

APACEEE 2010

The Asia Pacific Regional Conference & Exhibition on Energy Efficiency (APACEEE 2010) was successfully held from 18th to 21st October 2010 at Berjaya Times Square Hotel, Kuala Lumpur. Some 250 participants attended the conference.

The theme of the conference was “Energy Efficiency for Sustainable Development”. The conference brought together regulators, utilities, industries and consumers to share technical knowledge and experiences with regard to energy efficiency and renewable energy issues both locally and regionally.

The conference highlighted that energy efficiency and renewable energy are to reduce the impact of energy related activities on the environment and act as tools to improve competitiveness on products and services in the global market. Industries that are energy efficient can also increase their profits whilst unburden the consumer budget significantly just by reducing the energy cost.

Sponsors were Tenaga Nasional Berhad, Siemens Group of Companies, inControl Tech Sdn Bhd, ABB Malaysia Sdn Bhd, TNB Integrated Learning Solution Sdn Bhd (ILSAS), IBM Malaysia Sdn Bhd, Propel Berhad, Tenaga Cable Industries Sdn Bhd, Labmetrik Electrical Sdn Bhd, Item Industrial Engineering Sdn Bhd, Waja Sae Sdn Bhd, Suruhanjaya Tenaga, GSN Ventures (M) Sdn Bhd, Eco-CS, and Malaysian Exhibition Services Sdn Bhd. TEEAM was one of the supporting organisations.

The exhibition showcased all available technologies and solutions that can be applied

immediately in order to conserve our energy resources, reduce carbon emission and improve competitiveness in the global market via savings churned out from energy efficiency. By combining technical presentations and exhibitions, participants gained a better understanding on the concepts of energy efficiency and its impact towards sustainable development.



Keynote address – (left) YBhg Tan Sri Dr Ahmad Tajuddin Ali (Chairman of the Energy Commission) giving a speech at the opening of the conference. Looking on are (left) Ir Azman Mohd (Chairman of CIREM Malaysia) and Ir Wan Nazmy Wan Mahmood (APACEEE Organising Chairman).



Opening ceremony – A cross section of the VIP guests and conference participants.



Networking – (from left) Mr Ho Khai Hong (TEEAM Honorary Secretary), Ir Chew Shee Fuee (TEEAM Vice President), Mr Muhammad Razif Abdul Rahman (TNB Vice President – Human Resource) and Ir Kamaliah Abdul Kadir (General Manager of TNB KL).



Labmetrik booth – (from left) Mr Ho Khai Hong (TEEAM Honorary Secretary), Mr Eric Oh (Sales Director of Labmetrik Electrical) and Ir Chew Shee Fuee (TEEAM Vice President).



At the exhibition – (from left) Ir Azman Mohd (Chairman of CIREM Malaysia), YBhg Tan Sri Dr Ahmad Tajuddin Ali (Chairman of the Energy Commission), Ir Chew Shee Fuee (TEEAM Vice President) and Mr Ho Khai Hong (TEEAM Honorary Secretary).



TCI booth – (from left) Ir Chew Shee Fuee (TEEAM Vice President), Mr Ho Khai Hong (TEEAM Honorary Secretary) and Ir Mohamed Ghous Ahmad (Managing Director of Tenaga Cable Industries).



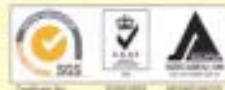
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Courtesy Visit from European Commission

On 22nd November 2010, the EU-Malaysia Chamber of Commerce and Industry arranged for a meeting between Mr Francois Cherer and TEEAM officials. Mr Cherer is an evaluator of the European Commission on Asean Programme for Regional Integration.

TEEAM officials Ir Chew Shee Fuee (Vice President), Mr Ho Khai Hong (Honorary Secretary) and Ir Rocky Wong Hon Thang (Honorary Fellow cum Technical Adviser) received the guest at TEEAM.



Mr Francois Cherer – Evaluator of the European Commission on Asean Programme for Regional Integration.

A discussion was held to determine the awareness of TEEAM members on the Asean economic integration policies in general and specific trade policies which are being discussed/implemented. Mr Cherer is tasked

to support Asean Member States to achieve economic integration objectives, specifically in the area of trade facilitation, harmonisation of standards and customs procedures. It was a very fruitful and educational discussion.



Exchanging opinion – A fruitful discussion.



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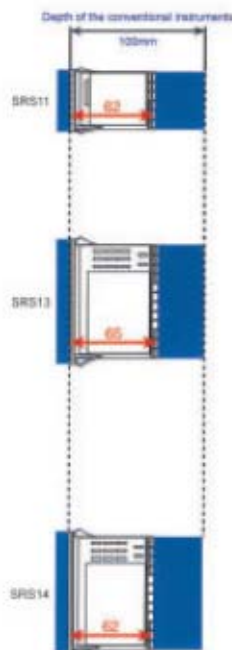
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(48x48)



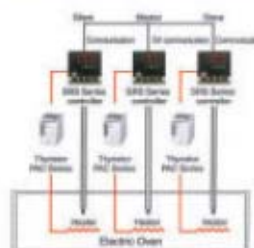
SRS13 Series
(96x96)



SRS14 Series
(48x96)

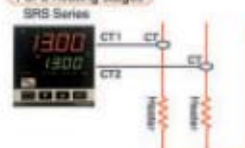


EXAMPLE OF TUNNEL FURNACE PROGRAM TEMPERATURE CONTROL

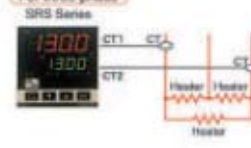


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LED Lighting Seminar

A half day seminar on LED Lighting was held on 6th August 2010 at TEEAM Conference Room. The seminar was organised by TÜV SÜD PSB (Malaysia) Sdn Bhd and was supported by TEEAM. The seminar provided insights into lighting product evaluation, energy efficiency and suitability of LED for lighting.

Speakers were Mr Tan Heng Khoon and Mr Derrick Sim Boon Hwa from the electrical and electronics department of TÜV SÜD PSB Singapore. They shared with the participants the performance and safety evaluation,

maintenance factors, energy efficiency measurements, applicable IEC standards and international product certification. The seminar successfully drew a crowd of 43 participants from the lighting industry.

It was an informative seminar. The seminar ended with an interactive Q & A session.



Seminar participants – All participants listening attentively during the session.



Before the seminar – (3rd from left) Mr Yap Ching Kiat (TEEAM Vice President) posing with officials from TÜV SÜD PSB. (from left) Mr Ian Ng Sow Yem (Sales & Marketing Manager), Mr Tan Heng Khoon (Speaker) and Mr Derrick Sim Boon Hwa (Speaker).



Introduction of various IEC tests – Mr Tan Heng Khoon, Product Manager of Electrical & Electronics Department of TÜV SÜD PSB Singapore delivering his lecture.



Energy efficiency of lighting product – Mr Derrick Sim Boon Hwa, Senior Engineer of Electrical & Electronics Department of TÜV SÜD PSB Singapore giving a presentation.



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Visit by UTCC & ITD from Thailand

On 22nd November 2010, a 4-member research team from the University of the Thai Chamber of Commerce (UTCC) and the International Institute for Trade and Development (ITD) visited TEEAM for a general discussion on a research project on “Production-Based Movement under Asean Economic Community (AEC) Framework”.

The research team consists of Asst Prof Santi Tongkaew (School of Economics of UTCC), Asst Prof Wichitra Chalermchaichana (School of Economics of UTCC), Mr Termdham Sithilert (Lecturer, School of Economics of UTCC) and Ms Jittikarn Wongkampoo (Research Fellow of ITD).

TEEAM officials, Ir Chew Shee Fuee (Vice President), Mr Ho Khai Hong (Honorary Secretary) and Ir Rocky Wong Hon Thang (Honorary Fellow cum Technical Adviser) received the visiting team from UTCC and ITD.

The objectives of the research were to study the competition situation in the industry of

electrical & electronics, textile & apparel and food processing in AEC member countries; to study the factors that influence these industries; to study the situation and trend of FDI (Foreign Direct Investment) in AEC member countries; and to study the situation and trend of production based movement of the three industries.

The ultimate research objective was to encourage cross-border trade and investment flows among Asean countries in line with the establishment of the AEC in 2015.

It was a fruitful meeting and a group photo capped off the event.



Group photo for the album – (from left) Ms Jittikarn Wongkampoo (Research Fellow of ITD), Mr Ho Khai Hong (TEEAM Honorary Secretary), Ir Rocky Wong Hon Thang (TEEAM Honorary Fellow cum Technical Adviser), Asst Prof Santi Tongkaew (School of Economics of UTCC), Ir Chew Shee Fuee (TEEAM Vice President), Asst Prof Wichitra Chalermchaichana (School of Economics of UTCC) and Mr Termdham Sithilert (Lecturer, School of Economics of UTCC).



Souvenir presentation – (right) Asst Prof Wichitra Chalermchaichana (School of Economics of UTCC) presenting a souvenir to Ir Chew Shee Fuee (TEEAM Vice President) as a token of appreciation.



Meeting in progress – Trends of the electrical and electronics industry in AEC member countries were discussed.



Bowling Tournament 2011

Date : 17th April 2011 (Sunday)

Time : 2.00 pm – 6.00 pm

Venue: Pyramid Mega Lanes,
Sunway Pyramid Shopping Centre

Registration : Contact TEEAM Secretariat

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iGEM 2010

The International Greentech & Eco Products Exhibition & Conference Malaysia (iGEM) 2010 was successfully held from 14th to 17th October 2010 at Kuala Lumpur Convention Centre. It was jointly organised by the Ministry of Energy, Green Technology and Water and Green Purchasing Network Malaysia. The iGEM 2010 was officiated by the Prime Minister of Malaysia, YAB Dato' Sri Mohd Najib Tun Abdul Razak.

Over 23 countries/regions participated in the event. There were national/regional pavilions from Denmark, European Union, Japan, Korea, Malaysia, Singapore and Taiwan. Over 500 booths with six major themes featured energy, water & waste management, building, transportation, eco-products & materials and green financing were displayed. One-to-one business matching sessions, seminars, workshops and product demonstrations were held concurrently.

Global green economic initiative was being launched in many countries whereby policies, investment, and spending are restructured and reallocated towards the reconfiguration of businesses and infrastructures to deliver incremental returns

on capital investments while simultaneously reducing greenhouse gas emission, waste pollution, natural resource consumption and social inequalities.

The conference aimed to create awareness concerning the importance of green technology, eco-products and services for national green growth; to provide a forum for dissemination of R&D findings and applications of green technology; to create and provide business-to-business opportunities in green technology and green purchasing; to generate market demand for green technology and eco-products through the promotion of green purchasing and green values; and to promote Malaysia as the regional green technology and eco-product hub.

The conference gathered over 80 renowned local and international experts from Europe, USA, Japan, Korea, China, Thailand, Taiwan and Singapore to discuss green technology policies and strategies, exchange valuable industry insights and share proven green business models while generating endless business opportunities.

The exhibition and conference were well participated.



A cross section of the exhibition – iGEM 2010 received good response from the industry.



General Electric International – (second from right) Ir Chang Yew Cheong (TEEAM Council Member) with GE officials.



Overwhelming response – Visitors queuing up for registration at iGEM 2010.



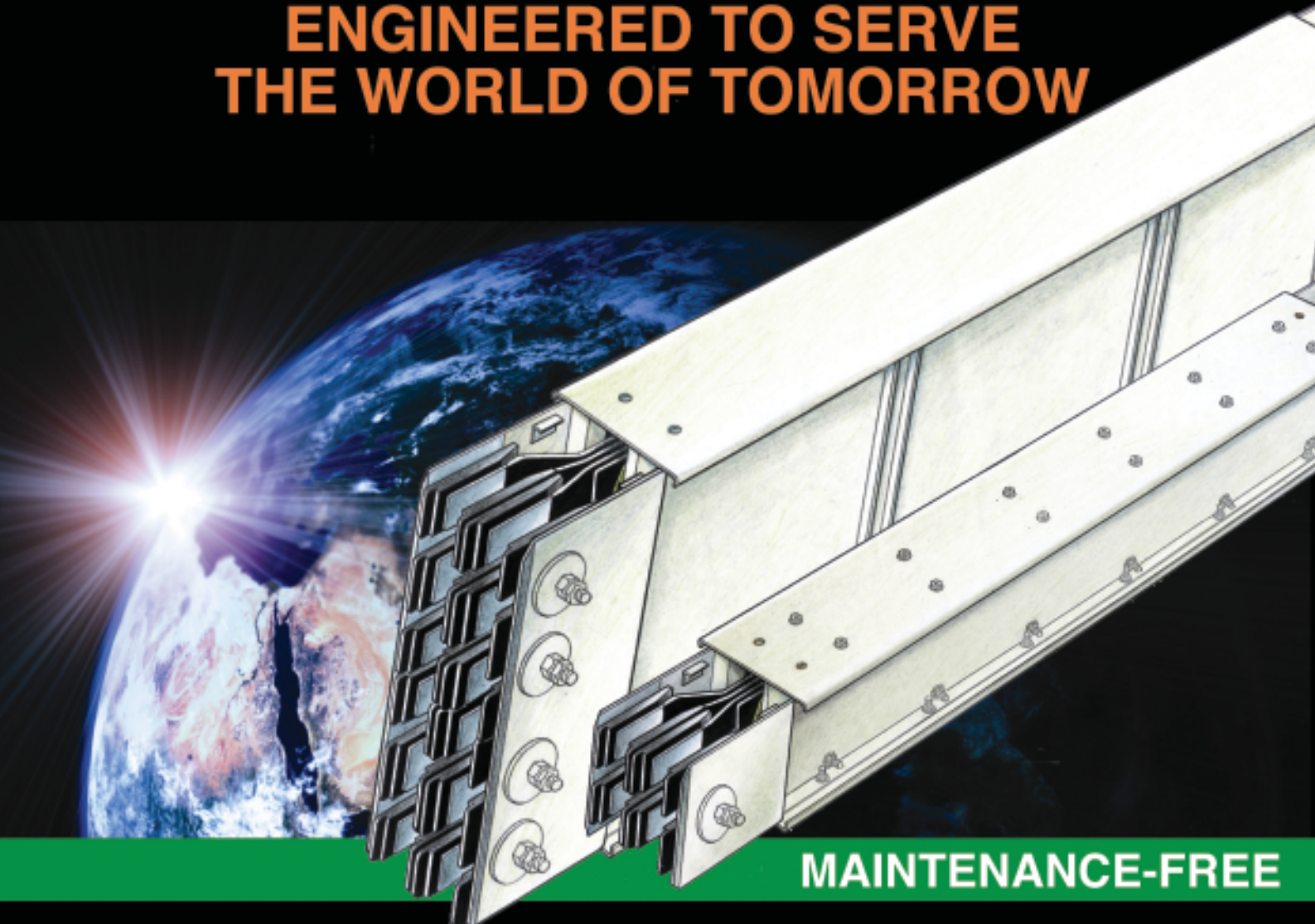
DPI Industries – (left) Ir Chang Yew Cheong (TEEAM Council Member) and Mr K Y Lai (Sales Manager of DPI).



ItraMAS Technology – (from left) Engr Fu Wing Hoong (TEEAM President), Mr Lee Choo Boo (CEO of ItraMAS), Mr M Thevarajoo (Business Development Director of ItraMAS) and Dato' Koay Kar Huah (Executive Chairman of ItraMAS).



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EP China 2010

The 13th International Exhibition on Electric Power Equipment and Technology (EP China 2010) was successfully held from 19th to 21st October 2010 at China International Exhibition Centre, Beijing, China. The exhibition was organised by China Electricity Council Expo Centre and Adsale Exhibition Services Ltd. The exhibition had a record of 26,300 visitors and some 330 exhibitors from 20 countries/regions.

The exhibit profile covered power transmission & distribution equipment/technology, power generation equipment (thermal/hydro/nuclear), alternative sources of energy (wind power, geothermal, solar power, tidal power, etc), construction & engineering of turn-key project, power dispatching system (SCADA/DMS/EMS systems), control & testing equipment/instrumentation, IT for power industry, building electrical & electronics installation system (building management & control

system, switchgear, lighting system, etc), LV electrical equipment and accessories, power electronics equipment automation, industrial power equipment (UPS, diesel generators and alternators, etc), energy saving and environmental protection technology.

Some concurrent events were held in conjunction with the EP China 2010, such as green power & smart grid forum,

symposium on power T&D technology and technical seminars. TEEAM Council Member, Mr Lawrence Lai Kun Hoong of Lightning Power Surge Protection visited the exhibition as one of the VIP guests. TEEAM was one of the supporting organisations.

The next edition of the event will be held in Shanghai, China from 21st to 23rd September 2011.



EP China 2010 – Opening ceremony.



..... Continue iGEM 2010



Philips Malaysia – (3rd from left) Mr Alfred Wong (Project Sales Engineer) and his sales team.



Tenaga Nasional Berhad – TNB officials posing for a photo.



Pekat Teknologi – (from left) Mr Chin Soo Mau (Managing Director of Pekat Teknologi), Mr Wee Chek Aik (Executive Director of Pekat Teknologi) and Engr Fu Wing Hoong (TEEAM President).



ABB – Photo taken for the album.



At the iGEM 2010 – (from left) Ir Chang Yew Cheong (TEEAM Council Member), Mr Ricky Douglas Goh (RDG Supply Sdn Bhd) and Ir Yong Ah Huat (TEEAM Council Member).



Malaysian Exhibition Services – (4th from left) Engr Fu Wing Hoong (TEEAM President) posing with MES officials. (right) Mr Alun Jones (MES General Manager) and (centre) Mr Lim Cha Cheng (MES Project Manager).





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National Standards Conference

On 21st October 2010, Standards Malaysia organised a National Standards Conference 2010 with the theme “The Pre-requisite for Survival: Meeting Standards in a Globalised Economy” at The Royale Chulan, Kuala Lumpur. Some 120 participants attended the conference. TEEAM officials were present in support of the event.

The conference benefited the representatives from the consumers groups, industries and government agencies, by allowing them to have an open dialogue, to help create greater awareness on the importance of standards to our economy and to further propel the level of standards for the local industries and agencies onto a higher plane than it already is now.

The objectives of the conference were to update participants on the latest trends on standards;

to serve as a platform to facilitate discussion for all stakeholders involved in utilising, implementing and setting of standards; to serve as a networking session for the abovementioned stakeholders; and to create greater awareness within the industry and consumer groups on the importance of the role of standards.

The conference successfully attracted the participation of local and foreign small and medium enterprises and multinational corporations from both the manufacturing and service industries; professional certification organisations that are involved in standards



Opening ceremony – YBhg Tan Sri Datuk Dr Ahmad Tajuddin Ali (Chairman of Malaysian Standards and Accreditation Council, MSAC) delivering his keynote address.

certification; and government agencies or departments that are involved in the enforcement of mandatory standards.



At the conference – (from left) Ir Ahmad Fauzi Hasan (CEO of Energy Commission), Ir Chew Shee Fuee (TEEAM Vice President) and Mr Abdul Razak Salim (SIRIM Adviser).



Conference in progress – Some 120 participants attended the conference.



Session on voluntary vs mandatory standards – Centre is moderator, YBhg Tan Sri Datuk Dr Ahmad Tajuddin Ali (MSAC Chairman) with speakers (left) Mr Ridzwan Kasim (Senior Director of Policy and Standards, Standards Malaysia) and Ir Ahmad Fauzi Hasan (CEO of Energy Commission).



Session on Malaysian Standards vs International Standards – Centre is session moderator, YBhg Tan Sri Dato' Mohd Ramli Kushairi (Chairman of MyNSC). Speakers are (left) Ir Mohamad Faudzi M Yasir (Adviser, Group Technical Services of PETRONAS) and Ir Assoc Prof Dr Jeffrey Chiang Choong Luin (Honorary Treasurer of IEM).



Guangzhou International Lighting Exhibition 2011

9th to 12th June 2011

Guangzhou International Lighting Exhibition 2011 is in its 16th edition and is established as the world's second biggest show for lighting products and services. Exhibit profile includes accessories and electronics components; decorative lighting; electric lights; LED technology; light control, management & measurement system; professional lights; and technical lighting. TEEAM intends to organise a trade delegation to the exhibition. Members who are interested to join the delegation may contact the TEEAM Secretariat for details.

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Fellowship Gathering

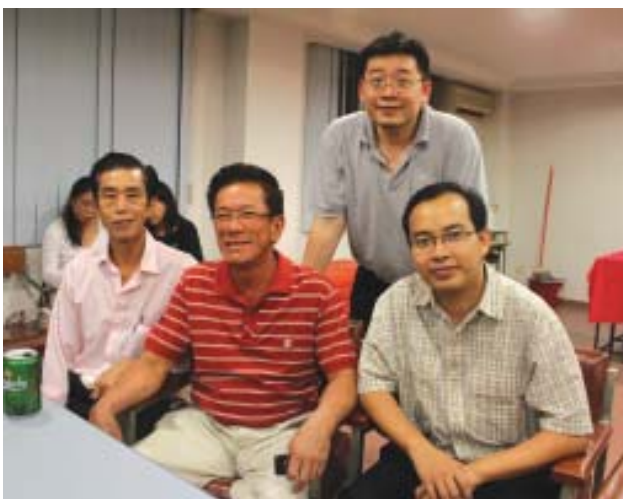
On 4th December 2010, TEEAM organised a second session of fellowship gathering. The objective was to establish good relationship among members and to welcome new members to the TEEAM's family. It was a good networking session with free flow of beer, satays and light refreshment. Some 40 members and guests enjoyed the gathering.



Mingle around – (from left) Ir Chang Yew Cheong (TEEAM Membership Recruitment Chairman), Ir Chan Juan Hoe (Chan Wai Electrical Engrg), Mr Ho Khai Hong (TEEAM Honorary Secretary), Ir Chew Shee Fuee (TEEAM Vice President), Mr Chong Yoon Koon (TEEAM Council Member) and Mr Teoh Yew Yean (PEMA President).



Having a good time – Everyone enjoying the fellowship gathering.



Networking – (standing) Mr Stan Lim (Nanyang Electric Co), (seated from left) Mr Chong Yoon Koon (TEEAM Council Member), Mr Teoh Yew Yean (PEMA President) and Mr Loke Kok Wah (IQI Frontiers).



Happy gathering – (from left) Mr James Ngun (Speed Drives & Automation), Ir Chang Yew Cheong (TEEAM Membership Recruitment Chairman), Mr Teoh Yew Yean (PEMA President), Engr Fu Wing Hoong (TEEAM President), Mr Charles Lee Wai Chiew (TEEAM Council Member) and Mr Wong Chin Cheong (TEEAM Honorary Treasurer).



For the album – (from left) Mr Louis Tan Ming San (Bistanika), Mr K M Chua (Bistanika), Mr Yuen Tat Yan (ADC Power Concept), Mr Anthony Ng Mun Sun (MIT Academy), Mr James Ngun (Speed Drives & Automation), Engr Fu Wing Hoong (TEEAM President), Mr Lai Tuck Sing (ACS Concept) and Ir Chang Yew Cheong (TEEAM Membership Recruitment Chairman).



Say "cheese" – (from left) Mr Sam Woo Yue Fong (Sykt Handicraft Works), Mr Yuen Tat Yan (ADC Power Concept), Mr Yeong Di Hui (ADC Power Concept) and Mr Lim Ken Kai (ADC Power Concept).



FULBAN SDN BHD

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Tel : 03-79842389
Fax : 03-79842368/9
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Son ballast, Sodium lamp



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AIDS ,etc...



Multimeter / Combo Kit

..... Continue Fellowship Gathering



All smiles – Engr Fu Wing Hoong (TEEAM President) posing with pretty ladies, (from left) Mrs Alice Soon, Mrs Lily Chew and wife Patsy.



For the album – Strong support from Mr Woo Keng Nam & family.

Singing session:



(left) Mr Jack Soon Lee Hock (TEEAM Assistant Honorary Secretary) and Engr Fu Wing Hoong (TEEAM President).



(left) Mr Fong Mun Loon (TEEAM Council Member) and Ms Josie Wong (City-Lite Letrik).



(left) Ir Chang Yew Cheong (TEEAM Membership Recruitment Chairman) and Mr James Ngun (Speed Drives & Automation).



Mr Woo Keng Nam of Sykt Handicraft Works.



Spouse, Mrs Lily Chew.



Mr Jack Soon Lee Hock (TEEAM Assistant Honorary Secretary) and wife Alice.



TEEAM's 1st lady, Mrs Patsy Fu.



Mr Charles Lee Wai Chiew (TEEAM Council Member).



Mr Chong Yoon Koon (TEEAM Council Member).



Badminton Tournament 2011

Date : 9th & 16th October 2011 (Sundays)
Time : 9.00 am – 5.00 pm & 9.00 am – 2.00 pm
Venue : Michael's Badminton Academy, Puchong

Registration : Contact TEEAM Secretariat
Tel : +603-9221 4417, 9221 2091
Fax : +603-9221 8212
E-mail: teeam52@gmail.com / teeam@streamyx.com
Website : www.teeam.org.my

Upcoming Sports Event





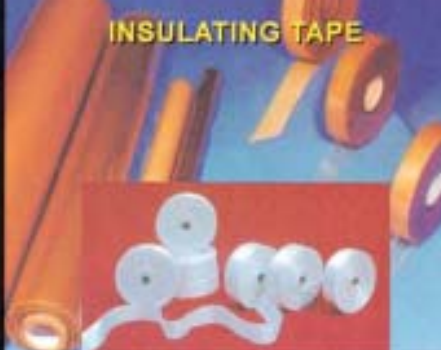
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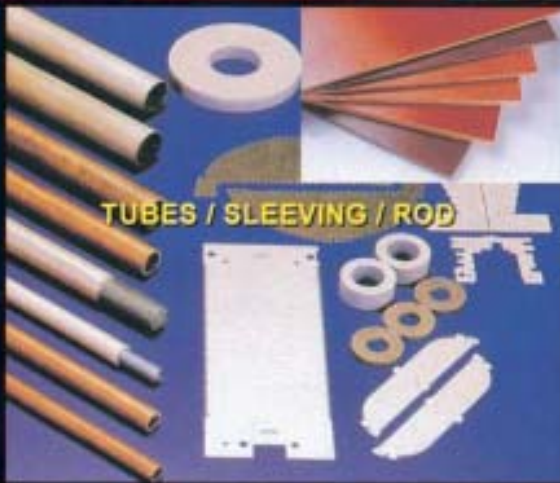
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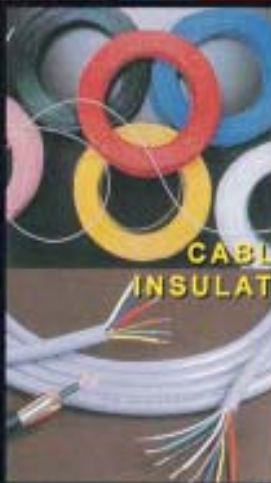
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New Members

The following new members have been approved and accepted by the TEEAM Council (as at 19th January 2011). A warm welcome to all the new members and special appreciation is extended to those who introduced these new members. For those who are not yet members..... why wait? Join us and find out how our association can offer our services to you.

Abbaco Controls Sdn Bhd No. 19-1, Jalan Juruodit U1/37, Glenmarie, 40150 Shah Alam, Selangor Darul Ehsan. Tel: +603-5569 4805 Fax: +603-5569 4806 E-mail: changyc@theiet.org Website: www.abbacocontrols.com.my Contact Person: Ir Chang Yew Cheong <i>Business: Automation, scada system and system integration.</i>	Mettube Sdn Bhd No. 2, Persiaran Kuala Langat, Seksyen 27, 40400 Shah Alam, Selangor Darul Ehsan. Tel: +603-5102 3288 Fax: +603-5191 5405 E-mail: marketing@mettube.com Website: www.mettube.com Contact Person: Mr Ajay Puri <i>Business: Manufacturing of copper products.</i>
ADC Power Concept Sdn Bhd No. 1, Jalan Taboh 33/22, Seksyen 33, Shah Alam Technology Park, 40400 Shah Alam, Selangor Darul Ehsan. Tel: +603-5124 7818 Fax: +603-5124 7819 E-mail: adcpower@myjaring.net Website: www.adceng.com.my Contact Person: Mr Yuen Tat Yan <i>Business: UPS & data centre solution.</i>	M I T Academy Sdn Bhd No. 18, Jalan Anggerik Vanilla 31/93, Section 31, Kota Kemuning, 40460 Shah Alam, Selangor Darul Ehsan. Tel: +603-5122 0701 Fax: +603-5122 0704 E-mail: anthony@mitacademy.edu.my Website: www.mitacademy.edu.my Contact Person: Mr Anthony Ng Mun Sun <i>Business: Education.</i>
Chan Chee Pooi No. 3-3A-7, Blk 3, Puncak Nusa Kelana Condominium, Jalan PJU 1A/48, 47200 Petaling Jaya, Selangor Darul Ehsan. Tel: +603-7842 7981 Fax: +603-7842 7980 Mobile: +6012-203 7808 E-mail: cpchan@dstech.com.my <i>Business: Electrical & electronics communication engineering.</i>	Ktech Electrical Engineering Sdn Bhd No. 21A, Jalan Bunga Melati, Taman Maju Jaya, 56100 Ampang, Selangor Darul Ehsan. Tel: +603-9281 1261 Fax: +603-9281 1261 E-mail: ktech8322@gmail.com Contact Person: Mr Loh Kian Kok <i>Business: Electrical engineering.</i>
Dinar Unggul Sdn Bhd No. 15, Jalan TK 5/40, Kinrara Industrial Park, 13km Jalan Puchong, 47100 Puchong, Selangor Darul Ehsan. Tel: +603-8075 4690 Fax: +603-8075 7202 E-mail: du@dinarunggul.com Contact Person: Mr Eric Wong Lit Meng <i>Business: M & E contracting.</i>	QCB Technologies Sdn Bhd No. 32-1A, 1st Floor, Ruby Complex, Jalan Kancil, Off Jalan Pudu, 55100 Kuala Lumpur. Tel: +603-2143 0518 Fax: +603-2143 0518 E-mail: qcb-tech@live.com Contact Person: Mr Jason Lee Je Sen <i>Business: Telecommunications & data products.</i>
ESS Technology Sdn Bhd No. 84, Jalan Mutiara Emas 7/5, Taman Mount Austin, 81100 Johor Bahru, Johor Darul Takzim. Tel: +607-354 0429 Fax: +607-353 4745 E-mail: info@esstechnology.com.my Website: www.esstechnology.com Contact Person: Mr Hans-Peter Ritzmann <i>Business: Energy saving solutions.</i>	Powermicro Technology Sdn Bhd No. 1, Jalan Astaka U8/83, Section U8, Bukit Jelutong, 40150 Shah Alam, Selangor Darul Ehsan. Tel: +603-7845 8188 Fax: +603-7845 2188 E-mail: enquiry@powermicrotech.com Website: www.powermicrotech.com Contact Person: Mr Daryl Seow <i>Business: Manufacturer of LED lights.</i>
Goldenlink Engineering Sdn Bhd No. 3, Jalan Damai Perdana 1/9D, Bandar Damai Perdana, Cheras, 56000 Kuala Lumpur. Tel: +603-9105 3323 Fax: +603-9105 3293 E-mail: bigm3531@gmail.com Contact Person: Mr Low Kim Huah <i>Business: Mechanical & electrical.</i>	Standards & Competency Sdn Bhd No. 6-1, Jalan USJ 21/4, USJ City Center, 47610 Subang Jaya, Selangor Darul Ehsan. Tel: +603-8023 9902 Fax: +603-8023 9903 E-mail: scgunna@streamyx.com Contact Person: Mr S Gunnasaeagren <i>Business: Electrical services contractor (33kV).</i>
Jess Technology Sdn Bhd No. 22A-24A, Jalan Perusahaan 3, 43300 Seri Kembangan, Selangor Darul Ehsan. Tel: +603-8941 3368 Fax: +603-8945 8368 E-mail: nick.cheng@jesstechnology.com Website: www.jesstechnology.com Contact Person: Mr Nick Cheng Sze Jun <i>Business: Industrial automation repair, service & supplies.</i>	Siemens Malaysia Sdn Bhd Level 1 Reception, CP Tower, No. 11, Jalan 16/11, Pusat Dagang Seksyen 16, 46350 Petaling Jaya, Selangor Darul Ehsan. Tel: +603-7952 5356 Fax: +603-7957 3180 E-mail: adsupport.my@siemens.com Website: www.siemens.com.my Contact Person: Ms Denise Chow <i>Business: Electrical engineering.</i>
Glenn Tiong Chak Lim No. 99, Jalan USJ 2/4Q, 47600 Subang Jaya, Selangor Darul Ehsan. Mobile: +6012-268 1683 E-mail: greentech.lighting@gmail.com <i>Business: Sales, lighting designer and luminaire designer.</i>	Lee Cheng Lim No. 1, Jalan 18/1, 46000 Petaling Jaya, Selangor Darul Ehsan. Mobile: +6019-223 5711 E-mail: ikone17@yahoo.com <i>Business: System integrator.</i>
Lew Chih Bok No. 74, Jalan Tempua 4, Bandar Puchong Jaya, 47100 Selangor Darul Ehsan. Mobile: +6016-666 0010 E-mail: lcbmayduct@hotmail.com <i>Business: Manufacturing and design of electrical busbar trunking system.</i>	Steven Leong Jun How No. 60, Jalan Mawar 1A, Taman Puchong Perdana, 47100 Puchong, Selangor Darul Ehsan. Tel: +603-8061 7664 Mobile: +6012-338 6213 E-mail: stevenleong84@hotmail.com <i>Business: Sales engineer of power business.</i>



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Schneider Electric Inspiration

Schneider Electric organised an energy management event namely “Inspiration 2010 Malaysia” on 21st October 2010 at Sunway Convention Centre, Petaling Jaya. The event was to introduce their new system architecture to interconnect various management systems into a single platform.

Inspiration 2010 has assembled four unique tracks that address solutions to achieve intelligent energy from plant to plug across multiple domains of customers’ business. The four key tracks were Power Management, Data Centre Management, Process & Machines Management, and Building and Security Management.

The event was officiated by Mr Peter Benedict (Schneider Electric Vice President). Mr Philip Tang Tung Kee (Schneider Electric Country Marketing Manager) who is a Council Member of TEEAM, spoke on “Active Energy Management from Plant to Plug – EcoStruxure”. He explained that the EcoStruxure is an architecture approach which unites Schneider Electric’s unique expertise in power, data centres, process and machines, building control, and physical security to enable intelligent energy management solutions for customers seeking to optimise energy efficiencies across multiple domains of the business. After the opening ceremony, there were sixteen technical workshop sessions to introduce Schneider Electric’s new architecture.

An exhibition namely “The Solution & Innovation Fair” was held in conjunction with the workshop. The fair was set up with more than ten industry segment solution stands that compose real-life demonstrations and

EcoStruxure’s solution. The exhibition showcased Schneider Electric’s portfolio of integrated solutions that enable intelligent energy management in the business to help to achieve more and be more profitable while using less energy.

More than a thousand participants were invited to attend the event. Members of TEEAM also attended the event. Everybody gained knowledge and business opportunities, beside enhancing networking in the 1-day event.



Opening ceremony – Mr Peter Benedict (Schneider Electric Vice President) striking the gong to officiate the event. Looking on is Mr Philip Tang Tung Kee (Schneider Electric Country Marketing Manager).



Impressive showcase – The exhibition showcased Schneider Electric’s portfolio of integrated solutions.



..... Continue New Members

Stream Tech Engineering & Trading No. 86, Jalan Penyair U1/44, Temasya Industrial Park, Off Jalan Glenmarie, 40150 Shah Alam, Selangor Darul Ehsan. Tel: +603-5569 2841 Fax: +603-5569 2941 E-mail: aaron@streamtec.com.my Website: www.streamtec.com.my Contact Person: Mr Aaron Inbaray Business: Sales and servicing engineering parts, electrical and mechanical engineering.	Tang Power (M) Sdn Bhd No. 33-G, Ground Floor, One Puchong Business Park, Jalan OP 1/1, Off Jalan Puchong, 47160 Puchong, Selangor Darul Ehsan. Tel: +603-8076 8072 Fax: +603-8076 8073 E-mail: tangpower_my@hotmail.com Website: http://tangpower.infotoday.com.my Contact Person: Mr Leong Kok Jiann Business: Sell, install, repair, maintain and service all kind of generator sets.
Weng Sang Power Sdn Bhd 13, Jalan TBK 1/6, Taman Bukit Kinrara, 47180 Puchong, Selangor Darul Ehsan. Tel: +603-8070 3888 Fax: +603-8070 3999 E-mail: wspanpower@gmail.com Contact Person: Mr Hoo Ten Pen Business: Contractor.	TRMS Engineering Sdn Bhd SU 986, Jalan Bandar Baru 9, Pusat Perniagaan Bandar Baru, 78300 Masjid Tanah, Melaka. Tel: +606-385 2300, 385 1131 Fax: +606-385 2539, 385 1161 E-mail: trms_engineering@yahoo.com Contact Person: Encik Mohd Tajudin Romli Business: Electrical services contractor.



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ETP Roadmap Launch

On 25th October 2010, Performance Management & Delivery Unit (PEMANDU) launched the Economic Transformation Programme (ETP) at Putra World Trade Centre, Kuala Lumpur. PEMANDU is a unit under the Prime Minister's Department. PEMANDU's main role and objective is to oversee implementation and assess progress of the government's transformation programme, facilitate as well as support delivery of both the NKRAs (National Key Result Areas) and MKRAs (Ministerial National Key Result Areas).

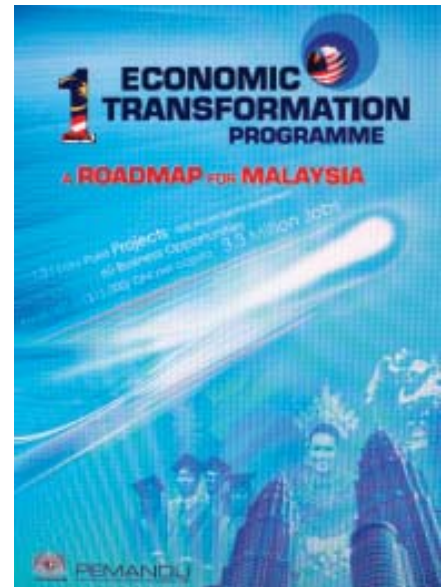
The ETP was launched by YAB Dato' Sri Mohd Najib Tun Abdul Razak (Prime Minister of Malaysia). The ETP details the concrete results and targets from the recent 1,000-person workshop and 500-person laboratories orchestrated by the PEMANDU. The roadmap covers the twelve National Key Economic Areas (NKEAs) and will unveil details related to the 131 Entry Point Projects (EPPs) and 60 Business Opportunities (BOs).

ETP is a comprehensive effort that will transform Malaysia into a high-income nation by 2020. It will lift Malaysia's gross national income (GNI) per capita from about USD6,700 or RM23,700 in 2009 to more than USD15,000 or RM48,000 in 2020, propelling the nation to the level of other high-income nations. This GNI growth of 6 per cent per annum will allow us to achieve the targets set under Vision 2020.

Successful implementation of the ETP will see Malaysia's economy undergo significant

changes to resemble other developed nations. We will continue our shift towards a service based economy, with the services sector growing from 58 per cent to 65 per cent in the same period. More than 3.3 million new jobs will be created by 2020, spread across the country in urban and rural areas. The nature of these new jobs will result in a shift towards middle and high-income salary brackets. Greater Kuala Lumpur will be transformed into a world-class city. Finally, growth will be achieved in a sustainable manner, without cost to future generations, through initiatives such as building alternative energy generation capacity and conserving our environment to promote eco-tourism.

The ETP is available online for downloading at <http://www.pemandu.gov.my/en/rural-basic-infrastructure/699.html> or can be purchased at selected book stores.



Economic Transformation Programme (ETP) – Three versions of the publication were launched.



Overwhelming response – The public attending the ETP launching.



Asean Elenex 2011

20th to 23rd July 2011, Kuala Lumpur Convention Centre, Malaysia

Asean Elenex is the biennial show for transmission & distribution and electrical engineering, and it will be running its 9th series from 20th to 23rd July 2011 at Kuala Lumpur Convention Centre. Local and global investors looking for new business opportunities in the areas of electrical engineering and power generation will highly benefit from this event. Held alongside Asean Elenex 2011 is another business sourcing platform, Industrial Automation 2011 which is the ultimate solutions provider for the manufacturing process, control and measurement equipment & technology industries in the region.

Malaysia currently has approximately 13 gigawatts (GW) of electric generation capacity, of which 84% is thermal and 16% is hydroelectric. Energy consumption in Malaysia is sustainable with the current rate of the economic development. Approximately 68.34 billion kWh of electricity is generated annually, with 63.48 billion kWh of electricity consumed per year.

With the Malaysian industry situation offering an array of investment opportunities in the electricity industry, Asean Elenex would be an ideal opportunity to seize!

For participation and further information, please contact the event organiser:

Malaysian Exhibition Services Sdn Bhd

Tel: +603-4041 0311 Fax: +603-4043 7241

E-mail: enquiry@mesallworld.com

Website: www.aseanelenex.com



In Memory of the Late YBhg Datuk Ir (Dr) Mohd Annas Hj Mohd Nor



We in TEEAM extend our deepest sympathies and condolences to the family of the late Datuk Ir (Dr) Mohd Annas Hj Mohd Nor who passed away on 15th November 2010.

Datuk Ir (Dr) Mohd Annas was the Technical Adviser of TEEAM since 2009. He took very keen interest in TEEAM's activities and extended his fullest support in all TEEAM's events.

Datuk Ir (Dr) Mohd Annas had been active in serving the engineering profession. He graduated in BSc (Electrical Engineering) from Brighton Polytechnic, UK in 1972. He was a professional engineer and a Fellow of the Institution of Engineers, Malaysia (FIEM). He was extensively involved in standards development where he was a long serving Chairman of the Malaysian Electrotechnical National Committee (MyENC), a member of the Malaysian Standards and Accreditation Council (MSAC) of Standards Malaysia and was Chairman of SIRIM Industry Standards Committee on Electrotechnical.

Datuk Ir (Dr) Mohd Annas was the Chairman of Energy Commission from May 2001 to October 2005. Prior to that he was the Director General of Electricity and Gas Supply Malaysia. He had served in the National Electricity Board (the fore-runner of Tenaga Nasional Berhad) for some 16 years.

He received an Honorary Doctorate of Engineering from Kolej Universiti Teknikal Kebangsaan Malaysia and an Honorary Doctorate of Technology from University of Brighton, UK. He also has a Master in Management from Asian Institute of Management, Philippines.

Datuk Ir (Dr) Mohd Annas was active in NGOs and community related works. He was also Adviser/Chairman/Board Member of a number of companies involved in power generation, oil & gas, renewable energy, construction, engineering consultancy, M&E engineering services and trade exhibition.

He was a kind, humble and cheerful person. His absence will be deeply felt by all of us.

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, Monday to Friday.

Title : ACCCIM Bulletin, October 2010 Publisher : The Associated Chinese Chambers of Commerce and Industry of Malaysia Title : ACEM Directory 2011 Publisher : Association of Consulting Engineers Malaysia Title : Berita KLSCCCI, July-September 2010 Publisher : The Chinese Chamber of Commerce & Industry of Kuala Lumpur and Selangor Title : Berita MFPA, 2010 Issue Publisher : Malaysian Fire Protection Association Title : Bina Integriti, July-September & October-December 2010 Publisher : Construction Industry Development Board Malaysia Title : Building & Investment, November-December 2010 Publisher : B & I Marketing Title : Business in Action, Vol. 1/2010, Vol. 2/2010 & Vol. 3/2011 Publisher : Federation of Malaysian Manufacturers Title : CIDB News, Issue 3/2010 Publisher : Construction Industry Development Board Malaysia Title : Easy Guide to Malaysian Tax and Accounting Information 2010/2011 Publisher : The Association of Chartered Certified Accountants Title : EUMCCI Review, January 2011 Publisher : European Union-Malaysia Chamber of Commerce and Industry	Title : Executive Summary of Economic Transformation Programme – A Roadmap for Malaysia Publisher : Performance Management and Delivery Unit, Prime Minister Department Title : EUMCCI Review, October 2010 Publisher : European Union-Malaysia Chamber of Commerce and Industry Title : HICOE Profile Research and Innovation Publisher : Department of Higher Education, Ministry of Higher Education Title : HKECA Newsletter, April-June, October-December 2010 & January-March 2011 Publisher : Hong Kong Electrical Contractors' Association Title : IEEMA Journal, November, December 2010 January & February 2011 Publisher : Indian Electrical & Electronics Manufacturers' Association Title : IEM Journal, No. 3 & No. 4, 2010 Publisher : The Institute of Engineers, Malaysia Title : INTRADE Malaysia 2010 Show Directory Publisher : Malaysia External Trade Development Corporation Title : Jurutera, October, December 2010 & January 2011 Publisher : The Institute of Engineers, Malaysia Title : MASSA News, August & December 2010 Publisher : Malaysia South-South Association	Title : MGCC Quarterly, November/December 2010 & January/February 2011 Publisher : Malaysian-German Chamber of Commerce and Industry Title : MITI Journal, 1/2010 Publisher : Ministry of International Trade and Industry, Malaysia Title : SMI SME Business Directory, 9th Edition Publisher : SMI Association of Malaysia Title : Special Release for Mechanical and Electrical Works, September, October & December 2010 Publisher : Department of Statistics, Malaysia Title : Standards & Quality News, No. 02/2010 & 03/2010 Publisher : SIRIM Berhad Title : Suara Perunding, 3rd & 4th Quarter 2010 Publisher : Association of Consulting Engineers Malaysia Title : The Ingenieur, September-November 2010 Publisher : Board of Engineers Malaysia Title : The Malaysian Surveyor, No. 3, 2010 Publisher : The Institution of Surveyors, Malaysia Title : The Strategist Vol. 1, 2011 Publisher : Asian Strategy & Leadership Institute Title : Trademart, November-December 2010 & January - February 2011 Publisher : Malaysia External Trade Development Corporation Title : What's new from Malaysia, 7th Issue 2010 Publisher : Malaysia External Trade Development Corporation
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Membership Recruitment Campaign

TEEAM appeals to members to help in recruiting companies and individuals to join the association to strengthen TEEAM membership base. Incentives are offered by the Membership Recruitment Committee. Members introducing a company member will be entitled for 2 points, while introducing an individual member will be entitled for 1 point. The points can be accumulated and used to redeem free advertisements in Suara TEEAM or redeem membership subscription. For details, please contact the TEEAM Secretariat at Tel: +603 – 9221 4417. Membership application form can be printed from the TEEAM website at www.teeam.org.my

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E-mail: pes233@tm.net.my / pes233sabab@gmail.com
pes233@streamyx.com

Birthday Party

On 26th October 2010, the President of Sabah Electrical Association (PES), Mr Woo Soo Poo organised a party to celebrate the birthdays of PES Committee Members who were born in the month of September and October. The birthday party was held at PES office after convening the 5th Committee Meeting.



Happy celebration – Birthday boys (from left) Mr Fo Ying Foh, Mr Arthur Lim and Mr S M Chong posing with Mr Woo Soo Poo (PES President) and Mr Chung Kee Hung (PES Immediate Past President).

Briefing on SME Financing

On 12th November 2010, some 22 PES members attended a half day briefing on SME financing for all small & medium industries/entrepreneurs. The briefing was jointly organised by SME (Small & Medium Entrepreneur) Bank Malaysia Berhad and PES. The products offered were trade lines and project financing. The participants were inquisitive about the facilities and financial assistance whereby SME Bank can assist especially on project financing. A light refreshment capped off the briefing.



Presentation by SME Bank – Branch & Regional Managers of SME Bank, Sabah Branch speaking on SME financing to PES members.

TEEAM 58th Anniversary Dinner

Eleven PES Committee Members attended the TEEAM 58th Anniversary Dinner which was held on 9th October 2010 at One World Hotel, Petaling Jaya. A very warm welcome reception was given by TEEAM President, Engr Fu Wing Hoong. The event served as a good platform to foster fellowship among PES and TEEAM members during the function.



For the album – PES members with TEEAM officials. (from left) Mr K I Chew, Mr Alexander Richard, Mr Leslie Jong, Mr S M Chong, Ir Steven Ng Khoon Hwa (TEEAM Deputy President), Engr Fu Wing Hoong (TEEAM President), Mr Woo Soo Poo (PES President), Mr Bunny Teh, Mr Chong Kee Hung (PES Immediate Past President), Mr Lee Vui Ken and Mr Fo Ying Foh.



Penang Electrical Merchants' Association

No. 171A, Malacca Street, 10400 Penang.
Tel: +604 - 229 0195 Fax: +604 - 228 4233
E-mail: pema@streamyx.com
Website: www.pema.org.my

Walkathon 2010

On 28th November 2010, the PEMA Recreation Committee headed by Chairman, Mr Lim Kim San organised a walkathon to the Air Itam Dam. The walkathon was participated by about 200 walkers consisting PEMA members, advisers, trustees and members' employees/families. The objectives were to foster closer relationship and to instill consciousness for a healthy society. The participants were given T-shirts and goodies. Attractive prizes were offered for the lucky draw. It was a joyous occasion where all mingled to get to know each other in the spirit of PEMA sportsmanship.



Yearly event – A group photo taken for the album.



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CNY Open House 2011

PEMA organised a Chinese New Year Open House on 13th February 2011 at its premises. Members of PEMA and family members were invited to join the occasion. Lion dance was presented and a sumptuous buffet lunch was served. Everyone enjoyed the CNY gathering.



Interesting lion dance – Everyone enjoyed the CNY gathering.

Courtesy Visit to General Manager of TNB Pulau Pinang

An 8-member delegation led by PEMA President, Mr Teoh Yew Yean paid a courtesy visit to Ir Abdul Aziz Jaafar, General Manager of TNB Pulau Pinang on 23rd November 2010. Issues of mutual interest were discussed. PEMA and TNB Pulau Pinang had established very good working relationship over the years.

Other State Association Members' contacts:

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



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.
Tel: +606-647 1105 Fax: +606-647 4728



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

Charity Golf Tournament

The Johor Bahru Electrical & Electronics Association (JBEEA) organised a charity golf tournament on 12th November 2010 at Austin Hills Golf Resort, Taman Mount Austin, Johor Bahru.

JBEEA has pledged to fulfill its social responsibilities and community services. All profit generated from the charity golf tournament amounted to RM10,000 has been donated to the Kiwanis Club of Metro Johor Bahru on 30th November 2010. A global organisation of volunteers that serves Kiwanis Club is a underprivileged children worldwide.

JBEEA thanked all sponsors and the enthusiastic golfers for such meaningful and successful event. Appreciation also goes to Organising Chairman cum Vice Chairman, Mr Lee Chee Boon and all Committee Members of JBEEA for the team work.

A token of appreciation from Kiwanis Club of Metro Johor Bahru Vice President, Mr Henry Chen was presented to JBEEA Chairman, Mr Leong Kam Meng during the cheque presentation.



Enthusiastic golfers – A group photo taken for the album.

Sandakan Electrical Engineering Association, Sabah

Block B-2, Lot No. 25, Bandar Utama,
Batu 6, Jalan Utara, 90000 Sandakan, Sabah.
Tel: +6089 - 214 005 Fax: +6089 - 2163 995
E-mail: suntronic_sdk@yahoo.com



Sarawak Electrical Association

Lot 412, (2nd Floor), Lorong 11D,
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P. O. Box 1494, 93730 Kuching, Sarawak.
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E-mail: jfchew@pd.jaring.my



The Perak Electrical Association

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by the Chairman, Mr Yap Ching Kiat.

Lighting Issue

This issue is now reactivated with the Treasury Circular PKP 7/2010 dated 12th October 2010 and backdated to 16th August 2010, now with a panel of six suppliers.

Such circular has been identified to be a major hindrance to encourage local investors especially those in the E&E industry as our local manufacturers need fair market access to the whole Malaysian market as a spring board to the international market.

We hope this is the work of “little Napoleon” in the Ministry of Finance (MOF) and not a covert policy of the government. We are bringing this matter up to our YAB Prime Minister and how expeditiously this matter is resolved will reflect on the policy of our government.

Eco-Labeling

SIRIM has established a Working Group for eco-labelling and as usual, lighting which uses the least load in the electrical system, gets noticed first as everybody has to use artificial lights everyday.

Our representative in this Working Group is Mr Ho Khai Hong and our Council Members are shown the initial draft of eco-labelling criteria for lamps, gears and luminaires.

We have noted that the criteria to qualify for eco-labelling is very low compared against established industrial benchmark or equipment standards such as IEC 60598. This is detrimental to our local manufacturers as we are inevitably forced to compete with low end and hence cheap products. At the same time, such products are not going to be durable and therefore increase waste. The eco-label is then self defeating and the market will not have confidence in eco-labels from Malaysians eventually. It is better not to have eco-labels if it will affect our reputation in the export market.

MITI-KPI Lab: Reenergising the Private Sector

We have put forward our points that we have published earlier. However, during the discussion, the Chairman suggested that the private sectors should play a more pro-active role to help the government to arrive at a good decision to reenergise the private sector.

From the number of meetings and dialogues with various government agencies that our Council Members have been attending and the representatives from other organisations that we met in these meetings, this suggestion is inaccurate and TEEAM objected vigorously. In fact, we raised our displeasure that meetings meant for consultation with the private sector actually meetings to “inform” the private sector. We were there just to be part of the process so that the officers in-charge can report that they have consulted the stakeholders. We are often caught in a situation that “we are part of the consultation and part of the protest”. Sometimes meetings are called with very short notice.

We hope the government takes note of this and stop blaming the private sector and wasting our time. In spite of this, TEEAM still continues to attend such “consultative” meetings and dialogues because we want to see Malaysia prosper to benefit all Malaysians.



Mr Yap Ching Kiat

PEMANDU Lab

TEEAM participated to present our input to encourage and promote local investors in our sector with the aim to eventually have 10% of the world market of about RM1 trillion. However, what we see is the government being totally distracted and concentrating mainly on LED and solar cell manufacturing. We continue to chase technology and not paying enough attention to capitalise on the technology and capabilities that we Malaysians have acquired in other areas of E&E industry.

We are studying how to get this situation corrected with the government before it is too late when we lose this group of talents who knows how to innovate, make and market products on top of having some spare cash to invest.

2011 Budget Meeting with the Deputy Finance Minister

This meeting was held on 5th August 2010, attended by about five business NGOs, TEEAM included, on one side and various banks on the other side. The subject was mainly on difficulties to obtain financing from the banks. Obviously, the banks being custodians of depositors' money are subject to stringent regulation (which is very necessary) and have to ensure that financing given can be collected back with interest.

In the meeting, I have suggested that “kutu” or “tontine” be legalised as it had help many successful businessmen some of whom even got their company listed on the stock exchange. However, we need good rules as well as enforcement so that nobody gets cheated. Besides, “tontine” gives opportunities to savers to earn better interest compared to the miserable token interest paid by banks for saving accounts. This is a clearcut win-win situation.

Today, I am delighted that, instead of the MOF taking up this matter, the Consumer Affairs Ministry is doing so. See the following The Star report:

The Star, 2nd March 2011: Move to Legalise “Kutu” Scheme

Pendang: The Domestic Trade, Cooperatives and Consumerism Ministry will introduce a new Act to protect participants of the kutu (tontine) scheme and legalising it, its Deputy Minister, Datuk Rohani Abdul Karim said.

She said the draft of the Act had been forwarded to the Attorney-General's Chambers for consideration.

Legalising tontine would help prevent people from getting involved in get-rich-quick schemes, she said after opening a seminar here yesterday.



Golf Tournament 2011

Date : 15th September 2011 (Thursday)

Time : 1.00 pm

Venue : Staffield Country Resort, Mantin, Negeri Sembilan

Registration : Contact TEEAM Secretariat

Tel : +603-9221 4417, 9221 2091

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E-mail : teeam52@gmail.com / teeam@streamyx.com

Website : www.teeam.org.my



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Website: www.tms.com.my

Challenges and Opportunities in Electrical Industry - Part 15

This paper is prepared by Ir Chew Shee Fuee, TEEAM Vice President.

Do We Need 30mA RCCBs in Our DBs?

The following applications of Residual Current Device (RCD) are stipulated in Regulation 36 of the Electricity Regulations 1994:

1. *For an installation in a place of public entertainment, protection against earth leakage current shall be afforded for any final circuit supplying energy to an equipment which is intended to provide service to the public or which is intended to be accessible to, used by or operated by the public by a residual current device having a rated residual operating current not exceeding 10 mA.*
2. *For an installation in a place where the floor is likely to be wet or where the wall or enclosure is of low electrical resistance, protection against earth leakage current shall be afforded for any final circuit supplying energy to any equipment, either individually or in a group, by a residual current device having a rated residual operating current not exceeding 10 mA.*
3. *For an installation where hand-held equipment, apparatus or appliance is used or is likely to be used, protection against earth leakage current shall be afforded for any final circuit, either individually or in a group, by a residual current device having a rated residual operating current not exceeding 30 mA.*
4. *For an installation, other than the installations mentioned in sub-regulations (1), (2) and (3), protection against earth leakage current shall be afforded for any final circuit, either individually or in a group, by a residual current device having a rated residual operating current not exceeding 100 mA unless:*
 - a) *for functional reasons, it is impractical to provide the protection; or*
 - b) *it is unsafe or even dangerous to provide the protection.*

Referring to the above I will like to focus on the clause 3 which introduces the 30mA Residual Current Circuit Breakers (RCCBs). Firstly we need to agree that the sensitivity will assist in protection against direct contact. The risks on hand-held equipment, apparatus and appliances must be emphasised especially in residential and commercial buildings. 30mA RCCBs have not been widely used because of the fear of nuisance trippings. However it is important to note that the usage of 30mA RCCBs can improve tremendously in protection against any defective appliance. 30mA RCCBs can be used efficiently if the number of circuits for protection can be properly planned. This will take into consideration of the inherent leakage currents in many appliances and equipment. Single phase RCCBs application within 3 phase DBs is to be

encouraged when all final circuits feed single phase equipment and appliances. Once we can get over the nuisance tripping fear we can gain so much in providing protection so powerfully designed against direct contact.

We have remained far too long in applying Clause 4 and unknowingly deprive the public of the advantage of 30mA RCCBs. It is time to make the change and give the public the advantages of the 30mA RCCBs immediately.

Can We Combine Transformer LV Neutral Earthing to the LV System Earthing?

Regulation 34 of the Electricity Regulations 1994:

34. (1) *Any metallic sheath, cover, handle, joint box, switch box, fuse box, switchgear frame, the frame bed plate of any generator, converter, rectifier and motor, the metallic case and core of any transformer, and the metallic frame and cover of any refrigerator, cooking stove and other electrical equipment including any domestic appliance, except those of class 11 construction, shall be effectively earthed.*
- (2) *Any water pipe connected to a public water supply system shall not be used as a sole means of earthing.*
- (3) *Any gas pipe shall not be used as a sole means of earthing.*
- (4) *The neutral point of an alternating current system or the mid-point of a direct current system shall not be connected to earth at more than one point, except with the approval of the Director General.*
- (5) *Where the neutral or mid-point of a system is not effectively earthed, an indicative and protective device shall be installed in order to avoid danger due to leakage of current to earth from a live conductor.*
- (6) *Where permission of the Director General has been obtained for the neutral*

conductor to be used as an earth conductor for earthing the frame of an electrical apparatus, the neutral conductor shall not be used as the return conductor for a single phase supply.

The neutral earthing of the transformer is important for the effective earth fault protection of the Low Voltage (LV) system. Our common practice is earthing the neutral individually and segregated from the panel earthing. If an earth fault is occurring and the effective earth fault current is insufficient to operate the relay the earth fault will persist causing an elevated neutral to earth voltage. This can be easily resolved by combining the neutral earthing to system earthing. The common earthing will ensure high earth fault currents in the event of an earth fault. This will operate the earth fault relay and isolate the faulty section. Inadequate neutral earthing will most likely develop hotspots and can create dangerous voltages.

Autonomous Liberalisation of the Construction Services Sector

PEMUDAH has decided on 24th November 2010 that Malaysia will undertake autonomous liberalisation of the Services Sector. The undertaking is an accelerated effort concurrently run with binding services liberalisation commitments by Malaysia undertaken through WTO, ASEAN, regional and bilateral FTAs. The present roadmap indicates completion of liberalisation by April 2012.

We therefore must be prepared to compete with foreign owned companies in the services sector. There will be an accelerated effort to deal with the following areas:

1. Law/Regulation/Rules/Procedures/Professional Act.
2. Licensing Requirements/Procedures
3. Qualification Requirements/Procedures
4. Fees
5. Transparency (Availability of Information)
6. Standards
7. Capacity Building Initiatives/Development Programmes

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

Ir Chew is the Vice President (Engineering Construction and Services) of The Electrical and Electronics Association of Malaysia (TEEAM). He was TEEAM President for 2001 - 2003 and 2003 - 2005. He is the Past President of the Asean Federation of Electrical Engineering Contractors (AFEEC).

Ir Chew is the Managing Director of G H Liew Engineering (1990) Sdn Bhd and QATM Engineering Services Sdn Bhd. He graduated from the University of Strathclyde, Glasgow with a B Sc (Hons) in Electrical & Electronics Engineering. He is a Professional Engineer and is also licensed by Energy Commission as a competent engineer (without voltage limits) and a service engineer to carry out electrical testing up to a voltage of 500 kV.

Ir Chew has more than 30 years experience in electrical control and relay protection. He is also specialised in electrical site tests on power equipment, electrical fault investigation, service and maintenance of electrical switchgear and relays. His work also includes electrical supervision of substations and electrical audit. He presents lectures on electrical apparatus and the protection system. He can be reached at E-mail: sfchew@ghliew1990.com

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