) – the Energy Commission. Other VVIPs present were Mr Siew Choon Thye, the Deputy President and Mr Simon Leong, the Vice President, both hailing from The Electrical and Electronics Association of Malaysia (TEEAM), and Mr Tee from the Kluang Electrical Association. JBEEA's newly-acquainted associate Mr Wong Yee Foong, the Honorary Secretary of The Institution of Engineers Malaysia, Southern Branch, also graced the occasion.

Apart from the dinner, music, games and lucky draws, this year's auspicious occasion was celebrated with the theme "Malaysian Cultural Night", whereby guests were encouraged to dress according to Malaysia's various cultural costumes. This was to reflect Malaysia's multi-racial and multi-cultural society. Another highlight of the evening was the "Recognition Award of Loyalty" awarded to five senior members of JBEEA (of more than 35 years service), who have served in the Committee (either previously or currently), and are still tirelessly contributing towards the association's activities. They are Mr Lee Hai Soon, Mr Tan Lian Hua, Mr Chua Hock Leong, Mr Tan Eao Teck and Mr Ng Kim Seng who indeed are all JBEEA valuable members.

JBEEA's 39th Anniversary celebration was certainly a joyous and memorable night for all.



Souvenir presentation – (left) Mr Siew Choon Thye (TEEAM Deputy President) exchanging a token of appreciation with (right) Mr Lee Chee Boon (JBEEA Chairman). Looking on is Ir Idris Jamaluddin, Regional Head of ST Johor.



Enjoyable night – (from left) Mr Simon Leong (TEEAM Vice President), Mr Lee Chee Boon (JBEEA Chairman) and Mr Siew Choon Thye (TEEAM Deputy President).



Congratulations! – A group photo of JBEEA Committee Members before Dinner.

ST Johor's Customer Day Programme

At the invitation of ST Johor, JBEEA participated in an exhibition held in-conjunction with ST Johor's Customer Day Programme. It was organised on 19th September, 2017 at Dewan Tun Sulaiman Ninam Shah, Muar, Johor.

JBEEA set up demo panels for Self-Test RCCB (Residual Current Circuit-Breakers) to raise safety awareness for the general public on the importance of self-testing their RCCBs at home.



For the album - Mr Lee Chee Boon (JBEEA Chairman) with Ir Idris Jamaluddin (Head of Southern Region ST).



Fruitful day – Presentation of token from ST to JBEEA.

EW, CFL & Recycling Programme

JBEEA continued to support and participate in TEEAM's recycling programme on the collection of E-Waste (EW), Compact Fluorescent Lamps (CFL) and Fluorescent Lights (FL). On 22nd and 23rd July, 2017, JBEEA joined the TEEAM Roadshow in Sutera Mall, Johor Bahru to raise public awareness on the proper disposal of EW, CFL and FL. JBEEA Chairman, Mr Lee Chee Boon was present to support the event.



Strong support – (from left) Mr Lee Shaw Ven (MyCIE EW, CFL & FL Committee), Mr Simon Leong (TEEAM Vice President) and Mr Siew Choon Thye (TEEAM Deputy President).



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..... Continue State Associations News



Penang Electrical Merchants' Association

No. 171A, Malacca Street, 10400 Penang.

Tel: +604 - 229 0195 Fax: +604 - 228 4233

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

PEMA 69th Anniversary Dinner Celebration

Penang Electrical Merchants' Association (PEMA) celebrated its 69th Anniversary Dinner at Elite House Restaurant, Penang on 29th April, 2017. The event was graced by YB Ng Wei Aik, Member of Parliament for Tanjong. More than 450 members and guests including PEMA trustees and advisors attended the function.

Lucky draw, karaoke, entertainment and presentation of new membership certificates were among the highlights of the highly successful Dinner. PEMA President Mr Khaw Tatt Siew presented New Members' Certificates to Pal Net Technologies Sdn Bhd and Globalcomm Solutions Sdn Bhd. The Dinner Organising Chairman, Mr Lim Kim San thanked all PEMA members for their loyal support which had contributed to the success of the Anniversary Dinner.

It has been a challenging year for PEMA and what a better way to start afresh the occasion with members and guests mingling and enjoying the dinner in the true spirit of PEMA's noble vision.



PEMA Committee Members – Cake cutting ceremony



Souvenir Presentation – Member of Parliament, Mr Ng Wei Aik (2nd from left) receiving a Souvenir from PEMA President, Mr Khaw Tatt Siew (2nd from right). Accompanying them are Dato' Ooi Kok Kee (far left), Dato Seri Hong Yeam Wah (centre) and Dinner Organising Chairman, Mr Lim Kim San (far right).

One Day Joint-Seminar with SIEMENS Malaysia

PEMA, with the support of Siemens (M) Sdn Bhd and the Energy Commission (Suruhanjaya Tenaga – ST), organised a one day Joint Seminar at the Equatorial Hotel, Penang on 11th July, 2017. There were three topics presented of which the first topic, Digitalization in Energy Management, was conducted by Speakers from Siemens Malaysia headed by Mr Sandeep Sabnis (Vice President - Technical Sales). The second topic was on Total Integrated Power (TIP), and this was conducted by Mr Hartmut Werner (Senior - Business Development). The last topic was on Electrical Planning Tools, conducted by Mr Chua Yi Quan (Sales Manager). The topic on Maintenance of Installation & Examination was conducted by ST's Mr Zainal Ramli (Regulatory Officer) and Mr Muhammad Azmi Ishak (Senior Regulatory Officer).

This industry seminar was specially organised to introduce new technologies plus feature talks and discussions that evolve around the landscape of current and future power distribution needs.

The response to the seminar was encouraging with 60 participants in attendance. CIDB and BEM have approved the seminar for 10 CCD points and 4 CPD hours respectively. This course is also HRDF claimable. Each participant was presented with a Certificate of Attendance.



Good turnout – A group photo at the end of the event.



For the album – (from left) Mr Chua Yi Quan (Siemens Speaker), Mr Zainal Ramli (ST Regulatory Officer), Siemens Speakers - Mr Hartmut Werner and Mr Sandeep Sabnis, Mr Khaw Tatt Siew (PEMA President), Ir Lee Weng Keen (PEMA Honorary Secretary) and Muhammad Azmi Ishak (ST Senior Regulatory Officer).

PEMA Academic Award 2017

The PEMA Academic Award 2017 was held at the Vistana Hotel, Penang on 16th July, 2017. The event was officially graced by YB Chong Eng, Penang State Executive Councillor for Youth & Sports and Women, Family & Community Development. In conjunction with the Academic Award, an education talk was conducted by Educationist, Ms Vivian Goh who has more than 20 years of inspirational and motivational talk experience.

In his address, YB Chong Eng congratulated the Association's dynamic leaders for emphasising the important of education to the children of PEMA members and their employees, as well as the importance of lifelong learning and continual upgrading efforts.

The PEMA Academic Award is presented to children of PEMA members and children of PEMA's employees who achieve outstanding results in the UPSR, PT3, SPM and STPM Examinations. A total of



Well done! – A group photo of PEMA Committee Members, Guests, and PEMA Members with their employees and their children.

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LARSEN & TOUBRO

30 recipients were presented with the awards and a sum totalling RM5,350.00 was paid out. Besides the awards, PEMA also presented the 2nd year Scholarship Award of RM2,000.00 to Mr Ng Yun Ning. PEMA President, Mr Khaw Tatt Siew thanked all PEMA members, organisations and individuals for their continuous support which had made the PEMA Education Fund possible. After the Award presentation a token of appreciation was presented to the speaker for her excellent presentation. The President also presented a souvenir to YB Chong Eng in appreciation of her time and effort in gracing the occasion. Thereafter, a sumptuous lunch was provided for all participants.



Thank you – Souvenir presentation to (2nd from right) YB Chong Eng, by Education Committee Chairman, Dato' Ooi Kok Kee. With them are (far right) Dato' Seri Hong Yeam Wah and (far left) Mr Khaw Tatt Siew (PEMA President).

PEMA-TNB Dialogue

An annual dialogue with TNB Pulau Pinang was successfully held on 31st July 2017. Prior to the dialogue, a contractors' meeting was held on 18th July, 2017 to discuss issues and the agenda for the dialogue. Mr Khaw Tatt Siew (PEMA President) led an 8-member delegation to the dialogue. TNB Pulau Pinang was represented by their newly-appointed General Manager for the State of Penang, Dato' Ir Lim Yew Soon and eleven of his officials.

The dialogue started with a briefing by TNB Pulau Pinang on the schedule of TNB works for the industries category and flow chart, new procedures plus time duration for application by MV/HV large power users. Issues brought up at the dialogues focused on that of substation, budget and shortage of materials (which are still persisting for contractors), Self Services Portal, unstable system and submission problems.



Meeting in progress – Important issues were highlighted at the meeting.



For the album – A group photo capped off the dialogue.



Electrical Association of Sarawak & Sabah

No. 2A/F, 2nd Floor, Hardin Road, 96000 Sibul, Sarawak.

Tel: +6084-319 949 Fax: +6084-325 112, 346 114

E-mail: sibuccei@gmail.com

Seminar on Lightning Arresters

The Electrical Association of Sarawak & Sabah (EASS) together with L V Control Sdn Bhd, co-organised a Seminar on Lightning Arresters for the benefit of EASS members. The seminar was successfully held on 19th May 2017 at Paramount Hotel, Sibul.

EASS Chairman, Mr Hii Hua Chuon explained that damage to buildings may occur due to soil subsidence and this will subsequently lead to lightning and leakage problems. During his opening speech, he advised the participants to engage a licensed contractor for wiring maintenance to ensure better protection. Overall, the seminar received positive feedback from EASS members.



Thank you – (right) EASS Chairman, Mr Hii Hua Chuon presenting a token of appreciation to LV Control's seminar speaker, Mr Lionel Goh.



Full house support! – The seminar received overwhelming support from EASS members. Bravo!



Sabah Electrical Association

Lot No. 3-3-R, Beverly Hills Plaza, Jalan Bundusan, 88300 Kota Kinabalu, Sabah.

Tel: +6088 - 712 358 Fax: +6088 - 717 358

E-mail: pes233sabab@gmail.com

Website: www.pes-sabah.org

TEEAM Golf Tournament

President of the Sabah Electrical Association (PES), Mr Bunny Teh participated in the TEEAM Golf Tournament which was held on 7th September 2017 at Kelab Rahman Putra Malaysia, Sungai Buloh, Selangor. Mr Bunny Teh came in a VIP flight with golfers from Indonesia and Singapore. It was a good event to foster fellowship among golfers.



Networking – (centre) PES President, Mr Bunny Teh at the club.



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The Perak Electrical Association

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E-mail: multipower99@gmail.com / peaipoh@gmail.com

PEA 54th Anniversary Dinner

The Perak Electrical Association (PEA) celebrated its 54th Anniversary on 3rd September 2017 at Sun Lee How Fook Restaurant, Ipoh. TEEAM Vice President, Ir Chang Yew Cheong and some Council Members attended the celebration dinner.

During the dinner, academic excellence awards were presented to primary and secondary school students as well as university undergraduates. The recipients were children of PEA members'. There were singing and lucky draws to entertain the guests and members.



PEA 54th Anniversary Dinner - Happy occasion.



For the album - Good networking and excellent turnout!

TEEAM AGM

Representatives from PEA attended the TEEAM AGM and Election 2017 which was held on 21st May 2017 at Armada Hotel, Petaling Jaya, Selangor. PEA members did their part in casting their valuable votes during the TEEAM election.



Support from Perak - (from left) Mr Lim Chun Sing, Mr Har Chee Hoong of PEA and Mr Nick Liew of PKPPE at the TEEAM AGM.

Visit to the Self-Test RCCB Roadshow

With the objective of promoting the importance of regularly performing RCCB self-tests, PEA supported through its attendance, the PKPPE and TEEAM Awareness Roadshow which was held at AEON Big Shopping Complex, Falim Ipoh. The 3-day exhibition held from 4th to 6th August, 2017 drew a tremendous crowd. It was a highly fruitful event for public safety awareness.



Great event - (6th from right) Mr Chan Kaim Sam (PEA President) with TEEAM and PKPPE officials at the booth in AEON Big Shopping Complex, Ipoh, Perak.

PEA at TEEAM Lightning Seminar

PEA President, Mr Chan Kaim Sam attended the Seminar on Lightning Protection organised by TEEAM on 22nd August, 2017 at Armada Hotel, Petaling Jaya, Selangor. It provided an excellent opportunity to learn about the lightning protection system and risk analysis with the Dehn software demonstration. It was a very fruitful seminar for all the participants.



Full attention - Seminar in progress.

TEEAM Golf Tournament

On 7th September 2017, golfers from PEA led by its President Mr Chan Kaim Sam, participated in the TEEAM Golf Tournament 2017 at Kelab Rahman Putra Malaysia in Sungai Buloh, Selangor. As the results, Mr Tan Seng Leong of PEA won the prize of Nearest to Line (NTL) and get a KDK stand fan. This annual sports event is meant to foster fellowship and everyone certainly had a great time at the Club.



Looking smart - PEA golfers posing during a light lunch.



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Email: pkppe.2001@gmail.com

PKPPE at the TEEAM AGM

Mr Choong Soon Yean (PKPPE President) and Mr Nick Liew Kar Hoe (PKPPE Vice Secretary) attended the TEEAM Annual General Meeting (AGM) and Election 2017 which was held on 21st May 2017 at Armada Hotel, Petaling Jaya.

Ir Yong Ah Huat was elected as the new TEEAM President for the year 2017-2019. The AGM ended with buffet lunch served at the Coffee House.



All smiles – Networking during the coffee session.

Presentation on Voltage Dependent and Voltage Independent RCCBs

On 31st May 2017, PKPPE was once again invited by Energy Commission (Suruhanjaya Tenaga - ST) to give a presentation on the difference between Voltage-Dependent (VD) and Voltage-Independent (VI) RCCBs (Residual Current Circuit-Breakers) at the Diamond Building, which is the Energy Commission's headquarters located at Precinct 2, Putrajaya.

PKPPE representatives present at the presentation were Mr Choong Soon Yean (President), Mr Leong Kok Wah (Technical Advisor), Mr Yong Chee Choong (Deputy President), Mr Tony Leong Kwong How (Committee Member) and Mr Ong Kean Seng (Auditor).

The objective of the presentation was to differentiate the pros and cons of the VI and VD RCCBs via a practical demonstration session. Thereafter, a discussion session chaired by ST was held to obtain opinion, outcome, feedback and suggestions from all related parties. The presentation ended at 1:00 pm.



Attentive participants – Demonstration of VD & VI RCCBs testing methods.



Panel discussion – Knowledge and views being shared on the subject matter.



For the album – PKPPE and TEEAM officials with (seated 2nd from left) Mr Mohd Elmi Anas (ST Director of Electrical Safety Regulation).

PKPPE Courtesy Visits

On 8th June 2017, PKPPE paid courtesy visits to Terasaki Electric (M) Sdn Bhd, Mikro Sdn Bhd, EITA Resources Bhd and Maxguard Switchgear Sdn Bhd. The courtesy visits were led by Mr Choong Soon Yean (PKPPE President) and accompanied by PKPPE officials, namely, Mr Yong Chee Choong (Deputy President), Mr Chew Kam Hoong (Treasurer) and Mr Ong Kean Seng (Auditor).

The aim of the visits were to send formal invitations to invite the respective companies to attend PKPPE's 16th Anniversary Dinner, which was to be held on 16th September 2017 at the Unique Seafood Restaurant in Ipoh. Besides that, the courtesy visits also aimed to foster networking, share views, discuss possible future co-operation and also to thank them for their commendable loyal support.



Group photo at EITA Resources Berhad



Group photo at Maxguard Switchgear Sdn Bhd



Group photo at Terasaki Electric (M) Sdn Bhd



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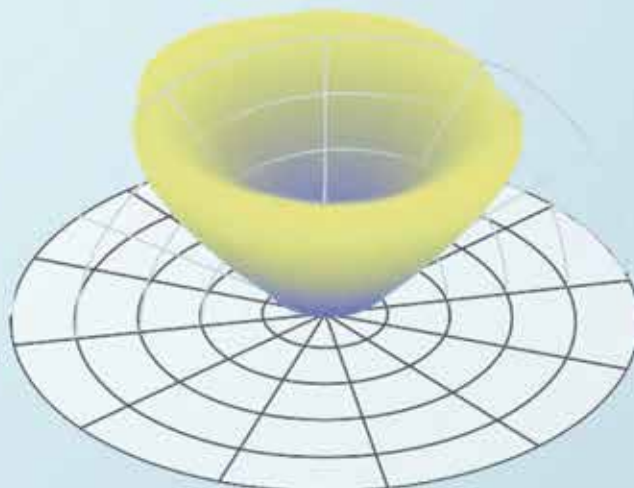


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Group photo at Mikros Sdn Bhd

Technical and Vocational Education Training Seminar – (Pentauliahhan Pencapaian Terdahulu, PPT)

A Technical and Vocational Education Training Seminar on ‘Pentauliahhan Pencapaian Terdahulu – PPT’ (Recognition of Prior Achievement) was held on 29th June 2017 at the Perak Chinese Chamber of Commerce & Industry (PCCCI) in Ipoh.

The Training Seminar started with a Welcome Speech by PCCCI Secretary, Dato’ Ng Yok Gee DIMP, KMN, AMP. Dato’ Ng. He explained that PPT is a Recognition of Prior Achievement method to give recognition to any individual who can demonstrate skills outlined in the National Occupational Skills Standard (NOSS) based on one’s prior industrial experience and achievements.

PCCCI Corporate Sector Central Committee Member, Mr Wong Lean Fatt AMP, was the Training Seminar Speaker. He spoke on the Malaysia Skills Certificate Levels 1 & 2 and the NOSS and Portfolio Method for PPTs. Mr Wong emphasised that it is a good opportunity for all skilled and experienced workers who do not have any certificates, to apply for such an official recognition or accreditation by NOSS.



PKPPE’s Solid Support – (centre) PCCCI Secretary, Dato’ Ng Yok Gee DIMP, KMN, AMP, giving his Welcome Speech. The distinguished Speaker, Mr Wong Lean Fatt AMP, is on his right.

Mr Yong Chee Choong (PKPPE Deputy President) was involved in organising and recruiting PKPPE Members to attend the seminar, with a view to understand the procedure and process flow for applying SKM through this PPT methodology. Mr Choong Soon Yean (President), Mr Leong Kok Wah (Technical Advisor), Mr Wong Seak Wai (Secretary) and Mr Khoo Choo Boon (Member) were also present at the Training Seminar.



For the album – Group photo taken at the end of the enlightening session.

Seminar & Product Launch

PKPPE was honoured to be invited by Alpha Automation (Selangor) Sdn Bhd for its CHINT One Day Seminar & Product Launch on 21st July, 2017 at G Hotel Jalan Kelawei, Pulau Pinang.

The CHINT NEXT Series were introduced thereat and it comprised the unveiling of Alpha Automation’s Air Circuit-Breaker, Modular Din Rail Product and Motor Control & Production innovations. The seminar was very meaningful and PKPPE officials learned a great deal from the experts in their related fields.



Showcase – New products and innovations, being explained by CHINT experts.

Sin Chew Trade Fair Perak 2017

Sin Chew Press organised the biggest 7-in-1 Fair in AEON Big Falim, Ipoh from 4th to 13th August 2017. The 7-in-1 Fair included 3-Day Sin Chew IT Fair from 4th–6th August 2017 and a 10-Day General Fair from 4th–13th August 2017. The Thai Food Fair, Samsung Fair, Book Fair, Dinosaur Fair and Furniture & Houseware Fairs were the Trade Fair highlights.

PKPPE was honoured to be officially invited and consequently collaborated with TEEAM, ShowerTec Industries Sdn Bhd, Mikros Sdn Bhd and Ban Guan Lee Hardware Electric Sdn Bhd as participants in the Sin Chew Trade Fair. PKPPE set up a Self-Test RCCB Campaign booth to carry out its Corporate Social Responsibility (CSR) initiative to raise public awareness on RCCB safety. In addition to that, ST also prepared flyers and vouchers to distribute to the public for safety awareness and guidelines.



Demo – Mr Kan Kok Meng (PKPPE Committee) explaining to the public on the Self-Test RCCBs.



Support – Posing with PCCCI President, Dato’ Liew Sew Yee DPMP JSM PMP JP (6th from left).



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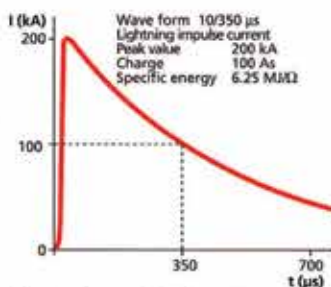
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Well Done! – Group photo after the event

Engagement Session with TNB

PKPPE was invited by TEEAM to attend an Engagement Session with TNB's Customer Service, Customer Care & Business Development Department at Hotel Bangi-Putrajaya, Bangi on 9th August 2017.

Ir Chang Yew Cheong (TEEAM Vice President), Mr Nick Liew Kar Hoe (PKPPE Vice Secretary) and Mr Stanley Wong Chen Yu (PKPPE Committee Member) attended the session. It started with a Welcome Speech delivered by Datuk Ir Mohd Azim Dato' Hj Yusof (TNB General Manager for Customer Care & Business Development Department).



Good turnout – Datuk Ir Mohd Azim Dato' Hj Yusof delivered his Welcome Speech.

The content of the first session was about updates on the internal restructuring of TNB and the Utility. It was hoped that the Associations present could deliver the presented message to their members. The engagement continued with a dialogue session and a product & services briefing by TNB. The last session of the day was an informative tour to the TNB Gallery Walk.

The sessions proved to be a highly fruitful engagement, to be updated on the latest information and future direction of TNB. The session ended with a sumptuous buffet lunch at 1:00 pm.



For the album – A group photo capped off the session.

Code & Guideline Seminar and Launching

PKPPE attended a Seminar and Launching of the “Non-Domestic Electrical Installation Safety Code” & “Guideline for the Design, Installation, Inspection, Testing, Operation & Maintenance of Water Heater Systems” on 24th August 2017 at Dorsett Hotel, Putrajaya, at the invitation of the Suruhanjaya Tenaga (ST, Energy Commission) Headquarters.

Mr Wong Seak Wai (Secretary), Mr Chew Kam Hoong (Treasurer), Mr Nick Liew (Vice-Secretary), Mr Tony (Committee) and Mr Stanley Wong (Committee) attended the Seminar and Launching.

The event started with an Opening Speech by Mr Mohd Elmi Anas (ST Director of Electrical Safety Regulation Department) and it was followed by the Launching Ceremony of the Code & Guideline via an amazing Launching Video.

Ms Iffah Hannah Muluk (ST Head of Electrical Safety Development) gave an introduction and briefing on “Non-Domestic Electrical Installation Safety Code” during the first session.

The second session continued with Guest Speaker, Mr Tee Tone Vei (Member of SIRIM TC5 and Chairman of WG2) who spoke on the “Guideline of Design, Installation, Inspection, Testing, Operation & Maintenance of Water Heater Systems.”

The seminar and launching ended with a buffet lunch at 1:00pm.



All smiles – An ‘elegant sufficiency’ group photo of PKPPE Officials before the event!

PKPPE at PEA 54th Anniversary Dinner

The 54th Anniversary Dinner of the Perak Electrical Association (PEA) took place on Sunday 3rd September 2017 at the Sun Lee How Fook Restaurant in Ipoh, Perak. PKPPE Committee Members attended the event which was led by Mr Chong Soon Yean (PKPPE President).

PEA also presented Academic Awards to all PEA members' children who had successfully achieved excellent results in their academic studies. The Education Fund was sponsored by PEA President, Mr Chan Kaim Sam, in order to encourage their children to continue working hard and smart in order to obtain excellent academic results. The night continued with a Cake-Cutting Ceremony and an entertainment event. The noble objective of the Dinner was no doubt achieved with goodwill and friendship networking among the Perak members.



For the album – PEA's 54th Anniversary Dinner

PERDA 47th Anniversary Dinner

PKPPE was invited to an Anniversary Dinner organised by the Perak Electrical & Radio Dealer's Association (PERDA) at the Elite Grand Ballroom (Unique Seafood Ipoh) on 9th September 2017. PKPPE President, Mr Choong Soon Yean, led a 10-member delegation to attend the Dinner. Besides PERDA members, suppliers and agents were also invited and supportively gathered at the Dinner to celebrate the auspicious occasion. A total donation of RM71,000.00 was given away to seventeen charity organisations and schools.

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Great support – Group photo of the PKPPE Committee.

The Dinner started with a Lantern Lights Ceremony followed by inviting the VVIP to the stage for the Drum Performance Ceremony. Highlights of the night included PKPPE's Magazine Soft Launch, PCS Welfare Donation Distribution and Souvenir presentation to the VIP Sponsors. The Dinner ended with toasting and a Cake-cutting Ceremony.

PKPPE 16th Anniversary Dinner & Special Magazine Launch

On 16th September 2017, PKPPE held its 16th Anniversary Dinner at the Elite Grand Ballroom, Unique Seafood in Ipoh. The Dinner proved to be a great occasion and had a very good turn out with approximately 1,000 people in attendance. The PKPPE Advisor, Founder, Honorary Presidents, Directors, Members, Sponsors and Business Professionals all graced the auspicious Dinner.

PKPPE President, Mr Choong Soon Yean, said during his speech that as skilled Electrical Technicians, one must strictly abide by the operational guidelines and must not violate the relevant Electricity Acts and Regulations. He also reminded all the skilled Electrical Technicians that they should always emphasise the importance of safety to the public as this can help establish a good example for the industry's stellar reputation.



Congratulations! – Cake-Cutting Ceremony for PKPPE's 16th Birthday

PKPPE thanked all the Dinner's generous Sponsors, namely, Mega Kabel Sdn Bhd (Director Sponsor – RM30,000.00), Lelco Manufacturing (Supervisor Sponsor – RM20,000.00), Terasaki Electric (M) Sdn Bhd (Chargeman Sponsor – RM15,000.00), Ace-Tech Systems Sdn Bhd, Alpha Automation (Selangor) Sdn Bhd, Ban Guan Lee Hardware Electric Sdn Bhd, Mikro MSC Berhad & Surelite Electrical Co Sdn Bhd (Wireman Sponsor – RM10,000.00) and Maxguard Switchgear Sdn Bhd (Apprentice Sponsor – RM5,000.00). The night's agenda included a Gong-beating Ceremony for the Launching of PKPPE's Special Magazine for this 16th Anniversary Celebration. The PKPPE Magazine aimed to record all the important

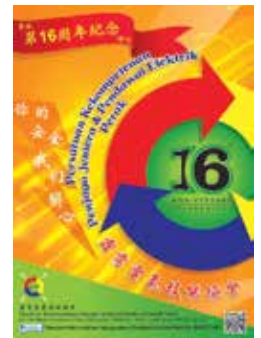


Caring Association – Fund donation to those in need.

details pertaining to the Association's illustrious journey entailing 16 good and fruitful years, and to also let the new generation, members and the general public to better understand more in-depth coverage regarding the Association's activities.

During the celebration, a total of RM10,000.00 was donated to Pertubuhan Mempertinggi Akhlak Chan Meng Khor (Chan Meng Khor Moral Uplifting Association) and Yayasan Dialysis Pendidikan Akhlak Perak (The Perak Moral Education Dialysis Foundation).

The Dinner was joyously rounded-off with entertainment coming from the live band 'The Musix', who performed some all-time heart-appealing favorite soft and nice songs, which successfully tuned and turned the Dinner into a joyful, upbeat and memorable night for all. Many guests stayed to continue the celebrative night, to network and also to enjoy themselves. It was indeed a very successful dinner and enjoyable evening. Well done!



PKPPE's Special Magazine – Commemorating its 16th Anniversary Celebrations



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E-mail: sea.kchsarawak@gmail.com

Asia Power Week 2017

Chairman of the Sarawak Electrical Association (SEA), Dato' Sri Ir Peter Lu, visited the Asia Power Week 2017 Conference & Exhibition which was held in BITEC Bangkok from 19th to 21st September 2017. The event was organised by Pennwell. Asia Power Week has, over its illustrious 25-year history, established itself as a leading platform where the power industry comes together to share information on the challenges facing the industry and discuss opportunities plus solutions for advancing Asia's power generation sector.

Participants benefitted from the 3-day packed event with technical tours included, with more than 50 Conference Sessions, Panel Discussions, a comprehensive exhibition and multiple networking events.



Fruitful visit – (from left) Dr Jye Lu (Director of Powerpoint Electrical), Dato' Sri Ir Peter Lu (SEA Chairman) and Ir Chang Yew Cheong (TEEAM Vice President).

Other State Association Members' contacts:



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- 4 - Horizontal Cross
- 5 - Vertical Reducer
- 6 - Vertical Tee
- 7 - Vertical Cross
- 8 - Left-Angled Reducer
- 9 - Right-Angled Reducer
- 10 - Straight Reducer
- 11 - Reducer Tee
- 12 - Straight Tee
- 13 - Vertical Tee
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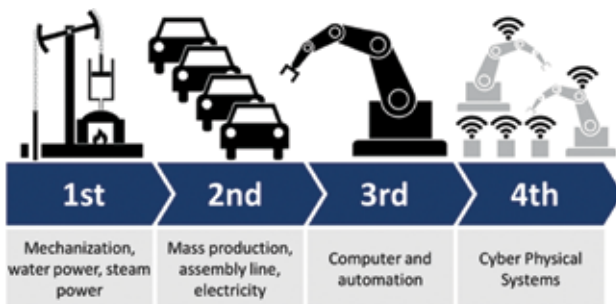
Industry 4.0

Industry 4.0 has become a hot topic now. This year, our Malaysian Government had successfully organised many seminars and workshops related to Industry 4.0. What is Industry 4.0 then?

Industry 4.0 refers to the 4th Industrial Revolution. Recall the history about the industrial revolution: the 1st Industrial Revolution happened in 1782, where the transition from hand production method to mechanisation, by using water power or steam power, was undertaken and successfully implemented. Back then, the textile industry was the first to use the modern production method. The 2nd Industrial Revolution, also known as the Technological Revolution, occurred around the year 1913. This saw the advancement in manufacturing and production technologies which enabled mass production through the assembly line method. Most of the equipment back then used electricity power to drive the operations.

With the invention of the semi-conductor and automation products, such as the Programmable Logic Controller (PLC) around the 60's, and with the development of the micro-controller and computer technologies, the production lines became less dependent on humans, and the lines can be operated automatically. With the help of robotics, productivity thus increased because the automation was able to run non-stop, that is, 24 hours every day. This then was the 3rd Industrial Revolution (Computer and Automation).

Development of Telecommunications and Internet Technology have now led to the emergence and development of the Industrial 4.0 (Revolution). It was initiated by the German Government in projects involving high tech strategies, in October of 2012. Industry 4.0 has been called "Smart Factory" where the cyber-physical systems monitor the physical processes, create a virtual copy of the physical world and make decentralised decisions.

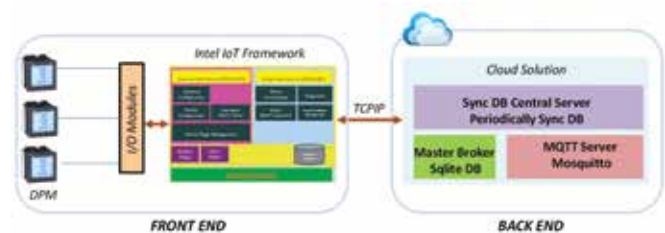


In Malaysia, the Government has identified nine inter-related pillars of this Industrial Revolution 4.0. They include Autonomous Robots, Simulation, System Integration, Internet of Things (IoT), Cyber Security, Cloud Computing, Additive Manufacturing, Augmented Reality and Big Data. However, a survey by manufacturers found out that only 30% of them are aware of Industry 4.0. (Source: UNIDO Industry 4.0, Opportunities and Challenges of the New Industrial Revolution for Developing Countries and Economies in Transition). The main concern for the manufacturer is that of funding. We tend to think that the implementation of the technology is rigid and costs hundreds of millions of dollars. However, it can be moved toward a small scale system, where the connected system can respond to dynamic changes of the requirements including the required skills to bridge the gap between engineering and computing, sensors and machines.

How does Industry 4.0 affect the construction industry? This is done by extending the technology towards the concept of smart building, smart grid and smart metering, and by making use of Internet of Things (IoT), Big Data, Cloud Computing and Cyber Security technologies to achieve the desired objectives. Typical examples involve applying those technologies for the construction and industrial sectors, which include Smart Metering. All meters at each MSB of the building can be interfaced to the IoT gateway, where the energy consumption reports to the Cloud Server at a regular interval through the MQTT broker. The MQTT broker is actually an ISO-Standard publisher subscriber-based "lightweight" message protocol for use on top of the TCP/IP protocol. The MQTT broker enables a large sensor network to be connected to the cloud due to the small code footprint and it is suitable for networks with limited bandwidths.



Ir Chang Yew Cheong
changyewcheong@gmail.com



Typical System Architecture for a Smart Metering System

The energy information is received by the Cloud Server (Backend Server) as Big Data. It needs to be further processed and analysed, with the use of predictive analytics, user behavior analytics or other advanced data analytics methods that extract valuable information from the data.

Important information extracted include the building load profiles, annual usage patterns, prediction of energy savings compared to the building baseline energy, and others. With these timely information at hand, the owner will be better able to estimate the energy load factor for their future expansionary plans.

Other than Smart Metering, the Industry 4.0 technology can be utilized in the construction industry, with CIDB having promoted BIM (Building Information Modelling) since 2012. Industry 4.0 will transform the construction industry towards achieving the objective of producing more digitally developed industries. By accessing the perfect realistic data during all phases of the life cycle from design through to construction and maintenance, time and cost efficiencies can be set up and error can be significantly reduced. By implementing BIM at the preliminary stage of the project, the advantages of using digital data can more readily be achieved.

Safety Code and Water Heater Guidelines

On 24th August, 2017, the Suruhanjaya Tenaga (Energy Commission) launched two newly-published Code and Guideline called the "Non-Domestic Electrical Installation Safety Code" and "Guideline for the Design, Installation, Inspection, Testing, Operation & Maintenance of Water Heater Systems". A seminar was held in conjunction with



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2145 0590
Fax: 603-2145 6799

Branch: No. 34 Jalan 20/16A
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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 : ACCCIM Bulletin, April & June 2017 Publisher : The Associated Chinese Chambers of Commerce and Industry of Malaysia	Title : EUMCCI Review, Vol 5/ No. 1/2017 Publisher : EU-Malaysia Chamber of Commerce and Industry	Title : Malaysia-China Business Magazine, No. 60 (July-September 2017) Publisher : Malaysia-China Chamber of Commerce
Title : Annual Report 2015 & 2016 Publisher : State Government of Selangor, Malaysia	Title : Guideline for the Design, Installation, Inspection, Testing, Operation and Maintenance of Water Heater Systems Publisher : Energy Commission	Title : Malaysia Source Book for Architects & Designers 2016/2017 Publisher : Marshall Cavendish Business Information
Title : Berita KLSCCCI, April-June 2017 Publisher : Chinese Chamber of Commerce & Industry of Kuala Lumpur & Selangor	Title : Heights, Volume 1, 2017 Publisher : Construction Industry Development Board Malaysia	Title : Master Builders Journal, Vol 2/2017 Publisher : Master Builders Association Malaysia
Title : Berita MFPA, March 2017 Publisher : Malaysian Fire Protection Association	Title : HKECA Newsletter, May-August 2017 Publisher : Hong Kong Electrical Contractors' Association	Title : MGCC Perspectives, No. 3/2017 Publisher : Malaysian-German Chamber of Commerce and Industry
Title : Building Energy Efficiency Technical Guideline for Active Design Publisher : Building Sector Energy Efficiency Project, Malaysia	Title : Industrial Automation Asia, June/July 2017 Publisher : Eastern Trade Media Pte Ltd	Title : Non-Domestic Electrical Installation Safety Code Publisher : Energy Commission
Title : Business Action @ FMM, April-June 2017 Publisher : Federation of Malaysia Manufacturers	Title : JEMA, August 2017 Publisher : The Japan Electrical Manufacturers' Association	Title : PAC World, June & September 2017 Publisher : Protection, Automation & Control World
Title : Environmental Scan 2016 : Human Capital Issues within the Machinery/Equipment and Advanced Engineering Sector Publisher : Institute of Labour Market Information & Analysis	Title : Jurutera, May, July & September 2017 Publisher : The Institution of Engineers, Malaysia	Title : The Ingenieur, Vol. 70 (April-June 2017) Publisher : Lembaga Jurutera Malaysia
		Title : Trademart, Volume 2/2017 Publisher : Malaysia External Trade Development Corporation



..... Continue TEEAM Specialised Group – Engineering Construction & Services

the launch of the Code and Guideline. The objective of the seminar was to create awareness among industry players and stakeholders regarding the two new publications. During the seminar, ST's Director of Electrical Safety Regulation Department, Mr Mohd Elmi Anas,



ST officially launched its Code and Guideline

highlighted that ST had investigated a total of 889 cases of electrical accidents during the past 15 years of which 448 cases, approximately 50%, were identified as fatal (that is, resulting in death)! For this year alone, a whopping 34 cases of electrical accidents were reported and if this figure is annualised, this indicates an increasing trend of 7.4% compared to last year.

TEEAM Members can download the Code and Guideline from the following link:

Non-Domestic Electrical Installation Safety Code: <http://www.st.gov.my/index.php/en/all-publications/item/763-non-domestic-electrical-installation-safety-code>

Guideline for the Design, Installation, Inspection, Testing, Operation & Maintenance of Water Heater Systems: <http://www.st.gov.my/index.php/en/downloads/category/142-guidelines-electrical-safety?download=646:guideline-for-the-design-installation-inspection-testing-operation-and-maintenance-of-water-heater-systems>



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