

# A 4 Day Course on FUNDAMENTALS OF REFINING TECHNOLOGY

Date **12-15 July 2010**

CEPP, UTM INTERNATIONAL CAMPUS, KUALA LUMPUR



- **Course Objectives** | *At the end of the course, the participants will :*
- **understand** the importance of refining processes in the overall business chain of petroleum industry
  - **know** the composition and characteristics of petroleum products
  - **know** the various unit operation or different processes involved in refining petroleum

## ▪ Course Outline |

- **GLOBAL OUTLOOK IN PETROLEUM REFINING INDUSTRY**
- **CRUDE OIL AND REFINERY PRODUCTS**  
Introduction, Chemistry of Petroleum, Crude Oil Properties & Characterisation, Refinery Products Properties & Specifications
- **REFINERY PROCESSES**  
Chemical Reactions and Catalysis; Atmospheric and vacuum distillation units; Coke and Thermal Conversion Processes; Hydrorefining Processes; Catalytic Cracking Processes, Catalytic Reforming, Isomerisation Processes; Hydrogen Production, Treatment and Distribution

## ▪ Who should attend |

- Engineers, Scientists and Senior Plant Operators working in the refining industry
- Professionals who are working in on technical areas in the oil and gas industry (example legal, financial, commercial, human resource development areas. etc.)
- Graduates who are new in the refining industry

## ■ Course Tutor |



### Mr. Karl Kolmetz

Mr. Karl Kolmetz

Over twenty-five years of progressive experience in the design, construction, commissioning, and operations management of process units from the US Gulf Coast to Alaska through Asia. Strengths encompass design details that originate from a strong operations background, with the ability to incorporate positive ideas from differing sources.

Experience includes four years of Construction, two(2) of which were on the Alaskan Pipeline with Fluor Daniel. Seventeen years (17) of Refining experience, including eleven years in Catalytic Reforming, in The Charter/Phibro (now Valero) Refinery in Houston, Texas. One year of commissioning experience with a total of three years (3) experience with the Westlake / Titan Group : four years in Louisiana and three years in Malaysia. Two (2) years of specialty distillation experience as Asian Technical Manager for Sulzer Chemtech, a major distillation company. Publication include authoring and co-authoring over 35 technical papers on a variety of subjects for product recovery, distillation troubleshooting, training, project management, and process design with safety and environmental concerns. Papers have appeared in Oil and Gas Journal (5), Hydrocarbon Processing (1), and Chemical Engineering Progress (1). Conference papers have been presented at the AiChE Conference, the Indian Oil & Gas Conference, the Japan petroleum Institute Refining Conference, Oil and Fats International Congress, Best Practices in Process Plant Management, and the Asean Regional Olefins Conferences, as well as others. He has a Bachelor of Science in Chemical Engineering from the University of Houston. He is a member of the American Institute of Chemical Engineers and The American Chemical Society. Karl presently lives in Malaysia.

||Approved Training Provider by the **Ministry of Human Resource (Reg. No 045)** ||

Staff from more than **500 local and overseas companies** have attended our life-long learning programmes.

<http://www.cepp.utm.my>

Some of these companies are :

PETRONAS, SHELL, BP, SAUDI ARABIA BASIC IND. CORP.  
(SABIC), QATAR LNG, ALMARAI (SAUDI ARABIA), IDEMITSU,  
EASTMAN CHEMICALS, BASF PETRONAS, KUWAIT  
INSTITUTE for SCIENTIFIC RESEARCH, YOZAI etc.

### Method of Payments

Please kindly complete and return the reply form together with:

#### Local Participants

- By cheque / Bank draft which are made payable to **PHYTO BIZNET SDN BHD**

#### International Participants

- By Direct Transfer/Bank Draft:  
CEPP Bank details: **Bumiputra Commerce Bank Berhad  
Universiti Teknologi Malaysia  
81310 UTM Skudai, Johor, Malaysia**
- Account No : **0118-0004178-05-7**
- Please instruct your bank to remit us the full amount, net of bank charges.

### Cancellation & Substitutions

A full refund will be promptly made for all written cancellations 2 weeks before the meeting. 50% refund will be made for written cancellations received 7 days before the meeting. A substitute may be made at any time.

**Note** a) The organiser has the right to make any amendments that they deem to be in the best interest of the course and to cancel the course if insufficient registrations are received a week before course commencements date .

**B) CERTIFICATE OF ATTENDANCE** will be awarded at the end of the course.

*We can offer courses in-house at your company*

### Course Fee

	Single	2 or more
Local Participant (RM)	2250	2050
International Participant (USD)	1850	

*(Fee is inclusive of lunch, refreshments and course materials)*

## REPLY FORM

**FUNDAMENTALS OF REFINING TECHNOLOGY**  
**12-15 JULY 2010**  
**CEPP, UTM INTERNATIONAL CAMPUS, KUALA LUMPUR**

**YES ! I would like to register the following participants**

Name 1 \_\_\_\_\_

Job Title \_\_\_\_\_

Name 2 \_\_\_\_\_

Job Title \_\_\_\_\_

### COMPANY INFORMATION

Company \_\_\_\_\_

Address \_\_\_\_\_

Town \_\_\_\_\_

State \_\_\_\_\_

Tel \_\_\_\_\_ Fax \_\_\_\_\_

**AUTHORISED Signatory** (\*This registration is invalid without signature form an authorised officer)

Name \_\_\_\_\_

Job Title \_\_\_\_\_

Tel \_\_\_\_\_ Fax \_\_\_\_\_

## ENQUIRIES

CHEMICAL ENGINEERING PILOT PLANT, UNIVERSITI TEKNOLOGI MALAYSIA

### MAIN OFFICE

81310 UTM Skudai, Johor, Malaysia  
Tel : +607-5531559 Fax : +607 - 5569706  
Attn: **Mrs Zulia** E-mail : zulia@cepp.utm.my

### BRANCH OFFICE

UTM *City Campus*, Jalan Semarak, 54100 Kuala Lumpur, Malaysia  
Tel : +603-2615 4358 / 2615 4406 Fax : +603-26937921  
Attn: **Mrs Nik Norhayati** E-mail : nikyati@utmkl.utm.my