Marine Control Systems

27—28 April 2005, 9 am—5 pm

Registration Fee: S$650 + $32.50 (GST)

Dr/Mr/Ms: ____________________________
Designation: ____________________________
Organization: ____________________________
Address: ________________________________

Contact Person: __________________________
Tel: __________________________ Fax: ________________
Email: __________________________

*** Dietary Preference: Chinese / Halal / Vegetarian

Payment Mode:
Cheque: ________________ Amt (S$): ________________
VISA/MSTR: __________________________

Exp. Date: ____________ Signature: ____________

Closing Date: 12 April 2005

Payment is required prior to commencement of the course. Crossed cheques should be made payable to "National University of Singapore" and mail together with the registration form to Professional Activities Centre, Faculty of Engineering, National University of Singapore, Blk EA-05-34, 9 Engineering Drive 1, Singapore 117576. A 50% refund will be made for withdrawals (received in writing) 10 working days before the commencement of the course. No refund will be made thereafter. Replacements are welcome. Please inform us of any changes by writing. PAC reserves the rights to cancel the course and fully refund the participants, should unforesee circumstances warrant it. Every effort will be made to inform participants of any changes.

By
Professor Asgeir J. Sørensen
Norwegian University of Science and Technology – NTNU

Dr. Ole Jakob Sørødalen
Counsellor Science and Technology for South East Asia, Royal Norwegian Embassy in Singapore

Venue: National University of Singapore
Date: Wednesday—Thursday, 27—28 April 2005
Time: 9 am—5 pm

Organized by:
Centre for Offshore Research & Engineering, Department of Civil Engineering
Faculty of Engineering
National University of Singapore

Secretariat:
Professional Activities
Introduction

This course is based on the course TMR4240 Marine Control Systems given for Master Students at the Department of Marine Technology & Engineering Cybernetics, NTNU as a part of the specialization on Marine Cybernetics.

This course will give an introduction to the design of control systems for dynamic positioning of ships and floaters and marine operations.

Who Should Attend?
Practicing Engineers, Researchers, Specialists, Professionals & Senior Technicians

Professional Development Units:
Accredited by Professional Engineers Board.

Contents

The course focuses on the design of control systems for various marine operations, motion control, positioning, manoeuvring, machinery systems and propulsion systems for ships and floating marine structures.

Program:

Day 1 — Overview of Marine Control Systems and Basic Theory
- Introduction to Marine Control Systems
- Introduction to Control Theory
- Signal Processing
- Filtering & State Estimation
- Dynamic Positioning

Day 2 — Dynamic Positioning, Marine Automation, Diesel Electrical Propulsion and Trends
- Dynamic Positioning
- Marine Automation
- Power System
- Diesel Electrical Propulsion
- Trends with Marine Control Systems