APRIL — JUNE 2016 (2ND QUARTER) e-bulletin at http://ensearch.org/resources/

ENVIRONMENTAL MANAGEMENT & RESEARCH ASSOCIATION OF MALAYSIA (ENSEARCH)
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BRIEF HISTORY OF ENSEARCH

ENSEARCH was formed in 1984 by a pioneer group of local professionals and academics from multidisciplinary backgrounds. Its first President (1984-2000) was Ir. K. Kumarasivam and its first Hon. Secretary General was Dato' Dr. Abu Bakar Jaafar. Today, ENSEARCH has more than 300 members consisting of corporate, individual and life members.

It is acknowledged that enhanced awareness and capacity building of organizations and individuals through education and training is essential to achieve the objectives of Malaysian Environmental Quality Act, 1974.

Therefore ENSEARCH began formulating and implementing training programs to enhance the capacity for environmental management in Malaysia.

In addition, ENSEARCH organizes Tea Talks and Public Lectures to enhance awareness on pertinent and comprehensive issues on the environment.

ENSEARCH has also been actively involved in dialogue sessions with relevant authorities in development of legislative and regulatory frameworks that are supportive of good environmental management practices.

In recognition of ENSEARCH's objectives, it has been given tax-exempt status whereby the donations to ENSEARCH are exempted by from tax.

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"Climate change is real. It is happening right now. It's the most urgent threat facing our entire species and we need to work collectively together and stop procrastinating"

- Leornado DiCaprio -

Editor's Note

ENSEARCH

is a non-profit association of organizations, professionals, students and people with interest in learning and promoting effective ways to manage the impact of human activities on the environment.

We at ENSEARCH believe that everyone is responsible for managing and mitigating the impacts of their corporate, professional and daily living activities on the environment.

ENSEARCH is also involved in indigenous fruit tree species conservation and poverty eradication through its project Cyber Plant Conservation Network

www.cpcnet.atbioversity.net

Dear Ensearch Members,

Welcome to the second edition of the 2016 Ensearch Bulletin. As we enter the second half of the year, we have lined up a host of events for the benefit of our members as well as any other interested parties.

Coming up in July is one of Ensearch's major event for the year, the eagerly awaited Sustainability and Environmental Management Conference and Exhibition (SEM) taking place on 25th and 26th July held at the Sunway Putra Hotel, Kuala Lumpur. This is followed by a series of trainings lined up from now till November.

In May we had our Annual General Meeting (AGM), which saw three new council members were elected or co-opted. We proudly welcome Dato Ir Othman Bin Abdul Rahim, Mr Tan Poh Aun and En. Mohd Iskandar Shah Bin Mohd Ali to the team and they are looking forward to serve the members through the Ensearch Council.

Lastly, I would like to take this opportunity to wish all our Muslim members and friends a very festive Selamat Hari Raya Aidil Fitri.

Khoo Boon Keat

Chairperson,

Website & Publication

VISION

"Malaysians are environmentally aware and are committed to taking personal responsibility to manage and mitigate the impacts of their corporate, professional and daily living activities on the environment"

MISSION

"To promote excellence in environmental management among organizations, professionals and interested persons"

FEATURED Council Member

Vice President II ENSEARCH 2016/2017

Mr Akashah Haji Majizat

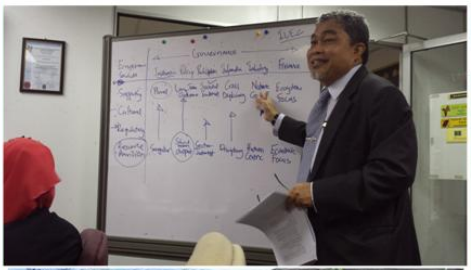
Akashah Haji Majizat, the present ENSEARCH Vice President II is our feature member this issue. En. Akashah was first inducted to ENSEARCH by the late Ir K.Kumarasivam, having earlier been introduced to Ir K.Kumarasivam by the late Prof Matsumoto Junlchiro in 1997.

En Akashah was born in 1959 in Segamat, Johor, and graduated from University of Technology Malaysia (UTM) in 1983 with a Bachelor's degree in Civil Engineering. He later pursued his Masters in Environmental Engineering at Nihon University, Japan. He has also acquired knowledge in the management of wetlands from attending the International Course on Wetlands Management, WATC, by the Dutch Water Management Agency's (RIZA). He is currently the Principal of Eco Development Facilities Sdn Bhd.

En. Akashah's expertise and vast experience in lake and wetlands management made him a suitable choice to head the Putrajaya Corporation's Environmental, Lake and Wetland Management Division in 1999, where he served for 15 years until 2014. Among his many responsibilities, includes the planning, development and awareness programs for stakeholders of the lake and wetlands. The position of a wetlands manager is the first of its kind in Malaysia, and to date, none of the other lake and wetlands in Malaysia has been managed in such dedicated manner.

His services and contributions to his profession have earned him vast recognition and he has been bestowed the Kesatria Mangku Negara (K.M.N.) in 2011 and Excellent Service Awards, Perbadanan Putrajaya in 2006 and 2013. During his tenure in Putrajaya Corporation, the Putrajaya Wetlands has received many awards and recognitions such as Excellence Award "The Ecohydrology Management of Lake in Putrajaya Urban Ecosystem" of Malaysia Landscape Architecture Award 2013, Malaysia Book of Records for "The Largest Participants in a Fishing Event" 2012, Gold Award in Ecohydrology Management in Lake in Putrajaya Urban Ecosystem at International Awards for Liveable Communities Al-Ain City at UAE 2012, and the Operation Site of UNESCO – IHP Ecohydrology Programme of Integrated Management of Putrajaya Lake and Wetland 2011, which Putrajaya Lake and Wetland is one of the seven such sites in the world.

En Akashah is also member of Malaysian National Lake Technical Committee which was set up by NAHRIM and ASM. En Akashah is a father to three children. Besides Bahasa Malaysia and English, he is also proficient in the Japanese language. For his recreation, he enjoys travelling, reading and collecting coins.



FEATURED ARTICLE

Challenges in Scheduled Wastes Management During the Demolition of Old Generation Thermal Power Plants in Malaysia

Ir Dr Casey S.P. Ngo and Vincent C.L. Ngo

In 2014, thermal power generation through firing of coal, natural gas and distillate fuel oil accounts for approximately 95% of the national electricity generation mix in Peninsular Malaysia (Energy Commission, 2014). Old generation power plants after our independence in 1957 operated by *Lembaga Letrik Negara (LLN)* (now known as Tenaga Nasional Berhad, TNB) are thermal power plants using medium fuel oil (MFO) as fuel. Examples of such plants are as follows:-

3 x 120 MW thermal power plant built in 1980 in Prai, Penang (demolished in 2002 and the site had since been re-developed into a 1,071 MW combined cycle gas-fired power plant).
2 × 90 MW thermal power plant built in 1983 – 1984 in Connaught Bridge, Klang, Selangor Darul Ehsan. The plant was converted to gas turbines firing natural gas and distillate fuel in May 1993.
2 x 120 MW conventional steam plant in Sultan Iskandar Power Station (SIPS), Pasir Gudang, Johor Darul Ta'zim. The plant had been decommissioned and in standby mode since 2012.

The key driving force in phasing out these thermal power plants are the use of MFO (sulphur content ~ 3.5 wt%). Old generation power plants are not equipped with any air pollution control systems such as acid gas scrubber to remove the resulting pollutant in the form of sulphur dioxide (SO_2). In view of the impending gazettement of the Environmental Quality (Clean Air) Regulations 2014 on 4th June 2014, the Department of Environment (DOE) had actively been issuing notices to facilities using MFO as boiler fuels (i.e. palm oil mills, textile plants etc), urging these industries to switch to cleaner fuels such as light fuel oil (sulphur content ~ 0.5 wt%).

The decommissioning and subsequently the demolition of old thermal power plants pose immense challenges in scheduled wastes management, namely because the plant was developed prior to the implementation of the Environmental Quality (Scheduled Wastes) Regulations 1989 and later superseded with the Environmental Quality (Scheduled Wastes) Regulations 2005. Compliance to environmental laws and regulations is always the only driving force for industries as protection of environment is a negative investment and as such, most often not given key priority. The Environmental Quality (Scheduled Wastes) Regulations 2005 gave much clearer delineation and categorisation of hazardous waste into specific codes and this has in some ways assist in demolition project planners in planning for the management of demolition wastes containing scheduled wastes.

Other challenges faced by these planners are the lack of documentations in particular related to the design of the old power plants as well as servicing and maintenance records which are important documents to be reviewed and assessed in the process of identifying and preparing inventory of the scheduled wastes to be disposed. This article presents the actual case study of the management of scheduled wastes during the course of demolition of the 3 x 120 MW thermal power plant in Prai, Penang. The demolition process spanned nearly a decade due to disputes involving the project owner and demolition contractors on the ownership of the scheduled wastes, some of which are valuable such as spent lubricating oil from transformers (SW 305), electrical cables laden with thick copper wirings (SW 110) and scrap metals contaminated with oil (from demolition of MFO tank farm and associated piping) (SW 409). It is hoped that this article will give an insight into the importance of identifying and estimating the amounts of the scheduled wastes during the course of the demolition works as the improper handling by incompetent demolition contractors will easily lead to violation of the many sub-regulations within the Environmental Quality (Scheduled Wastes) Regulations 2005, eventually tarnishing the project owner's image as the accountability belongs to the waste generator.

The identification process starts with the review of the design and engineering drawings for the development of the power plants. Systematic approach such as dividing the plant into several physical sections (such as tank farm, wastewater treatment plant, turbine hall etc) will enable the identification of the potential scheduled wastes that will be generated. Such approach entails examination of the piping

Challenges in Scheduled Wastes Management During the Demolition of Old Generation Thermal Power Plants in Malaysia

Ir Dr Casey S.P. Ngo and Vincent C.L. Ngo

and instrumentation diagrams of each process so that all angles are exhausted and there is little possibility that some potential scheduled wastes (no matter how small the amount) will not be unaccounted for. **Table 1** shows the typical list of scheduled wastes expected from the demolition of such power plant.

Table 1: List of Potential Scheduled Wastes Generated from Old Generation Thermal Power Plant

SW Code	Descriptions	Sources
SW 102	Wastes of lead acid batteries in whole or crushed form	Central Control Room (CCR)
SW103	Used batteries containing cadmium or nickel or mercury or lithium	Central Control Room (CCR)
SW 104	Dust, slag, dross or ash containing aluminium, arsenic, mercury, lead, cadmium, chromium, nickel, copper, vanadium, beryllium, antimony, tellurium, thallium or selenium excluding slag from iron and steel factory	Hopper of chimney
SW110	Wastes from electrical and electronic assemblies containing components such as accumulators, mercury-switches, glass from cathode ray tubes and other activated glass or polychlorinated biphenyl capacitors, or contaminated with cadmium, mercury, lead, nickel, chromium, copper, lithium, silver, manganese or polychlorinated biphenyl	Central Control Room (CCR) All electrical fixtures within the plant such as fluorescent lightings, ballasts etc All electrical cables Computers and their accessories i.e.cathode ray tube (CRT) monitors
SW 201	Asbestos wastes in sludges, dust or fibre forms	Roofing of old buildings Insulations for machineries
SW 204	Sludges containing one or several metals including chromium, copper, nickel, zinc, lead, cadmium, aluminium, tin, vanadium and beryllium	Metal hydroxide sludges from wastewater treatment plant
SW 305	Spent lubricating oil	Transformers All plant machineries using lubricants such as motors
SW 306	Spent hydraulic oil	Hydraulic machineries such as cranes etc
SW 307	Spent mineral oil-water emulsion	Oil water separators from tank farm Oil and grease traps at fuel loading bay
SW 311	Waste of oil or oily sludge	Sludge from oily water separators
SW312	Oily residue from automotive shop, service station oil or grease interceptor	Oil and grease traps at fuel loading bay
SW 404	Pathogenic wastes, clinical wastes or quarantined materials	From dispensary (clinic) in the power plant

Challenges in Scheduled Wastes Management During the Demolition of Old Generation Thermal Power Plants in Malaysia

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SW Code	Descriptions	Sources
SW 408	Contaminated soil, debris or matter resulting from cleaning-up of a spill of chemical, mineral oil or scheduled wastes	Clean up of areas contaminated with oily materials such as workshop, transformer bay and tank farm
SW 409	Disposed containers, bags of equipment contaminated with chemicals, pesticides, mineral oil or scheduled wastes	Drained transformer units (contaminated with lubricating oil but usually sold to scrap metal dealers as scrap metal due to the huge amount of copper coils to be recovered from the solenoid)
SW 410	Rags, plastics, papers or filters contaminated with scheduled wastes	Soiled gloves, rags and matters used during the cleaning and flushing of MFO tank before cutting of the steel plates Air filters for plant machineries and heavy vehicles
SW 422	Mixture of scheduled and non-scheduled wastes	Brickliners from windshield of chimney Oil-filled circuit breakers at switchyard
SW 429	Chemicals that are discarded of off-specification	Unused chemicals from wastewater treatment plant
SW 430	Obsolete laboratory chemicals	Expired chemicals in the laboratory

By and far, the key challenges faced involved the handling of the following scheduled wastes:-

1. Electrical panels and cables
2. Chimney and windshield
3. Oil-filled circuit breakers at the switchyard
4. Transformers at switchyard

FEATURED ARTICLE

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Electrical Panels and Cables

These are the most valuable scheduled wastes and depending on the waste characteristics, SW 110 can fetch a lucrative selling price of approximately RM4 per kg i.e. the waste generators can 'sell' these wastes to recovery facilities instead of 'paying a disposal fee'. Prior to the gazettement of the Environmental Quality (Scheduled Wastes) Regulations 2005, there is no clear classification of electrical and electronic wastes as scheduled wastes. Traditionally, scrap metal dealers will buy electrical panels cables from waste generators in bulk and salvage the metals (iron and copper). The circuit boards and copper wiring are usually burnt in uncontrolled manner (i.e. open burning) to strip off the matrices to obtain the precious cables contained within. Electrical cables are most often mishandled because most parties will conveniently declare the materials as scrap metals especially those containing thick copper wires (**Figure 1**) which is synonymous with those used in the power generation and distribution sector.

The issue lies in the methods the scrap metal dealers 'recover' the copper wires i.e. by open burning. The insulation of electrical cables contained brominated and chlorinated flame retardants and when burnt, will generate toxic smokes i.e. hydrogen bromide and hydrogen chloride, which are also precursors to acid rain. The practice is so lucrative for small time scavengers that rampant burning of these electrical components and cables can be seen at secluded places (**Figure 2**). This issue had been highlighted by the Department of Environment (DOE) Malaysia so much so that a guideline had been issued to include electrical wires as SW 110 (**Figure 3**).

This is one of the key reasons facilities involved in the recovery and recycling of used electrical cables and SW 110 are licensed by DOE (**Figure 4**) as prescribed premises as these facilities are required to apply controlled burning (in combustors, furnace or incinerators) for these materials and then treat the resulting flue gas in air pollution control systems such as acid gas scrubbers or equivalent.

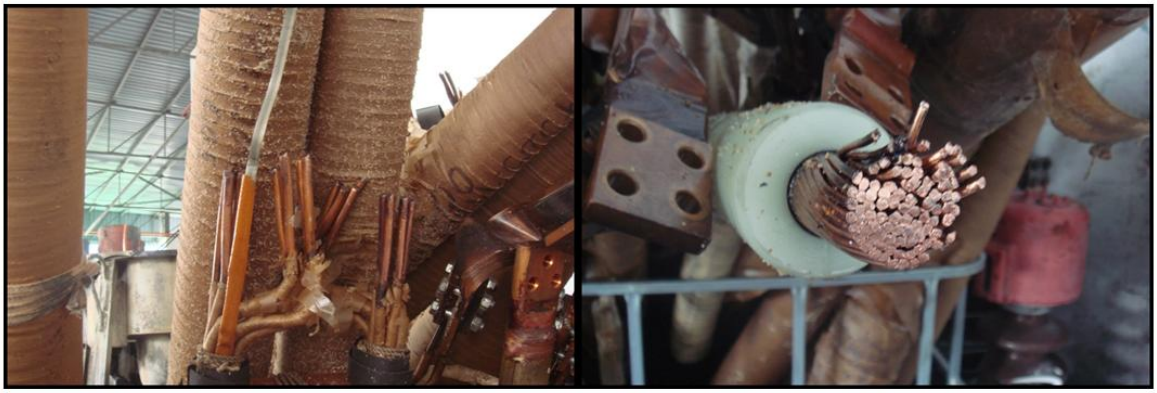

Figure 1: Precious Metals (Copper) Contained within the Electrical Cables and Assemblies

FEATURED ARTICLE

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Figure 2: Open Burning of Electrical Cables to Obtain the Copper Wires by Some Scavengers at Secluded Location

Figure 3: Extract from The Guidelines for the Classification of Used Electrical and Electronic Wastes in Malaysia (Published by the Hazardous Substances Division, Department of Environment Malaysia, 15th January 2008)

CATEGORY OF E-WASTE

6. The following electrical and electronic equipment or components that are destined for recycling or recovery or disposal are considered as e-waste. This list however is not exhaustive.

- Used television
- Used air-conditioning unit
- Used computer
- Used refrigerator
- Used washing machine
- Used video recorder
- Used pendaflour light / flourescense light
- Used telephone
- Used photostate machine
- Used facsimile machine
- Used microwave / oven
- Used radio
- Used printers
- Used audio amplifier
- Used cathode ray tube (CRT)
- Used electric cable
- Used mobile phone
- Used motherboard
- Used hard disk drive
- Used printed circuit board
- Used waste metal contaminated with heavy metals such as cadmium, mercury, lead, nickel, chromium, copper, lithium, silver and manganese
- Used lead frame
- Used patterned wafer
- Used ink cartridges
- Used or rejected or waste of integrated circuit
- Used electrical and electronic equipment/product imported from other countries
- Wastes or products processed out of the partial recovery facilities

FEATURED ARTICLE

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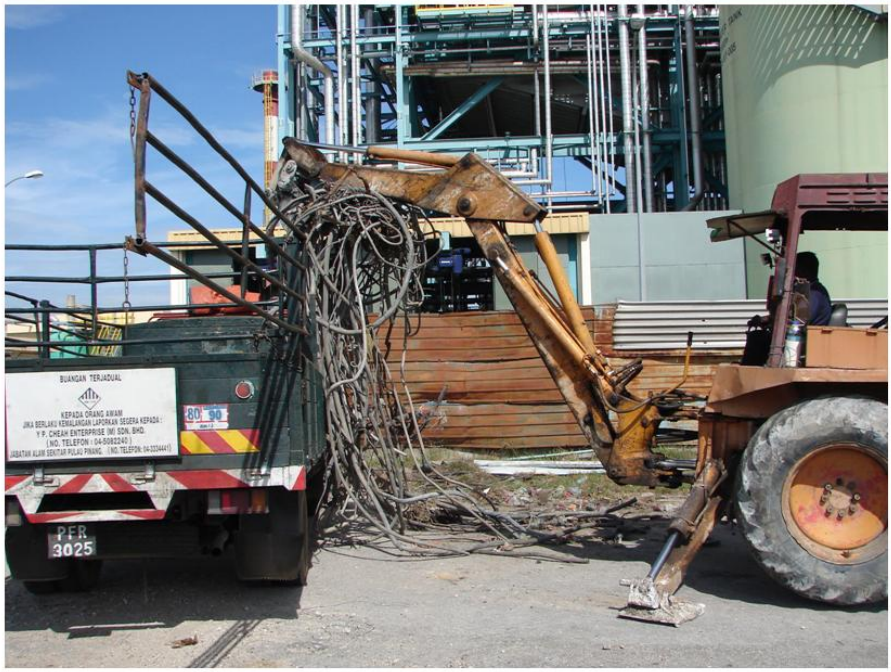


Figure 4: Electrical Cables Shall Be Disposed to Prescribed Premises Licensed for Scheduled Wastes Code SW 110 (Partial or Full Recovery)

—- PART 2 OF THIS ARTICLE SHALL BE CONTINUED IN THE NEXT EDITION OF BERITA ENSEARCH —-

About the Key Author

Ir. Dr. Casey Ngo is a chemical engineer by training with scheduled wastes management registered as one of her field of expertise with DOE Malaysia under the EIA Consultant Registration Scheme. Her first involvement in consultancy project involving scheduled wastes was assisting (via EIA study) a Singaporean-based company to establish the first SW 110 full recovery plant in Penang from 1999 to 2001. She attained her actual experience in dealing with the management of scheduled wastes by joining the same SW 110 facility from June 2006 to May 2007 as its Environmental, Health and Safety (EHS) Manager. During her tenure in the said recovery facility, she was the Programme Manager for DELL Battery Recall Programme in Asia Pacific and Japan (covering 16 countries) and tasked to handle transboundary movement of hazardous wastes according to the Basel Convention. She was involved for permitting requirements directly with the regulatory bodies in Singapore, Hong Kong, Australia and Switzerland. After leaving the SW facility, she continues to be actively involved in scheduled wastes management studies, ranging from EIA, environmental audits and scheduled wastes spillage clean ups projects.

ENSEARCH welcomes any interested readers to send in their articles to be featured in upcoming Berita ENSEARCH. Articles must be at least 2 pages long, written in Times New Roman, font 11. Articles can be sent to po@ensearch.org.

EVENTS AND ACTIVITIES

SGP GEF CPS CONSULTATIVE WORKSHOP

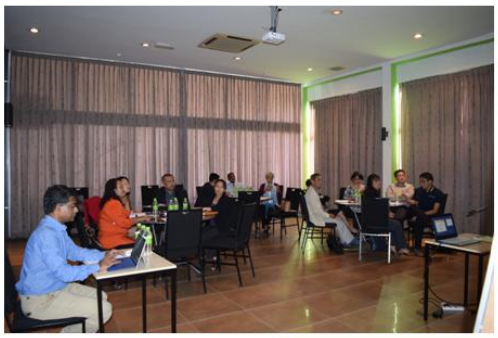
Date : 4th, 6th and 7th April 2016
Time : 9.00 am—5.00 pm
Venue : Kelab Golf Negara Subang (KL), Sky Hotel (Kota Kinabalu) & Limetree Hotel (Kuching)
Summary :

ENSEARCH was appointed by UNDP to carry out the Small Grant Project Country Program Strategy workshop in preparation for the OP6 cycle of SGP grants. The project aims to prepare document which will serves as the guideline for SGP Grantees to see what will be the prioritization for the upcoming grants cycle.

As part of the requirements to prepare for the document, consultative sessions were held with various stakeholders including NGOs, SGP Grantees and government agencies to give briefing on the SGP grants as well as the direction of the OP6 cycle.

The workshops were held at three states; Kuala Lumpur, Sabah and Sarawak. A total of 68 participants have attended the workshops from various organizations and agencies. The workshop, coordinated by Dr Hari Ramalu of ENSEARCH, engaged with the participants in one day consultative sessions, sharing ideas, concerns and opinions.






EVENTS AND ACTIVITIES

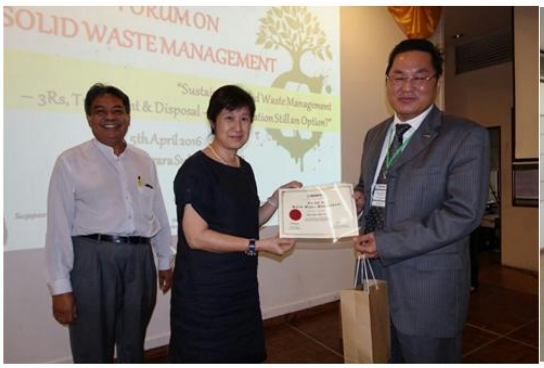
FORUM ON SOLID WASTE MANAGEMENT

Date : 5th April 2016
Time : 9.00 am—5.00 pm
Venue : Kelab Golf Negara Subang
Summary :

On 5th April 2016, ENSEARCH has organized a "Forum on Solid Waste Management" at Kelab Golf Negara Subang. With the support from the Department of Environment (DOE) and the National Solid Waste Management Department (JPSPN) Malaysia, the Forum covered policies, case studies and technologies.

Presenters Mr. Azmi Mohd. Ali of JPSPN, Mr. Faizal Ariffin of the Department of Environment (DOE), Dr. Rosli Mohamed Hussin of Subang Jaya Municipal Council (MPSJ), Mr. William Tan of SP Multitech, Ir. Muralindran K. of ResourceCo Asia and Mr. David Zon of Hi-Tech Waste Management all provided plenty of insights. Mr Joel Lawrence Jayasunthar and Mr Ravindran Raman Kutty moderated the Q&A session and Panel Discussion respectively.

In summary, there was consensus that there is sufficient legislations and regulations for the Solid Waste Management sector. However, environmental education and awareness, commitment from the various sectors to ensure sufficient infrastructure is available and the building of human capacity must be addressed seriously to take Solid Waste Management forward so our country's recycling rate can be improved and the nation's carbon emissions reduction targets can be met.



EVENTS AND ACTIVITIES

ENSEARCH 32ND ANNUAL GENERAL MEETING

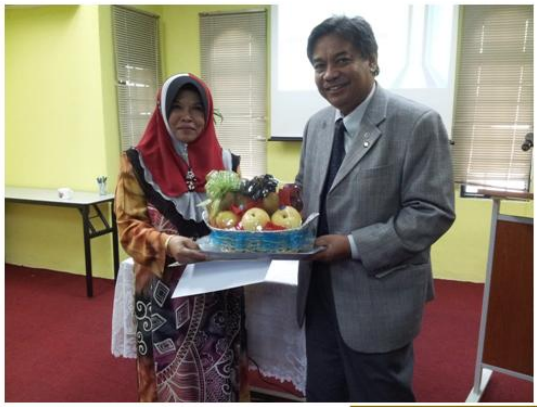
Date : 19 May 2016
Time : 9.30 am—1.00pm
Venue : ENSEARCH Training Centre
Summary :

ENSEARCH 32nd Annual General Meeting was held on 19 May 2016 at the ENSEARCH Training Centre, Kota Damansara. The meeting started with the presentation of Ms Rajeswary A/P Gunasesaran, the 2015 KKEF Young Environmentalist Internship Award winner, whom presented her two weeks internship experience at Philippine Centre of Environmental Protection and Sustainable Development Inc (PCEPSDI) entitled Green Paradigm for Sustainable Business: The Best Practices in the Philippine.

The meeting was graced by the presence of Puan Siti Zaleha, the director of Selangor State Department of Environment, on behalf of Dato' Dr Ahmad Kamarul Najuib Che Ibrahim, Director General of Department of Environment Malaysia to give key note presentation on EQA 1974: The Future of Environmental Legislation in Malaysia.

The annual general meeting commenced with quorum established, attended by ENSEARCH members. The present council for session 2016/2017 is as follows:

President	:	Mr K.N. Gobinathan
Vice President I	:	Dr Foo Say Moo
Vice President II	:	Mr Akashah Haji Majizat K.M.N.
Hon. Secretary General	:	Ms Geetha P Kumaran
Hon. Treasurer	:	Ms Jenny Tan Suat Eam



ANNOUNCEMENTS

ENSEARCH
For a Better Environment

TRAINING

HSE PERFORMANCE AND COMPLIANCE FOR CONSTRUCTION INDUSTRY

Date: 2nd—3rd August 2016 (Tuesday & Wednesday)
Time: 8:30 am — 05:00 pm
Venue: ENSEARCH Training Centre
30-3, Jalan PJU 5/16, Dataran Sunway, Kota Damansara,
47810 Petaling Jaya, Selangor

Overview

The Construction Environmental, Health and Safety Management training program is designed for both EHS and non EHS professionals. The main trust of the training is to identify the EHS issues in the construction segment and explore practical and cost effective ways and means to overcome these issues. Some of the key topics are:

- Legal requirements
- EHS hazard identification
- H&S issues in at the construction site
- Environmental issues in at the construction site
- Developing an EHS Plan for the construction site
- Contractor Management

The training program will be an interactive session with hands on activities and workshop discussions.

Objectives

1. Understand the EHS issues at a construction site
2. Explore ways to effectively manage these EHS issues
3. What a world class construction site looks like

Who Should Attend?

EHS and non- EHS professionals involved in the construction industry

DOE - EiMAS

CPD Hours

To Registered Certified Environmental Professionals

HRDF CLAIMABLE

Training Fee

- **RM 900.00** (ENSEARCH Member)
- **RM 1000.00** (Non-ENSEARCH Member)

> *Register **3 or more** participants from the same organization to enjoy **10% discount***

- **RM 300.00** (ENSEARCH Student Member)
- **RM 350.00** (Student Non-ENSEARCH Member)

> *To qualify for the student price, please submit a copy of your **Student ID** as proof*

Contact Us

ENVIRONMENTAL MANAGEMENT & RESEARCH ASSOCIATION OF MALAYSIA (ENSEARCH)
NO 30-2, JALAN PJU 5/16, DATARAN SUNWAY,
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Contact Person: Mr Khairi
Phone: 03- 6156 9807/8
Fax: 03- 6156 9803
E-mail: po@ensearch.org
Visit us on the web at www.ensearch.org

Trainer

Mr Satwant Singh

Satwant Singh is a senior leader with more than 25 years outstanding performance and comprehensive Environment, Health and Safety (EHS) experience. He has an extensive and successful career spanning from green field development, fixed facility operations, construction sites and services sites. The last 16 years of his career were with General Electric where Satwant Singh was the Regional EHS Manager first for GE Aviation then for GE Energy followed by GE Power and Water. His responsibilities included overseeing EHS in all new Power and Water projects and installations across Asia Pacific. This included Thermal Power plants, AERO Derivatives and Wind Turbines, achieving world class EHS performance in these projects which resulted in Satwant Singh receiving numerous internal and external awards. Satwant Singh has been providing technical EHS training for GE employees as well as customers. He was one of the few GE global trainers for Plant Manager / Service Managers EHS training. He has also developed a well-received EHS training program for contractors. He can leverage his vast and rich EHS experience to capitalise his audience with real life experiences. His domain expertise, experience and training style made him a much sought after GE trainer across Asia. Satwant is also HRDF Certified Trainer (EMP / 1864). As an EHS Auditor, he has a broad experience in EHS auditing and due diligence being one of the first GE's Global Asia auditors in Asia. He was also instrumental in leading the Sepang Oil Mill to become the first Palm Oil Mill to be certified under the ISO 14001 standard. The whole ISO 14001 certification process was driven by Satwant Singh internally without input from consultants.

***Disclaimer*: ENSEARCH reserves the right to postpone/cancel the said Training due to unforeseen circumstances. ENSEARCH will keep participants updated on the status 3 working days in advance by e-mail.**

ANNOUNCEMENTS

ENSEARCH
For a Better Environment

TRAINING

Energy Conservation for Industry
A Practical Approach

Date: 16th & 17th August 2016 (Tues & Wed)
Time: 8:30 am — 05:00 pm
Venue: ENSEARCH Training Centre (*Map enclosed*),
30-3, Jalan PJU 5/16, Dataran Sunway, Kota Damansara, 47810 Petaling Jaya, Selangor.

Overview

The course aims to provide a introductory understanding in environmental protection, conservation and even enhancement through the holistic approach of energy management. This would then ensure that development projects and industry are managed and implemented in a more sustainable manner. Participants will gain insight into the why, what and how to minimize and mitigate climate change impacts through energy management, assessment, monitoring and development planning.

Objectives

1. **Trainee will receive practical technical information that he can use on site**
2. **Trainee will receive enough engineering theory to be able to get his proposed energy conservation projects approved by management**

Target Participants

1. **Energy managers or REEM of the manufacturing site**
2. **Plant engineers responsible to find energy conservation projects in the production areas**

DOE - EiMAS
CPD Hours
HRDF CLAIMABLE
Will be granted
To Registered Certified Environmental Professionals

Training Fee

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Trainer

Ir P Dinesh Kumar

Ir P Dinesh Kumar is currently the principal of DK Consult. He received his Bachelor Degree (Hons) in Mechanical Engineering from University of Malaya. He is a professional engineer in Malaysia (P.E.) Mechanical, a qualified 1st Grade Steam Engineer by Department of Safety Health, Registered Energy Manager under Energy Commission Malaysia, Certified Energy Manager by ASEAN Energy Management Scheme, GreenTech) and also GBI Facilitator. He possesses over 20 years of experience in manufacturing sector. He had served at Boustead as Palm Oil Engineer for 4 years; 13 years of working experience at Nestle Foods Malaysia as Project Engineer (Solid fuel boiler, ice cream plant), Project Manager (Milo Plant), Engineering Manager (Large Nestle Plant) and Corporate Engineer Utilities, Energy and Environment); 6 years with Saint-Gobain/BPB as Project Manager (2 Large plants– Malaysia and Abu Dhabi), Plant Manager (Abu Dhabi) and Operation Director (Vietnam). Ir P Dinesh Kumar has engaged in numerous projects in energy management and conservation. He has achieved various achievements as a consultant with most of his energy conservation projects surpass the annual target.

Contact Us

Environmental Management & Research Association of Malaysia (ENSEARCH)
(70/84 WP)
30-2, Jalan PJU 5/16, Dataran Sunway, Kota Damansara,
47810 Petaling Jaya, Selangor.
Contact Person: Mr Mohamad Khairi
Phone: 03-6156 9807 / 08
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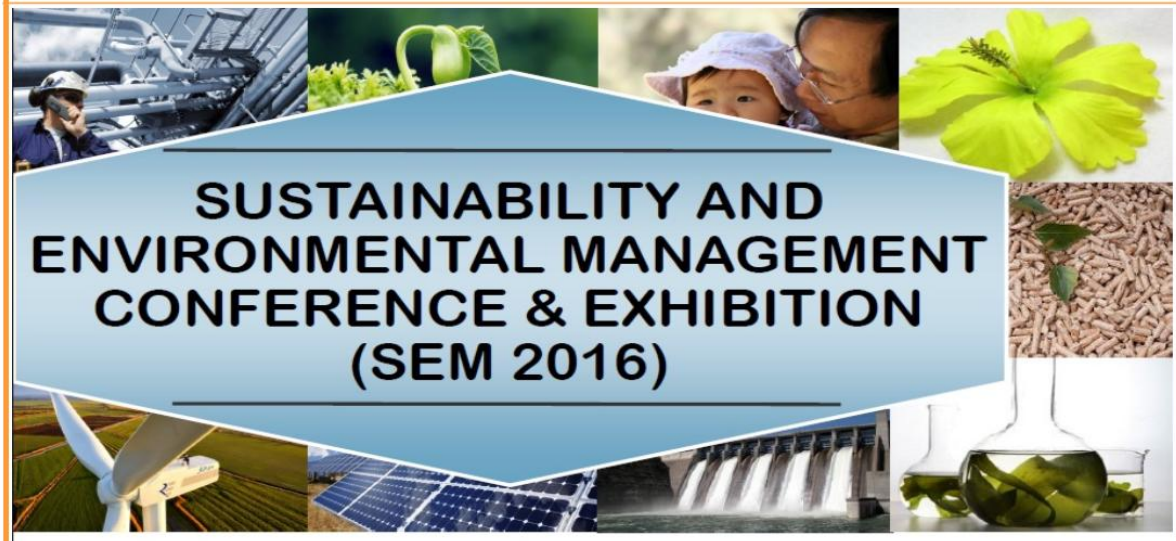
E-mail: po@ensearch.org
Visit us on the web at *http://ensearch.org*

Disclaimer: **ENSEARCH reserves the right to postpone/cancel the said Training due to unforeseen circumstances. ENSEARCH will keep participants updated on the status 3 working days in advance by e-mail.**

ANNOUNCEMENTS



SUSTAINABILITY AND ENVIRONMENTAL MANAGEMENT CONFERENCE & EXHIBITION (SEM 2016)

Theme:

Moving Towards a Sustainable Low Carbon Economy

25th & 26th July 2016 (Mon & Tue)

Sunway Putra Hotel
Kuala Lumpur
(formerly, The Legend Hotel/Opposite the PWTC)

2-Day Conference with Four Plenary Sessions:

Air Quality(Pollution, Car Emissions, Climate Change)
Marine Resources
Sustainable Energy
Hazardous Waste

Organised By:

ENSEARCH *For a Better Environment*

Environmental Management and Research Association of Malaysia
Co. Reg: 70/84 (Wilayah Persekutuan)

CPD HRDF CLAIMABLE

18 EiMAS CPD Hours to Registered Certified Environmental Professionals

Endorsed By:

Ministry of Natural Resources & Environment Malaysia

KeTTHA KEMENTERIAN TENAGA, TEKNOLOGI HIJAU DAN AIR

Ministry of Energy, Green Technology & Water

Supported by:

Department of Environment Malaysia

Please find more information & registration at:
www.ensearch.org/events/?events_id=208
Please register latest by 15 July 2016 (Friday)!

ENSEARCH contact persons: Sharon/Sofie
Phone: 03-6156 9807 / 08
Fax: 03- 6156 9803
E-mail: spo@ensearch.org
www.ensearch.org

ANNOUNCEMENTS

SEM 2016 Tentative Programme

Day 1: 25 July 2016

Time	Description
08.30am – 09.40am	Registration
09.40am – 09.50am	ENSEARCH President's Message on SEM2016
09.50am – 10.00am	Address by Guest of Honor and Official Opening by YB Dato' Seri Dr. Haji Wan Junaidi bin Tuanku Jaafar, Minister, Ministry of Natural Resources & Environment (NRE), Malaysia
10.00am – 10.30am	Tea Break & Exhibition Tour
Session 1	**Air Quality (Pollution, Car Emissions, Climate Change)**
10.30am – 11.00am	Keynote Address 1: Climate Change and Its Impacts on ASEAN Presenter: Y.Bhg. Dato' Sri Azizan bin Ahmad, Secretary General Ministry of National Resources and Environment, Malaysia (NRE)
11.00am – 11.30am	Paper1: Implementing Climate Change Adaptation; Case Studies:Asia-Pacific Region Presenter: Mr. Shiro Chikamatsu, Director / Consultant Ecological Economic Solution Sdn. Bhd.
11.30am – 12.00am	Paper 2: Greening The Air Travel Industry Presenter: Mr. Saji Raghavan, Country Director, Malaysia and Brunei, Rolls-Royce
12.00noon – 12.30pm	Paper 3: Managing the Impacts of Property Development - Sime Darby Property's Bespoke Sustainability Index Presenter: Sharif James Zainal Aziz, Manager – Sustainability Strategy, Communications & Initiatives Sustainability and Quality Management Department, Sime Darby Property Berhad
12.30pm – 1.00pm	Panel Discussion / Q & A Session
01.00pm – 02.00pm	Lunch Break
Session 2:	**Marine Resources**
02.00pm – 02.30pm	Keynote Address 2 Presenter: First Admiral Dato' Chin Yoon Ching (Retired), Director General, Maritime Institute of Malaysia (MIMA)
02.30pm – 03.00pm	Paper 4: The Economics of Ocean Thermal Energy Conversion Project Venture Presenter: Dato' Dr. Ir. Abu Bakar Jaafar, Professor, UTM Perdana School of Science, Technology, Innovation & Policy; & Co-Chair, UTM Ocean Thermal Energy Centre
03.00pm – 03.30pm	Paper 5: Protecting the Marine Environment in the Oil & Gas Industry Presenter: Ms Lee Tzee Wan (Custodian, Environment. GHSSE, PETRONAS) & Mr. Mohd Nizam Basiron (Specialist, Environment. GHSSE, PETRONAS)
03.30pm – 04.00pm	Paper 6: Marine Conservation in the Coral Triangle and the Establishment of the Tun Mustapha Park, Sabah, Malaysia, WWF-Malaysia Perspective Presenter: Dr. Robecca Jumin, Head of Marine Conservation, WWF - Malaysia
04.00pm – 04.30pm	Panel Discussion / Q & A Session
04.30pm – 05.00pm	Tea Break / End of Day 1

ANNOUNCEMENTS

SEM 2016 Tentative Programme

Day 2: 26 July 2016

Time	Description
09.00am – 09.10am	Summary of the First Day's Proceedings - Organising Chairman
09.10am – 09.40am	Keynote Address 3 : Green Energy & Waste Presenter: YBhg Dato' Nadzri Yahaya, Deputy Secretary General, Ministry of Energy, Green Technology & Water (KeTTHA)
09.40am – 10.10am	Tea Break & Exhibition Tour
Session 3:	**Sustainable Energy**
10.10am – 10.40am	Paper 7: SEDA and Its Role in Promoting Sustainable Energy in Malaysia Presenter: Ms Catherine Ridu, Chief Executive Officer Sustainable Energy Development Authority (SEDA) Malaysia
10.40am – 11.10am	Paper 8: Carbon Footprint Assessment in the Power Sector and Its Environmental Management Potential Measures Presenter: Ms Sazalina Zakaria, Researcher, Environmental Engineering Section Environment Unit, Tenaga Nasional Berhad (TNB) Research Sdn Bhd
11.10am – 11.40am	Paper 9: Pursuing the Nuclear Option, A Low Carbon Economy Solution in Peninsular Malaysia Presenter: Dr. Mohd Zamzam Jaafar, Chief Executive Officer Malaysian Nuclear Power Corporation (MNPC)
11.40am – 12.10am	Paper 10: Sustainable Energy in Green City Development Presenter: Malakoff Corporation Berhad
12.10pm – 01.00pm	Panel Discussion / Q & A Session
01.00pm – 02.00pm	Lunch Break
Session 4:	**Hazardous Waste**
02.00pm – 02.30pm	Keynote Address 4: Policies on Managing Hazardous Waste for a Greener Industry Presenter: Y.Bhg. Dato' Dr. Kamarul Najuib Che Ibrahim, Director General, Department of Environment (DOE), Malaysia
02.30pm – 03.00pm	Paper 11: Conversion of Hazardous Waste to Energy Presenter: SWT International Sdn Bhd
03.00pm – 03.30pm	Paper 12: Best Available Technologies in Managing Hazardous Waste Issues and Challenges Presenter: Mr. Mogens Straarup, Chief Technical Officer, Cenviro Sdn Bhd
03.30pm – 04.00pm	Paper 13:Trans-Boundary Movement of Hazardous Waste; Issues & Challenges Presenter: Ms Fenny Wong Nyuk Yin, Principal Assistant Director, Hazardous Substances Division, Department of Environment, Malaysia (DOE)
04.00pm – 04.30pm	Panel Discussion / Q & A Session
04.30pm – 05.00pm	Tea Break / End of Conference

For registration please go to: www.ensearch.org

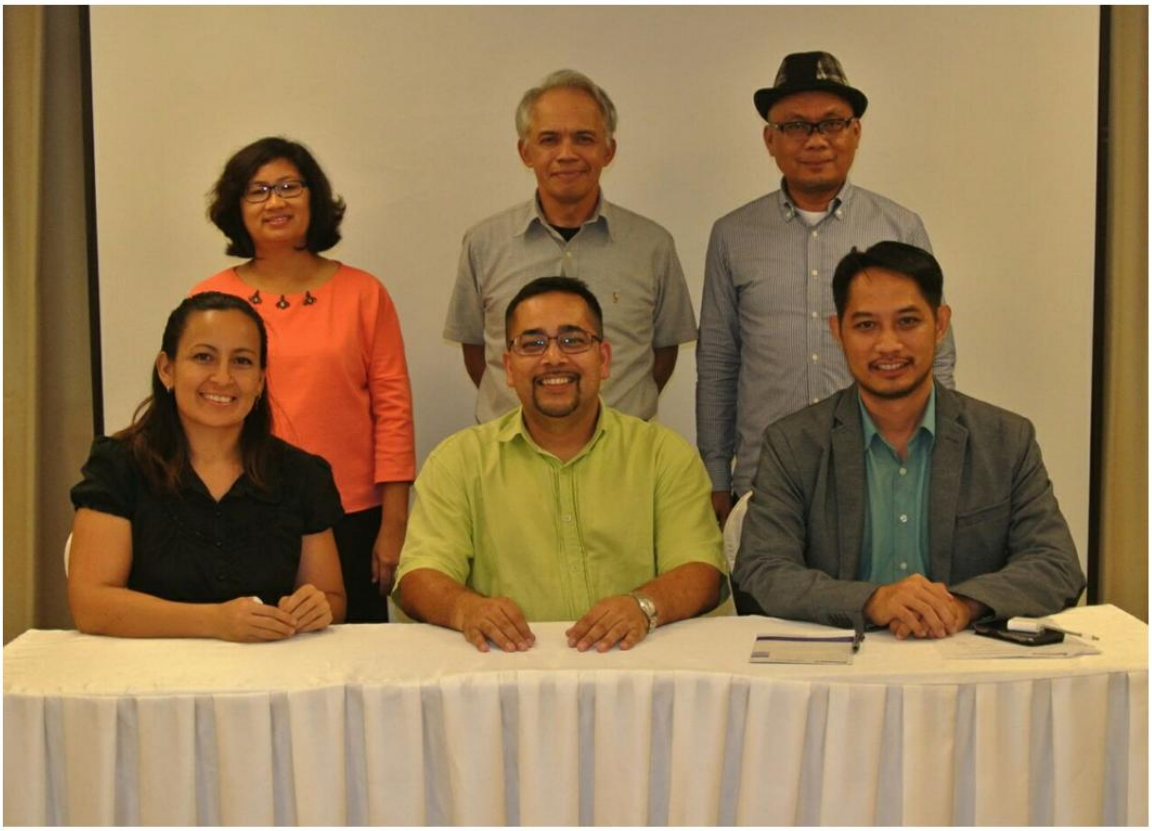
Fees: ENSEARCH member: RM1100.00 pp Non ENSEARCH member: RM1250.00 pp Student fee: RM650.00 pp
Corporate Group discount (for 3pax or more): 10%

ENSEARCH SABAH BRANCH NEWS

The ENSEARCH SABAH BRANCH NEWS; where all news and announcements related to our branch in Sabah will be published

SABAH BRANCH COMMITTEE 2016/2017

Chairperson	:	Mr Mohd Iskandar Ali
Secretary	:	Ms Tania Golingi
Treasurer	:	Mr Ahmed Tariq Datuk Aripen
Committee	:	Dr Ejria Salleh
		Mr Badery Suod
		Dr Mahadi Harris Murshidi



Seated from left : Ms Tania Golingi, Mr Mohd Iskandar Ali, Mr Ahmed Tariq Datuk Aripen
Standing from left : Dr Ejria Salleh, Mr Badery Suod, Dr Mahadi Harris Murshidi

SABAH EVENTS AND ACTIVITIES

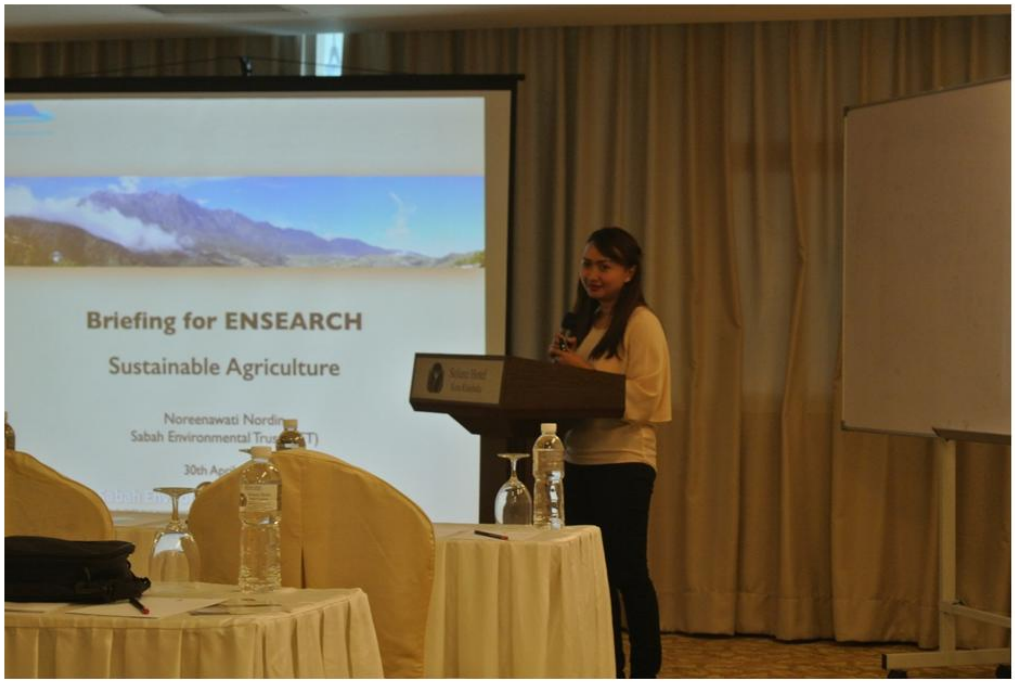
ENSEARCH SABAH BRANCH ANNUAL GENERAL MEETING

Date : 30th April 2016
Time : 2.00pm
Venue : Soluxe Hotel Kota Kinabalu
Summary :

The event started with a talk by Ms Noreenawati Nordin from Sabah Environmental Trust (SET) on Sustainable Agriculture.

The Annual General Meeting was conducted at 3.00 pm. The following committee members were elected: Mr Mohd Iskandar Ali as the new chairman; Mr Ahmed Tariq Aripen as the treasurer; Ms Tania Golingi as the Secretary. The elected executive committees are Dr Ejria Salleh, Mr Badery Suod and Dr Mahadi Murshidi.

The meeting was graced with high tea and attended by roughly 15 ENSEARCH Members residing in Sabah.

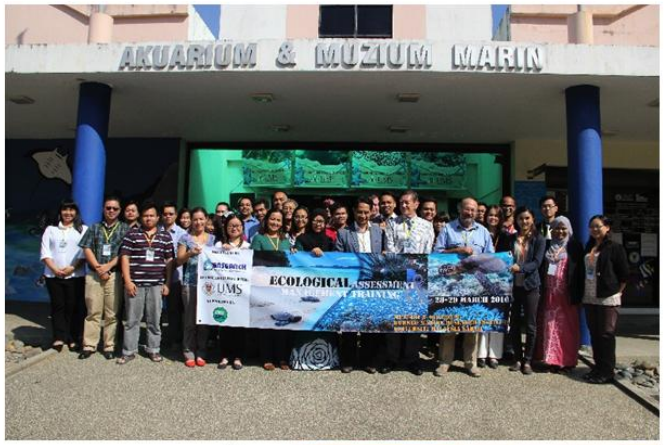


SABAH EVENTS AND ACTIVITIES

ENSEARCH SABAH BRANCH TRAINING ON ECOLOGICAL ASSESSMENT AND MANAGEMENT

Date : 28th & 29th March 2016
Time : 8.30am—5.00pm
Venue : UMS Marine Centre
Summary :

ENSEARCH Sabah has successfully held a training on Ecological Assessment and Management on the 28th and 29th March 2016 at UMS Marine Centre. The training were coordinated by Dr John Barry Gallagher and Dr Tony Chiffings. The 2 days training was attended by around 30 participants. Field work was also incorporated into the training.



ENSEARCH CALENDAR 2016

JULY

SUSTAINABILITY AND ENVIRONMENTAL MANAGEMENT CONFERENCE AND EXHIBITION (SEM 2016)
25th & 26th (Monday & Tuesday)

AUGUST

HSE PERFORMANCE & COMPLIANCE FOR CONSTRUCTION INDUSTRY TRAINING
2nd & 3rd (Tuesday & Wednesday)

ENERGY CONSERVATION FOR INDUSTRY—PRACTICAL APPROACH TRAINING
16th & 17th (Tuesday & Wednesday)

SEPTEMBER

ODOUR SAMPLING & DETERMINATION, MODELLING & ASSESSMENT (LEVEL 1) TRAINING
6th (Tuesday)

ODOUR SAMPLING & DETERMINATION, MODELLING & ASSESSMENT (LEVEL 2) TRAINING
7th (Wednesday)

October

WATER MANAGEMENT: FOOTPRINT & EFFICIENCY TRAINING
11th & 12th (Tuesday & Wednesday)

SNAP SHOTS (APR - JUNE)

SGP GEF CPS WORKSHOP
[4th, 6th & 7th April 2016]

FORUM ON SOLID WASTE MANAGEMENT
(5th April 2016)

ENSEARCH ANNUAL GENERAL MEETING
(19th May 2016)

TRAINING ON POLLUTION LOAD CONTROL & TMDL MEASURES FOR RIVER WATER QUALITY PRESERVATION
(1st & 2nd June 2016)

TRAINING ON SCHEDULED WASTE MANAGEMENT AND COMPLIANCE
(12th & 13th May 2016)

ENSEARCH COUNCIL 2016/2017

President	:	Mr K.N. Gobinathan
Vice President I	:	Dr Foo Say Moo
Vice President II	:	Mr Akashah Haji Majizat K.M.N.
Hon. Sec. General	:	Ms Geetha P Kumaran
Hon. Treasurer	:	Ms Jenny Tan Suat Eam
Immediate Past President:		Ir Elias bin Saidin

COUNCIL MEMBERS:

Mr Abdul Aziz bin Long
Mr Mohamed Siraj Abdul Razack
Mr Khoo Boon Keat
Ir Lee Heng Keng
Dr Subramanian A/L Karuppannan
Dato' Ir Othman bin Abdul Rahim
Mr Tan Poh Aun

CO-OPTED MEMBERS:

Mr Philip Reidy
Dr Hari Ramalu Ragavan
Ms Ruhaidah Md Hassan (Indah Water Konsortium Sdn Bhd Rep)
Ms Adelene Anthony Sinniah (Petronas Rep)
Dr Suzanne McGowan (University of Nottingham Rep)
Mr Mohd Iskandar Shah bin Mohd Ali (ENSEARCH Sabah Rep)
Ms Ismawati Mohd Shah (Cenviro Sdn Bhd Rep)

ENSEARCH SECRETARIAT 2016

EXECUTIVE SECRETARY	:	Ms Edna Xavier
SENIOR PROJECT OFFICER	:	Ms Sharon Woo
PROJECT OFFICER	:	Mr Mohamad Khairi
EXTERNAL ACCOUNTANT	:	Ms Tan Siok Yin

"For a Better Environment"

ENSEARCH
For a Better Environment

ENVIRONMENTAL MANAGEMENT & RESEARCH
ASSOCIATION OF MALAYSIA (ENSEARCH)
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Facebook: https://www.facebook.com/myensearch