

ACEM Sabah & Sarawak News

ACEM 56th Anniversary Dinner

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ASSOCIATION OF CONSULTING ENGINEERS MALAYSIA

GOLD AWARD OF SPECIAL MERIT 2019

WINNER

First Quarter 2020



THE ASSOCIATION OF CONSULTING ENGINEERS MALAYSIA

2019/2020 SESSION

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Editorial

This issue of Suara Perunding reports the events in year 2019 and January 2020. Our focus for ACEM News is the 56th anniversary dinner held on 27 September 2019 at Double Tree by Hilton Hotel Kuala Lumpur, of which the highlight was the presentation of the ACEM Engineering Awards 2019. The ACEM 2019/2020 Directory has been issued to all members and others on our mailing list early of January 2020. We hope you have received your personal copy and again urge members to continuously update your company profile so that our Directory carries the latest information on the consulting engineering industry.

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MESSAGE FROM THE PRESIDENT



Dear ACEM Members and Readers,

Welcome back Suara Perunding and thanks are due to the special efforts of our new General Manager, Mr Ramli Ibrahim and Mr Ikram, our new IT Executive. They are also taking initiative to refresh our ACEM website to have a new and interesting look. Suara Perunding is our newsletter for members and readers to catch up on our activities and for information on matters of interests and future events.

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Some highlights on recent activities and future programs. On 4 December 2019 the Council had a courtesy call upon YB Baru Bian, the Minister for Kementerian Kerja Raya. Among the issues highlighted is the severe lack of job opportunities, on the request for ACEM representation on the Board of Engineers to be increased and the concern about unrecognised cost in our fees for compliance with recent laws, rules and regulations and technical requirements such as the OSHCIM, MACC Act 2018 and BIM. ACEM also requested for an annual dialogue with KKR to address issues on procurement, service contracts and performance.

On 5 February the IEM-ACEM Dialogue was revived. It was a very fruitful session. One major understanding is to form a joint task force to strongly promote the adoption of BEM Scale of Fees that is provided for by law under the Registration of Engineers Act.

Recently on 15 February we organised a special dialogue session between members and the Deputy Chief Minister of Penang YAB Datuk Ir Ahmad Zakiyuddin. This was in conjunction with the ACEM Talk for Practicing Engineers held in Pulau Pinang.

Look out for a series of workshop developed under a collaborative effort between the Malaysian Institute of Integrity (INTEGRITY) and ACEM on the guidelines for installing "Adequate Procedures" to protect firms against prosecution under Section 17a of the MACC Act 2018 that will come to force as of 1 June 2020. Under this Section, the management of a firm (consulting firms included) can be held liable if any of its employee commits a corrupt act unless adequate procedures are put in place. For a start the workshops will be for firms with ISO Certification or in the process of obtaining one. This is so that those Adequate Procedures could be incorporated into the ISO processes and procedures.

Look out too for Export of Services incentives under MATRADE. We have had a meeting with MATRADE, and planning is underway to organise attendance with financial assistance from the funds to FIDIC ASPAC Conference 2020 in Bangkok 14–16 June and FIDIC Infrastructure Conference 2020 in Geneva 13–15 September 2020.

Let us keep ACEM strong always and to continue being "the Voice of the Consulting Business and Industry".

Happy reading,

Datuk Ir Mohd Adnan President, ACEM

56th Anniversary Dinner

The Association celebrated its 56th Anniversary Dinner with over 450 members and guests on 21 September 2019 at DoubleTree by Hilton Hotel Kuala Lumpur. The evening also featured the installation of the ACEM President for Session 2019/2020, Datuk Ir. Mohd Adnan Bin Mohd Noor.











Datuk Ir. Mohd Adnan presenting his presidential address.







ACEM's Secretariat with the new President of Council 2019/2020



Some of the Council members for 2019/2020 and Miss Wong Pek Yin



Engineering Awards winners with the Datuk Ir. Mohd Adnan Bin Mohd Noor

The highlight of the evening was the presentation of the ACEM Engineering Awards 2019.



The awards for the winners



ACEM Gold Award 2019 winner, Allahyarham Ir. Dr Abdul Majid bin Dato' Abdul Kassim represented by his family.



ACEM Past President with the Council Members



T.Y. LIN INTERNATIONAL SDN BHD for their " Malaysia International Trade & Exhibition Centre (MITEC)"



PERUNDING ZKR SDN. BHD. for their "Besraya Eastern Extension (BEE) and Sg. Kerayong River Diversion"



ARUP JURURUNDING SDN BHD for their "Setia SPICE Convention Centre"



SEPAKAT SETIA PERUNDING (SDN) BHD for their "Bunus Phase 2 Centralized Sewage Treatment Plant, Kuala Lumpur"

New Members (January 2020)

Individuals

Name Ir. Leong Lai Ying Ir. Christopher Lee Poh Hock

Date 10 January 2020 10 January 2020

Cessation of Membership

(January 2020)

Individuals

- Name
- Ir, Foo Sin Yew Ir, Dr, Faisal B. Abdullah Ir, Sabirin B. Salamat Ir, Suhaimi B. Shamsuddin

Date 01 January 2020 08 January 2020 08 January 2020 10 January 2020



ARUP JURURUNDING SDN BHD

Setia SPICE Convention Centre

A convention centre with the largest column-free subterranean ballroom & the largest rooftop recreational park with pride of place in the Malaysia Book of Records

In 2010, Majiis Perbandaran Pulau Pinang (MPPP, now MBPP) proposed to redevelop and revitalise the then almost 20-year old Penang International Sports Arena (PISA) at Jalan Tun Dr Awang, Bayan Lepas by adding a new convention centre. The entire facility was developed under build-operate-transfer (BOT) by our client, SP Setia and renamed as Subterranean Penang International Convention & Exhibition Centre (SPICE).

Arup provided civil, structural and geotechnical engineering for the entire SPICE project including the Setia SPICE Convention Centre.

Building the new convention centre meant sacrificing an existing green park which was much used by the public for outdoor activities. Arup contributed significantly to a solution that went beyond the design brief by the state government and delivered an innovative solution within given constraints of space. That solution was to build the convention centre underground and use its roof for the new – and larger - green public space above it. This came to be called the Green Roof.

Recognised in the Malaysia Book of Records as the largest subterranean pillarless ballroom, the largest roottop recreational garden and the first hybrid solar powered convention centre, the 70,000ft² underground Setia SPICE Convention Centre with 40m column-free spans tucked under a 6-acer root garden is an end result that is both highly aesthetic and functional. With an area of 4,500m² that can fit 400 round banquet tables or 8,000 seats, the grand ballroom can be partitioned into four smaller halls for greater flexibility. The venue has turned out to be an iconic meetings, incentives, conferences and exhibitions (MICE) facility for the state with a recreational park on top.

Arup's innovative engineering solutions overcame the challenge of having a long span structure that needs to withstand heavy loading from soil and dynamic crowd loading on the **Green Roof** as well as potential water leakage into the convention centre.

- Theentire roof was designed as an integrated floor plate comprising 3.25m deep space grid trusses throughout working in unison with three 6.25m deep mega plane trusses to achieve greater rigidity.
- The space truss square grid top and bottom chord dimensions were 4.2m x 4.2m. This allowed
 optimisation of the space trusses matching the supporting column grids below. It allowed for direct
 load transfer to the columns which is the simplest and cheapest form of load transfer.
- Bespokegiant steel collars were designed to form a monolithic connection between the space grid trusses and their supporting RC columns, reducing the maximum deflection from 80mm to 40mm. This simplified steel fabrication process helped to reduce construction time and cost.
- Bespokenode design was customised with a series of fin plates protruding out from each node to
 receive the truss members, thus preventing overlapping of welding and allowed site tolerance during
 installation.
- Aninnovative drainage system was designed for the roof waterproofing where the roof slab was cast
 in a series of gentle peaks and troughs. The troughs collected water and channelled it into suspended
 rainwater drainage pipes beneath directed to a 100,000 litre rainwater harvesting tank used for irrigation.











Additionally, a significant feature that is emblematic of Setia SPICE is its sight-to-behold porte cochere. This leonic Roof consists of a flowing, three dimensionally curved single layered, latticed grid of approximately 113m span supported on only four corners. The challenge was to design a thin roof structure without excessive deflection despite the long span.

- Enhancedthe architect's vision of a free form, thin and elegant entrance roof statement via form-finding by adopting catenary system into space grid.
- Utilisedsliding supports to enable the release of horizontal forces and allow for thermal expansion and contraction.

Setia SPICE Convention Centre has become a thriving hub for local and foreign event organisers, serving the vision of the Penang state government and the client to establish Penang as a premier destination for world-class conventions and events. It has high usability and social usefulness as the public can easily access the green open space 24 hours a day.

Arup brought engineering skills that significantly contributed to this unique and iconic landmark in Penang, blending innovation with aesthetics, usability, constructability, maintainability and affordability.





T.Y. LIN INTERNATIONAL SDN BHD

Malaysia International Trade & Exhibition Centre (MITEC)

MITEC is currently the largest trade and exhibition centre in Malaysia. It has a total of 1.5 million square feet of gross floor area. The exhibition centre is equipped with 11 exhibition halls and 1 multipurpose hall built over three levels of triple-volume space. It also houses a number of conference halls, meeting rooms, an auditorium and one and a half floors of basement car park. The basic need statement provided by the client is generally tabulated in the following table:

Objective	The proposed MITEC shall take into account of the latest development in the Meetings, Incentives, Conferences and Exhibitions (MICE) industry and be made integration in terms of physical structure and concept of existing surrounding buildings and infrastructure.	
Exhibition Hall Column-free Floor Area	 Level1 : 18 x 30 m² Level2 : 18 x 30 m² Level3 : 72 x 180 m² 	
Exhibition Hall Headroom	 Level1 : 4.5 to 12 m Level2 : 4.5 to 9 m Level3 : 9 to 12 m 	
Exhibition Hall Floor Load Capacity	Level1 : 10 and 50 kN/m ² Level2 : 10 and 20 kN/m ² Level3 : 10 kN/m ²	

SIGNIFICANCE TO THE COMMUNITY

The creation of MITEC sets to meet the growing demands of the MICE industry in Malaysia. With 1 million square-foot exhibition space and the capacity to host heavy industry shows at the Level 1 exhibition halls which are designed for floor load capacity of SOkWm², MITEC provides Malaysia with the capability to compete with other countries in venturing into the 'mega exhibition' market, namely holding exhibitions and conventions which are able to accommodate over 100,000 visitors and up to 20,000 delegates respectively. Moreover, due to its high celling, it can be used as an international sporting venue and has debuted as such by hosting the 2017 Kuala Lumpur SEA Games and 2017 Para ASEAN Games.



SIGNIFICANCE OF ENGINEERING SOLUTION, ENVIRONMENT AND SOCIAL CONSIDERATION

The following are some special features of the building which are structurally challenging that require innovative engineering solutions to meet client's needs and architect's requirements while taking into consideration the cost, constructability, environment and social concerns:

1. Level 1 exhibition halls with floor load capacity of 50kN/m²

- 2. 6.2m long-span precast hollow-core slab for exhibition halls
- 3. 30m long-span post-tensioned beam for exhibition halls
- 4. 72m long-span main roof steel structure
- 5. C-shaped & S-shaped steel structure
- 6. 40m tall unbraced column at main concourse area
- 7. North entrance drop-off canopy structure
- 8. Glass lift structure with 36m tall RC columns as vertical main supports
- 9. 3D modelling, and elastic and non-linear analysis of the entire structure

ORIGINALITY, INNOVATION AND QUALITY OF ENGINEERING

The project was executed under a design-and-build contract for the superstructure work. Working as a consultant to a foreign main contractor, various engineering solutions which exhibited originality and innovation to resolve the construction problems, namely fabrication of about 6,000-tonne roof steel structure and erection of long-span Main Roof trusses, were brainstormed with other consultants and the contractor and eventually implemented. The quality of construction work was also strongly controlled and assured via consultants' supervision teams and independent testing. The project was awarded with "The Best Steel Structure Award" by Korean Society of Steel Construction (KSSC), Korea in year 2016.

CONSIDERATION OF SUSTAINABILITY AND MAINTAINABILITY

The consideration of sustainability is exhibited through the use of precast hollow core slab & trenches, structural steel system, reusable system formwork and rainwater harvesting tank. Maintainability is considered through the provision of special building features or equipment, namely syphonic rainwater drainage system, permanent fall arrest safety line, building maintenance units and lightweight heavy duty trench cover.

MEETING CLIENT'S NEEDS AND BUDGET

The developer, design team and the contractor worked cooperatively to complete the project within budget, on time and meeting the client's basic need statement. The project obtained accreditation from Construction Industry Development Board (CIDB) Malaysia with IBS scoring of 72.88.

VALUE TO THE PROFESSION AT LARGE

This project has provided the local engineering profession with the opportunity to acquire new knowledge and experience in mega-scale steel structure design and construction through the technology transfer from working with the foreign main contractor. The experience has come from the provision of engineering solutions and construction innovation in fabrication and installation of the complex roof profile. The successful completion of this project has brought us confidence that we are capable to venture into the international market and compete with other international companies for bigger scale special structure building developments.



ENGINEERING AWARDS 2019 BRONZE AWARD OF COMMENDATION

SEPAKAT SETIA PERUNDING (SDN) BHD

Bunus Phase 2 Centralized Sewage Treatment Plant, Kuala Lumpur

Bunus CSTP is a fully mechanized sewage treatment plant with an activated sludge treatment capacity of 750,000 PE. The liquid stream process treatment technology adopted is Sequential Batch Reactor (SBR) with biological nitrification and denitrification process incorporated to achieve the stringent ammonia discharge level of 2.0 mg/l and BOD5 of 5.0 mg/l as required by the Modified Standard A effluent discharge standard. Furthermore, other significant features such as full anaerobic sludge digestion system, full membrane effluent filtration treatment and methane gas harvesting for electricity generation have been successfully incorporated in this Project.

Sepakat Setia Perunding Sdn Bhd (SSP) was engaged by KL Bund Sdn Bhd (Project Delivery Partner to the Malaysian Government), to provide an alternative design that would save 20% overall capital cost minimum. SSP's design managed to reduce 33% land area requirement of the overall STP footprint; achieving the final construction cost saving of more than 20% as compared to that of the original Conventional Activated Sludge System (CAS) STP.

As part of the effort in river cleaning initiative under the River of Life Project, Bunus CSTP is designed to treat raw sewage to Modified Standard A effluent through 100% membrane filtration which is the highest effluent quality for its kind in Malaysia. This enabled Sungai Gombak and Sungai Klang to achieve Class IIB river water quality. The high-quality effluent produced in Bunus CSTP has the potential to be commercialised as non-potable water for industry usage besides the current reused at CSTP for chemical mixing and cleaning. Bunus CSTP also possesses energy-efficient features such as Variable Frequency Drive (VFD) technology to vary the blower speed to accommodate the fluctuating biological oxygen loading requirements. Other than that, methane gas harvested from anaerobic digester is stored and used as fuel for the Combined Heat Power Generator (CHP) and generating electricity for in-plant consumption.

They were many obstacles during the design and construction of this CSTP. The most notable challenge was to discharge the treated effluent to Sg Gombak located 1.64 km downstream of Bunus CSTP by gravity (pumping option was not considered due to high 08M cost in long term operation) crossing Sg Bunus which is located next to the CSTP with invert level of much lower than the downstream receiving manhole towards Sg Gombak. After much consideration and a hydraulic study, an inverted siphon was adopted for Sg Bunus river crossing. During construction, SSP encountered challenges in piling at limestone formation due to high variation in the rock formation level. SSP modified the pile shoes i.e. crown shoes which help the gripping of piles onto the rock surface.



Bunus CSTP has brought great positive impact to the community with a cleaner environment and better health quality by decommissioning 73 multi-point STPs. The odour and river water pollution due to poorly treated effluent at multi-point STPs had been permanently eliminated. From an economic perspective, cost-saving has been achieved from the Operation & Maintenance Cost (power and labour cost) of the 73 decommissioned STPs. The land of the decommissioned STPs and the buffer can be converted for development or other commercial activities which will create business opportunities to the local communities and stimulate the economy as a result.

SSP has received the "Excellent Consultant Award for Civil & Structural and Mechanical & Electrical 2017" from KGTTHA for the successful completion of this project. Bunus CSTP is the first large scale operating STP in Malaysia that meets the Modified Standard A effluent discharge standard. It sets a new national benchmark in the sewerage industry.







PERUNDING ZKR SDN. BHD.

Besraya Eastern Extension (BEE) and Sg. Kerayong River Diversion



BRIEF DESCRIPTION OF PROJECT

The Besraya Eastern Extension (BEE) was an extension of the Lebuhraya Sungai Besi (Besraya). With Links connecting Jalan Istana, MRR2 and Jalan Pandan Indah, this urban highway provided very good traffic dispersal and connectivity between the Eastern part of Kuala Lumpur (around the MRR2 and Pandan Area) and the Western and Southern parts of the City. It comprised a total of 12.3km of highway and link roads, with a grade-separated Ikan Emas Interchange and numerous connection ramps.

INTERFACING BETWEEN BEE AND SG. KERAYONG

Building a highway within the very urbanised Kuala Lumpur posed many challenges, and when Sg. Kerayong was also running along the selected highway corridor, the challenges became even greater.

This submission focused on the interfacing between BEE and Sg. Kerayong at a location where both crossed below the existing Jalan Loke Yew bridge.

There were two major challenges faced by the project in this area, namely that involved the highway alignments and the Interchange configuration, and the frequent flooding issues caused mainly by the constriction of SQ. Kerayong at the crossing below the existing Jalan Loke Yew Bridge.

In the original highway design consideration, the highway would cross below Jalan Loke Yew bridge and then over Sg. Kerayong, which meandered below the Jalan Loke Yew Bridge. The crossing over the river required that it be raised as high as possible to satisfy the designed 100-year ARI flood level with sufficient free-board, whilst the presence of the Jalan Loke Yew bridge above on the other hand restricted the extent to which the highway could be raised. These two conflicting requirements made the construction of the BEE below Jalan Loke Yew almost impossible. The design requirements of highway design speed, vertical height clearance, freeboard over the river, etc. cannot be satisfied. This thus called for a radical re-consideration of the design approach.

THE SOLUTION

After comprehensively assessing the existing site conditions and constraints, and "thinking out of the box", a "eureka" idea of realigning the River and "swapping" the corridor with that of the Highway was found to be the most innovative solution and would be beneficial for both the highway and the river.

By doing so, the highway's level could be maintained low enough because there was no more requirement for it to cross the river immediately upstream of the existing bridge. The functionality and constructability issues also fell in place and easily resolved. At the same time, Sg. Kerayong could be properly channelized (especially under the Jalan Loke Yew bridge) to provide maximum conveyance capacity to mitigate the flooding problems in the area.





The geometry of Ikan Emas Interchange loop was designed to a higher design speed of 40km/h (from 30km/h in original design) with bigger radius of 52m (from 38m) as it was no longer bounded and constrained by the river.

The proposed realignment of Sg. Kerayong was approximately 630m long, with 100m upstream and 530m downstream of the Jalan Loke Yew Bridge. The river channel sections were designed to be 20m (width) x 3.8m (depth) lined with L-sections. However, due to the space constraints of the existing pile-caps at the location of the Jalan Loke Yew bridge, a narrower and deeper section of 18m (W) x 4.0m (D) was proposed (compared to the original constriction of 15m(W) x 3.3m(D).) The original 'drop' of 1m along the existing Sg. Kerayong on the downstream of Jalan Loke Yew was relocated to the upstream side to lower the water level before the constriction of river channel below Jalan Loke Yew bridge, ensuring that the 100-year ARI flood level does not exceed the hindhway level.

This was a case of "one solution for two problems" where one engineering solution provided benefits to two major public infrastructures, viz. the highway and the river in the area, without any increase in construction cost and land acquisition.

The diversion of the river took 1½ years (18 months) to complete, and the new river channel was officially opened on 19 June 2013. After the completion of the river realignment, the Ikan Emas Interchange and other connecting works proceeded as designed. And the overall Besraya Eastern Extension was completed and opened to traffic in April 2014.



ACEM Gold Award 2019



Ir Dr Abdul Majid bin Dato' Abdul Kassim

Ir Dr Abdul Majid bin Dato' Abdul Kassim, born on 19 June 1958, was an eminent and respected figure in the engineering fraternity in Malaysia. He graduated from the University of Edinburgh with first class honours in 1982 and continued on to do his doctorate and obtained his PhD in Civil Engineering in 1986.

Dr Abdul Majid is honoured today for his outstanding and significant contributions to ACEM and to the advancement and development of the engineering consultancy industry in this country.

Dr Majid has been an influential role model for the industry. He joined the ACEM Council in 2001 and was the President from 2008 to 2010. His rise to the post of President was unorthodox as he was elevated to it from an ordinary Council Member without ever holding the post of Deputy President or Secretary. Assuming the post of ACEM President on 21 June 2008 has propelled this "man of few words" into the limelight. Taking charge to advocate members' issues along with his mission of professionalism, Ir. Dr. Abdul Majid was in the forefront to speak up for ACEM and the industry - in various meetings, forums and dialogues with Government agencies and allied professional organisations. Albeit a reluctantly appointed President, Dr. Majid went on to become one of our greatest Presidents, accomplishing many of the Association's aspirations and raising its profile in the Government, engineering bodies, media and public.

One of the key aspirations for ACEM for a long time has always been representation in the Board of Engineers in order for us to effectively champion our causes and voice our member's grievances. During his tenure as ACEM President, the Council had nominated Ir. Dr. Abdul Majid to represent ACEM in the BEM Board but failed to be appointed. However, this did not deter him from working for BEM and in the two years, he worked hard to build his credibility with the BEM Committees. During his first year as ACEM Immediate Past President, the Council again submitted Ir. Dr. Abdul Maiid's name as one of ACEM's nominees for the BEM Board. This time, Ir. Dr. Abdul Majid was appointed by the Minister of Works as a BEM Board Member with effect from 23 August 2010. After his appointment, he continued to demonstrate to BEM the invaluable contributions ACEM could bring to BEM and this paved the way for other ACEM members to be nominated to the BEM Board and committees.

Ir. Dr. Abdul Majid continued his term as BEM Board Member for the full five years until 22 August 2015. From 2010 – 2016, he has held the Chair of BEM's Engineers Act Committee and was a Member of BEM's Professional Practice Committee, Scale of Fees Committee and E&Q Committee. He was reappointed as BEM Board Member on 23 August 2016.

Dr. Majid was the key architect of the 2015 amendments to the Registration of Engineers Act (REA). He started working on the amendments to the REA in 2009 during his

presidency in ACEM and continued working on it in BEM as the Chairman of the Engineers Act Committee. He worked tirelessly on the amendments, meeting up and working with the MOW's legal advisers, the AG office, the KSU and Minister of Works up until gazetting of the REA amendments in 2015. In fact, he spent weeks at the Parliament to answer all queries raised on the amendments in order to make sure that it was passed. The 2015 amendments to the REA unlike the few earlier amendments are far reaching and until today its impact is still felt. The amendments, amongst others, includes opening up of the profession to foreign engineers; new registrations for PEPC, engineering technologists and IOWs; a second-tier examination for the Practicing Certificate and changes to the structure of ECPs.

Dr Majid was also instrumental in the setting up of the Professional Competency Examination (PCE). With a grant from the Government, Dr Majid mobilised ACEM to set up the framework for the PCE exam and upon completion this framework was passed on to BEM to use for the PCE examination. Until today, the PCE exams undertaken by BEM are still using the framework advocated by ACEM under Dr. Majid's leadership.

It was also during Dr. Majid's presidency that Greenbuilding Index Sdn. Bhd. was set up by ACEM together with Pertubuhan Akitek Malaysia (PAM). Dr. Majid maintained that this initiative would be able to create more business opportunities for its members in addition to supporting the sustainability agenda. Dr. Majid served as a Director and Accreditation Panel Member of Greenbuilding Index Sdn. Bhd. for the term 2009/2010.

Dr. Majid was very active in the setting of standards for the industry serving on many SIRIM committees. He chaired the drafting

committee for the Malaysian Standards for reinforcement and pre-stressing steel for concrete. He was also a council member of the Standards and Accreditation Council under MOSTI.

Dr. Majid sat in many investigation committees representing BEM including the roof collapse of the Stadium Sultan Mizan Zainal Abidin in Kuala Terengganu and the collapse of the Second Penang Bridge ramp in Batu Maung. In 2013, Dr. Majid was appointed by the Minister of Works as a member of the Expert Panel to review practices in the construction industry. The Expert Panel came up with clear recommendations which would revamp the construction industry especiall y in respect of safety in the construction industry. These recommendations were incorporated into CIDB's Construction Industry Transformation Plan.

These are only just a few of the challenges taken up by Dr. Majid during the time he was with us. There are so many more issues that he took up and so many more challenges that he strived against. For those of us who were with him during these times know of Dr. Majid's dedication, passion and how relentless he was in pursuit of his convictions to make our profession better. He was always honest and sincere in his service towards the advancement of our profession.

Dr. Majid passed away on 17 December 2016 of heart attack. Today we honour him as a dedicated professional and a champion of initiatives that support the advancement of the engineering fraternity. His passing is a huge loss to all of us in ACEM and in the construction industry.

SARAWAK & SABAH NEWS

Sarawak

Evening Talk on "Diesel Generator Noise and Exhaust Emissions and their Regulatory Requirements in Malaysia"



The Association of Consulting Engineers Malaysia (Sarawak Branch) has been organizing evening talks since June 2019 until present. The talks are held from 5.30 pm to 7.30 pm at ACEM (Sarawak Branch) Training Room, Kuching. It is opened to engineers to upgrade their knowledge in the industry of engineering. An Evening Talk on "Diesel Generator Noise and Exhaust Emissions and their Regulatory Requirements in Malaysia" was held on 16th October 2019 at ACEM (Sarawak Branch) Training Room Kuching. The speaker was Ir. Tnay Choon Hwa.

YCC member presented a Certificate of Appreciation to Ir. Tnay Choon Hwa

Meeting on Sarawak Building Ordinance 1994 on 5th November 2019

Jabatan BOMBA dan Penyelamat Malaysia Negeri Sarawak organised a Meeting on Sarawak Building Ordinance 1994 on 5th November 2019 at their Headquarter. The meeting was attended by Ir. Christopher Lee Poh Hock, Ir. Anthony Tiong King Siong and Mr. Francis Chieng from ACEM (Sarawak Branch) and representatives from PAM (Sarawak Chapter). The meeting discusses on the amendment to the Sarawak Building Ordinance 1994 Part VI Fire Requirements, Schedule E, Schedule J and Schedule I.



Discussion during the meeting at BOMBA Kuching Headquarter

Sarawak Urban Stormwater Management Guideline (SUStoM) Workshop

The Department of Irrigation and Drainage Sarawak invited representatives from associations, councils and local authorities to the "Sarawak Urban Stormwater Management Guideline (SUStoM) Workshop on 28th November 2019 at Grand Dormani Rajah Court Kuching. ACEM (Sarawak Branch) was represented by Ir. William Tan Khoon Lee and Ir. Wong Sie Ung.The workshop includes discussion and brainstorming session among all the stakeholders in relation to stormwater management, particularly work processes and also checklist for SUStoM.

Sabah

ACEM Sabah Members Gathering 2019 Date: 13 December 2019





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MITEC