A 3 Day Course on
CORROSION PREVENTION & CONTROL

date 28 - 30 July 2008  time 8.30am - 3.30pm
venue CEPP, UTM City Campus, Kuala Lumpur

INTRODUCTION
The annual cost of corrosion around the world is estimated to be in the billions of dollars and may reach up to 4% of the gross domestic product in industrialized countries. In the marine environment for instance, corrosion of structures, ships, and pipelines is a major problem and represents a significant loss to the operational cost as well as productivity. Much of this loss is avoidable if existing technologies of corrosion control are applied correctly. There is a continuing quest to improve existing technologies and develop new ones to protect against corrosion in the marine environment. The advances achieved in corrosion protection are the results of new coating, the use of advanced materials as well new techniques of cathodic protection. Successful protection against corrosion, however, requires understanding the principles of corrosion and sound application of the techniques of corrosion control. This course focuses on the causes of marine corrosion, identification of all forms of corrosion in the marine environment, and the various methods corrosion prevention and control of marine structures.

LEARNING OUTCOME
At the end of the course, the participant will be able...

- to explain the principles of aqueous corrosion and oxidation as well as to identify the various forms of corrosion.
- to select the suitable corrosion tests.
- to select the appropriate corrosion control method to solve corrosion problems.

COURSE TUTORS

Professor Dr. Esah Hamzah
Dr Esah is a professor in Materials Engineering at the faculty of Mechanical Engineering, Universiti Teknologi Malaysia. Dr Esah has 30 years teaching, research and consultancy experience in the field of metallurgy and corrosion engineering. Dr has been involved in research related to corrosion and oxidation of steels and Ti-Al intermetallics over the last 6 years and has also worked on sacrificial anode materials such as aluminium and magnesium. Dr. Esah has also supervised several postgraduate students at the master and PhD level. She has been invited to give keynote lectures at various conferences and seminars. Dr. Esah is a member of the Institute of Materials (UK)

Assoc. Prof. Dr. Ali Ourdjini
Dr. Ourdjini is an associate professor in Materials Engineering at the faculty of Mechanical Engineering, Universiti Teknologi Malaysia. Dr Ourdjini has 13 years experience in teaching, research and consultancy work. Dr. Ourdjini’s research has included processing and corrosion behaviour of aluminium and aluminium metal matrix composites. Dr Ourdjini also has led several research projects in the area of electroless plating of nickel, silver and gold. Dr Ourdjini is involved in teaching materials related subjects such corrosion and surface protection, materials selection in engineering design.
COURSE CONTENT

Fax: +603 - 26937921
Tel: +603 - 2615 4358 / 4406
54100 Kuala Lumpur, MALAYSIA
Email: rohaizan@cepp.utm.my

Attn: Ms. Rohaizan
Fax: +607 - 5569706
Tel: +607 - 5531559 / 31565
Johor, MALAYSIA

PILOT PLANT

For more information please click etc.

KHARTOUM REFINERY,
Scientific Research,
Institute of PETRONAS, KUWAIT

ALMARAI
QATAR LNG,
CORP. (SABIC),
PETRONAS, SHELL,
Some of these programmes.

450 local and overseas
Ministry of
Approved Training

Significance of corrosion control
Factors influencing corrosion
Thermodynamics and kinetics of corrosion
Control and prevention methods
Corrosion in Soils
Corrosion in potable water, natural water
Case study for oil & gas structures
Corrosion monitoring techniques
Design guidelines for corrosion prevention

Theory, Practice and Applications of AP
CPSacrificial anode CP system
- Practical applications
- System requirements
- CP in concrete structures
- CP in soil
- Impressed current CP
EURO950
Local Participant
RM1650 (Single) | RM1550 (2 or more)

International Participant
| EURO950

From the following countries…

- 7.35 juta Rupiah
- 26,950 Baht
- 12.8 Million Dong
- 5950 Renminbi
- 1200 SGD
- 1200 BND

COURSE FEE

Fee is inclusive of lunch, refreshments and course materials. Accommodation is not included.

Method of payment
Please kindly complete and return the reply form 3 weeks before the commencement date together with :

Local Participants
Cheque / Bank draft which are made payable to PHYTO BIZNET SDN. BHD.

International Participants
Direct Transfer/Bank Draft:
CEPP details: CIMB Bank Berhad,
Universiti Teknologi Malaysia
81310 UTM Skudai, Johor, Malaysia

Account No: 0118 - 0004178 - 05 - 7
Swift Code CIBBMYKL

Cancellation & Substitutions
A full refund will be promptly made for all written cancellations 2 weeks before the course. 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.

who SHOULD ATTEND

Shutdown or Turnaround Managers, Operation Shutdown/Outage Coordinators and Supervisors, Construction Planners; Superintendents and Supervisors, Project and Maintenance Engineers. Other Professionals who are involved in Cost Control, Inspection, Material Management, Safety, and Maintenance Operation are recommended to attend.

UTM City Campus is situated about 10 minutes drive from the famous Kuala Lumpur landmark, the PETRONAS TWIN TOWER and KLCC, the prime shopping centre. It is easily accessible by road and major hotels are located nearby.

For more information please contact us at:

CHEMICAL ENGINEERING PILOT PLANT
UNIVERSITI TEKNOLOGI MALAYSIA
81310 UTM Skudai,
Johor, MALAYSIA
Tel: +607 - 5531559 / 31565
Fax: +607 - 5569706
Attn: Ms. Rohaizan
Email: rohaizan@cepp.utm.my

RM1500 Baht

Dr. Ourjdini also has led several research and consultancy work. Dr. Ourjdini's research has included processing and corrosion of steels and Ti-Al intermetallics over the last 6 years and has also worked on oxide coatings for steels and Ti-Al intermetallics. Dr. Ourjdini has also been involved in the development of materials for high-temperature applications.

Dr. Esah is a professor in Materials Engineering at the faculty of Mechanical Engineering, Universiti Teknologi Malaysia and is a member of the Materials Research Institute (MaRI). Dr. Esah has been involved in research and consultancy work in the field of materials engineering, with a particular focus on the development of new materials for the aerospace and automotive industries. Dr. Esah has also been involved in the development of new coatings, the use of advanced materials as well as new techniques of cathodic protection. Successful protection against corrosion in the marine environment requires understanding the principles of corrosion and sound application of corrosion monitoring techniques.

Dr. Esah has also been involved in research and consultancy work in the field of materials engineering, with a particular focus on the development of new materials for the aerospace and automotive industries. Dr. Esah has also been involved in the development of new coatings, the use of advanced materials as well as new techniques of cathodic protection. Successful protection against corrosion in the marine environment requires understanding the principles of corrosion and sound application of corrosion monitoring techniques.

For more information please visit www.cepp.utm.my