Environment and Green Chemistry (EGC) Section, Malaysian Institute of Chemistry (MIC) and Nanotechnology & Catalysis Research Centre, University of Malaya (NANOCAT)

Cordially invite you to a

Forum on “Raising Awareness of Environmental Issues on Solid Waste Management”

Date: 27th November 2018 (Tuesday)
Time: 2.00 – 5.00 pm
Venue: The Cube, fourth floor, Institute for Advanced Studies, University of Malaya

Modulator:
AP. Dr. Ong Boon Hoong
Dr Morris Lee Kian Mun
Malaysian Institute of Chemistry (MIC)
Nanotechnology and Catalysis Research Centre (NANOCAT), University of Malaya

Keynote 1: Personal Thoughts on the Festering Solid Waste Mess in Malaysia
By Mr. Gurmit Singh
Recipient of Merdeka Award 2018
Chairman
Centre for Environment, Technology and Development, Malaysia (CETDEM)

Keynote 2: Waste Management and 3Rs in Asia: Challenges and Issues
By Prof Dr Agamuthu Pariatamby
Hon. Professor, University of Malaya
Founder President
Malaysian Society of Waste Management and Environment.
Keynote 3: Management of Municipal Waste
By Ms. Jenny Tan Suat Eam
Partner in Adant Management PLT
Council member
Environmental management and Research Association of Malaysia (ENSEARCH)

Program Activities

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.30-2.00 pm</td>
<td>Registration</td>
</tr>
<tr>
<td>2.00-2.10 pm</td>
<td>Welcoming remarks from Prof. Mohd Rafie Johan</td>
</tr>
<tr>
<td></td>
<td>Director, Nanotechnology &amp; Catalysis Research Centre (NANOCAT)</td>
</tr>
<tr>
<td>2.10-2.20 pm</td>
<td>Introduction from the moderators: AP. Dr. Ong Boon Hoong &amp; Dr Morris Lee Kian Mun</td>
</tr>
<tr>
<td>2.20-2.40 pm</td>
<td>Speaker 1: Mr. Gurmit Singh</td>
</tr>
<tr>
<td>2.40-3.20 pm</td>
<td>Speaker 2: Prof Dr Agamuthu Pariatamby</td>
</tr>
<tr>
<td>3.20-4.00 pm</td>
<td>Speaker 3: Ms. Jenny Tan Suat Eam</td>
</tr>
<tr>
<td>4.00-4.15 pm</td>
<td>Forum discussion and Q&amp;A session</td>
</tr>
<tr>
<td>4.15 pm</td>
<td>Memento giving ceremony &amp; photography session</td>
</tr>
<tr>
<td>4.20 pm</td>
<td>Refreshment</td>
</tr>
<tr>
<td>5.00 pm</td>
<td>End</td>
</tr>
</tbody>
</table>
Venue: The Cube, fourth floor, Institute for Advanced Studies, University of Malaya
Seminar 1

Date: 27 November 2018 (Tuesday)
Time: 2.00 pm – 5.00 pm
Venue: The Cube, fourth floor, Institute for Advanced Studies, University of Malaya
Topic: Personal Thoughts on the Festering Solid Waste Mess in Malaysia

Speaker

Mr. Gurmit Singh
Centre for Environment, Technology and Development, Malaysia (CETDEM)

BIODATA
Mr. Gurmit Singh graduated with an engineering degree from Universiti Malaya and become a member of the Institution of Engineers since 1974. Currently, he is the chairman and founding executive director of the Centre For Environment, Technology and Development Malaysia (Cetdem).

Mr. Gurmit is an environmentalist and social activist. He is also an adviser of the Environmental Protection Society, Malaysia, after having served as founder President from 1974 to 1994. He was Regional Coordinator of Climate Action Network, Southeast Asia (CANSEA) for 3 terms. For his dedicated work, the Government awarded Gurmit the distinguished Langkawi Award in 1993 and the Sustainable Consumer Award in 2008. He was awarded the UN Malaysia’s Environmental Sustainability Award and MBPJ’s Green Leadership award in 2013. In 2015 the Malaysian Green Technology Corporation gave him the Green Catalyst Award. This year, Mr. Gurmit Singh received the Merdeka Award for his contribution to the environment.
Seminar 2  
Date: 27 November 2018 (Tuesday)  
Time: 2.00 pm – 5.00 pm  
Venue: The Cube, fourth floor, Institute for Advanced Studies, University of Malaya  
Topic: Waste Management and 3Rs in Asia: Challenges and Issues

SYNOPSIS  
Asia has turned out to be the centre of world’s economic platform. In fact, economic empowerment and adaptation to the globalized lifestyle had made Asia in general a beehive of industries and sophisticated markets. Waste is an issue in every Asian country, and waste quantities are generally growing. With over almost 60% of world’s population situated in Asia, the region especially South East Asia is presently the most dynamic region in the world in reference to economic activity and industrialization. The impact of waste on the environment, resources and human health depends on its quantity and nature. Environmental pressures from the generation and management of waste include emissions to air (including greenhouse gases), water and soil, all with potential impacts on human health and nature. About 85% of the municipal waste generated daily in Malaysia is landfilled. This leads to significant pressure on the environment since 10% of generated MSW is disposed illegally into rivers and open dumps, while 5% is recycled. Approximately, 4.4 billion tonnes out of 12 billion tonnes of solid waste generated globally come from Asia (both industrial and municipal solid waste). The waste generation rate increased from 0.7kg/person in 1990s to 1.2kg/person in 2000 (Agamuthu, 2001) in the developing countries like Malaysia. Currently in Malaysia, the solid waste generation is expected to reach 1.5 kg/day in most cities, since it was already 1.3 kg/day in 2006 (Agamuthu et al., 2009). However, the generation can also vary with the level of income, urbanization trend, changing human habits and lifestyle changes. Seasonal variations also can influence the amount of waste generation. In 2009, Hong Kong generated about 6.45 million tonnes of solid waste which is more than double that of 1990 levels. The average per capita generation of MSW by a Malaysian is 1.3 kg daily; whereas 0.7kg is generated in Vietnam and Laos. While Bangladesh and Indonesia recorded an average daily per capita waste generation of 0.25 kg and 0.75 kg, respectively. India and Pakistan on the other hand generate 0.4 kg each. Variations and rise in per capita waste generation is highly dependent on the country’s socio-economic inclinations. The amount of solid waste generated in the cities is much higher than in rural areas. Challenges, Drivers and Way forward will also be discussed.
Prof. Dr. Agamuthu Pariatamby  
Institute of Biological Sciences, Faculty of Science, University of Malaya

BIODATA
Prof. Agamuthu is a Senior Professor at the University of Malaya (UM) and is the Founder President of the Malaysian Society of Waste Management and Environment. He is also the Vice-president/ International Advisory Board Member – Society of Solid Waste Management Experts in Asia and Pacific islands (SWAPI) and a member of the International Solid Waste Management Association (ISWA). He is the Fellow, Academy of Sciences Malaysia.

He started his career as lecturer at the Faculty of Science since 1989 and was promoted to Professor in 2001. Since 1996, he has supervised over 100 Bachelor and Master of Science Degree students as well as doctorate research students.

Prof. Agamuthu is Editor-in-Chief of Waste Management & Research Journal, and the Malaysian Journal of Science and was a Senate Member of UM (2005 – 2007). Prof. Agamuthu is an Editorial Board Member of Journal of Material Cycles and Waste Management (Japan), Journal of Safety and Environment (China), reviewer for Journal of Hazardous Wastes (USA), Journal of Environmental Management (USA) and International Journal of Environment and Waste Management etc. He is also the Registered Subject Expert (solid waste management, under Section 34A, Environmental Quality Act, Malaysia).

Prof. Agamuthu has authored more than 400 scientific publications and several books on Solid Waste. His research interests focus on landfill gas studies and bio-covers, waste characterization, municipal waste management, solidification/stabilization of hazardous wastes, biological treatment of waste, waste minimization and cleaner production, leachate studies and use for agro-irrigation, landfill remediation by chemical and biological methods, water and wastewater treatment, plastic biodegradation studies, Environmental Management Systems, Environmental Impact Assessment and waste management, Life Cycle Analysis in waste management, and value-addition of agricultural and industrial wastes for enzyme production, value-addition of agricultural wastes, material flow analysis (MFA), and bioremediation.
Prof. Agamuthu has carried out more than 50 consultancy/advisory projects. Examples of organizations advised are EPI Environmental Plastics, Australia (2001), the University of the West Indies, Jamaica (2000), MBPJ (on-going to the present), Ministry of Housing and Local Government, Malaysia (2006 to the present) as the National Technical Advisory Board Member, and United Nations Environmental Programme (2007). He is a Senior Advisory Group Expert to Executive Secretary of Basel Convention, Geneva, and UNEP. He is also involved in International research collaboration with Austria, Japan, Denmark, Sweden, Germany etc., as in the Integrated Sustainable Solid Waste Management (ISSOWAMA) project involving 26 Asian countries with funding from EU, and the 3R Resources project involving six Asian countries with funding from IGES, Japan.
Seminar 3

Date: 27 November 2018 (Tuesday)
Time: 2.00 pm – 5.00 pm
Venue: The Cube, fourth floor, Institute for Advanced Studies, University of Malaya
Topic: Towards Sustainable Solid Waste Management Technologies

SYNOPSIS

Basic, advanced and innovative solid waste management technologies will be discussed, with examples from local practices, and some international scenarios that could be applicable to Malaysia. Reference would be made to the waste management hierarchy.

Speaker

Ms. Jenny Tan Suat Eam
Environmental management and Research Association of Malaysia, ENSEARCH

BIODATA

Ms. Jenny TAN is currently a Partner in Adant Management PLT. A graduate in Chemistry, Jenny holds a Diploma in Management from the Malaysian Institute of Management and a Masters in Business Administration from Open University Malaysia. She has been trained in Environmental Management Systems, Environmental Auditing, Environmental Performance Evaluation, Environmental labels and declarations, and Life Cycle Assessment under the ISO 14000 series, and in Industrial Waste Management, Cleaner Production and Green Productivity.

Jenny has more than 35 years of environmental management and sustainability work experience with the government and private sectors, and environmental NGOs, as well as with UN agencies (UNDP, UNEP, World Bank, UNIDO) in various aspects of environmental project management, consultancy and training. Areas of work have included environmental ozone management/phase out of CFCs and HCFCs, air pollution monitoring and control, water
pollution monitoring and control, environmental impact assessment, environmentally hazardous substances, solid waste management, scheduled waste management, waste minimisation, resource efficiency, cleaner production/pollution prevention, green productivity, green technologies, environmental management systems, environmental audit, environmental performance, clean development mechanism, ecolabelling, sustainable consumption and production (SCP) and sustainability reporting for corporations. In addition, she has experience in organising as well as being a resource person/ facilitator for sustainability, environmental and waste management conferences/ workshops/ seminars.

Jenny serves as a member of the Steering Committee and also as technical and field assessor for the Malaysian Prime Minister’s Hibiscus Award (Environment Performance Award) for Industry & Business, organised jointly by the Environmental Management and Research Association of Malaysia (ENSEARCH), Federation of Malaysian Manufacturers (FMM), Malaysian International Chamber of Commerce & Industry (MICCI) and the former Business Council for Sustainability & Responsibility Malaysia (BCSRM). Currently she is a Council Member of ENSEARCH, and an Adviser to the Board of the Asia Pacific Roundtable on Sustainable Consumption and Production (APRSCP).