BERITA ENSEARCH

JANUARY — MARCH 2013 / 1st QUARTER **E - Bulletin at www.ensearch.org/publications/berita**

ENSEARCH *For a Better Environment*
ENVIRONMENTAL MANAGEMENT & RESEARCH ASSOCIATION OF MALAYSIA

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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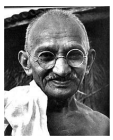

"Earth provides enough to satisfy every man's needs, but not every man's greed."
- Mahatma Gandhi

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 species conservation and poverty eradication through its project Cyber Plant Conservation Network (www.cpcnet.org).

Welcome back to the first quarter's edition of BERITA ENSEARCH for the year 2013. We have continued working diligently on organizing various events and activities for our members and are committed to spreading environmental awareness among Malaysian citizens.

We closed the year 2011 with the prize giving ceremony for the ENSEARCH National Photography Competition 2011 which was held on 19th December 2011 at the Komplex's Perbadanan Putrajaya. Our first national photography competition was a huge hit among the Malaysian public and it serves our main objective which is to spread awareness on the need to conserve our natural environment.

For the year 2012, the ENSEARCH branch in Sabah has already started in organizing trainings and conducting activities on tree planting projects. These projects and training programmes will benefit our Sabahan members who have been unable to participate in activities and training and conducting activities on tree planting projects provided in Peninsular Malaysia. ENSEARCH was also co-opted to co-organize a workshop with World Youth Foundation on "Healthy Environment For Healthy Youth" in Malacca from the 26th—29th November 2012. This event was officiated by Y.B. Datuk Ir. Idris Haron, Trustee for World Youth Foundation.

ENSEARCH also welcomes two new projects officers, Mr. Jonathan Kovilpillai (in November 2012) to undertake research and development of Projects and Publications, and Ms. Geetha Baba (in February 2013) to look after Events and Activities.

As we enter 2013, which is also the Year of the Water Snake, we look forward to more exciting programmes as we move on to the second quarter of the year.

KHOO BOON KEAT
Chairperson
WEBSITE & PUBLICATION

OUR 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"

OUR MISSION

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

PROFILE OF VICE PRESIDENT

Ir. Ellias Saidin

Ir. ELLIAS SAIDIN has served ENSEARCH for the past 8 years and is currently the Vice President of the ENSEARCH Council which is also a position held by Mr. K.N. Gobinathan. Ir. Ellias is also a vital member of the Management Board, where he offers his valuable time through service by disseminating awareness and is also responsible for enhancing the objectives of ENSEARCH by providing direction for its services.

Ellias was born in Alor Setar on 13th November 1954. He had his primary school education at Sekolah Iskandar and continued his secondary school at Sultan Abdul Hamid College, Alor Setar. In 1971, upon completion of his SPM, he was awarded a government scholarship to continue his studies at Hobart Matriculation Collage, Tasmania. Upon entry into the University of Tasmania, he was awarded the Colombo Plan Scholarship.

Ir. Ellias graduated from the University of Tasmania, Australia in the year 1980 with a Bachelor Degree in Civil Engineering. He holds a Masters Degree in Environmental Engineering from University Putra Malaysia obtained in the year 2008. As a student Ir. Ellias served short stints of working experience at Muir Engineering Pty Ltd., Renison Tin Mines Ltd., Australian Pulp and Paper Mills, the Devonport City Council and the Water Sewerage Department, Hobart Municipal Council.

Upon his return to Malaysia in 1980, Ir. Ellias began plying his trade locally with various Consulting Engineering Firms which provides feasibility studies, design and supervision and commissioning of various civil engineering projects. In 1987, Ir. Ellias was a project engineer for the Housing Department, Ministry of Development, Brunei. Upon his return to Malaysia in 1991, Ir. Ellias began setting up a small Consultant Engineering firm which provides Civil Engineering consultancy services to the private and public sectors.

Ellias married Rogaya Ahmad in 1986 and is a proud father to a son and three daughters. Recently, he became a grandfather when his eldest daughter Erina delivered a baby girl. Three of his children are engineers whilst the youngest is taking her HSC exams to study Law in the UK.

Ir. Ellias is a SCUBA diver and has been diving since 1980. His regular diving spots are usually around the islands off Malaysia such as Perhentian, Tioman, Sembilan and Redang, just to name a few. When in Brunei, he went on diving trips with the Bruneians to diving spots off the Brunei coast. All the members of the family are qualified PADI divers with the youngest daughter obtaining her PADI certification at 11 years old.

Ellias is also an avid traveler and in his younger days upon graduation, he used to backpack over a period of one year, crossing through the European Continent, Morrocco, Algeria, Tunisia, Nepal, Pakistan, India, Myanmar, Northern Thailand and the interiors of Sabah and Sarawak. His travel bug has continued into his family life and as a family, they have gone on caravan/camping trips across Cape Town-Mozambique-Johannesburg, South Africa. They also have circumnavigated the whole continent of Australia. In 2005, the family did a caravan trip traversing the Island of Japan. In 2013, the family have planned to explore New Zealand in a campervan.

PROFILE OF VICE PRESIDENT
Ir. Ellias Saidin

Besides Ir. Ellias contribution to ENSEARCH, he has been a rotary club member since 2007. He is the past President of the Rotary Club Shah Alam and is currently the Chairman of the Water Sanitation Task Force for Rotary Malaysia. As a Rotarian, he has helped organize and participate in many community services and fund raising activities. He has visited Siem Reap and participated in the community water projects for the village communities of Lake Tonle Sap, Cambodia. Ir. Ellias has recently been appointed as a Team Leader of four experts to undertake a trip to Thailand in April 2013, to study a proposed Rotary water and sanitation project in the hill tribe communities of Northern Thailand.

Ir. Ellias has strongly stated that he will continue working and contributing to the local and international communities through participating with various NGOs such as ENSEARCH for the rest of his life.

Professional Affiliations and Memberships

- Secretary of the Water Resource Technical Division（IEM）
- Vice President for the Environmental Research Management Malaysia（ENSEARCH）
- Council Member for the Environmental Research Management Malaysia（ENSEARCH）
- Member of the Standing Committee on Activities（ENSEARCH）
- Member of the Sub-Committee on Publication of Journals（ENSEARCH）
- Member of the Technical Committee on Potable Water Systems and Components,（SIRIM）
- Member of the Institution of Engineers Malaysia（MIEM）
- Member of the Malaysian Water Association（MWA)
- Member of the Road Engineers Association Malaysia（REAM）
- Member of the Malaysian Structural Steel Association（MSSA）
- Member of the International Rainwater Catchments Systems Association（IRCSA）
- Member of the "Jawatan Kuasa Standard Perindustrian Bagi Pengurusan Alam Sekitar（ISCZ）, SIRIM"
- President of the Rotary Club of Shah Alam

PROFILE OF VICE PRESIDENT

Ir. Ellias Saidin

Ir. Ellias and family traversing the islands of Japan

Ir. Ellias and Ms Rogaya next to the Sydney Opera House, Australia during one of their vacation trips.

SCUBA diving enthusiast Ir. Ellias and family off shore once again.

FEATURE

Electrical and Electronic Waste Looms in Malaysia: Proposed JICA Model on E-waste Collection, Segregation and Transportation of Household Waste for Recycling.

Article contributed by Jonathan Kovilpillai,
ENSEARCH,
MARCH 2013.

1.0 Introduction

Electrical and electronic products become e-wastes when they are considered at the end of their useful life as shown in *Figure 1*. Non-functioning or obsolescent TVs, computers, printers, photocopiers, cell phones, fax machines, home appliances, lighting equipment's, games units and such, when no longer wanted, become e-wastes. These electronic products contain many materials requiring special end of life handling, most prominently lead, mercury, arsenic, chromium, cadmium, and plastics capable of releasing, among other compounds, dioxins and furans (Sthiannopkao S. and Wong M.H., 2012).

Figure 1: Example of household e-waste in Malaysia
(Source: Electronics Recycling and E-waste Issues, *n.d.* (left) & Facebook wants to create powerful computers that cleanly melt away, 2012. (right)

The fate of e-waste is guided in vastly different ways, both physically and in terms of policy in different parts of the world. Developed countries have gone to great lengths to devise fairly complex, high cost systems to handle e-waste following directives written to spare the environment, although the majority of e-waste across Europe and North America still goes unrecycled (Barba-Gutierrez Y. *et.al*, 2008). There elaborate collection systems are practised, backed by information campaigns. Especially developed clean recovery technologies are used, from disassembly stations to furnaces carefully engineered, to prevent release of dioxins.

In systems at the other end of scale, developing and transition countries such as China, India, Pakistan and Nigeria may be taken as the archetypes where the common practice is to smolder plastic off cables, as the cheapest means known of recovering copper. Precious metals may be leached by acid baths from circuit board components and the used acid, laden with toxic metals, is dumped into grounds or nearby streams. The surrounding population may be largely unaware of the danger from such toxicity.

These practices are worlds apart, yet the official policies and regulatory guidelines in developing countries show much influence by those of the developed world. While waste import bans are common in the developing world, the topography of recycling and disposal costs seems to assure a flow of e-waste out of the developed world down to the sites of lowest cost disposal (Sthiannopkao S. and Wong M.H., 2012). E-waste today, included under the Basel Convention on the Control of Transboundary Movement of Hazardous Wastes and Their Disposal 1989, was a response to a public outcry following the discovery in 1980s, in Africa and other parts of the developing world of deposits of toxic wastes imported from abroad. The objective of the Basel Convention is to protect human health and the environment against the adverse effects of hazardous waste wastes. E-waste is categorized as a hazardous waste and is presently under greater scrutiny and control globally. The provisions of the Convention center around the following principle aims, which are to reduce hazardous waste generation, and to promote environmentally sound management of hazardous waste, wherever the place of disposal; the restriction of transboundary movement of hazardous wastes except where it is perceived to be in accordance with the principles of environmentally sound management; and a regulation system applying to cases where transboundary movements are permissible (Basel Convention, 2011). Malaysia has been a party to the Basel Convention since October 8th, 1993 and has policies and legal frame work in place regarding transboundary movement of hazardous wastes (Radioactive wastes are not covered under Basel - DOE, 2012).

2.0 E-Waste in Malaysia.

In Malaysia, e-waste is generally defined as 'used' electrical and electronic assemblies categorised as scheduled wastes in the First Schedule of the Environmental Quality (Scheduled Waste) Regulations 2005, administered by the Department of Environment (DOE). E-waste is defined as electronic and electric assemblies containing components such as accumulators, mercury switches, glass from cathode-ray tubes and other activated glass or polychlorinated biphenyl-capacitors.

At present, there are generally two main categories of e-waste generators in Malaysia, namely, from households, and from business and industries, including office appliances and industrial equipment, etc. E-waste, which comes under scheduled waste in Malaysia, is required to be transported by licensed contractors and delivered to licensed recycling plants or disposed of in licensed treatment and disposal facilities, such as the centralised scheduled waste treatment and disposal facilities in Bukit Nanas, Negeri Sembilan.

E-waste generated in Malaysia is generally managed as illustrated in below (See *Figure 2.*). The junkshops, recycling centres and scrap collectors play an important role in bridging the gap between the waste generators and recyclers by collecting e-waste generated from various sources and sending these to e-waste recyclers. The Department of Environment (DOE) in Malaysia licenses e-waste recycling plants. These plants collect e-wastes from various middlemen, collectors, and recycling centres. Besides recycling of normal recyclable materials such as plastics and metals, these recycling plants also extract precious metals such as gold, platinum, silver and lead from circuit boards of the e-waste (Chong T.L., 2008).

The Natural Resources and Environmental Minister Datuk Seri Douglas Uggah Embas had stated that the amount of e-waste generated from industrial sectors is increasing every year. In 2009, the industrial sector generated 134,000 tonnes of e-wastes, amounting to 7.86 per cent of the total scheduled waste generated. In 2010, the amount of e-waste had increased by 17.9 per cent to 163,000 tonnes, or 8.68 per cent of the total waste generated. E-waste generated by households, businesses and institution sector was 592,391 tonnes in 2006, 639,493 tonnes in 2007 and 624,143 tonnes in 2008.

The annual average e-waste generated was 635,030 tonnes (Kumar P., 2012). Although Malaysia has specific laws governing both municipal wastes and scheduled waste, specific regulations and guidelines that deal directly with e-waste have not been established yet. Household appliances disposed by the public are one of e-waste generators besides industrial generated e-waste. The focus currently, however, is mostly on the practices and awareness of e-waste management in industries. The level of awareness of disposing e-waste among the public is low. The public practice of disposing e-waste is either through mixing with other household wastes, or storing e-waste in their premises, and giving/selling e-waste to scrap collectors. The metals in e-waste have an economic value and this can generate some income for the parties concerned (Kalana J.A., 2010).

E-waste is now one of the scheduled wastes stipulated by the Environmental Quality Regulations 2005, which is enforced by the DOE. The code for e-waste is SW110. DOE licences solid waste management (SWM) companies that deal with scheduled wastes, including e-waste. DOE has a rich experience in managing e-waste from businesses, industries and SWM companies. On the other hand it has little experience in dealing with household e-waste. Generally, it is difficult to develop an appropriate and effective waste collection system for households, because it involves changing people's waste discarding behaviour. The public's behaviour needs to be considered by looking at various aspects such as motivation, incentives and social structure (About the Project, *n.d.*).

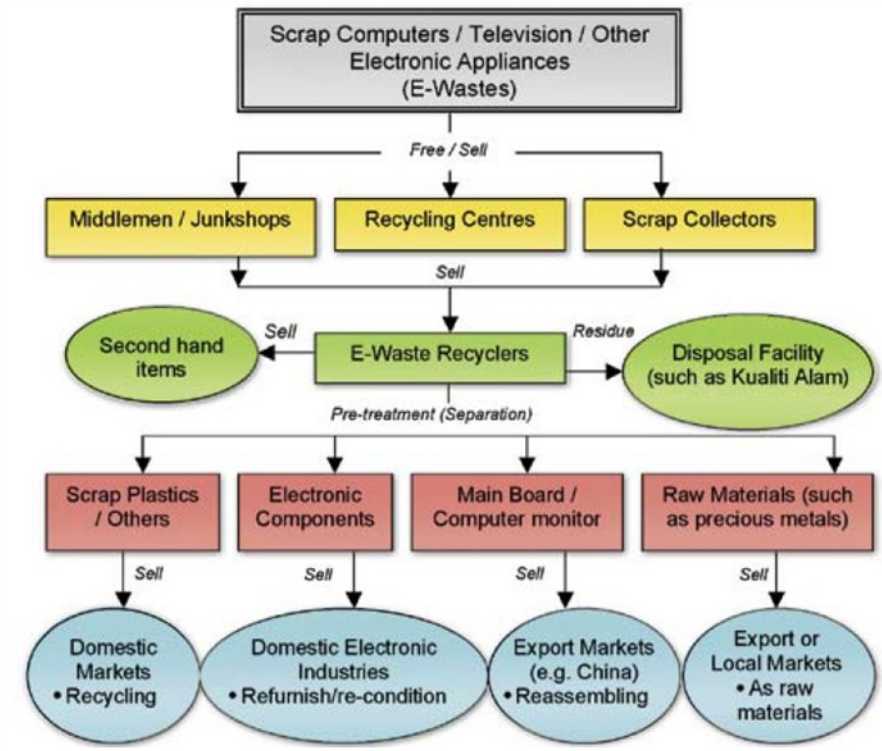

Figure 2: Material Flow of E-Waste in Malaysia
(Source: Chong T.L., 2008)

3.0 Household electronic waste collection project.

The project entitled "Model Development for E-waste Collection, Segregation and Transportation from Household Recycling", or in short "Penang E-waste Project", was funded by the Japan International Cooperation Agency (JICA). The Penang E-waste Project is being implemented by the DOE with the cooperation from the Municipal Council of Penang Island and state government. The project aimed to develop an appropriate effective and efficient e-waste collection system from households. The JICA project team at the Pilot Project Closing Workshop on the Penang E-Waste Project on February 5th, 2013 was represented by five experts from Japan, majoring from various engineering fields and having more than ten years' experience in solid waste management. The team was led by Mr. Hideki Wada who is an expert on solid waste policy with over thirty years of experience in Japan and Asian countries, after studying system engineering in his university (About the Project, *n.d.*).

The project duration was one and a half years commencing on 29th September 2011. The expected output on the project was to develop capacity building on e-waste management for DOE, the local authority and its relevant agencies, to develop an information system of e-waste collection from household and propose main elements for regulatory control on "Take Back Scheme" for electric and electronic equipment.

The factors that need to be considered to develop a sound e-waste management system is to understand and study the e-waste flow analysis on all known electronic and electrical items, collection of real data on conventional recycling actors and junkshops in the vicinity of Penang Island, and to design a system that includes mixed elements of policy, comprehensive incentives to change material flow of e-waste household and business generators to recovery facilities, by considering the public's daily behaviour and convenience, and the financial sustainability of the system.

The current scenario shows that the e-waste is traded as economic goods. Electric and electronic goods have a high repair rate by conventional recyclers. Besides that, the major stream of e-waste goes to scrap dealers through conventional recyclers as well. The project's agenda is to shift the e-waste stream from the conventional route towards licensed recyclers. The proposed flow of e-waste from household generators to licensed recyclers is shown below (Refer *Figure 3.*). The current proposal suggests that household users are able to give away old unused e-waste away through home electric appliance shops upon delivery of new electric and electronic goods or heading over to participating supermarkets or electronic retailer shops to trade their e-waste for cash vouchers without expiry dates. Participating retailers will give away cash vouchers and bare signboards as shown in *Figure 4.* Various electric and electronic items which are traded for the buyback programme for cash vouchers have various item values as shown in *Figure 5.* Licensed recyclers will also pay a fixed amount of ringgit to participating retailers according to market prices.

The recent Penang E-waste Project was a pilot project. Having a competitive buyback price on various electric and electronic e-wastes is important to compete with other non-participating retailers that collect e-waste and sell raw material to scrap dealers (Wada H., 2013, pers comm., 5th February). This was mentioned at the Pilot Project Closing Workshop on the Penang E-Waste Project.

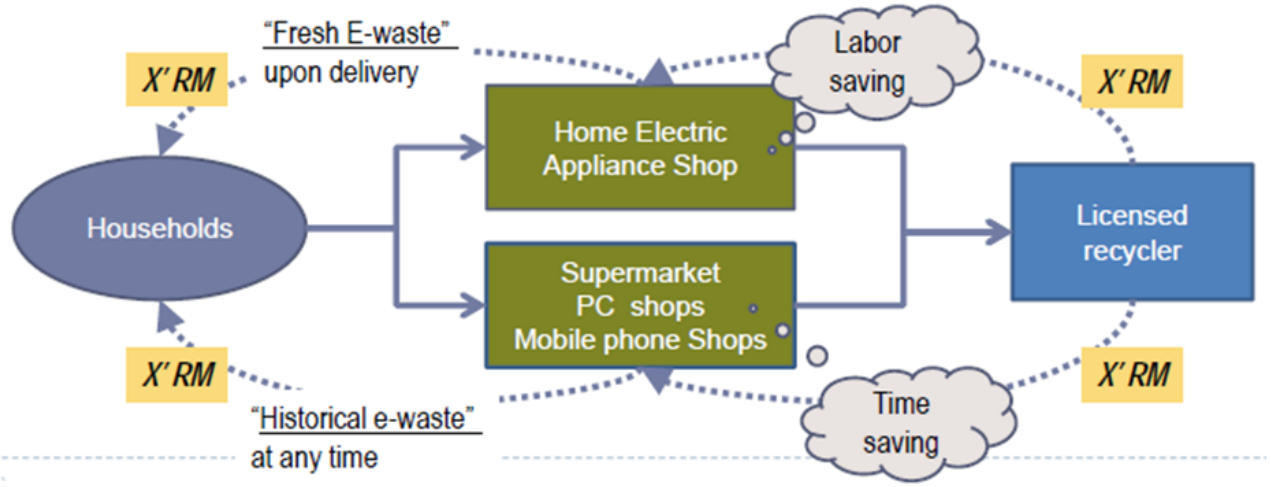

Figure 3. Proposed E-waste flowchart
(Source: Ibrahim C.A., 2013)

Figure 4. Sign board presented to participating retailers (left) and cash vouchers issued by retailers for various e-wastes received from customers (right).
(Source: Wada H., 2013)

4.0 Conclusion

Currently in Malaysia, all of the e-waste recovery facilities are built and owned by private companies. Generally, e-waste recovery facilities are paying e-waste generators for the supply of e-waste obtained. Apart from collecting and transporting e-waste from industries sources, the management of sources of e-waste from households is among DOE's unresolved issues. The Department has conducted discussions with the National Solid Waste Management Department (NSWMD) on how to effectively collect e-wastes from residential areas.

There are various mechanisms proposed to DOE on collection and transportation of e-waste from households. The NSWND has proposed a household e-waste collection through the existing household waste collection mechanism. Wholesalers and retailers also have designed e-waste take back scheme as part of their product stewardship as well as to provide a safe and affordable recycling of e-waste from various stakeholders.

The Penang E-waste Project, which was funded by JICA and implemented by DOE with cooperation from the Penang Municipal Council and state government, is one of the efforts by DOE to establish a model for e-waste collection and recycling in Malaysia and to assist in developing new policies in the future. The outcome of the project policy index shows reduction of hazardous and carcinogenic substances is under control. Health issues such as lead poisoning from dismantling e-waste items have been reduced. There was also an increase in collection of various e-waste items, some doing better than others, and the traceability of e-wastes has increased with the implementation of the project.

The project also highlighted various weaknesses such as issues with transportation of e-waste and the paperwork involved with issuance of cash vouchers. Among the recommendations given to improve the succession of the project are 1) to increase the amount of participating retailers and 2) to always analyse the market rates of the e-waste items and the cooperation rates of the public using the Willingness to be "Paid" (WTP) curve introduced by JICA. The Department of Environment, Deputy Director General of Operation, Dr. Zulkifli Abdul Rahman, highlighted during the launch of the Penang E-waste project that the issue of e-waste is beginning to attract global attention due to their increasing amounts, and e-wastes must be properly managed to prevent heavy metals such as chromium and zinc from contaminating surface and ground water when e-wastes are disposed (Marzukhi H., 2012).

E-waste	Price of Voucher	Market Price*
Television set (CRT Type)	RM12/Unit	RM6/Unit
Television set (non-CRT Type)	RM15/Unit	RM6/Unit
Refrigerator	RM10/Unit	RM18/Unit
Washing machine	RM10/Unit	RM13/Unit
Air-conditioner (Full set)	RM20/Unit	RM68/Unit
Personal computer (Desktop)	RM5/Unit	RM17/Unit
Personal computer (Notebook)	RM5/Unit	RM17/Unit
Printer	RM1/Unit	RM2/Unit
Mobile phone	RM4/Unit	No recycling channel for historical phones
DVD player, VCD player and etc.	RM2/Unit	ND
Others (Battery charger, Mobile phone battery, mouse, keyboard, etc.)	RM0/Unit	ND

*) Based on the benchmark study on the market prices by MPPP

Figure 5. Buyback market prices for various E-waste items
(Source: Wada H., 2013).

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FIRST ANNOUNCEMENT

ANNOUNCEMENT

ENSEARCH
For a Better Environment

SEM 2013
SUSTAINABILITY AND ENVIRONMENTAL MANAGEMENT

SUSTAINABILITY AND ENVIRONMENTAL MANAGEMENT CONFERENCE & EXIHIBITION (SEM2013)

Date: 22nd & 23rd October 2013 (Tuesday& Wednesday)
Venue: Sime Darby Convention Centre, Kuala Lumpur

The Environmental Management and Research Association of Malaysia, (ENSEARCH), is organizing, a **2-day Conference & Exhibition on Sustainability and Environmental Management (SEM2013)** with the theme:

" SHRINKING OUR ECOLOGICAL FOOTPRINT "

SEM2013 will consist of a series of 4 half- day plenary sessions:-

1. **Biodiversity conservation and enrichment**
2. **Adaptation to climate change and risk mitigation**
3. **Water resource sustainability**
4. **Waste reduction technologies**

For further information and to register interest please contact:

Tel: 603-6156 9807/8; Fax: 603-61569803. Email: sem13@ensearch.org;
Website: www.ensearch.org
Attn: Ms. Gee Baba

Endorsed by:

Ministry of Natural Resources & Environment Malaysia

Supported by:

Department of Environment

ENSEARCH CALENDAR

MARCH 2013

Training: Introduction to Ambient Air Quality Monitoring (AAQM) & Indoor Air Quality Monitoring (IAQM)
Trainer: Mr. Tan Poh Aun

20th March (Wed)

APRIL 2013

Training in Sabah: Social Impact Assessment
Trainer: Ms. Herlina Abdul Aziz

10 - 11 April (Wed & Thurs)

Training: Introduction to ISO 14001 & OHSAS 18001
Trainer: En. Ikmal HIsham Mohd Hashim

24 – 25 April (Wed & Thurs)

MAY 2013

Training: Environmental Audits and Standards
Trainer: En. Ikmal Hisham Mohd Hashim

7 – 8 May (Tues & Wed)

JUNE 2013

Training: Palm Oil Mill Effluent & Treatment Plant Optimization
Trainer: Assoc. Prof. Dr. Mohamed Saedi Jami

12 – 13 June (Wed & Thurs)

Training: Training for Environmental Officer
Trainer: Ms. Geetha P. Kumaran

26 – 27 June (Wed & Thurs)

ENSEARCH CALENDAR

JULY 2013

Training: GIS Application in Environmental Management

Trainer : Dr. Tuong Thuy Vu

3 - 4 July (Wed-Thurs)

Training in Sabah: Management of Waste Disposal Site

Trainer: *To Be Confirmed*

5 July (Fri)

ENPC '11
ENSEARCH NATIONAL PHOTOGRAPHY COMPETITION 2011

ENSEARCH National Photography Competition 2011 (ENPC '11) Prize Giving Ceremony.

Date : 19th December 2011

Venue : Dewan Melati, Kompleks Perbadanan Putrajaya

Guest of Honor : **Puan Halimah Hassan**
Director General, Department of Environment (DOE), MALAYSIA.

Summary : The ENPC '11 was launched to create awareness on the growing environmental concerns in Malaysia. The competition began on the 5th May 2011 and ends on the 31st August 2011. The winners was announced during the Environmental Week in October 2011. The competition allows the growing number of amateur photographers of all ages throughout the country to focus their talents on capturing actual condition or status quo of their surroundings including the natural environment.

Mr. Khoo Boon Keat the master of ceremony during the event.

Pn. Halimah Hassan handing over gifts and certificate 's to winning participants.

Encik Abdul Aziz Long introducing to Pn. Halimah Hassan on the exhibits with photos of participating participants.

Pn. Halimah (centre) with Mr, Gobinathan (left) and Ms. Jenny Tan (right) articulating the idea behind the images.

LIST OF WINNERS

Category: Nature In Your Backyard

1st Place:
Caption: *Loving Care*

Ho Sung Wee

2nd Place:
Caption: *Intruder*

Soh Yew Kiat

3rd Place:
Caption: *True Love*

Lee Shing Yaw

Category: Nature In Your Backyard

1st Place:
Caption: *River our Habitat*

Mohd Nazri Bin Sulaiman

2nd Place:
Caption: *My Playground*

Suzairi Zakaria

3rd Place:
Caption: *Tebrau River*

Lek Kah Meng

Category: People & Places

1st Place:
Caption: *Bajau Tribe at Semporna Island Sabah.*

Chua Chee Eam

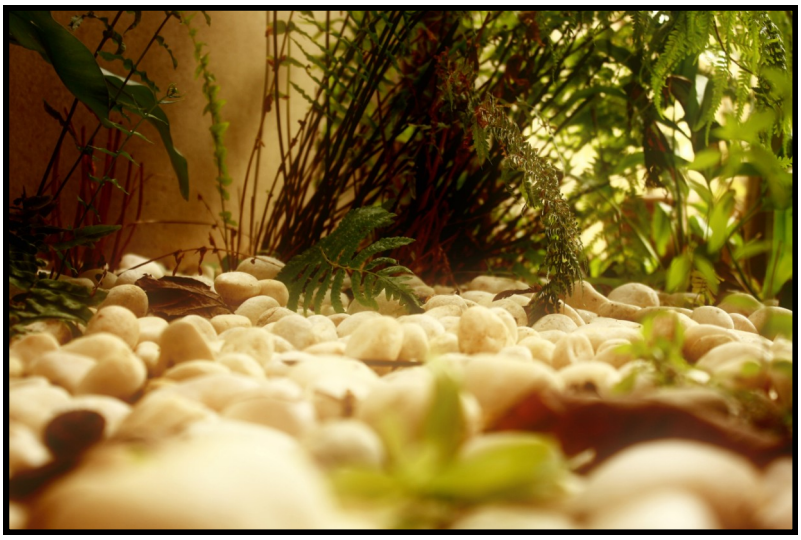
2nd Place:
Caption: *Bajau Villagers in the middle of Celebes Seas, Semporna, Sabah*

Tee Keh Ping

3rd Place:
Caption: *The Bajau Group of Maritime Southeast Asia*

Mohd. Hanif bin Md. Azman

Category: Special Award



1st Place:
Caption: *Paradise*

Gabriel Peter

2nd Place:
Caption: *Pink Flower in Garden*

Nur Iman Nedhiera bt Hashim

3rd Place:
Caption: *Shy ladybug*

Siti Aqilah binti Rahmat

Special award is an open category for secondary school participants

Hosted by:

In Collaboration by:

"Youth Be Aware" Workshop 2012: Health and Environment

Date : **26th—29th November 2012.**

Venue : **Renaissance Hotel, Melaka, MALAYSIA**

Summary : " Youth Be Aware " Workshop 2012: Health and Environment provides a unique opportunity for young people to discuss and create more awareness on the various current and emerging environmental issues affecting the lives of people, especially youth, and the world we live in. "Youth Be Aware " workshop will be linked to actions and events unfolding around global development frameworks such as Rio + 20, MDGs and post 2015 development frameworks.

This workshop was organized in association with ENSEARCH.

ENSEARCH played its role in by providing technical and facilitation services.

Dignitaries and speakers listening to the welcome speech given by Mr. Shiv Khare.

ENSEARCH President : Mr. Abdul Aziz Long and other ENSEARCH members having a networking session while waiting for the arrival of the guest of honour.

Ms. Jenny Tan from ENSEARCH, facilitating during one of the workshop sessions at Renaissance Hotel.

ENSEARCH IN NEWS

KOTA KINABALU: The newly set up Environmental Management and Research Association Malaysia (ENSEARCH) Sabah branch will be organizing a tree planting programme, its pro-tem chairperson Datuk Adeline Leong said.

" ENSEARCH Sabah will also be conducting training programs on air and water modeling, quality risk assessment and air pollution with the guidance of ENSEARCH KL," she added.

Leong, at the launching of the ENSEARCH Sabah branch by Deputy Minister of Natural Resources and Environment Ministry Tan Sri Joseph Kurup yesterday pointed out that the protection of the environment is something dear to the organization's heart.

"We all want to breathe clean air and drink. However we are confronted with the haze every year and our rivers are polluted with oil palm pollutant. This is intensified by global warming caused by too much carbon being released into the air.

"The setting up of ENSEARCH Sabah branch is timely as we intend to bring public awareness to this mounting problem and in our own small way, help minimize the impact of human activity on the environment.

"Planting trees and conducting training on environmental management are two ways we are starting off with,' Leong added.

Meanwhile ENSEARCH Malaysia President Abdul Aziz Long said that the Sabah branch is the first one outside Klang Valley.

"Since its establishment, ENSEARCH has always sought to raise the standard of environmental professionals in Malaysia and to raise the level of environmental performance in the private sector.

"At the same time we also believe in a consultative process with the public sector and civil society. Our vision is to make more Malaysians environmentally aware of their surrounding and committed to taking personal responsibility to manage and mitigate the impacts of their corporate, professional and daily living activities on the environment.

"As a capacity building NGO in the environmental field, we would like to act as an enabler to Malaysian environmental professional' growth," he stressed.

Title : ENSEARCH Sabah set to protect environment

Source : Lai N., **(2012)**, ENSEARCH SABAH set to protect environment, BORNEO POST online, June 24th, 2012.

ENSEARCH IN NEWS

MORE than 200 local photographers responded enthusiastically to a photography contest organised last year by the Environmental Management and Research Association of Malaysia (Ensearch), with nine contestants walking away with a big smile as their submissions took the prizes.

Themed *Naturally Malaysia*, Ensearch's National Photography Competition 2011 was intended to raise awareness of Malaysia's unique environment.

ENSEARCH one of the largest and oldest non-profit organisations in Malaysia, focuses on the area of environmental management and research, and has a membership roll that includes more than 500 individuals and 75 professional institutions involved in environmental management.

According to Ensearch president, Abdul Aziz Long: "Our first national photography competition serves to create more awareness of environmental issues through the documentation of the landscape, whilst encouraging skills that can be used in enhancing environmental awareness."

The competition was opened to the public from May to August, and entries were invited for three categories: Nature In My Backyard, Habitat Lost-Habitat Gained, and People and Places. The entries were judged by Prof Mohamed Talhah Idrus, Eric Peris, Ismail Hashim and Sanjitpaal Singh.

Sabah turned out to be a natural favourite among the photographers, with the top three winning entries in the People and Places category featuring photographs taken in the state.

Water pollution, coastal erosion, and sustainable forest management were subjects that were quite popular.

Chua Chee Eam from Penang took home two prizes after his entry was judged the best in the People and Places category, as well as the best overall entry for the competition. Chua, 42, an applications manager, said the picture he submitted was from his second visit to Sabah. The photo was made during one of the photographic trips organised by Pang Piow Kan, a renowned master photographer from Penang.

"I am just so proud that there is a place of immense beauty like this in Malaysia. It is unlike what I have seen in other parts of the country," Chua said in a phone interview.

Second prize winner in that same category, Tee Keh Ping, made his winning picture with the Bajau Laut people as his subject, as did Mohd Hanif Md Azman, the third prize winner, who focused on the unique lifestyle of the Bajau Laut and their pristine surroundings for his shot.

"I made the picture one fine morning during my second visit to Pulau Mabul, which is located in Sabah's Semporna district," said the 24-year-old Masters student at Universiti ITM in Shah Alam.

The top three winners for the Habitat Lost-Habitat Gained category were Mohd Nazri Sulaiman, Suzairi Zakaria and Lek Kah Meng, while Ho Sung Wee, Soh Yew Kiat and Lee Shing Yaw grabbed the top three prizes for the Nature In My Backyard category.

Title : A photography competition organized with the environment in mind drew an interesting variety of entries.
Source : Choong M.Y., **(2012)**, A photography competition organized with the environment in mind drew an interesting variety of entries, the star online, 4th February, 2012.

ENSEARCH IN NEWS

SHAH ALAM: The Young Engineers Section (YES) of the Institution of Engineers Malaysia (IEM) organised a tree-planting community project at Taman Botani Negara, Shah Alam, recently.

The project aimed to increase awareness among young professionals about the importance of individual responsibility towards the society and environment.

The project is a continuation of community projects undertaken by YES to give back to society and nature. It was organised with the Environmental Management & Research Association of Malaysia (Ensearch), a non-governmental organisation focused on raising awareness about the environment and environmental management as a way of life in Malaysia.

IEM's deputy president Choo Kok Beng and Ensearch vice-president Ellias Saidin launched the project by planting the first tree.

Also involved were IEM senior members, YES committee members, graduate engineers, lawyers from the KL Bar, students of Universiti Tenaga Nasional and Universiti Teknologi Mara.

A total of 190 local fruits trees were planted. The project also reached out to the local community as the seedlings were purchased from them through Ensearch. The seedlings were adopted by organisations and individuals. IEM is a professional non-governmental organisation with nearly 30,000 members, including professional engineers, graduate engineers and engineering students.

Title : YES to tree-planting project

Source : Yes to tree planting project, **(2012)**, News Straits Times, 26th June, 2012.

Title : Masidi suggests renewable energy projects for islands, villages.

Source : Masidi suggests renewable energy projects for islands, villages, **(2013)**, Borneo Post, 23rd February, 2013.

Adeline (fourth right) presenting a souvenir to Masidi.

Masidi suggests renewable energy projects for islands, villages

KOTA KINABALU: The Sabah Chapter of the Environmental Management and Research Association (ENSEARCH) of Malaysia has been asked to look into the feasibilities of renewable energy projects for islands and villages in Sabah and to achieve zero waste discharge for the islands.

Tourism, Culture and Environment Minister Datuk Masidi Manjun made the suggestion when the ENSEARCH Sabah committee members led by chairman Datuk Adeline Leong paid a courtesy call on him recently.

Adeline briefed Masidi that ENSEARCH is a non-profit association of organisations, professionals, students and people with interest in learning and promoting effective ways to manage the impacts of human activities on the environment.

The members of ENSEARCH believed that all were responsible for managing and mitigating the impacts of their corporate, professional and daily living activities on the environment.

She said one of the core activities of ENSEARCH was building national capacity in environmental management through the training and education programmes and another cord activity was to promote and advance the practice of environmental professionalism by all professionals engaged in the provision of environmental management-related services, such as environmental impact assessments, environmental management systems, environmental audits and environmental technology.

"ENSEARCH is able to act as environmental think tank for the government on environmental issues," she added.

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"For a better environment"

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