4-day Short Course on
SUBSEA SYSTEMS ENGINEERING

COURSE LECTURERS
Dr. Bil Loth CEng, FIMarEST
WD Loth & Company Ltd
United Kingdom

A/Prof. Loh Wai Lam CEng, MRAeS, SPE
Department of Mechanical Engineering
National University of Singapore

DATE
23rd – 26th November 2009

TIME
9:00am to 5:00pm daily

VENUE
National University of Singapore

Course Fees:
Local Participants: SGD2,675.00 (inclusive of 7% GST)
Overseas participants: SGD2,500.00 (GST Exempted)

Registration Fees:
Please contact Miss Lilian CHOONG for more information at
Tel: +65 6516 5113 / Email: engcll@nus.edu.sg

Discount:
10% (max.) discount is applicable to:
- NUS Alumni;
- Organization / Companies sending three or more participants;

Refund and Cancellation:
A 50% refund will be made for withdrawals (received in writing) ten working days before the commencement of the course. No refunds will be made thereafter. However, a replacement will be accepted upon prior arrangement at no extra cost. Please inform us of the changes, if any, by fax. The Professional Activities Centre reserves the right to cancel the course and fully refund the participants, should unforeseen circumstances warrant it. Every effort will be made to inform participants of any changes.

Payment Modes:
Visa/Mastercard/AMEX, Cheque (All cheques are to be made payable to “National University of Singapore”)

Closing Date: 9th November 2009
This Subsea Systems Engineering Course aims to give participants an overview of all of the key processes, technologies and equipment that comprise contemporary subsea production developments. It focuses on how subsea hardware, pipelines, risers systems, and other equipment relate to design philosophies and how to establish a basis for subsea production system design. It also provides details of project activities, from the drilling of the well to bringing the system into production.

**Target Audience**
- Project managers who want to know more about the technology they are directing
- Project engineers who specialize in a specific area, but need to know about how other technologies interface with their own
- Engineers from other disciplines who are moving into the subsea area
- Newly qualified engineers who just coming into the offshore industry

**Lecturers Profile**

**Dr Bil LOTH** was the Past President of IMarEST, and since 1986 runs his own consulting, WD Loth and company which provides subsea engineering expertise on world-class development projects all over the globe and developed a number of specialized technologies for deepwater application. He now divides his time between London and Houston as a technical advisor for major operators and engineering contractors.

Bil's entire professional career has been in offshore engineering. He joined the fledging subsea group at Esso Production Research company upon graduation. In the first ten years, he held various positions in the production department of Exxon during which time he was a member of the task force which designed and installed the first multiflux template based subsea production system. He was then seconded to Shell Expro in the UK and for the next ten years held various positions in the execution and planning of underwater developments.

**A/Prof LOH Wai Lam** is currently an Associate Professor in the Department of Mechanical Engineering of National University of Singapore (NUS) where he coordinates the Offshore Oil & Gas Technology Specialisation. He is also the Programme Manager (Subsea Systems and Transportation) for the Centre of Offshore Research & Engineering (CORE).

Before joining NUS, A/Prof Loth has worked for 16 years in the UK for several Oil & Gas and related companies, in the capacities of Senior Project Engineer, Project Manager, Consultant and Head of R&D. During this time he has led and managed numerous multi-disciplinary consortium R&D projects for the Oil & Gas Industry relating to Oil & Gas production, processing and transportation, etc. He is a Chartered Engineer and a Member of the Society of Petroleum Engineers. He has also successfully invented, patented and developed numerous novel devices and systems for the Oil & Gas Industry. Through his innovative work, Dr Loth has received several prestigious international awards including The Royal Society Esso Energy Award and Gold Medal in 1998 and the Special Meritorious Award for Engineering Innovation from Hart's Petroleum International, USA, in 1999.

A/Prof Loth graduated from University of Manchester in UK, where he did his BEng, MSc and PhD. His research areas are Subsea Processing, Multiphase jet pump and ejectors, Multiphase pumping, Multiphase flow metering and Multiphase oil/water/gas separation.