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State Associations News



Sabah Electrical Association

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Visit to Yayasan Kebajikan Suria

PES President, Mr Bunny Teh and PES Community & Service Sub-Committee Mr Shah Fareed visited the Yayasan Kebajikan Suria on 7th September 2014.

The hostel was set up to provide shelter to orphans and the needy, some of them fatherless. They are a total of 32 inmates, sixteen males and sixteen females, between the age of eight and seventeen.

Daily expenses such as food, school supplies and other basic needs are borne by the Founder and Executive Chairman, Datuk Raya Erom and assisted by the State Department of General Services and contribution from the public.

PES will provide them with any electrical works that might be needed for the premises, as part of PES Corporate Social Responsibility (CSR) programme.



A meaningful visit – Photo taken at the entrance of Yayasan Kabajikan Suria.

Courtesy Visit To SESB

Striving to have a closer working relation with the government sectors and private companies, PES President, Mr Bunny Teh organised a courtesy visit to Sabah Electricity Sdn Bhd (SESB) at Wisma SESB, Kota Kinabalu on 26th September 2014. His entourage included Vice President, Mr Leslie Jong; Treasurer, Mr Zulfikar; Secretary, Mr Roslan and Committee Member, Mr Aldrin Wong.

It was highlighted that PES and SESB should collaborate further in the ARWS projects, and on the JKR issue on way-leave for electrical infrastructure. It was a fruitful and informative discussion for both parties. PES thanked SESB for the information shared and hoped to foster a closer relationship in the near future.



Visit to SESB – A group photo for remembrance.

PES GST Seminar & Its Impact on Specific Industries

PES Event and Seminar Committee organised a two-day GST Seminar on its impacts on engineering consulting, contracting and trading Industries on 7th & 8th October 2014.

Approximately 34 PES members and non-members participated, which was held at Wisma Kinsabina, Jalan Penampang Baru, Kota Kinabalu. The Facilitator was Mr Tom Chong, an expert with vast experienced and bags of qualifications; MIA, MICPA, MIM, PSMPPB Certify Trainer, Certified Master Performance Coach and Master Certified Coach Trainer.

This two-day workshop help to gain a clear understanding of the GST model, mechanism, systems and infrastructure requirements in relating to engineering consulting, contracting and trading industries and accounting of GST. The workshop also help to create awareness on practical issues on common pitfalls to be avoided which are essential for a successful transition into the GST era.



Good response – Group photo of participants.

Later, due to the overwhelming response in the first session, PES Event & Seminar Committee decided to organise another similar GST Seminar on 30th & 31st October 2014, and Mr Tom Chong was again invited as the Facilitator.

The two days comprehensive presentation focused on the following topics:

- What is GST, who is liable to register and why.
- Correct GST requirements for different trades and services.
- Transitional periods, before and after GST.



Strong participation – PES members at GST Seminar.

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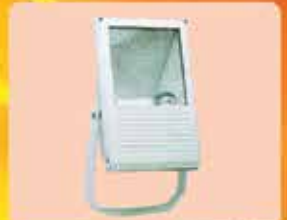
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PES Courtesy Visit To Energy Commission

On 3rd October 2014, a courtesy visit was organised by PES to the Energy Commission (Suruhanjaya Tenaga) Sabah Branch at the Bangunan BSN, Jalan Kemajuan, Kota Kinabalu, Sabah.

PES Vice President II, Mr Leslie Jong, accompanied by Secretary, Mr Roslan Serin; Treasurer, Mr Zulfikar Ahmad; Committee Members, Mr Shah Free and Mr Aldrin Wong were received by ST Director, Ms Nazlin Ab Alim Sidiki and her officers.

The visit aimed to foster a better relationship with the Commission and to introduce PES office-bearers for 2014 /2015 to them. The discussion was very interesting and fruitful. Both parties also shared information on the country's economy, market conditions and business trends.



Thank you – Mr Leslie Jong (PES Vice President II) presented a souvenir to Ms Nazlin Ab Alim Sidiki (ST Director of Sabah Branch)

PES courtesy visit to JKR Sabah

On 5th November 2014, a courtesy visit was organised by PES to the Public Works Department (Jabatan Kerja Raya - JKR) Sabah. The delegation comprised President, Mr Bunny Teh; Secretary, Mr Roslan Serin; Treasurer, Mr Zulfikar Ahmad; Committee Members, Mr Lee Vui Ken and Mr Aldrin Wong. On hand to receive PES delegation were Deputy Director (Development Infrastructure), Ir Hj Amrullah Hj Kamal; Chief Assistant Director (Electrical), Mr Martin Gustal; Chief Assistant Director (Mechanical), Ir Raymond Salugan and other officers. The visit aimed to foster a better working relation with JKR especially in the electrical infrastructure way-leave approval.

PES also took the opportunity to highlight the issues of HDD works on trenchless technology.

Overall the discussion was very fruitful and PES thanked Datuk Ir John Anthony and his officers for the time and opportunity given to share issues of mutual concern.



Build stronger relationship – A group photo of PES and JKR Officials.

PES Fellowship Golf Tournament 2014

The PES Fellowship Golf Tournament 2014 was successfully held on 8th November 2014 at Sabah Golf and Country Club (SGCC), Kota Kinabalu, Sabah. A total of 127 golfers took part in this tournament which tee-offed in the morning. The good weather contributed to a smooth game and as a token of appreciation, Datuk Robin Loh (SGCC President) and Mr Peter Wong (SGCC Captain) were invited to join in the game.

A record of appreciation to all our generous sponsors, namely; Kosmojati Sdn Bhd, Mr Ho SY, Shar Associates Sdn Bhd, Mr Woo Soo Poo, Top Aire Sales and Services, Mr Shah Fareed, Schneider Electric (M) Sdn Bhd, EWT Transformer Sdn Bhd, Central Cables Berhad, Syarikat Sri Wang Engineering Sdn Bhd, Aluminium YS Sdn Bhd, Dynasynergy Sdn Bhd, Datuk Sia Hiong Tee, Mr Tee Hong Wee and President Bunny Teh for making the event a resounding success.



Well done! – Congratulations to all winners.

PES 18th Anniversary Dinner

The PES Annual Dinner was held on Saturday 7th February 2015, at Hakka Association Hall, Tanjung Lipat, Kota Kinabalu, Sabah.

The event was well attended by over 800 members, families and guests. A delegation of 11 members from TEEAM including its President, Ir Chew Shee Fuee and first lady Mrs Lily Chew attended the dinner by invitation from PES.

Guest of honour for the night was the Minister of Energy, Green Technology and Water of Malaysia, YB Datuk Seri Panglima Dr Maximus Johnity Ongkili. Also present to grace the occasion was Ms Nazlin Ab Alim Sidiki, ST Director of Sabah Branch.

Highlights of activities for the night consisted of lion dance, lucky draws and singing and dance performances.

The main aim for the theme of the night "Unity Through Fellowship" was to build a stronger bond between PES members.



Happy Birthday PES – A group photo of PES Officials before dinner.

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ARWS Project Briefings and Site Visit

PES President, Mr Bunny Teh headed the above programme on 14th November 2014. It was on the invitation by SESB on the Assist Rural Wiring Scheme (ARWS) Project. Briefings and site visit were held at Kampung Libodon, Sook.



At the field – A fruitful visit to the rural area.

This project is catered for rural folks who have been certified by the District Office as less fortunate. PES has been collaborating with SESB in the past three years for the implementation of this noble cause. It is an ongoing project as many houses in the rural area have yet to have electricity supply.

YB Datuk Ellron Alfred Angin, the State Assemblyman for N37 Sook and SESB Senior Manager, En Nasser were also present. After the speech and press conference, it was followed by site visit and installation of meters.

PES at TEEAM 62nd Anniversary Dinner

PES President, Mr Bunny Teh and first lady, Mrs Jenny Teh together with 10 PES members attended the TEEAM 62nd Anniversary Dinner on 27th September 2014 at The Majestic Hotel, Kuala Lumpur. It was a night of good fellowship for all, served with good food and exciting entertainment.



Joyous meet – Representatives from PES. 2nd & 3rd from left is Mrs & Mr Bunny Teh (PES President) and Immediate Past President, Mr Woo Soo Poo (4th from left).



The Perak Electrical Association

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Tel: +605 - 254 1502 Fax: +605 - 250 9145
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Networking at TEEAM Dinner

A delegation from Perak Electrical Association (PEA) attended TEEAM 62nd Anniversary Dinner on 27th September 2014 at The Majestic Hotel, Kuala Lumpur. It was a good event to foster fellowship among PEA and TEEAM members.



Support from PEA – (4th from right) PEA President, Mr Teoh Kim Fong and his members at TEEAM dinner.



Sarawak Electrical Association

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SEA at TEEAM 62nd Anniversary Dinner

A delegation from Sarawak Electrical Association (SEA) attended TEEAM 62nd Anniversary Dinner on 27th September 2014 at The Majestic Hotel, Kuala Lumpur.

It was a good trip for SEA to foster fellowship with counterparts from West Malaysia.



For the album – (from right) Mr Francis Chew (SEA Chairman), Mr Peter Lu (SEA Vice Chairman), Mr Andrew Lu (Powerpoint Electrical) with Mr Woo Soo Poo (PES Immediate Past President).

Networking at PES Dinner

On 7th February 2015, Chairman of Sarawak Electrical Association (SEA), Mr Francis Chew Joon Fah and Committee Member, Mr Sim Ming Chung represented SEA to attend the Sabah Electrical Association (PES) 18th Anniversary Dinner held at Hakka Association Building, Kota Kinabalu, Sabah. It was a joyous occasion and enjoyable night.



Good networking – (4th from left) Mr Francis Chew (SEA Chairman) posing with TEEAM officials.



All smiles – (right) Mr Francis Chew (SEA Chairman) with Mr Sim Meng Chung (SEA Committee Member).

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

Charity Programme at the Penang Cheshire Home

In view of the tremendous success of the last charity programme, and the feeling of joy in helping the unfortunate, the Welfare Committee under the stewardship of Mr Khaw Tatt Siew organised another Charity programme for the Penang Cheshire Home on 13th September 2014.

Penang Cheshire Home is the home that provides therapy and education for the disabled people with cerebral palsy, trisomy 21 and epilepsy. It is a difficult struggle for them in their everyday life, and they need lifetime daily care from others. Beside donating food and necessities for the disabled, performance by the disabled and games with them were organised. PEMA managed to raise about RM11,700.00 and with the surplus from the previous programme, the total amount has reached RM17,410.00.



At the Home – Council Members posing with all helpers.

PEMA CNY Open House 2015

PEMA organised a Chinese New Year (CNY) open house on 1st March 2015. Members, trustees and advisors of PEMA and family members were invited to join in the occasion. There were lion dance and sumptuous buffet lunch to entertain all attendees. Angpows were distributed to all children, adults born in the year of the goat, and senior citizens as well.

In his speech, PEMA President, Mr Cheah See Yeong informed there will be more activities in the month of March such as PEMA 67th Anniversary Dinner, Charity programme in aid of Pure Lotus Hospice of Compassion Building Fund and the 67th AGM. He wished all PEMA members and their employees and families a happy and prosperous CNY, and may the year of the goat brings peace, prosperity and good health to all.



Group photo – PEMA CNY Open House 2015.

PEMA Walkathon 2014

The PEMA Walkathon 2014 was successfully held at the Air Itam Dam on 16th November 2014. It was headed by the Recreation Committee Chairman, Mr Lim Kim San. More than 200 participants consisting of PEMA advisors, trustees and members' families and employees participated in the event. The objectives were to foster closer relationship, instill health consciousness and exercise, have fun, meeting people and inspire our cause for a greener, cleaner and healthier lifestyle. There were T-shirts and goodies for all participants and attractive prizes for lucky draws. It was a joyous occasion where all mingled in the spirit of PEMA sportsmanship.



Overwhelming response – A group photo taken before the event.

TEEAM RCCB Roadshow

TEEAM RCCB Roadshow was held at the Paragon Complex Penang on 18th & 19th October 2014 with the support of PEMA Council members. In conjunction with the event, PEMA invited Ir Md Zakuan Bin Haji Ibrahim, Director of Energy Commission Northern Region to attend and grace the opening of the event.

TEEAM President, Ir Chew Shee Fuee presented the opening speech followed by a welcome speech by PEMA Past President, Dato' Ooi Kok Kee. After delivering his keynote address, Ir Md Zakuan Haji Ibrahim declared the roadshow opened.

The roadshow disseminated information to the public on the need for frequent testing of RCCB. In conjunction with the roadshow TEEAM also held its Council Meeting at PEMA premises. Thereafter, TEEAM invited all PEMA Council Members to a networking and fellowship dinner at the Gurney Hotel.



Safety Roadshow – PEMA Past President, Dato' Ooi Kok Kee presenting his speech during TEEAM RCCB roadshow.



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JBEEA GST Seminar

The Johor Bahru Electrical and Electronics Association (JBEEA) had organised two sessions on Goods & Services Tax (GST) seminar for the benefit of its members. The first seminar was conducted in English which was held on 29th October 2014 at Renaissance Hotel, Johor Bahru with a total of 145 participants. The second session was conducted in Mandarin on 17th December 2014 at Ponderosa Golf & Country Club, Johor Bahru with 80 participants.

The speaker is a qualified auditor, income tax and GST expert. Topics covered included GST concept, impacts on contract & financial planning, GST accounting & administration and import & export.



At Renaissance Hotel – The session was conducted in English with 145 participants.



At Ponderosa Golf & Country Club – The session was conducted in Mandarin with 80 participants.

JBEEA at TEEAM Dinner

Chairman of Johor Bahru Electrical & Electronics Association (JBEEA) attended the 62nd anniversary dinner of TEEAM on 27th September 2014 in Kuala Lumpur. It was a good trip to network and warm ties with TEEAM members.



Happy occasion – 2nd from left is Mr Leong Kam Meng (JBEEA President).

Electrical Association of Sarawak & Sabah (EASS)

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Trade Visit to Vietnam

The Electrical Association of Sarawak & Sabah (EASS) successfully organised a trade delegation to Vietnam from 28th September to 3rd October 2014. The 21-member delegation of EASS comprising members and spouses was headed by its Chairman, Mr Hii Hua Chuon.

The objective of the trade visit was to understand the current trend of electrical industry in Vietnam. One of the highlights was a visit to an electrical appliances manufacturing plant. The Vietnamese system has the same voltage as Malaysia which is 220V. Overall, it was a memorable and fruitful visit for all.



For the album – A fruitful trip for EASS trade delegation to Vietnam.

TEEAM 62nd Anniversary

Mr Hii Hua Chuon, Chairman of Electrical Association of Sarawak & Sabah (EASS) together with 10 EASS members attended the TEEAM 62nd Anniversary Dinner on 27th September 2014 at The Majestic Hotel, Kuala Lumpur. It was a great opportunity for EASS members to build stronger relationship with TEEAM members.



Catching up – (centre) Mr Hii Hua Chuon (EASS Chairman) posing with TEEAM officials and staff.

Other State Association Members' contacts:



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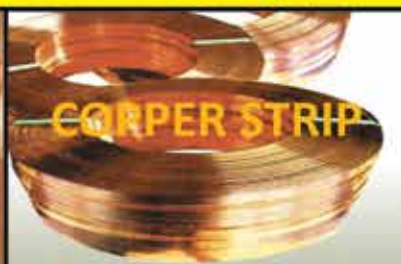
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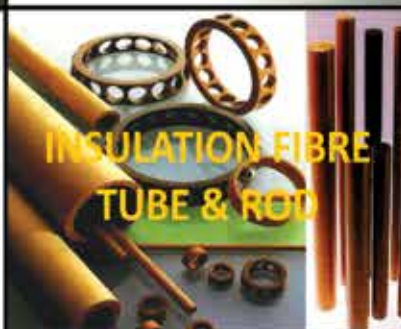


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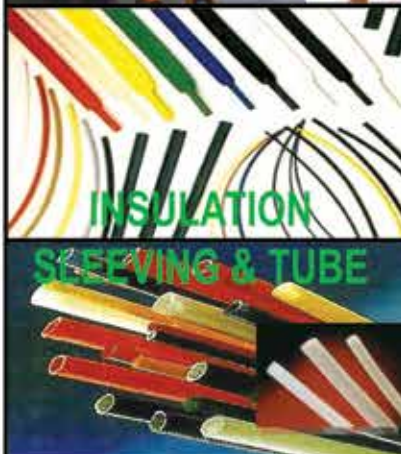


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Earthing System Copper Rod and Accessories

This article is contributed by Mr Albert Tan, TEEAM SWO Work Group Member.

In Malaysia, copper rods (copper coated steel rods) are commonly used as earthing electrode. This copper rod and its accessories are covered by the International Electrotechnical Commission Standard IEC 62561. The Malaysian Public Works Department (Jabatan Kerja Raya Malaysia - JKR) has in the past approved only the copper rod as "Earth Electrode" in the Electrical Material Approval List (EMAL). The copper rod has a nominal size of 16mm in diameter and 1500mm (5ft) or 1800mm (6ft) in length. According to IEC 62561 standard, the thickness of the copper plating on the steel rod is a minimum of 250 micron.

Today, copper rods are available in the local market from either local manufacturers or importations. Unfortunately due to lack of control, there are many sub-standard copper rods offering at low price flooding the electrical market. Non-standard compliant copper rods have a much thinner layer of copper plating (some are as thin as 20 to 30 micron!). Buried in the ground, the moisture, air and chemical compounds in the soil will corrode the inferior copper rod in a very short time. A corroded copper rod will increase electrical resistance, leading to loss of performance which can compromise the ability of the earthing to protect human lives and electrical equipment as it is meant to be.

In an earthing system, the main accessories used together with the copper rod are:

1. Earth rod copper bar clamp;
2. Earth rod wire clamp; and
3. Earth rod coupling

These accessories components are also required to comply with the International Electrotechnical Commission Standard IEC 62561. However these accessories are mostly imported and many sub-standard products have found its way into the electrical market due to its low price. A low price component has less material, making the copper alloy body thin. Together with just a small zinc plated steel bolt, the thin copper alloy clamp will not be able to provide sufficient mechanical strength. The clamp will break when it is tightened too hard and the small steel bolt will become loose and get corroded after a short time.

It is also important to note that the earth rod and clamps are installed in the soil, not visible and left without much after-care. Therefore the standard and quality of the products are very important for the earthing system to operate safely and last for many years. The general public generally does not understand the importance of earthing



Comparison – Standard and non-standard earthing system products

because the earth rod does not function when there are no electrical faults. Therefore it is the responsibility of the electrical engineers, technicians and contractors to specify and install the earthing system in accordance with the prescribed standards in order to protect human lives and electrical equipment.

The call now is for the Energy Commission of Malaysia to protect the general public by controlling and enforcing the regularisation of the earthing rods and other related accessories in the earthing system.

Mr Albert Tan is the General Manager of Conway Terminals Manufacturer Sdn Bhd. He can be contacted at albert@conway.com.my



Subcon Thailand 2015

Subcon Thailand 2015 to be held from 13th to 16th May 2015 at BITEC Bangkok is ASEAN's largest industrial subcontracting exhibition for procurement of industrial parts and components. The event, co-organised by the Thailand Board of Investment (BOI) and UBM Asia (Thailand), is expected to host more than 400 parts makers with displays of over 3,000 quality industrial products from Thailand, ASEAN and Japan. It is expected to draw over 24,000 local and overseas visitors from 15 countries.

Subcon Thailand 2015 gains full support from industrial supporting associations from Malaysia, Singapore, Vietnam, Myanmar, Philippines, and Thailand led by the Alliance of Supporting Industry Association (ASIA). TEEAM is one of their strong supporting organisations.

TEEAM will be organising a delegation to exhibit and visit Subcon Thailand 2015. TEEAM members are invited to participate. Incentives such as hotel accommodation, shuttle service to the exhibition ground and airport pickup will be arranged for those who qualify. Should you be interested, please register with the TEEAM Secretariat at teeam@teeam.org.my.



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New Members

The following new members have been approved and accepted by the TEEAM Council (as at 22nd January 2015).
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.

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Chinese Medicine

Diagnostic Precepts

This article is extracted with courtesy of "Coverage" magazine published by The China Press Berhad.

Like all medical practices, Western and Chinese alike, the process of effective therapy begins with and rests upon accurate diagnosis of the patient.

While Western medicine depends a good deal on sophisticated bio-mechanical appliances, bacteriological reliance and what-not, ancient and even today's Chinese medical practitioners follow a set of age-old and unique conventions and methodology to determine the nature, type and degree of seriousness of a malady.

These conventions or diagnostic precepts forming the foundations of herbal dispensation are collectively termed 'Bian Zheng Fa' (辯證法), a unique method of seeking evidence and verifying proof. But more often than not, at least to the Western educated, such methods are deemed arbitrary and subjective, hence the lack of confidence in their therapy.

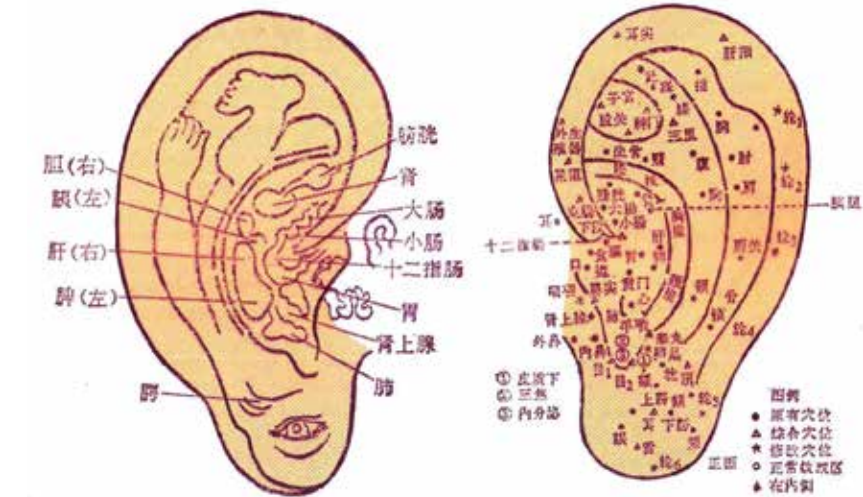
8 Categories of Diagnosis (八綱辯證)

Chinese physicians divide all sicknesses generally into eight groupings which are again paired into four polar couplings, namely Yin-Yang (陰陽), External-Internal (Biao/Li (表裏), Cold-Heat (Han/Re 寒熱) and Apparent-Real (Xu/Shi 虛實). Each member of a pair is the antithesis of the other. The division of ailment factors into 8 categories forms the back-bone of Chinese medical diagnosis.

Diagnosis based on the Yin-Yang concept (陰陽辯證)

Yin and Yang elements are the most important factors in diagnosis. The body and the various organs possess both the Yin and Yang factors with regard to normal functioning or abnormality in respect to disease. Ailments which appear acute, active, strong and firm, and progressive are said to be showing the Yang aspect, while those that are seemingly inactive, repressive, introverted and debilitating are the Yin ailments.

The Yin and Yang coupling, being fundamental in the body universe, also possesses a strong bearing on the other three couplings. For instance, superficial, heat and real symptoms considered Yang while their opposites are treated as Yin. But it must be reminded that Yin symptoms may exhibit itself in Yang ailments under certain



Ear reflexology (with all the vital organs represented on the ears) is part and parcel which shows the complexity and uniqueness of the Chinese medical treatment.

circumstances and vice versa. It takes an observant and knowledgeable doctor to point out and ascertain the actual state of the illness.

Diagnosis based on External-Internal concept (表裏辯證)

External (Biao) symptoms are those exhibited on the skin or hair while the opposite (Li) are more deep-seated within the body such as in the visceral organs or the nervous system. The distinction may also imply the degree of seriousness. The more serious are considered Internal (Li) cases, which can sometimes again be physically superficial, like a mole on the skin being suspected as cancerous outgrowth.

Take another case in point. Unlike Western treatment, typhoid is not treated symptomatically as in the lowering of high temperature with ice-pack (which is external) but diagnosed and dealt with directly at its root with specific herbal medicines.

Diagnosis based on Cold- Heat concept (寒熱辯證)

As an extension of the doctrine of Yin and Yang, the Cold and Heat symptoms are not only opposite but actually a revelation of the Yin and Yang imbalance. Therefore, the basic precept is to first determine whether an ailment belongs to the Yin or Yang element, wrong diagnosis will result in the prescription of wrong therapy.

The Cold symptoms generally imply the weaknesses in physiology and adaptability

towards the changing environment, while the Heat elements are related to over-sensitivity towards changes.

It is interesting to note that there often appears a so-called pseudo-fever which may be actually a chill in disguise, or a fever which fails to come about. Here again, experience and observation count.

Diagnosis based on Apparent-Real concept (虛實辯證)

This is one of the most intriguing aspects of Chinese medicine as it involves intangible elements. Generally, a person with insufficient 'Good air' (良氣) circulating in the body is considered having a Xu constitution exhibiting 'apparent health' which is not expected to fan off powerful disease-causing factors. In a way, it resembles the immune system, although not quite the same.

Other ways to establish proof

The eight categories of diagnosis are not the only ways to establish proof of an ailment. Others include diagnosis based on (a) 'disorders of the six basic trunk-lines of blood vessels' (六經辯證); (b) 'factors causing diseases' (病因辯證) and (c) 'maladies in San Jiao' which vertically divides the body into three segments (三焦辯證).

Four Methods of Obtaining Proof

Four standard methods are used by Chinese doctors to obtain proof. Some of these methods are applied by Western practitioners



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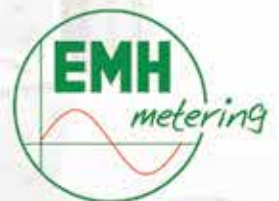
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Launching of Conway Showroom

Conway Terminals Manufacturer Sdn Bhd was incorporated in 1979. First started as a cable lugs and cable links manufacturer, Conway has since grown and now produces the full range of copper connectors, aluminium connectors and bi-metal connectors for both low and medium voltage applications. To serve its customer better, Conway has set-up a new showroom in Shah Alam, and TEEAM was invited to the launching ceremony which was held

on 23rd December 2014. It was a colourful event with lion dance performance.

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Launching of Conway Showroom @ Section 22 Shah Alam



..... Continue Chinese Medicine

as well as in examining a patient but with sometimes entirely different implications. These methods are:

a) Wang Zhen (望診)

Observation of external appearances, especially the face. Ancient Chinese medical treatise dictates that observing a patient is not to be a sub-conscious act, or a mere casual looking over. There are ten concrete and specific points to look into intensely in order to form an opinion of merit. They are the face, general physical bearing, eyes, tongue, large bones, teeth, flesh, finger prints, skin and hair. Take the facial features for instance. The eyes, lips and the ears are associated with the liver, pancreas and kidneys respectively. Any abnormality implies apparent or hidden illness.

b) Wēn Zhen (聞診)

Detection of possible smell of specific parts and general body odour of the patient. A patient is apt to emit a certain amount of

body odour which is characteristic of a particular disease. By listening to the sound made by the patient while he is conversing or respiring, an experienced doctor will get much information on the nature of a malady.

c) Wen Zhen (問診)

Verbal enquiries with the patient or his close ones. Chinese doctors list ten pertinent questions in this regard, namely the feeling of chill or heatiness, sweating, pain, excretion, appetite, chest congestion, hearing, thirst, general blood-circulation and body odour.

d) Qie Zhen (切診)

Feel the pulse. Of the four methods of seeking proof, feeling the pulse is regarded the most difficult to be comprehended by the layman, and perhaps the most mystical of the procedures, yet the so-called 'trump card' of the Chinese practitioners.

In Western medicine, feeling of pulse is merely a routine to check blood-flow and

heart-beat. But to the Chinese doctors, it should reflect some certainty as to exactly what and where the ailment lies within the body.

To show its complexities, there are altogether 28 types of pulse: floating, sinking, slow, rapid, smooth, hesitant, feeble, forceful, long, short, weak and scattered, just to name some of them. For instance, the floating pulse which can be felt by a light touch and which grows faint on hard pressure, is seen as the initial stage of a disease caused by exogenous factors, indicating the exterior of the body being affected. The sinking pulse can only be felt while pressing hard, showing that the disease is located in the interior of the body.

Moreover, the pulse may not be taken at the wrist alone. For example, the arterial junction at the inner aspect of the Radius, termed 'Cun Kou' (寸口) denotes normality or abnormality of the lungs, and possibly that of the digestive apparatus.





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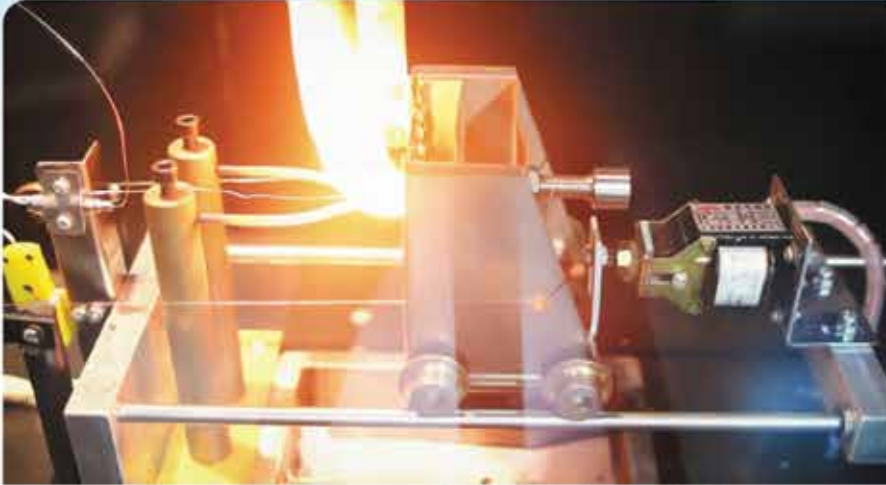
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Diagnostic Testing of Transformer Oil

This paper is prepared by Mr Antony Giacomini, TJH2b Analytical Services Pty Ltd.

In the case of transformers, any fault gas production is cause for concern (at least in the ideal case), as the energy required for fault gas formation should not be released during normal operation. Because of limitations imposed by design or by operation, transformers do produce some fault gas during normal operation for which acceptable levels exist. The standards for acceptable levels of gassing are usually established on the basis of past operational experience with specific types of transformers.

Rate of gas formation is also a very useful monitoring tool, as it provides an indication on whether or not condition is worsening and if so, how quickly. Testing transformer oil enables detection of incipient faults which can lead to failure. This is primarily achieved by the dissolved gas analysis test.

Case Study 1: Transformer

DGA Results (ppm)

Gas	Test 1	Test 2
Hydrogen	3246	4098
Methane	15941	21396
Ethane	4115	4860
Ethylene	27293	34664
Acetylene	168	247
Carbon Monoxide	187	251
Carbon Dioxide	6299	8158



Figure 1: Base of two bushing connections (left side has coking, right side is OK)

The two sets of results are over a one month period. All gases are increasing in content. Heating & arcing have taken place. Carbon dioxide level increased substantially compared with carbon monoxide indicating paper deterioration at low temperature.

The internal inspection revealed a loose bolt on the load side bushing connector that had developed a large coke formation. This formation lead to the arcing that had begun to deteriorate the connector.

Case Study 2: Transformer (2.5MVA, 11/0.415kV)

	16-Aug-07	7-Aug-09	28-Aug-09
Hydrogen	39	69	56
Methane	1	172	499
Ethane	<1	223	348
Ethylene	<1	744	1271
Acetylene	<1	<1	>1
Carbon Dioxide	4	91	76
Carbon Monoxide	52	1307	1764

These results clearly indicate that severe heating has developed between 16-Aug-07 and 7-Aug-09, primarily due to the increase in the ethylene level. Further increase in ethylene (and other gases) from 7-Aug-09 to 28-Aug-09 indicate that the fault is rapidly advancing which warranted an urgent internal inspection.

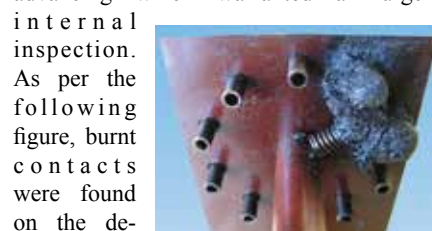


Figure 2: Burnt contacts on de-energised tap changer contacts

For enquiry, please contact Mr Henry Ang at henry.ang@tjh2b.com.my



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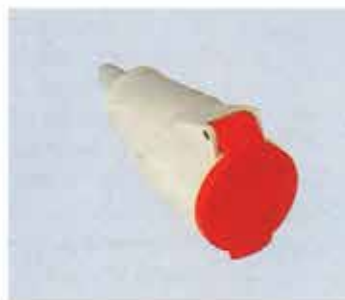
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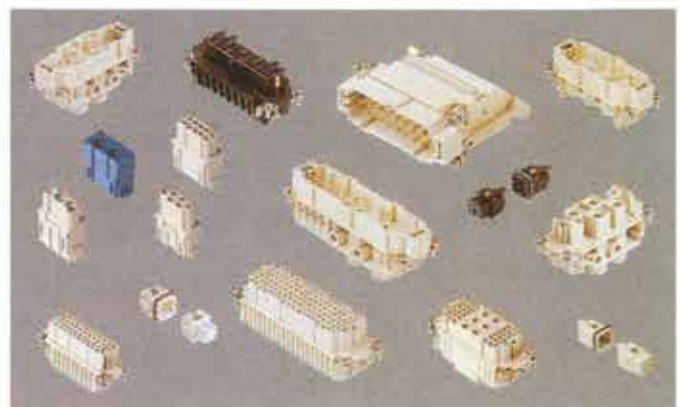
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