

# BERITA ENSEARCH

APR - JUNE 2008

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## ENSEARCH 24TH ANNUAL GENERAL MEETING

The 24th Annual General Meeting and 4th K. Kumarasivam Young Environmentalist Internship Award 2007 Winner's Presentation was held at Matahari I, Level 5, Cititel Midvalley, Kuala Lumpur on 10th May 2008, Saturday.

The 4th K. Kumarasivam Young Environmentalist Internship Award 2007 winner, Ms. Regina Cheah Yuan Yuan, shared her experiences at Environmental Engineering and Management, School of Environment, Resources and Development at Asian Institute of Technology, Thailand. She spoke about the research and activities they undertake, specifically in solid waste management.

The 24<sup>th</sup> Annual General Meeting was held at 11.00 am, following a talk on "Standardisation, Climate Change, Trade, Environment and Sustainability" by Dr. Chan Kook Weng from MPOB. The new Council and Standing Committees for the year 2008/2009 were elected and are as below and on page 3:



## SPECIAL POINTS OF INTEREST:

- **ENSEARCH new members (April - June 2008)**
- **ENSEARCH Standing Committees on page 3**
- **Cleaner Production Implementation through Design & Operational Modifications on page 4**

## ENSEARCH COUNCIL 2008/2009

President	:	Mr. Peter Ho Yueh Chuen
Vice-President:		Mr. Gobinathan Kumaran Nair
		Mr. Abdul Aziz Long
Hon. Sec. General	:	Ms. Geetha P. Kumaran
Asst. Sec. General	:	Mr. Anpalagan Sockalingam
Hon. Treasurer	:	Ir. Abu Harith Shamsuddin
Council members	:	Dr. Donald K. F. Chen
		Ms. Thayanithi Kulenthiran
		Ms. Jenny Tan Suat Eam
		Mr. Patrick Tan Hock Chuan
		Mr. Azmanuddin Haq Ahmad
		Mr. Ellias Saidin
Co-opted	:	Mr. Mohamed Siraj Abdul Razack

## Note from the Publication Committee Chairman!



"Syabas" to Dr. Abdul Aziz Abdul Raman, Renee and the rest of the previous publications committee responsible for the attractive Berita ENSEARCH, with articles which have been very informative and useful. The new publications committee welcomes their continued support and more inflow of articles on current 'hot' environmental sustainability issues. Updated and well-informed readers can better advise and/or manage for sustainable consumption and production, especially in the light of current dynamic political and economic climates. In this issue we provide updates on the recent 24th ENSEARCH AGM and on our upgraded training facilities. We also highlight the implementation of Cleaner Production in design and operational modifications for better business, and simultaneously better environmental performance. Please digest and express and, where appropriate and useful, apply it in your daily lives. Salam.

*Jenny Tan*

## OUR VISION

"Malaysians are environmentally aware and are committed to take 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 organisations, professionals and interested persons."

## ENSEARCH WELCOMES OUR NEW MEMBERS!

If you are interested in becoming a member of ENSEARCH, or have any enquiries in this regard, please contact the ENSEARCH Secretariat or email [revathy@ensearch.org](mailto:revathy@ensearch.org).

**APR 08 – JUNE 08**

### Corporate

Universiti Malaysia Terengganu (May 08)

### Individual

Abd Halim Mohd Salleh  
Chiong Kai Shing  
Chong Shiau Iun @ Abraham  
Dr. Leong Tak Seng  
Hazura Bt Yaakob  
Izhan zani Bin Mohamad Reduan  
Izihan Bt Ibrahim  
Lawrence Ng Lip Hui  
Lee Seng Chow  
Liew Shan Sern  
Lo Su Mui  
Maria Violetta Thomas  
Mohamad Azri Bin Mohamad Shukor  
Mohamad Syafril  
Mohammad Iskandar Shah Bin  
Mohammad Ali

Mohd Bazurnizam Bin Basiron  
Mohd Nor Hafiz Bin Zainal  
Muhamad Rashid Wan Chik  
Nazirah Hamid Ghul  
Nithia Kumar Kasava  
Nur Shazana Bt Tukirin  
Nurul Najihah Bt Jamil  
Patrick Tan Hock Chuan  
Sam Tsen King Foh  
Sharifah Mahani Syed Abdullah  
Sindy Ooi Huey Ying  
Siti Hajar Bt Ahmad  
Siti Nur Bt Yusof  
Suzaliana Bt Hussin  
Willham Siau  
Zulieda Illie Bt Zulkifli

ENSEARCH is a non-profit, membership organisation comprising of people interested in promoting the practice and research in environmental management. It was formed in 1984 by a group of local professionals and academicians, from various disciplines. The group recognises that for the Malaysian Environmental Quality Act (EQA), enacted in 1974, to achieve its objective there is a need to raise the awareness and capacity of Malaysians to manage their impacts on the natural environment. Thus, ENSEARCH, a multidisciplinary association, was formed to promote and increase the environmental awareness/commitment of Malaysians, and to educate them on the environmental management methodologies and technologies available.



Environmental Management and Research  
Association of Malaysia  
30-3, Jalan PJU 5/16,  
Dataran Sunway, Kota Damansara,  
47810 Petaling Jaya,  
Selangor Darul Ehsan, Malaysia.  
Tel: +603-6156 9807/8  
Fax: +603-6156 9803  
Email: [admin@ensearch.org](mailto:admin@ensearch.org)  
Website: <http://www.ensearch.org>

## ENSEARCH 24TH ANNUAL GENERAL MEETING CONT.

Decisions were also made on the Chair and members of the Standing Committees under the Council: -

Membership recruitment	:	Mr. Mohd Siraj (Chair) <i>assisted by Mr. Jaya Sarathy</i>
Education and Training	:	Mr. Abdul Aziz Long (Chair) Mr. Patrick Tan Hock Chuan
Events & Activities	:	Mr. Ellias Saidin (Chair) Ms. Thayanithi Kulenthran Dr. Donald Chen
		a) Committee for ENSEARCH's 25th Anniversary Dinner
	:	Mr. Mohd. Siraj Mr. Gobinathan Kumaran Nair <i>assisted by Mr. Ravindran</i>
		b) Annual Event (Waste Management Exhibition & Conference)
	:	Mr. Gobinathan Kumaran Nair
IEPM	:	Mr. Peter Ho Yueh Chuen (Chair) Mr. Patrick Tan Hock Chuan <i>assisted by Dr. Balamurugan</i>
Publication and Website	:	Ms. Jenny Tan Suat Eam Mr. Azmanuddin Haq <i>assisted by Dr. Abdul Aziz</i>
KKEF	:	Mr. Anpalangan Sockalingam (Chair) Mr. Peter Ho Yueh Chuen



## CASE STUDY ANALYSIS ON CP IMPLEMENTATION THROUGH SIMPLE DESIGN AND OPERATIONAL MODIFICATIONS

Dr. Ir. Abdul Aziz Bin Abdul Raman

Chemical Engineering Department, University of Malaya, 50603 Kuala Lumpur. Tel: 03-79675300, Fax :03-79675319

e-mail: [azizraman@um.edu.my](mailto:azizraman@um.edu.my)

Analysis of companies that have successfully implemented Cleaner Production options shows that simple design and operation modifications can potentially bring significant results. Simple refers to changes that can be done by the company themselves with payback period less than six months. Some modifications, especially procedural modifications may not even incur any additional cost. A strong will to institute changes and management commitment may just be the conditions required to carry out some of these modifications. These modifications coupled with good housekeeping may set the company in the right direction in obtaining the full advantages of a CP program.

### OPERATIONAL OR PROCEDURAL MODIFICATIONS

Some of the simple operational or procedural modification that can be implemented are as follows:

#### *Temperature modification*

Temperature is related to energy. Some of the examples where modifications can be considered to reduce the energy consumption are as follows:

Increase the storage temperature. Sometimes, cold and freezer rooms are unnecessarily operated at very low temperatures. For example, storage of non meat material may not require very low temperatures. An educated decision must be done on the storage temperature setting.

Decrease processing temperature. Depending on the objective of the processing, the temperatures can be reduced. For example, if the objective is to soften a material, lower temperature with high residence time can be considered compared to using high temperature and low time operation. Simple experiments can be conducted to determine the optimum time and temperature.



#### *Time consideration*

Time is an important consideration for CP implementation. Some examples where modification in time can save energy or reduce waste generation are as follows:

Reduce washing time may reduce waste water generation.

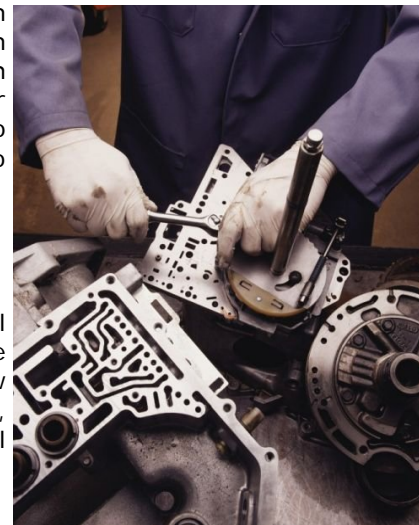
Many processes may require minimum residence time to achieve required yield or product specification. It is very common to find use of excessive residence time which may result in waste of energy and material. It may even have an effect on the quality and performance as well.

#### *Reduction in number of processing steps*

There are also many cases where unnecessary steps are included in the processing flow. The steps may have been introduced in the past for a particular reason. However the step may have been redundant due to modifications, changes in the raw materials or change in technology over the years. Such steps should be eliminated or downgraded. There are also possibilities to conduct two processing steps into a single step.

#### *Other considerations*

There are many other operational modification that can be considered in all aspects of raw material handling, processing, packaging and operational conditions.



## CASE STUDY ANALYSIS ON CP IMPLEMENTATION THROUGH SIMPLE DESIGN AND OPERATIONAL MODIFICATIONS CONT.

### DESIGN MODIFICATIONS

Design modifications are dependent on the type of industry. It can be a very powerful tool to achieve great success for CP programs. Some approaches that can be used are:

#### *Identify the actual problem and the cause*

It is common that no serious thought is given to the actual problem related to a particular technology or equipment by many industries. For example, an equipment that produces high rejection rate may not be due to the equipment itself but due to the equipment setting or the raw material itself. Serious thought, time and effort must be given to identify the cause of the problems. This itself may provide possible solutions.



#### *Step by step approach*

The word "design" may bring fear in some SMEs and it is always related with high cost and requirement for consultant and normally a big change or modification is envisaged. However, many case studies have proven that the design changes can be done incrementally and in a step by step manner involving long duration.

#### *Re-engineering the existing one first*

Serious thought should be also given to reengineering the existing processes. The chances of implementing the reengineered ideas are better than acquiring new equipments or processes.

### THE NEXT MOVE

To introduce simple procedural and design changes, the following steps can be useful for a particular company:

- Assign one or two employees to analyze all the existing procedures and designs;
- Get a consultant to evaluate the procedures if it is possible. Sometimes a person who is not familiar with the process may come out with great ideas (or at least generate questions which can be a catalyst for the company to get fresh ideas);
- Conduct measurements and monitoring to validate the procedures technically and logically instead of following what has been the "traditional way or virtue";
- Start identifying what is the specific cause(s) of a problem;
- Analyze existing case studies to identify possible solutions.

### CONCLUSION

In summary, it is possible to implement CP options through simple operational procedures and design changes which can be done by the company itself. As long as there is a continuous effort to implement CP, simple design and operational changes, together with good housekeeping may yield significant results for the company.

**Some modifications, especially procedural modifications may not even incur any additional cost**

## ENVIRONMENTAL MANAGEMENT TRAININGS

From April to June, ENSEARCH conducted 2 environmental management trainings. These trainings were all held at ENSEARCH's new Training Centre on Level 3. A summary of each training is listed below.

### EIA For Petrochemical Industries, 21 May 2008

- Trainer: Ms. Vijayalaskhmi B. Samuel
- 21 participants



### Air Pollution Assessment, 18 & 19 June 2008

- Trainer: Mr. Lim Sze Fook (1st day) & Mr. Tan Poh Aun (2nd day)
- 28 participants



### Upcoming Training Courses

#### **EIA For Infrastructure Development**

Date: 30th July 2008, Wednesday

Trainer: Dr. G. Balamurugan

#### **Scheduled Wastes Management**

Date: 6 & 7 August 2008, Wednesday & Thursday

Trainer: Mr. Peter Ho Yueh Chuen

RM640.00 for ENSEARCH members

RM800.00 for non-members

\* Group discount for registration of 3 participants and more per company!

- To register, email [renee@ensearch.org](mailto:renee@ensearch.org) or call 03-61569807/8.

\* terms and conditions apply

**NEW ENSEARCH TRAINING CENTRE (EVENT PACKAGES)**

The ENSEARCH Training Centre on Level 3 is larger than before and now has a seating capacity of up to 30 persons (classroom-style arrangement) or 45 persons (theatre-style arrangement).

The fully air-conditioned training centre is equipped with an LCD projector (chargeable) , a projection screen, flipcharts and whiteboards. It is ideal for events with small groups.

Other facilities include an area to set up a buffet line for meals or refreshments and a reception area for registration of guests.

**EVENT PACKAGES**

**Package 1A**

RM300.00 per day (9am – 5pm)

Usage of room and facilities include:

- Projection Screen
- Flip chart (2 units), Whiteboard (1 unit)
- Writing materials
- Mints
- Water cooler

**Package 2A**

RM450.00 per day (9am – 5pm)

Usage of room and facilities include:

- LCD Projector
- Projection Screen
- Flip chart (2 units), Whiteboard (1 unit)
- Writing materials
- Mints
- Water cooler

**Package 3A**

RM200.00 half day (9am – 1pm)

Usage of room and facilities include:

- Projection Screen
- Flip chart (2 units), Whiteboard (1 unit)
- Writing materials
- Mints
- Water cooler

**Package 4A**

RM350.00 half day (9am – 1pm)

Usage of room and facilities include:

- LCD Projector
- Projection Screen
- Flip chart (2 units), Whiteboard (1 unit)
- Writing materials
- Mints
- Water cooler

**Package 1B**

RM35.00 per person per day (9am – 5pm)

Usage of room and facilities include:

- Projection Screen
- Flip chart (2 units), Whiteboard (1 unit)
- Writing materials
- Mints
- Water cooler
- 2 tea breaks with 2 snacks each and 1 buffet lunch
- \* minimum 20 pax

**Package 2A**

RM42.50 per person per day (9am – 5pm)

Usage of room and facilities include:

- LCD Projector
- Projection Screen
- Flip chart (2 units), Whiteboard (1 unit)
- Writing materials
- Mints
- Water cooler
- 2 tea breaks with 2 snacks each and 1 buffet lunch
- \* minimum 20 pax

**B) With meals/refreshments**

**A) Without meals/refreshments**



For details, contact Ms. Renee at [renee@ensearch.org](mailto:renee@ensearch.org) or call 03-61569807/8.

## VISIT TO JARING METAL INDUSTRIES – ELECTRONIC RECYCLING WASTE MANAGEMENT

ENSEARCH is organising a visit to Jaring Metal Industries on 18 July 2008, Friday at Jaring Metal Industries Sdn Bhd, Shah Alam.

**Date:** 18 July 2008  
**Time:** 9.00am – 11.30am  
**Venue:** Jaring Metal Industries Sdn Bhd, No.7, Jalan Sungai Kayu Ara 32/37, Taman Berjaya, Seksyen 32, 40460 Shah Alam, Selangor  
**Transport:** “Carpool and Reduce Green House Emission”  
**Gather at Jaring Metal Industries Sdn Bhd by 9.00am**

The aim of this visit is to equip professionals from among the NGO's and the private sector with the latest information and developments in electronic recycling waste management in Malaysia. The visit will include a short briefing about the current electronic recycling practices carried out by Jaring Metal Industries, followed by a site visit to the plant. Registration closes 15 July 2008.

To register or if you have any enquiries, contact Ms. Revathy at [revathy@ensearch.org](mailto:revathy@ensearch.org) or call 03-61569807/8.

## CHANGES AT THE SECRETARIAT...

### FAREWELL

31st March 2008 was Ms. Suganya's final day as Projects Executive at ENSEARCH. Ms. Suganya is now at the Corporate Communications Department of Permodalan Nasional Berhad. The council expresses their gratitude for all her hard work during her 2 year plus tenure with ENSEARCH and wishes her all the best in her future undertakings.



### WELCOME

On a happier note, 3rd June 2008 marked Ms. Revathy Kasava's first day at ENSEARCH. Ms. Revathy is in charge of Membership, Events and is also the secretariat member in charge of Waste Management Exhibition & Conference 2008 (WM2008), together with Ms. Anjelinah.

For those who have enquiries about this year's Waste Management Exhibition & Conference, you may contact [revathy@ensearch.org](mailto:revathy@ensearch.org) or [angie@ensearch.org](mailto:angie@ensearch.org).

