AFEEC/FAPECA Conference & Meeting in Singapore

ingapore Electrical Contractors and Licensed Electrical Workers Association (SECA) took pride in hosting the 2016 Conference and Meeting of the ASEAN Federation of Electrical Engineering Contractors (AFEEC) and the Federation of Asian Pacific Electrical Contractors Associations (FAPECA). The grand event was held from 28th & 30th September 2016 at Marina Bay Sands, Singapore. This Rotational Annual Conference was held this year in conjunction with the 40th Anniversary Celebrations of SECA to jubilate their milestones and successes over the past 40 years.

The Conference and Meeting drew participation from National Associations including the Association of Indonesia Electrical and Mechanical Contractors (AKLI), Korea Electrical Contractors Association (KECA), Society of Philippines Electrical Contractors & Suppliers (SPECS), Taiwan Electrical Contractors Association (TECA), Hong Kong Electrical Contractors Association (HKECA), Thai Electrical & Mechanical Contractors Association (TEMCA), SECA Singapore and TEEAM Malaysia.

The Conference theme was SMART – Sustainability, Maintainable, Alternative and Renewal Technologies where member countries presented Papers on Green Technologies and Innovative as well as Sustainable Energy Practices. TEEAM's Paper on Sustainability and Connectivity of the Lighting Industry was presented by Dr Tan Ching Seong, Honorary Secretary of TEEAM.

The International Facility Management Expo (IFAME) 2016 was held alongside the Conference hence allowing Delegates to also visit the Expo which showcased Access Security & Control, Asbestos Removal, Asset Tracking, Audio-Visual Equipment, Building Maintenance and Building Management Systems.

The 54th AFEEC Council Meeting and 30th FAPECA Executive Board Meeting were convened smoothly. It was also an excellent avenue for networking and exploring business opportunities. The



Opening Ceremony – VIPs on stage to officiate the Opening Ceremony.

Meeting witnessed the official hand-over of the AFEEC Presidency from AKLI Indonesia to TEEAM Malaysia. Ir Chew Shee Fuee KMN, TEEAM President now helms the AFEEC Presidency.

The grand event also witnessed the presentation of AFEEC Best Electrical Contractors Awards for 2016. The prestigious Winners from Malaysia are:

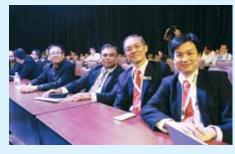
- Bond M & E Sdn Bhd Winner of Industrial Category
- Dexon Electrical Engineering Sdn Bhd Winner of Residential Category
- SJEE Engineering Sdn Bhd Winner of Commercial Category
- Sunway Engineering Sdn Bhd Winner of Infrastructure Category

TEEAM Delegates had a wonderful trip and fully enjoyed their stay in Singapore. A big thank you to SECA for their tremendous hard work and great efforts in organising such a fantastic grand event. TEEAM is slated to host the 2017 Conference and Meeting in Malaysia.



All smiles - Posing at the end of the FAPECA meeting.

Snapshots at the Conference









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..... Continue AFEEC/FAPECA Conference & Meeting in Singapore



TEEAM's Delegates – (from left) Ms Winnie Khong (Executive Secretary), Ir Chang Yew Cheong (Vice President), Ir Chew Shee Fuee KMN (President), Mr Suresh Kumar Gorasia (International Affairs Chairman & Past President) and Dr Tan Ching Seong (Honorary Secretary).



Heads of Delegation – At the Welcome Dinner cum SECA 40th Anniversary Dinner.



Tea Break – Networking during conference break.



Bond M & E – Winner of Industrial Category - AFEEC Best Contractor Award.



SJEE Engineering – Winner of Commercial Category - AFEEC Best Contractor Award.



Sunway Engineering – Winner of Infrastructure Category - AFEEC Best Contractor Award.



Dexon Electrical Engineering – Winner of Residential Category - AFEEC Best Contractor Award.



Dr Tan Ching Seong – Presented TEEAM's Paper on "Sustainability and Connectivity of Lighting Industry".



Fellowship Spirit - Singing Auld Lang Syne at the Farewell Dinner.

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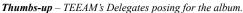






..... Continue AFEEC/FAPECA Conference & Meeting in Singapore







IFAME 2016 – At the expo ground.

Snapshots at the Welcome Dinner









Badminton Tournament 2016 Results

Men's Singles Event

Champion

Ahmad Khaizarul

Sunway Construction Sdn Bhd Trophy + AEON Cash Vouchers worth RM 500

1st Runner-Up

Tan Kian Huat

Individual Member Trophy + AEON Cash Vouchers worth RM 300

Semi-Finalist

Gallen Loh Yee Hin

Omron Electronics Sdn Bhd Trophy + AEON Cash Vouchers worth RM 200

Semi-Finalist

Tan Kim Hoong

Genuine Electric Sdn Bhd Trophy + AEON Cash Vouchers worth RM 200

Men's Doubles Event

Champion

Lee Kok Wai & Lee Kok Yew

Syarikat See Wide Letrik Sdn Bhd Trophies + AEON Cash Vouchers worth RM 700

1st Runner-Up

Mohd Sofie Hassan & Ahmad Khaizarul

Sunway Construction Sdn Bhd Trophies + AEON Cash Vouchers worth RM 500

Semi-Finalists

Yap Chun Wah & Wilson Leong Wing Lok

Schneider Electric Industries (M) Sdn Bhd Trophies + AEON Cash Vouchers worth RM 320

Semi-Finalists

Tan Kim Hoong & Cheok Keng Luen

Genuine Electric Sdn Bhd & SJEE
Engineering Sdn Bhd
Trophies + AEON Cash Vouchers
worth RM 320

Mixed Doubles

Champion

Mohd Sofie Hassan & Zaimah Abdullah

Sunway Construction Sdn Bhd Trophies + AEON Cash Vouchers worth RM 500

1st Runner-Up

Gallen Loh Yee Hin & Mandy Yong Sim Min

Omron Electronics Sdn Bhd Trophies + AEON Cash Vouchers worth RM 300

Semi-Finalists

Ea Jia Gen & Josephine Wong

Schneider Electric Industries (M) Sdn Bhd Trophies + AEON Cash Vouchers worth RM 200

Semi-Finalists

Wong Chin Peng & Teng Swee Fong

Individual Member & See Wide Letrik (Selangor) Sdn Bhd Trophies + AEON Cash Vouchers worth RM 200



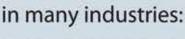


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TEEAM 70th ISSUE

Academic Excellence Awards& Book Prizes Presentation

EEAM Academic Excellence Awards were presented by TEEAM President, Ir Chew Shee Fuee KMN, to nine successful student applicants who were the children of TEEAM Members. The awards ceremony was held on 15th October 2016 at the Association's Conference Room. Gracing the auspicious occasion were Academic Excellence Awards Chairman, Mr Leong Kam Seng and other TEEAM officials

Each award comprised a certificate and cash value ranging from RM100 to RM800. The recipients were selected based on their excellent academic performance in the 2015 Government Examinations. Besides the Academic Excellence Awards, TEEAM also awarded Book Prizes to the best Electrical and Electronics Engineering undergraduates from University of Malaya (UM), Universiti Sains Malaysia (USM), Universiti Teknologi Malaysia (UTM), Universiti Tunku Abdul Rahman (UTAR), Universiti Kebangsaan Malaysia (UKM), Universiti Putra Malaysia (UPM), Universiti Malaysia Sabah (UMS) and Universiti Malaysia Sarawak (UNIMAS). There were in total twenty-one Book Prizes recipients for this year. The Book Prizes are aimed at rewarding high achievers in recognition of their valiant study efforts.

It was certainly a proud day for every recipient and their parents too. The Awards Presentation concluded with a group phototaking session and tea reception thereafter. The list of awards recipients appears on page 41.



Congratulations – Happy recipients posing with TEEAM officials. Seated from left: Mr Ho Khai Hong (Council Member), Ir Chew Shee Fuee KMN (President), Mr Leong Kam Seng (Academic Excellence Awards Chairman) and Mr Simon Leong (Council Member).



University Book Prizes recipients – Best Electrical & Electronics Engineering undergraduates.



SPM recipient – (right) Ng Hui Yee receiving an award from Ir Chew Shee Fuee KMN (TEEAM President). With them is Mr Leong Kam Seng (TEEAM Academic Excellence Awards Chairman).



UPSR recipient – Chong Xiaoien receiving an award from Ir Chew Shee Fuee KMN (TEEAM President). Looking on is Mr Leong Kam Seng (TEEAM Academic Excellence Awards Chairman).



Proud day indeed – SPM recipient, Choong Xin Yun posing with her elated parents, Datuk and Datin Choong Yew Lim.



Happy moment for all – Book Prize recipient, Tan Mui Yen posing with her excited siblings.



Well done A-Team! – A-Level recipient, Chew Li Yen happily posing with her proud father and sister.



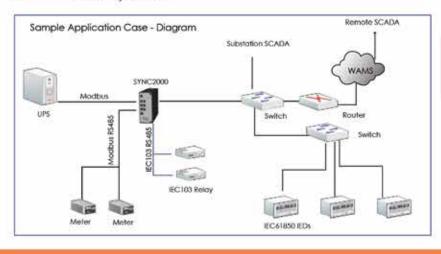
Excellent job! – UPSR recipient, Aryssa Goh with her overjoyed parents.



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- SMS Gateway

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Recipients of Academic Excellence Awards & Book Prizes 2016

UPSR (RM 100.00)

Ng Zi Sheng

(Kejuruteraan Wangemas (M) Sdn Bhd) Results : 7As in BM Pemahaman, BM

Penulisan, BC Pemahaman, BC Penulisan, E, M & S

Age : 13 Years

Ambition : Electrical Engineer Interest / Hobby : Badminton



(Kitlite Letrik Sdn Bhd)

Results : 7As in BC Pemahaman, BC Penulisan,

BM Pemahaman, BM Penulisan, E,

M & S

Age : 13 Years Ambition : Doctor

Interest / Hobby: Swimming & Drawing

Aryssa Goh May Lynn

(Time Era Sdn Bhd)

Results : 5As in BM Pemahaman, BM Penulisan,

E, M, & S Age : 13 Years Ambition : Scientist

Interest / Hobby: Reading, Dancing & Skating

Note: BM – Bahasa Malaysia

BC – Bahasa Cina

E, M, S-English, Mathematics & Science

SPM (RM 450.00)

Teoh Zhi Lun

(The Perak Electrical Association)

Results : 6A+, 2A, 2A-Age : 18 Years Interest / Hobby : Reading



SPM (RM 400.00)

Ng Hui Yee

(Kejuruteraan Wangemas (M) Sdn Bhd)

Results: 5A+, 4A, 1A-Age: 18 Years
Ambition: Pharmacist

Interest / Hobby: Travelling, Reading & Jogging



SPM (RM 350.00)

Choong Xin Yun

(Syarikat Letrik Chen Guan Sdn Bhd)

Results : 2A+, 7A, 1A-, 1B+

Age : 18 Years

Ambition: Software Engineer

Interest / Hobby : Drawing, Reading & Surfing

Internet



A-Level (RM 800.00)

Mah Chee Hoong

(See Kwong Electric Co Sdn Bhd)

Results : 3A*(a*) Age : 20 Years

Ambition : Electrical Engineer Interest / Hobby : Badminton



A-Level (RM 750.00)

Ho Wen Wen

(City-Lite Letrik Sdn Bhd)
Results : 2A*, 1A, 1B
Age : 20 Years
Ambition : Businesswoman
Interest / Hobby : Swimming



A-Level (RM 700.00)

Chew Li Yen

(Svarikat Letrik Chen Guan Sdn Bhd)

Results: 1A*, 2A, 1B Age: 20 Years Ambition: Dentist

Interest / Hobby : Reading & Squash



Book Prize 2016 (RM 200.00)

Universiti Kebangsaan Malaysia (UKM)

Electrical and Electronics Engineering Tan Shao Yu – 2nd year (2015/2016) Yap Sher Vee – 2nd year (2015/2016) Pua Hong Long – 3rd year (2015/2016)

University of Malaya (UM)

Electrical and Electronics Engineering
Jason Cheng Qi Quan – 2nd year (2015/2016)
Alex Tay Wee Keong – 3rd year (2015/2016)

Universiti Malaysia Sabah (UMS)

Electrical and Electronics Engineering Tang Nyiak Tien – 2nd year (2015/2016) Eng Soo Yew – 3rd year (2015/2016)

Universiti Malaysia Sarawak (UNIMAS)

Electrical and Electronics Engineering
Jordana Rebekah Chung – 2nd year (2015/2016)
Chua Ten Hou – 3rd year (2015/2016)

Universiti Putra Malaysia (UPM)

Electrical and Electronic Engineering Voon Yong Jian – 2nd year (2015/2016) Tan Mui Yen – 3rd year (2015/2016)

Universiti Sains Malaysia (USM)

Electrical Engineering

Sim Kai Sheng – 2nd year (2015/2016) Chan Hao Jie – 3rd year (2015/2016)

Electronics Engineering

Chin Wei Chun – 2nd year (2015/2016) Lew Yit Shien – 3rd year (2015/2016)

Universiti Teknologi Malaysia (UTM)

Electrical Engineering

Norhafezaidi Bin Mat Saman – 2nd year (2015/2016)

Lee Chee Fan – 3rd year (2015/2016)

Electronics Engineering

Wong Chun Hou – 2nd year (2015/2016) Amirul Hazeim Bin Faizul – 3rd year (2015/2016)

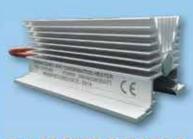
Universiti Tunku Abdul Rahman (UTAR)

Electrical & Electronics Engineering Liew Yao Qin – 2nd year (2015/2016) Ang Wei Jieh – 3rd year (2015/2016)



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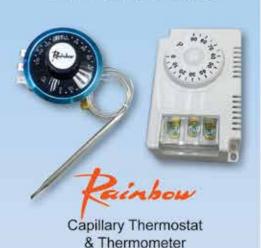
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Thailand Lighting Fair 2016

he Thailand Lighting Fair (TLF) 2016 was held from 1st to 3rd September 2016 at BITEC Bangkok. The event was organised by The Exhibiz Co Ltd and powered by Messe Frankfurt. Hosted by the Provincial Electricity Authority, Thailand, this event received strong support from the Ministry of Energy, Thailand and the Thailand Convention & Exhibition Bureau (TCEB). The Thai Government places great emphasis on promoting and supporting energy-efficient products resulting in turning Thailand into a great market potential. Thailand's lighting industry is expected to grow firmly and by 2020 the country's LED market is said to have reached USD 2.44 billion.

Renowned as ASEAN's leading trade fair on Lighting Technology, Design and Solution, TLF 2016 attracted over 350 leading lighting companies from around the globe, taking over 10,000 sqm of exhibition space to display their latest innovations and technologies.

Members of TEEAM had the privilege of participating as VIP Buyers under the TCEB programme. Besides having business meetings with the exhibitors, TEEAM members also attended seminars and workshops on solar energy and lighting topics. It was indeed a very fruitful trip for all. See you at TLF 2017!

Thailand Lighting Fair 2016

















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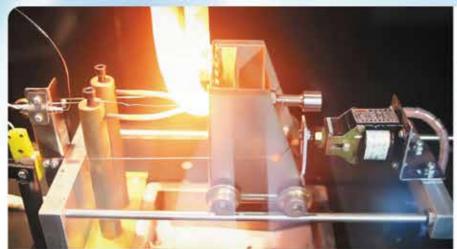
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Electro-Technical Symposium & Exhibition 2016

he Institution of Engineers, Malaysia (IEM) and Standards Malaysia co-organised an Electro-Technical Symposium & Exhibition 2016 on 5th & 6th December 2016 at One City Grand Ballroom, Subang Jaya. Themed "Standards Drive Globalisation", the symposium aimed to generate awareness among the electrical engineering fraternities on the usage of relevant electrotechnical standards and the importance of standards compliance as part of the regulations in our country.

YB Datuk Wira Dr Abu Bakar Mohamad Diah, Deputy Minister of Science, Technology & Innovation Malaysia, officiated the opening of the symposium. Industry experts, professionals, utility providers and regulators spoke on various topics related to standardisation and the safety of electrical installations, consumer products, including the oil and gas industry.

TEEAM together with other partnering organisations supported the symposium. The main sponsorship was noted from Mun Hean (M), HVTL Test Lab, Ablecon Power System, Bureau Veritals (M), TNB-ILSAS and Standards Malaysia. An exhibition was held alongside

the symposium which saw 24 booths taken up to showcase related products and services.

The symposium exhibition were important and meaningful event which brought together the standards committee, government sectors, industry associations, academic institutions, industry players and professionals. It contributed to a better



Ir Chew Shee Fuee KMN – TEEAM President delivering a keynote address at the symposium.

understanding of standardisation changes and challenges which are being faced today, as well as the role and responsibility of all stakeholders. The event successfully drew a crowd of some 500 participants.



VVIP's Visit – YB Datuk Wira Dr Abu Bakar Mohamad Diah (Deputy Minister of Science, Technology & Innovation, Malaysia) visiting TEEAM's booth.



For the album – (fifth from left) Dr Junji Nomura (IEC President) networking with TEEAM officials.



Overwhelming – A cross section of the participants.















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..... Continue Electro-Technical Symposium & Exhibition 2016

TEEAM Members Exhibiting at the Symposium



























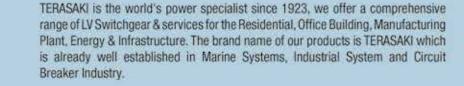
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We in TEEAM care for our members' interests! One of the benefits for our members is that the TEEAM Secretariat had obtained discounts on room rates from hotels. Whether you are on a business trip, family holiday or organising a seminar, TEEAM will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

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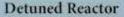


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Self-Test RCCB Nationwide Safety Campaign

here was yet another sad news which was reported on 28th November 2016, that a 43-year-old woman was electrocuted while ironing her clothes at her home in Petaling Jaya. The case is being investigated and there is a possibility that the woman was killed after being electrocuted. Probably, the home RCCB (Residual Current Circuit-Breaker) was not functioning properly at that time.

TEEAM continues to pro-actively raise awareness among the general public on the need for regular self-testing of RCCBs. Since 2014, nineteen nationwide TEEAM Safety Awareness Roadshows have been conducted in shopping malls, campuses and also in residential areas. TEEAM will continue efforts to pro-actively promote and spread the message regarding electrical safety, to the general public.

Alongside a series of activities undertaken by The Power & Energy Society, Malaysia Chapter of the Institute of Electrical and Electronics Engineers (IEEE PES), TEEAM was invited by the Faculty of Engineering, Universiti Putra Malaysia, to support the 'Transfer Renewable Energy & Electrical Safety Workshop'' on 27th October 2016. TEEAM promoted RCCB Self-Testing Safety during the Workshop. There were about 80 secondary school students from Form One to Form Three and University students too attended the event.

As one of the leading supporting organisations, TEEAM participated

in the Institution of Engineers, Malaysia (IEM) Electrotechnical Symposium and Exhibition, which was successfully held on 5th & 6th December 2016, at the One City Grand Ballroom, Subang Jaya. TEEAM took the opportunity to promote the Self-Test RCCB Safety Campaign to the



TV Channel Coverage – (left) Ir Chew Shee Fuee KMN being interviewed by NTV 7 on Water Heater Safety on 18th November 2016.

audience, at a designated booth through the use of a demo RCCB unit

Please do not hesitate to visit our campaign website http://testrccb.my to learn more on how to perform a Self-Test on RCCBs. It can save your life and/or the lives of your loved ones!



Roadshow during the IEM Symposium – (centre) Deputy Minister of Science, Technology & Innovation, YB Datuk Wira Dr Abu Bakar Mohamad Diah, paid a visit to the TEEAM Booth at the Exhibition. (2nd from right) is Datuk Ir Ahmad Fauzi Hasan (CEO of Energy Commission).



Safety awareness in UPM – Students being briefed on home electrical safety.

Roadshow in One City, Subang Jaya











Splash Proof Water Heater Connector

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FOR WATER HEATER EXCEEDING 3.0KW





ASSOCIATION - PROFIT PR					
Description	Splash Proof Water Heater Connector				
Model	WHC-1				
Rated Voltage	250 V A.C.~				
Rated Ampere	25 A				
Rated Power	5.5 kW				
Water Ingress Protection	IP25.				
Tested and comply to	IEC 60998-1 & IEC 60670-22 Ed. 1.1 b: 2015.				
Material	Fire-retardant Thermoplastic : Polycarbonate (PC)				
Wire length Wire Type	Recommended 1.0 Meter length. (Provided in this product). Recommended 4.0mm ² wire / 3 core cable (SIRIM Approved)				

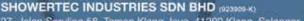
- The whole idea of this splash proof junction box is to prevent installer from using 13A / 15A type of plug and socket & sub-standard terminal block in running the high current water heater which consumes more than 16Amp. It provides good electrical contact in the junction box, and also proper anchorage to the cable connection (permanently connected, instead of quick connect by using socket & plug).
- at the back of the socket cover and it is 850°C glow wire test compliant to IEC 60998 IEC 60670-22 & Water Ingress Protection Rating of IP25.
- the bottom of the cover are to be fitted with a cable gland PG-11. Our design caters for both 2.5mm2 and 4.0mm2 for the gland. It is not required to change the gasket inside the cable gland to secure these 2 types of cables.
- The product is made by fire retardant plastic. and it is IP25 rated.





A safer way of electrical connection for Household Water Heater





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Appropriate Circuit for Water Heater Installation

By Ms Chaw Huey Yen & Mr Tee Tone Vei, Thermo Hygro Consultants Sdn Bhd

Introduction

In recent years, there have been a number of fatal accidents that have occurred in this country. They involved residential water heaters. The causes of those fatal accidents have been identified to be due to electrical-related problems. In this regard, Suruhanjaya Tenaga (Energy Commission) has pro-actively formed a working group with professional bodies and the water heater industry, to work on the guidelines of new safety regulations covering water heater installations.

This article aims to explain and elaborate on the safety requirements of the electrical circuit for water heater installation, including the specifications of electrical items such as cable size, Miniature Circuit Breaker (MCB), isolator and switches sizing. It serves as a guide for the appropriate water heater installation procedure which is required for both commercial and residential applications.

Installation Circuitry

First of all, let us start with the water heater installation circuitry. It is important to differentiate the color code of the cables in order to avoid mixing up the live, neutral and the protective earthing connections (Refer Table 1). It is highly recommended to have maximum cable length placed at 50 meters from the final water heater circuit, to the distribution box (DB) or consumer unit.

Single Phase Supply			
Conductor	Color		
Live	Red		
Neutral	Black		
Protective Earthing	Green		

Three Phase Supply				
Conductor	Color			
Live - Red phase	Red			
Live - Yellow Phase	Yellow			
Live - Blue phase	Blue			
Neutral	Black			
Protective Earthing	Green			

Table 1: Color code of the wires or cables (MS 1979)

With reference to Figure 1 below, it illustrates the connections for a water heater cable installation from the distribution box (DB). The final incoming circuit shall be incorporated with a series of MCB-RCD protection in order to protect users from current leakage. The sensitivity of the RCD shall be equal to or less than 100mA to ensure protection against electrocution.

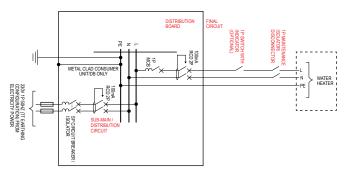


Figure 1: Wiring Connection Diagram for a Single Phase Water Heater

An additional RCD of 10mA sensitivity shall be equipped for individual water heater to provide double protection after the final incoming circuit. It serves to prevent electric leakages from the water heater and it cannot be shared with any other electrical appliances. The disconnection scheme of the MCB, RCD, Isolator/Disconnector, Switches and Protective Earthing is stated in Table 2.

Type of circuit	МСВ	RCD/ RCCB	Isolator/ Disconnector	Switches (optional)	Protective Earthing
Single phase	1-pole	2-pole	2-pole	1-pole	No break permitted
Three phase	3-pole	4-pole	4-pole	3-pole	No break permitted

Table 2: Disconnection Scheme

Furthermore, the cable sizing also plays an important role because an undersized cable may cause cable melting during usage. Table 3 shows the minimum cable sizing for water heaters. The cable from the distribution box shall be directly connected or fixed to the water heater without any plug or socket.

Water Heater Rating @ 230V	Load	MCD/RCD (minimum)	Live	Neutral	Protective Earthing
≤ 2,856W	12.4A	16A	4mm²	4mm²	4mm²
>2,856W to ≤ 3,570W	15.5A	20A	4mm²	4mm²	4mm²
>3,570W to ≤ 4,462W	19.4A	25A	4mm²	4mm²	4mm²
>4,462W to ≤ 5,711W	24.8A	32A	4mm²	4mm²	4mm²
>5,711W to ≤ 7,139W	31A	40A	6mm²	6mm²	6mm²
>7,139W to ≤ 8,924W	38.8A	50A	10mm²	10mm ²	10mm²

For ratings more than is found in the above table, the cable size shall be sized as per MS IEC 60364

Table 3: Cable Sizings for Water Heaters

RCD requirements

Throughout the whole water heater installation process, there are several requirements to connect the RCD from the main distribution box to the water heater. RCD is to be installed in two locations:

- 1. RCD between Main Distribution Box (DB) to Water Heater
- 2. In-product RCD/ELCB

RCD between Main DB to Water Heater - According to the Installation Guidelines by Suruhanjaya Tenaga, there shall be two RCDs to be pre-installed throughout the wiring between Main DB to Water Heater. Firstly, it will be the Main RCCB with maximum 100mA sensitivity to protect users against current leakage from any electrical source in the house. Secondly, a more sensitive RCD with 10mA shall be pre-installed in the single fixed cable dedicated solely to every water heater in order to protect users from any internal current leakage from the water heater. Please refer Figure 1 for connection diagram on the locations required for both RCDs.

In-product RCD/ELCB - In addition to the above, for instantaneous water heater, the product standard MS1597-2-35 which the SIRIM

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..... Continue Appropriate Circuit for Water Heater Installation

approval refers to, requires a built-in RCD (ELCB) with the sensitivity of 15mA. However, this in-product RCD is not able to protect users from any current leakage from external sources which includes household appliances such as kettle, fan, washing machine, etc.

Nevertheless, all RCDs mentioned above are fully dependent on the earthing system of the building/ residence in order to function properly. Hence it is of utmost importance to test the earthing impedance by using an earth loop impedance-tester, upon completion of the installation procedures. The installed RCDs are recommended to be tested at least once every 3 months by pressing the 'Test' button and it shall trip if the RCD functions well. Users can then press the 'Reset' button after the test to resume RCD function.

Conclusion

In conclusion, it is crucial to put emphasis on the aforesaid aspects for the installation circuitry of water heaters. The cable size and color, disconnection scheme of the MCB, RCD, Isolator/Disconnector, Switches and Protective Earthing and RCD proper sizing and locations are also equally important.

Over the past 7 years, 7 out of 8 reported electrocution cases were caused by external leakages, that is, due to lighting ballast, loose

socket point, burned wire, etc, in which the In-product RCD was unable to detect. Therefore, the Main RCD/RCCB (RCD to detect external leakage) is the most essential factor to ensure the safe use of the water heater and all other electrical appliances.

Lastly, it is advisable that all electrical connections shall be carried out by an Electrical Contractor registered with Suruhanjaya Tenaga or Wiring Contractors in compliance with the Electric Supply Act 1990 [Act 447] and the Electrical Regulatory 1994.

Ms Chaw Huey Yen is a Senior Engineer in Thermo Hygro Consultants Sdn Bhd. She works extensively on the safety standards of heating appliances for either local or international projects. She is also a Committee Member of the Working Group formed by Suruhanjaya Tenaga on Water Heater Installation Guidelines.

Mr Tee Tone Vei is the Principal Consultant in Thermo Hygro Consultants Sdn Bhd, a design consultancy firm specializing in electrical heating appliances' R&D. He is also a member of the Technical Committee and Chairman of Heating Appliance Working Group for SIRIM and Department of Standards Malaysia in Safety Household & Electrical Appliances for MS and IEC standards. Currently, he is the expert representative for IEC Malaysia.





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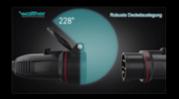
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SMDP in Germany

n Advanced Leadership Training Programme was brought to TEEAM Members aimed at enhancing SME business owners' capabilities in terms of Innovation, Productivity, Business Sustainability, Strategic Thinking and Human Resource Management. Titled "Senior Management Development Programme (SMDP) – On the Road to Industry 4.0", it was co-ordinated by MIT Academy Sdn Bhd in collaboration with the German Innovation Centre for Industry 4.0. The training programme was fully funded by the Human Resource Development Fund (HRDF) of Malaysia. Some TEEAM Members together with other Malaysian SMEs participated in the industry-based training.

The Training Programme was an intensive 6-day Course held from 4th to 9th September 2016 in Germany with Study Tours to Munich, Stuttgart and Sweden. Participants had the golden opportunity to attend interactive lectures with experts and had dialogue sessions with SME Owners and Leaders to learn and share their deep knowledge and vast expertise to establish Industry 4.0 in their companies. They explored the opportunities and challenges of Automation and Digitalisation of Businesses. Participants attended Study Tours to SAR Elektronic, Sigma Industry, BMW and IKEA.

Industry 4.0 is the current trend of automation and data exchange in manufacturing technologies. It includes Cyber-Physical Systems,



Attentive participants – Workshop in progress.

the Internet of Things (IoT) and also Cloud Computing. Industry 4.0 creates what has been called a Smart Factory.

The Training Programme was a great exposure for SME businesses, opening their eyes to a whole new manufacturing concept. It shows how Automation and Digitalisation of Products and Services can improve efficiency with the correct mindset thrown in. The factory visits illustrate the way towards the future Smart Factory concepts in Malaysia. By having references or benchmarks from the developed countries, it is believed that Malaysia can move with confidence towards Industry 4.0 Ready in the near future.



Speaker - Lecture on Industry 4.0.



Participants – Sharing a light moment.



Fruitful – Visit to BMW.



For the album - Group photo at Sigma Industry.

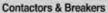




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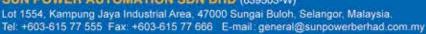


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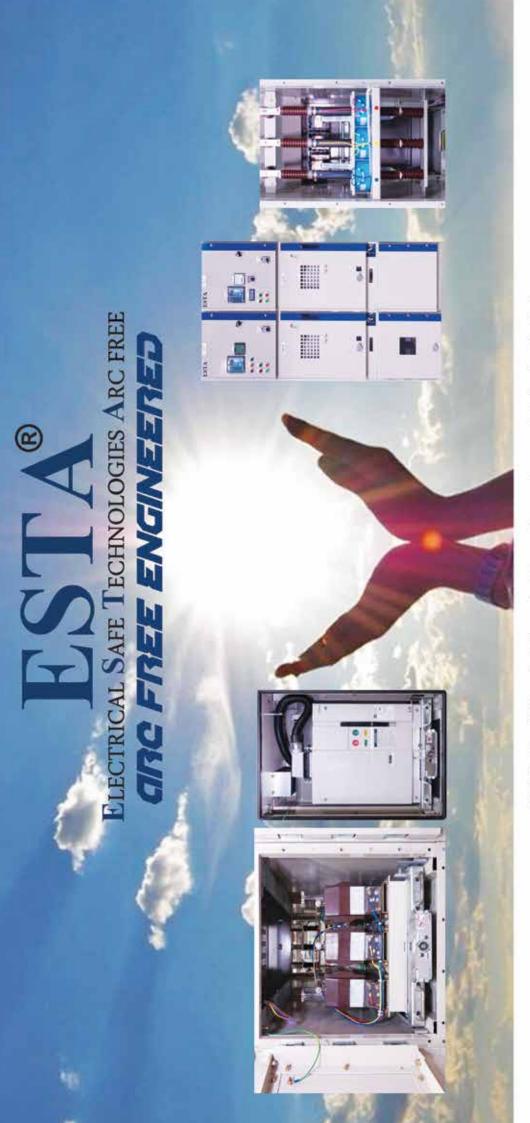


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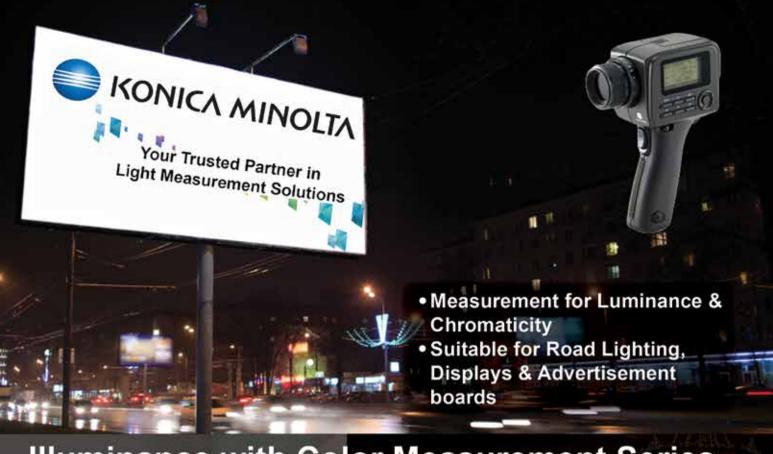
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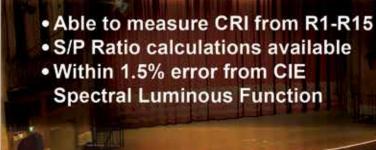
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Technical Seminar by Showertec Industries Sdn Bhd

A Technical Seminar was held on 4th August 2016 at PKPPE premises, by Mr Choo Wei Seng of Showertec Industries Sdn Bhd. Mr Choo shared a lot of useful information, explanations, and case studies on the Risks & Myths of Electrocution of Electrical Storage Water in Malaysia. He explained the root cause of electrocution was via the water heater, with the subsequent risk of electrocution there from. In addition to that, he also summarised that water heaters should only be installed by qualified electricians, and to only use water heaters approved by SIRIM and the Energy Commission (ST). He advised always to test the RCCB in the house and that the house wiring ought to be inspected every ten to fifteen years.



Full Attention! – The Speaker, Mr Choo Wei Seng, explained the Risks & Myths of Electrocution of Electrical Storage Water.

During the practical session, Mr Choo also demonstrated a simple and quick solution to prevent electrocution, that is, by installing an isolation barrier on the water heater which is able to turn the highly conductive current pathway into a "non-conductive" pathway in the event of potential electrocution.



Practical Session – Life-saving hands-on demonstration.

Code of Practice for Installation and Maintenance of Water Heaters

PKPPE is honoured to be invited by Energy Commission (ST) to be involved in the drafting of the Code of Practice for Installation and Maintenance of Water Heaters. The presentation on comments was held on 9th August 2016 and finalised on 30th August 2016. Eighteen other Work Group Members were from SIRIM, IEM, TEEAM, ACEM, Panasonic, SEERS, STIEBEL, Nu-Vale Trading, Maxvic

Sdn Bhd, Intrix Renewable Sdn Bhd, KHIND, Aerogaz Sdn Bnd, Bee Best Marketing Sdn Bhd, Joven Electric Co Sdn Bhd, United Alpha Industries Sdn Bhd, Showertec Industries Sdn Bhd, Centona Industries Sdn Bhd, and Alpha Electric Co Sdn Bhd.



Life-saving Presentation – Very useful information being shared.

The Work Group was formed by ST due to a number of fatal accidents in Malaysia, involving residential water heaters. The causes included both electrical and non-electrical in nature. Therefore, this Code of Practice involving the design, installation, inspection, testing and maintenance of water heater systems was produced with the noble view of ensuring the safe use of residential electric water heaters.



Fruitful meeting at the EC Office - Group photo for the album.

MyTNB Self Service Portal

TNB had been upgrading its newer system, BCRM (Billing and Customer Relationship Management) since 21st July

2016 with a view to replace its outmoded existing system - CIBS (Customer Information Billing System) which was set in place twenty years ago. However, the newly developed system also did receive complaints from the customers, consultants, developers and electrical contractors too. It was due to the existence certain systemic shortcomings.



Sin Chew Daily Perak – Notice to meet on myTNB Self Service Portal issues.



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On 22nd August 2016, PKPPE published in the Sin Chew Daily and Nanyang Siang Pau Perak Editions to call up all related parties to attend a crucial meeting. The meeting was aimed to gather problems, information and issues arising regarding the myTNB Self Service Portal. After compilation, PKPPE submitted and voiced out the unresolved issues to TNB Ipoh during dialogue discussions to seek for prompt solutions.



Nanyang Siang Pau Perak – Issues with myTNB Self Service Portal were given full coverage.

TEEAM's 64th Anniversary Dinner

On 27th August 2016, PKPPE President, Mr Choong Soon Yean led PKPPE Committee Members to attend TEEAM's 64th Anniversary Dinner which was held at the Majestic Hotel, Kuala Lumpur.

A photo booth and games session were the main attractions of the evening before the Dinner proper began. All delegates actively took part, had plenty of fun and were truly excited. The night was filled with laughter and whoops of excitement filled the festive air. Attendees thoroughly enjoyed the delicious and mouth-watering food,



Networking – (from left) Ir Rocky Wong (TEEAM Technical Advisor), Mr Chan Kaim Sam (PEA President) and Mr Choong Soon Yean (PKPPE President).

amazingly-brewed cocktails, enthralling live music, including heart-rending singing and vibrant dance entertainment. Awards and certificate presentations and lucky draws added more festive colours to the night of joyous celebrations after capping a fruitful year for TEEAM.



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PEA Annual Dinner 2016

PEA hosted an Annual Dinner at the Unique Seafood Restaurant, Giant Bercham on 18th September, 2016 to commemorate their 53rd Anniversary.

PKPPE President, Mr Choong Soon Yean and Committee Members attended the dinner at the invitation of PEA. All esteemed delegates gathered, sat back, relaxed and enjoyed the scrumptious dinner with full of fun, laughter, networking and having a great time the whole night long. The food served was undoubtedly delicious and yummy.



Good dinner – PKPPE Committee Members at PEA's 53rd Anniversary

Technical Seminar on The Working Principles of RCCB

On 4th October 2016, PKPPE organised a Technical Seminar at ST Ipoh on "The Working Principles of RCCB". The Seminar was officially graced by Mr Muhammad Sharul Azam Abdul Rahim (ST Regional Director, Perak). He was accompanied by ST Executive Perak, Mr Mohd Fairul Jaafar, Ms Noor Hafizah Abdul Majid, Mr Muhammad Hasonal Mustafa and Mr Mohd Nurhadi Mad Zain. From PKPPE's side were Mr Choong Soon Yean (President), Mr Khaw Yee Kuan (Honorary President), Mr Leong Kok Wah (Technical Advisor), Mr Yong Chee Choong (Deputy President), Mr Wong Seak Wai (Secretary), Mr Bryan Chong Sing Lim (Committee Member) and Mr Tan Thow Keen (Auditor). Speakers of the Seminar were Mr Tony Leong (PKPPE Committee) and Mr Chew Kam Hoong (PKPPE Treasurer). The Seminar was conducted in two sessions, namely, Theory and Practical.



Theory Session – Interesting presentation given by Mr Tony Leong (PKPPE Committee Member).

The Theory Session was presented by Mr Tony Leong (PKPPE Committee Member) and the timely topics included:

- Electric Shock
- Effects of different values of Electric Current flowing through the human body
- · Types or Modes of RCCBs
- RCD Technology Voltage Independent (VI) & Voltage Dependent (VD)



Highly Informative – Practical Session by Mr Chew Kam Hoong (PKPPE Transurer)

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The Practical Session was conducted by Mr Chew Kam Hoong (PKPPE Treasurer) on topics which included:

- Test Button Trip Test
- Tripping Time Characteristics
- Voltage Independent (VI) & Voltage Dependent (VD) Test

At the end of the seminar, Mr Muhammad Sharul Azam of ST concluded that the seminar was very interesting and beneficial. He also suggested some improvements and advised that additional information be included for future editions of this important seminar.

Visit to Institusi Latihan Perindustrian (ILP), Ipoh

On 8th October 2016, a short visit was organised by PKPPE to ILP in Ipoh. The visit was led by PKPPE President, Mr Choong Soon Yean, accompanied by other Committee Members. The purpose of the visit



ILP Course – Part-time students in their Practical Training Session.

was mainly to focus on the PW2 and PW4 Part-Time Wireman Course. The objective was also to gather further information regarding the Course with a view to share the information with the public.

ILP also extended a chance to visit the classroom and hands-on practical exam room. Lastly, PKPPE was also given an opportunity to communicate and discuss with the lecturers and the students.



One for the album – Group photo with the lecturers and students.

IEM Perak Branch Annual Dinner

On 8th October 2016, IEM Perak Branch organised its Annual Dinner at Sunway Lost World Water Park, Sunway City, Ipoh. The dinner which was held beside the Sandy Bay turned out to be a perfect place to enjoy the picturesque view whilst savouring the delicacies and servings for dinner.

The dinner started after the welcome speech by IEM Perak Branch Chairman, Ir Lau Win Sang. During the Annual Dinner, a very talented group of singers and dancers performed exceptionally well and it was truly an amazing presentation. The bright and spritely performers staged a variety of dances moves everything from tap, modern, jazz and much more. Everyone was so excited and promptly

responded by wearing the dinner dress code, namely, beach or casual wear. Lucky draw prizes were also very attractive and everyone was waiting for their number to be called out for the grand prize. It was a highly enjoyable dinner. The dinner wrapped up at around 10.00 pm and everyone enjoyed the night beyond a shadow of a doubt.



Lucky winner – (right) Ir Lau Win Sang (IEM Perak Chairman) presenting a prize to Mr Wong Seak Wai (PKPPE Secretary).

Two-Day Course Organised By IEM Perak

A two-day Course covering different topics, namely, Lightning Protection MS IEC 62305 was held on 31st October 2016 and ATS MS IEC 60947-6-1 & Power Capacitors IEC 60831 was held on 1st November 2016 at IEM Perak Branch. PKPPE was the Supporting Organisation. Therefore, PKPPE Committees and Members also attended the 2-Day Course.

The Course Speakers were Mr S F Ng and Mr Ritesh Lutchman from Wisepro Sdn Bhd. Both the qualified Speakers have great experience in the design, installation, troubleshooting and site works for the related industries.

The first day course emphasised on MS IEC 62305 Part 1 to Part 4 - Protection Against Lightning. The Speakers also explained the Definition of Lightning Current and Surge Voltage Comparison of

10/350μs and 8/20μs Energy, Definition of Lightning Zones Equipotential Bonding, Risk Components and Tolerable Risks Bases Risk Calculation, Definition of Lightning Protection Levels I, II, III and V and many others.



Demo – Speaker, Mr S F Ng explained on the ATS Technology.

The second day course touched on the Standards Governing ATS and ATS Controller Transfer Switch Technologies, Utilisation Category, Standards Governing Power Capacitors, Destruction Test and many more.

A lot of questions were raised by the eager participants and PKPPE Members indeed gained a lot of useful and practical information from the highly value-packed 2-day course.

TNB Dialogue on myTNB Self Service Portal

A dialogue with TNB Distribution was held on 10th November 2016 at Wisma TNB Petaling Jaya, Selangor. TEEAM invited PKPPE to join the TNB Dialogue. Mr Nick Liew Kar Hoe (PKPPE Vice-Secretary) and Mr Stanley Wong Chen Yu (PKPPE Committee Member) attended the Dialogue.



TNB Dialogue in full swing – Important issues being discussed at Wisma TNB.

Issues discussed during the dialogue session were:

- a) myTNB Self Service Portal Overview
- b) Supply Application Process Flow (<100kVA)
- c) Supply Application Process Flow (>100kVA)
- d) Engagement Activities
- e) Issues from TEEAM and TNB
- f) TNB Challenges on Supply Application via myTNB SSP

In conclusion, some issues and doubts were solved but some outstanding issues needed to be further reviewed and re-assessed. The fruitful dialogue ended with a sumptuous lunch hosted by TNB.





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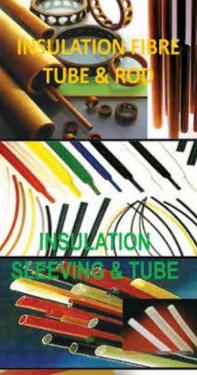
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The Perak Electrical Association

No. 12-A, Jalan Datuk Mahmud, 31650 Ipoh, Perak Darul Ridzuan. Tel: +605 - 254 1502 Fax: +605 - 250 9145 E-mail: multipower99@gmail.com/peaipoh@gmail.com/

PEA's 53rd Anniversary Dinner

The Perak Electrical Association (PEA) celebrated its 53rd Anniversary on 18th September 2016 at Restaurant Unique Seafood, Ipoh. There was a grand total of 43 tables – kudos to PEA and its hard-working Organising Committee. Members and guests thoroughly enjoyed the singing performances and karaoke sessions – crooning away to their heart's delight the many oldies are goldies song selections. It was truly a memorable dinner for all present. Congratulations to everyone who made it a resounding success. Way to go!



Smiles - PEA Committee Members posing a group photo.



Happy occasion - Cake-cutting ceremony.

PEA at TEEAM's 64th Anniversary Dinner

PEA President, Mr Chan Kaim Sam, together with his pro-active Committee Members, attended TEEAM's 64th Anniversary Dinner on 27th August 2016 at the Hotel Majestic in Kuala Lumpur. It was a night of fellowship and bonding, with good food served and invigorating entertainment. A truly memorable event and a highlight of the year for many.



PEA's presence - Photography for memory.

Technical Visit to Tonn Cable

PEA organised a technical visit to Tonn Cable Sdn Bhd in Balakong, Selangor on 18th November 2016. Members had the chance of understanding the production lines, various cable standards and test procedures. It was a fruitful visit for all to gain technical knowledge.



For the album - Group photo at Tonn Cable Sdn Bhd.



Thank you - Souvenir presentation at the end of the visit.

Electrical Association of Sarawak & Sabah (EASS)

No. 2 A/F, 2nd Floor, Hardin Road, 96000 Sibu, Sarawak, Tel: +6084-319 949 Fax: +6084-346 114, 325 112 E-mail: sibuccci@gmail.com

Electrical Wiremen Course

The Electrical Association of Sarawak & Sabah (EASS) together with the University College of Technology Sarawak (UCTS) co-organised a Part-Time Course on Electrical Wiremen (Grade 2) which started on 10th December 2016. It was scheduled to run for a duration of three months. The course drew the keen interest of 35 participants. It covered Electrical Theory and Practical Sessions to promote a higher quality of Electrical Engineering Services (EES). Upon completion of the course, participants will receive a Competence Certificate as their official entry into the E&E industry. According to EASS Chairman, Mr Hii Hua Chuon, the main objective of the course is to work with the government to achieve the accident-free target for members of the industry. He hoped that the participants will gradually advance themselves to take further courses in order to enhance their competency levels.



Fully engrossed in the Lecture – Participants listening attentively.



For the album – EASS and UCTS officials posing with all the participants. 8th & 9th from front row left are Mr Hii Hua Chuon (EASS Chairman) and Mr Kee Keh Kim (UCTS Senior Lecturer) respectively.





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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

BSEEP Workshop Comes To Penang

A Workshop on Building Sector Energy Efficiency, supported by the Penang Merchants Electrical Association (PEMA), was held on 8th December 2016 at Eastin Hotel, Penang. It was organised by TEEAM in collaboration with the Building Sector Energy Efficiency Project (BSEEP) which is managed by the Public Works Department (JKR). BSEEP is a national



Welcome address – PEMA Education Chairman & Past President, Dato' Ooi Kok Kee.

programme for the building sector funded by GEF (Global Environmental Facility) – under the auspices of UNDP (United Nations Development Programme).

The Workshop was approved with BEM CPD/PDP hours, CIDB CCD points and ST CPD hours. It benefited electrical contractors, consultants, engineers, competent personnel, facility managers, building owners and government regulators.



Attentive – Workshop Participants.

TEEAM's 64th Anniversary Dinner

PEMA officials attended TEEAM's 64th Anniversary Dinner which was held on 27th August 2016 at the Hotel Majestic in Kuala Lumpur. It was a meaningful dinner for all PEMA members, to network and foster bonding, and also to exchange the latest market information.



Supportive – PEMA delegates at TEEAM's 64th Anniversary Dinner.

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

BIM-Based Software Product Seminar

The Johor Bahru Electrical & Electronics Association (JBEEA) and Glodon Software Sdn Bhd co-organised a BIM-based Software Product Seminar on 6th September 2016 at Holiday Villa, Taman Abad, Johor Bahru. BIM-based Software is a Computer-Aided Software for BQ and quantity take-off from CAD drawings, PDF, JPG and other formats. It reduces manpower, avoids the over/under tendering processes and is more effective in material control. This software also ensures better accuracy in cost estimation. The newtech seminar was approved with CIDB CCD points. It attracted 50 interested participants.



Attentive participants – The Software Product Seminar in progress.

Seminar-cum- Dialogue with Contractors & Industry Players

A Seminar-cum-Dialogue with contractors and industry players was organised by Suruhanjaya Tenaga (ST) Negeri Johor. It was supported by The Institution of Engineers Malaysia (Southern Branch), JBEEA and the Electrical Chargeman Organisation. The event was held on 4th October 2016 at KSL Resort, Taman Abad, Johor Bahru.

The first objective of this Seminar-cum-Dialogue is to create a 2-way communication platform between ST and all parties in the electrical industry. The second is to share and notify all regarding the latest information on Regulations and Amendments to the Electrical Supply Act (Akta Bekalan Elektrik 1990 - Pindaan 2015). The safety measures on the Do's and Don'ts were also emphasised. It proved to be a very fruitful and full-house event.





Overwhelming turnout – Good response from the industry players.

















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BSEEP Workshop in Johor

A Workshop on the Building Sector Energy Efficiency, which was supported by JBEEA, was held on 15th December 2016 at Hotel Jen Puteri Harbour, Johor. It was organised by TEEAM in collaboration with the Building Sector Energy Efficiency Project (BSEEP), which is managed by the Public Works Department (Jabatan Kerja Raya, JKR). BSEEP is a national programme for the building sector

funded by GEF (Global Environmental Facility) under the auspices of the United Nations Development Programme (UNDP).

The Workshop was approved with BEM CPD/PDP hours, CIDB CCD points and ST CPD hours being awarded to all participants. It benefited electrical contractors, consultants, engineers, competent personnel, facility managers, building owners and government regulators.



Welcome address – By JBEEA Chairman, Mr Lee Chee Boon.



Attentive participants – Workshop in progress.



Sarawak Electrical Association

Lot 412, (2nd Floor), Lorong 11D, Off Jalan Ang Cheng Ho, 93700 Kuching, Sarawak. P. O. Box 1494, 93730 Kuching, Sarawak. Tel: +6082 - 346 188 Fax: +6082 - 345 118 E-mail: sea.kchsarawak@gmail.com

SEA at TEEAM's 64th Anniversary Dinner

The President of Sarawak Electrical Association (SEA), Dato' Sri Ir Peter Lu attended TEEAM's 64th Anniversary Dinner on 27th August 2016 at the Hotel Majestic in Kuala Lumpur. There was Live Band performances, LED dances and lucky draws to entertain the excited guests.



Happy occasion—SEA Chairman, Dato'Sri Ir Peter Lu celebrating TEEAM's 64th Anniversary! With him is his lovely wife, Datin Chao Yen Hong.



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: pes233sabah@gmail.

TEEAM Golf Competition 2016

TEEAM hosted its Golf Competition 2016 at Staffield Country Resort, Mantin, Negeri Sembilan on 27th July 2016. Committee Members and members of the Sabah Electrical Association (PES) didn't miss the opportunity to participate and indeed, they didn't return empty-handed either. It was a great networking sports event, and many enthusiastic golfers from TEEAM went home with great prizes and also fond memories. PES golfers who attended the event included PES Sabah President, Mr Bunny Teh; Assistant Secretary, Ir Alexander Richard; Immediate Past-President, Mr Woo Soo Poo; Committee Member, Mr Albert Tey and PES member, Mr Chiew Kon Inn.



PES praiseworthy support – Golfers posing before the start of the tournament.

TEEAM 64th Anniversary Dinner

On 27th August 2016, TEEAM majestically celebrated its 64th Anniversary. The grand Anniversary Dinner was held at the Majestic Hotel, Kuala Lumpur. PES was very pleased that TEEAM had generously reciprocated a dinner table for PES. All were very entertained by the performances especially the LED dances. The event was very meaningful with the presentation of appreciation awards to all dinner sponsors, recognition awards and many lucky draw prizes. PES recorded their appreciation and thanks for the invitation, with congratulations accorded for the successful grand dinner hosting. Present to celebrate the sumptuous dinner on that auspicious night were PES President, Mr Bunny Teh; First Lady, Mrs Jenny Teh; PES Office Secretary, Ms Marcyella and some other PES members.



Enjoyable & memorable – A truly joyous occasion for remembrance.

Accessories



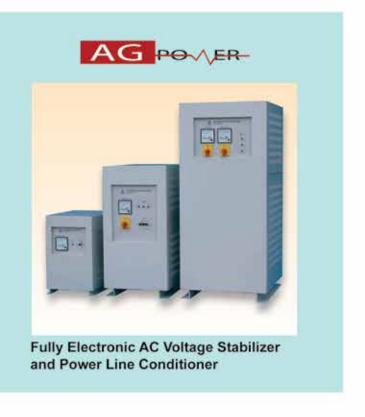


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E-mail: stantric68@gmail.com

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Signed Pledge of Commitment to the CITP

PES expressed its support for the Construction Industry Transformation Programme (CITP) initiative. PES had been invited earlier by CIDB Sabah Branch, to attend the CITP pledge signing-ceremony, which was held on 5th September 2016 at The Pacific Sutera Harbour Resort, Kota Kinabalu, Sabah. CITP is a comprehensive five-year programme (2016-2020), to transform the nation's construction industry as a whole. The programme is part of the 11th Malaysia Plan. The Chief Minister of Sabah, Datuk Seri Panglima Haji Musa Haji Aman was invited as the Guest-Of-Honour

for the CITP Opening Ceremony. The event was held in conjunction with the Graduation Ceremony of Akademi Binaan Malaysia (ABM). Twenty CCD points were also awarded to the signatories of the companies who were present at the event. PES was represented by its Vice-President, Mr Leslie Jong; Secretary, Mr Roslan Serin and Assistant Treasurer, Mr Lai Tet Vui.



Roslan Serin and Assistant At the CITP Signing Ceremony – PES Treasurer, Mr Lai Tet Vui. officials posing for the album.

Courtesy visit to CIDB Sabah Branch

A courtesy visit was organised by PES to the CIDB Sabah Branch office on 24th October 2016. The delegation was led by PES President, Mr Bunny Teh; Vice-Presidents, Mr Leslie Jong and Mr Aldrin Wong; Secretary, Mr Roslan Serin; Treasurer, Datuk Hj Mohamed Zulfikar Ahmad and Committee Member, Mr Shah Fareed Datuk Awang Sham. PES Committee Members were welcomed by Sabah CIDB Director, Ir Hj Sharifudin Che Omar and Manager, Mr Paul B Joannes.

The visit was to foster a better working relationship with CIDB. It also aimed to introduce the new Committee Members of the Association. During the visit, both parties agreed to work together to help prepare places for industrial or work-site trainings for students

who were enrolled into ABM (Akademi Binaan Malaysia). PES took the challenge by agreeing to prepare CIDB-related courses in electrical and mechanical subjects for CIDB's official accreditation. This will go a long way to turbo-boost the industry recognition initiatives.



A sincere thank you – A token of appreciation was presented to CIDB by PES President, Mr Bunny Teh (3rd from left).

Other State Association Members' contacts:



Malacca Electrical Contractors and Traders Association

No. 389-G1, Taman Pringgit Jaya, Jalan Mata Kuching, 75400 Melaka. Tel: +606 - 283 8688 Fax: +606 - 781 1466



Negeri Sembilan Electrical Engineering Association

c/o No. 194, Jalan Pantai, 71000 Port Dickson, Negeri Sembilan Darul Khusus. Tel: +606-647 1105 Fax: +606-647 4728

Sandakan Electrical Engineering Association, Sabah

Block B-2, Lot No. 25, Bandar Utama, Batu 6, Jalan Utara, 90000 Sandakan, Sabah. Tel: +6089 - 666 963 Fax: +6089 - 669 936 E-mail: mintzechin@gmail



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

Title : ACCCIM Bulletin, August

& October 2016

Publisher: The Associated Chinese

Chambers of Commerce and Industry of Malaysia

Title : Berita KLSCCCI,

July-September 2016

Publisher: Chinese Chamber of

Commerce & Industry of

Kuala Lumpur & Selangor

Title : Berita MFPA,

September 2016

Publisher: Malaysian Fire Protection

Association

Title : EUMCCI Malaysia,

Vol 4/No. 2/2016

Publisher: EU-Malaysia Chamber of

Commerce and Industry

Title : Focus Malaysia

Publisher: Focus Malaysia Sdn Bhd

Title : Heights, Volume 4, 2016

Publisher: Construction Industry

Development Board Malaysia

Title : HKECA Newsletter,

September-December 2016

Publisher: Hong Kong Electrical Contractors' Association

Title : ICT Job Market, Outlook in

Malaysia, July 2016

Publisher: The National ICT Association

of Malaysia

Title : IEEMA Journal, August

& September 2016

Publisher: Indian Electrical and Electronics

Manufacturers' Association

Title : JEMA 2016

Publisher: The Japan Electrical

Manufacturers' Association

Title : Jurutera, September, October

& November 2016

Publisher: The Institution of Engineers,

Malaysia

Title : Laporan Tahunan 2015 Publisher : Energy Commission

Title : Malaysia SAFE Magazine,

July- August 2016 Publisher: Malaysia SAFE, Security.

Safety. Fire

Title : MGCC Perspectives,

July/Aug, Sept/Oct &

Nov/Dec 2016

Publisher : Malaysian-German Chamber

of Commerce and Industry

Title : Tenaga Link, Vol 1/2016 Publisher : Tenaga Nasional Berhad

Title : The Ingenieur,

Vol. 67 (July –September 2016)

Publisher: Lembaga Jurutera Malaysia

Title : Trademart, Volume 5/2016

Publisher : Malaysia External Trade Development Corporation

