Evening Lecture

Jointly Organised by
The Joint Branch of RINA & IMarEST
Society of Naval Architects and Marine Engineers Singapore
and
Centre for Offshore Research & Engineering (CORE), NUS

“The All Electric Ship - The Reality”

By Dr Makhlouf Benatmane
Naval Business Manager, ALSTOM Power Conversion Ltd, Marine & Offshore - UK

Date: Thursday 9 February 2006

Time: 6.30pm to 7pm Registration & Refreshments
Talk begins at 7 p.m.

Venue: Seminar Room EA-02-11, Faculty of Engineering, National University of Singapore
(see attached map)

Please see the attached documents for the abstract of the talk and biography of the speaker.

Please confirm with Ms. Juliana by Wed 8 Feb 2006 via the reply slip.

A/Prof. Choo Yoo Sang
Chairman
The Joint Branch of the RINA and the IMarEST (Singapore)

REPLY SLIP - Fax No. 67791635; Tel No. 65162149; Ms Juliana Binte Miswan, Email:
cvejulia@nus.edu.sg

Yes, I would like to attend the talk

Name :_____________________________________________________________
Designation :_________________________________________________________
Company :___________________________________________________________
Address :____________________________________________________________
Tel No.  :____________ Fax:___________E-Mail:____________________________

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Singapore Joint Branch, please provide your E-Mail address now for enhanced communication)
The All Electric Ship - The Reality

By Dr Makhlouf Benatmane
Naval Business Manager, ALSTOM Power Conversion Ltd, Marine & Offshore - UK

ABSTRACT

The talk will be on Electric Power & Propulsion Systems and their associated automation systems.

The last twenty years has seen a dramatic growth in the application of Electric Propulsion Systems for both naval and commercial vessels.

The talk will cover:
- The reasons behind this growth and the developments in technology which have influenced the extension into Integrated Electric Propulsion.
- The benefits that can be obtained from future technologies and indicate where the future potential lies in electric propulsion.
- The development and de-risking of the Integrated Electric Propulsion system employed by the major navies for their major programmes
- Typical electric power and propulsion systems onboard vessels and their associated automation systems.

About the Speaker

Dr Makhlouf Benatmane has extensive experience in electrical systems engineering, design and project management in industrial and marine applications. His interests are in power systems design and power electronics development and he was heavily involved in the execution of recent major naval programmes such as the USN's Integrated Power System, the MOD UK's Type 45 Destroyer and state of the art commercial ships systems. Dr Benatmane holds a PhD in Electrical Engineering from the University of Nottingham and a BSc (Hons). He is a Chartered Engineer and member of the Institution of Electrical Engineers. He is currently Naval Business Manager for ALSTOM Power Conversion Ltd, Rugby - UK.