

REGISTRATION FORM

No	Name of Participants	M'ship No	Fee (RM)
i)			
ii)			
iii)			
iv)			
v)			
Total Payable			

*Fees MUST BE FULLY PAID BEFORE THE CLOSING DATE. Seats could only be confirmed upon payment. ACCOUNT NO. : 176-302-860-2 UNITED OVERSEA BANK (UOB)

Enclosed herewith a crossed cheque No: _____ for the sum of RM _____ issued in favour of "The Institution of Engineers Malaysia, Negeri Sembilan Branch" and crossed 'A/C payee only'. I/We understand that the fee is not refundable if I/We withdraw after my/our application is accepted by the Organising Committee as stated in the cancellation term. If I/We fail to attend the seminar, the paid registration fee will not be refunded.

Contact Person : _____ Designation : _____

Name of Organisation : _____

Address : _____

Telephone No. : _____ (O) _____ (Fax)

_____ (H) _____ (HP)

Email : _____

Date : _____

Signature & Stamp

* Note: Closing date: 13th March 2014. Please fax to 06-6314619 or email to iemnsembilan@gmail.com

REGISTRATION FEE	
IEM MEMBER	NON-MEMBER
RM200	RM250



THE INSTITUTION OF ENGINEERS MALAYSIA NEGERI SEMBILAN BRANCH

One Day Workshop on

BEM APPROVED
CDP/PDP Hours = 6.5
Ref. No: IEM14/NS/086/W

Industrial Heat Exchanger

*Operation and Maintenance to
minimise fouling and corrosion*

No. 77-A-1, Jalan Haruan 5/3,
Oakland Commerce Square,
70300 Seremban,
Negeri Sembilan
Tel : 06-6311011
Fax : 06-6314619
Email : iemnsembilan@gmail.com
Website : www.iemns.org.my

1st April 2014
Tuesday
09.00am-5.00pm
IEMNS Building

CLOSING DATE : 27TH MARCH 2014

IMPORTANT NOTES

- Closing Date : 27TH MARCH 2014
- Payment can be made via CASH / CHEQUE / BANK-IN TRANSMISSION / ONLINE TRANSFER / MONEY ORDER / POSTAL ORDER / LO / WALK-IN.
- FULL PAYMENT must be settled before commencement of course, otherwise participant will not allowed to enter the hall. If a place is reserved and intended participant fail to attend the course, fee is to be settled in full. If participant made payment and failed to attend the course, the fee paid is non-refundable.
- The Organising Committee reserves the right to alter or change the programme due to unforeseen circumstances.

SYNOPSIS

Heat exchangers are widely used in industries both for cooling and heating of large scale industrial process fluid. The design of the used heat exchangers can be tailored to suit a process depending on the type of fluid, its phase, temperature, density, viscosity, pressures, chemical composition and various other thermodynamic properties. In the wake of energy crisis efficient heat recovery or dissipation of heat has become a challenge to the Engineers and Scientists.

For efficiency, heat exchangers are designed to maximise the surface area of the wall between the two fluids, while minimising resistance to fluid flow through the exchanger. The exchanger's performance can also be affected by the addition of fins or corrugations in one or both directions, which increase surface area and may channel fluid flow or induce turbulence. Online monitoring of industrial heat exchangers is done by tracking the overall heat transfer coefficient, from its flowrates and temperatures, that tends to decline over time due to fouling.

Maintenance of turbular heat exchangers can be performed by several methods such as acid cleaning, sandblasting, high-pressure water jet, bullet cleaning, or drill rods. In large-scale cooling water systems for heat exchangers, water treatment such as purification, addition of chemicals, and testing, is used to minimise fouling of the heat exchanger equipment. Other water treatment is also used in steam systems for power plants etc to minimise fouling and corrosion of the heat exchanger and other equipment.

SCHEDULE & OUTLINE

TIME	PROGRAMME
09.00am - 09.30am	Light Breakfast / Registration
09.30am – 10.45am	<u>Session 1</u> Introduction to Heat Exchanging Equipment in Industry. Heat Exchanger's Design
10.45am – 11.15am	Tea Break
11.15 am – 12 45pm	<u>Session 2</u> Fouling and Fouling Mitigation. Problems in Heat Exchanger Operation and Solutions.
12.45pm - 2.00pm	Lunch
2.00pm – 3.30pm	<u>Session 3</u> Maintenance of Heat Exchangers. Corrective/ Breakdown Maintenance. Preventive and Predictive Maintenance.
3.30pm – 4.00pm	Tea Break
4.00pm – 5.00pm	Problems and Solutions, Q & A Session Certificate Presentation

BIODATA



DR. KAZI SALIM MD. NEWAZ holds a Master and Doctorate Degrees in the field of Chemical and Materials Engineering from University of Auckland, New Zealand.

He has more than 20 years engineering service experience in Petrochemical industries. He was a Head of Engineering and Construction of a Chemical plant producing Sulfuric Acid and Single Super Phosphate. He also worked as a Consultant of Crown Agents Services Limited, a British Company, where he was involved in gas pipelines layout and installation, gas drilling environment management etc. He has also worked as Plant Manager of a Hydrogen Peroxide plant of capacity 60 ton per day.

Currently, he works as an academic staff and researcher at the Department of Mechanical Engineering, Faculty of Engineering, Universiti Malaya, Malaysia. Dr. Kazi is a Corporate Member of Institution of Mechanical, UK (MIMechE) and a Chartered Engineer, UK (CEng).



IR. DR. ABU BAKAR MAHAT holds a Master and Doctorate Degrees in the field of Manufacturing Technology from University of Manchester Institute of Science and Technology (UMIST), United Kingdom. He has substantial industrial experience that covers many technical and management functions particularly on the design, planning, construction, operations and maintenance of industrial plants.

Currently, he is a Consultant/ Professor (Industry) at the Department of Mechanical Engineering, Faculty of Engineering, Universiti Malaya. His last employment was as Director of Commercial and Business Division, Universiti Kuala Lumpur.

Last but not least, he is a highly respectable and reputable professional in the field of Mechanical and Manufacturing as Corporate Member of IEM (MEIM), registered Professional Engineer with BEM (PEng), Corporate Member of Institution of Mechanical Engineer, UK (MIMechE) and a Chartered Engineer, UK (CEng)