

Registration Form

● Name:
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◇ Fee : RM 950 (inclusive workshop materials)

◇ 10% off for 3 registration from the same organization.

● Signature:
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◇ Payment :
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◇ It is recommended for payer to indicate "TKS248 MyKAS FST UKM (activity code) in the payment details.

◇ Kindly submit proof of payment to
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Speakers

Shabbir H. Gheewala

Professor
Joint Graduate School of Energy
and Environment (JGSEE), KMUTT, Thailand

Koichi Shobatake

Director
TCO2 Co. Ltd, Japan

Madatheri Rajesh

Chief Executive Officer
Hybrid Green Manufacturing Sdn Bhd, Malaysia

Marlia Mohd Hanafiah

LCA Professional, UKM, Malaysia

i For Further enquiries

>> For questions related to workshop content, please contact **Dr. Marlia Mohd Hanafiah** at HP: +6019-3525969 / Phone: +603-89215865; email: mhmarlia@ukm.edu.my

>> For questions related to registration, payment and logistic, please contact **Mr. Mohd Hanafy Gausmian** at HP: +6019-6495695 / Phone: +603-89214577; email: napeyz@ukm.edu.my

LIFE CYCLE ASSESSMENT WORKSHOP AND HANDS-ON TRAINING ON SIMAPRO



3 – 5 October 2017
📍 **FACULTY OF SCIENCE
AND TECHNOLOGY, UKM**

Organized by: **SEMRG @ Faculty of Science and Technology**

01 Introduction

The **SEMRG** Research Group will be organizing a 3-day training workshops providing a basic understanding of Life Cycle Assessment (LCA). Life cycle assessment (LCA) is a comprehensive assessment and a holistic approach that can provide relative and accurate information to be applied in environmental management. LCA can be used to evaluate environmental impacts associated with a product's life cycle from cradle-to-grave including raw material extraction, transportation, materials processing and manufacturing, distribution, use, maintenance and disposal by identifying the energy, materials used and emissions released to the environment. LCA can help users to make more informed decision and provide a better understanding of the potential impacts of product development on human health and ecosystem quality. The potential impacts can be modeled using Simapro Software. Simapro is a tool that has been developed to help in gathering the facts and use the LCA expertise to provide the insights needed to create sustainable value

02 Objective

Therefore, the aim of the workshop is to provide exposure on how to conduct life cycle assessment analysis and to enhance the understanding of green technology application by the industry. The training on Simapro will help students and researchers to learn and develop skills in using the software.



03 Tentative Programme

3rd October 2017 (Day 1)

- 8.30 am - 9.00 am : Registration
- 9.00 am - 10.15 am : **Industrial talk**
Industry outlook on green technology implementations: scope and challenges
Mr. Madatheri Rajesh
(CEO, Hybrid Green Manufacturing Sdn Bhd, Malaysia)
- 10.15 am - 10.30 am : Coffee Break
- 10.30 am - 11.45 am : **Session 1 - (LCA)**
Introduction to Life Cycle Assessment
Life Cycle Assessment – a general introduction
Prof. Dr. Shabbir H. Gheewala
(King Mongkut's University of Technology Thonburi, Bangkok, Thailand) - KMUTT
- 11.45 am - 1.00 pm : **Session 2 - (LCI)**
Life Cycle Inventory
Data collection, validation and analysis
Prof. Dr. Shabbir H. Gheewala, (KMUTT)
- 1.00 pm - 2.15 pm : Lunch Break
- 2.15 pm - 3.30 pm : **Session 3 - (LCIA)**
Life Cycle Impact Assessment
Midpoint vs. Endpoint Indicators
Dr. Marlia Mohd Hanafiah, (UKM)
- 3.30 pm - 4.45 pm : **Session 4 - LCA Applications**
Use of LCA for various applications (hotspot analysis, product improvement, policy analysis)
Prof. Dr. Shabbir H. Gheewala, (KMUTT)

4th October 2017 (Day 2)

- 9.00 am - 10.15 am : **Session 5 - LCA Case Studies**
LCA of renewable energy sources
Prof. Dr. Shabbir H. Gheewala
(KMUTT)
- 10.15 am - 10.30 am : Coffee Break
- 10.30 am - 1.00 pm : Hands-on Training Simapro
Introduction of LCA using Simapro (1)
Mr. Koichi Shobatake
(TCO2 Co. Ltd, Japan)
- 1.00 pm - 2.15 pm : Lunch Break
- 2.15 pm - 4.45 pm : Hands-on Training Simapro
Introduction of LCA using Simapro (2)
Mr. Koichi Shobatake
(TCO2 Co. Ltd, Japan)

5th October 2017 (Day 3)

- 9.00 am - 10.15 am : Hands-on Training Simapro
Introduction of LCA using Simapro (3)
Mr. Koichi Shobatake
(TCO2 Co. Ltd, Japan)
- 10.15 am - 10.30 am : Coffee Break
- 10.30 am - 1.00 pm : Hands-on Training Simapro
LCA of agricultural products (1)
Mr. Koichi Shobatake
(TCO2 Co. Ltd, Japan)
- 1.00 pm - 2.15 pm : Lunch Break
- 2.15 pm - 4.45 pm : Hands-on Training Simapro
LCA of agricultural products (2)
Mr. Koichi Shobatake
(TCO2 Co. Ltd, Japan)

