Evening Lecture
Jointly Organised by
Centre for Offshore Research & Engineering, NUS
Society of Naval Architects and Marine Engineers Singapore
and
The Joint Branch of RINA and IMarEST, Singapore
on
Steel blasting with Glass and Management Information Systems for Shiprepairs
by
George Bruce
Professor of Shiprepair and Conversion
School of Marine Science and Technology, University of Newcastle upon Tyne

Date:  Friday 3 March 2006
Time:  1830 hrs - Registration & Refreshments
       1900 hrs - Talk begins followed by Questions and Answers Session
Venue:  Engineering Auditorium, National University of Singapore
For your easy direction, kindly use this URL:  http://www.nus.edu.sg/corporate/visitors/map.pdf

Registration: Please confirm with Ms. Joan Chua by Wednesday 1 March 2006 via the reply slip.

Reply Slip - Fax no. 6-281-2231 or E-mail: admin@snames.org.sg

Yes, I would like to attend the talk

Name : _____________________________________________________________
Designation : _____________________________________________________________
Company : _____________________________________________________________
Address : _____________________________________________________________
Tel number : ______________________ Facsimile: ______________________________
E-mail Address : ___________________________________________________________
Abstract
The School of Marine Science and Technology, University of Newcastle upon Tyne UK, continues to be very active in several research projects. One area to highlight is the research done in ship repair. Two of the projects are highlighted here for sharing with members of the marine technology societies in Singapore given their high relevance to the marine industry. The first was a project to evaluate the use of recycled glass as an alternative shotblasting medium. Tests have been conducted using glass, which have given good surface finish and some evidence of reduced corrosion. Overall the performance is similar to grit and better than UHP water blasting.

The second was a project to address the many difficulties encountered in managing shiprepair because of frequently changing requirements. The needs of shipowners, the demands of Classification Societies and other regulators change as work progresses and the actual condition of the ship and its equipment is determined. An effective and readily accessible database is the core of a management system developed with a UK shiprepairer. Using the individual task as the key element, the system supports marketing, estimating, work list preparation, purchasing, man-hour recording and invoicing. It links to accounting and other legacy systems, and is designed to be flexible in development and operation that can fit into the respective regimes of the shipyards.

George James Bruce
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Professor of Shiprepair and Conversion

Qualifications:
Master of Business Administration University of Newcastle
B.Sc. Naval Architecture (2.1) University of Newcastle
Chartered Engineer

Memberships of Professional Bodies:
Fellow, Royal Institution of Naval Architects
Member, Society of Naval Architects & Marine Engineers (USA)

Current Research Activities:
The development of integrated information technology systems for shiprepair, conversion and supply chain companies. A project with SSA to trial the use of recycled glass as a shotblasting medium.

SHIPEMATES, an EU-funded project to develop new technology for shiprepair and conversion. Other work includes collaboration with SMEs in the marine supply chain, to develop new facilities, marketing and information systems.

Recently completed projects include INTERMAR, EU-funded which developed systems for improved e-commerce in shiprepair, a study for Shipbuilders Association (SSA) into the marine sector supply chain and a project to develop a software tool to improve outfitting of ships, including supply chain management and use of sub-contractors.

External activities:
Member of International Ship Structure Congress Specialist Production Committee.
Member CESA Shiprepair Group.
Member of the RINA Publications committee.
Member of Shipbuilders and Shiprepairers Association Management Council.
Member of Marine Industry working group on careers. “Sea Vision”.
Previous Appointments:

1994-1996    Part time Senior Research Associate, University of Newcastle.
1991-1996    Associate Lecturer, Open University Business School.
1978-1981    Research and Development Manager, British Shipbuilders
1974-1978    Project Consultant, A & P Appledore
1966-1974    Design & Production, Swan Hunter Shipbuilders Ltd