## Industry Nite

Jointly Organised by
Society of Naval Architects and Marine Engineers Singapore
&
Ngee Ann Polytechnic – School of Engineering

### " Recent Developments in Marine CAD/CAM "

by Mr. Alfonso Cebollero Sener, Spain

Date: Friday, 20 March 2009

Programme

1800 hours Registration
1830 hours Presentation on
" Recent Developments in Marine CAD/CAM "
by Mr. Alfonso Cebollero
Deputy Director, Marine Systems Department
SENER Ingeniería y Sistemas S.A.

Questions & Answers Session

2000 hours Buffet dinner follows after the presentation

Venue: LT51C
Ngee Ann Polytechnic

535 Clementi Road
Singapore 599489
(See map as attached)

RSVP:
Pre-registration is required via e-mail to secretariat@snames.org.sg by 19 March 2 009 using reply slip as attached.

Kindly bring along 2 business cards for registration purposes.

Name:
_____

Company: _____

Contact Number: _____ (Mobile Phone) _____ (Office)

E-mail Address: _____

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

Abstract

RECENT TRENDS IN MARINE CAD/CAM

For over forty five years SENER has developed and marketed FORAN, a 3D CAD/CAM System for the design and production of all types of ship and floating vessels, and thus has constantly to be aware of the latest technological developments both in the shipyard and in computer technology to be able to stay as a world leader in this market.

This paper sets out the most important requirements of the shipyards and innovations that have been detected by SENER and are being, or have been, incorporated in FORAN.

The trend in shipbuilding today is towards the digital shipyard and the innovations are directed towards that end. The first requisite in this task is to have all the information for the design of the ship well organised in a relational database which can contain the complete 3D ship product model.

With this starting point the possibility of concurrent and distributed engineering is made available and the current possibilities for working on the same ship model in different geographical sites in real time, but maintaining the integrity of the information, are discussed.

Having the 3D product model is also the starting point for the interaction of the CAD/CAM system with PLM, PDM and ERP systems and in fact with most other business systems that the shipyard wishes to employ. FORAN uses the Oracle database, which is the de facto standard for relational databases and with which the majority of the management systems can work.

About the Speaker

CEBOLLERO, Alfonso

Personal Data

Name: Alfonso Luis

Graduate Record
Major: MSc Naval Architecture & Marine Engineering
University: Polytechnic University of Madrid

Period: 1979 – 1985

Post-Grade: MA Shipping Business

University: Instituto Católico de Administración y Dirección de Empresas

Period: 1987 – 1988

Work Experience

1994 – SENER Ingeniería y Sistemas S.A.

Marine Systems Department , Madrid

--> Deputy Director, Marine Systems Department (current position)

--> Business Development and International Expansion

--> Coordination and Management of R&D Projects

--> Sales and Marketing of Marine Computer Systems

1989 – 1993 Aries Industrial y Naval S.A.

Defence Department , Madrid

--> Sales & Marketing of Computer Systems (SCADA, Management)

--> Software Development (NATO Systems, Logistics)

1985 – 1988 IME Consultores S.A.

Systems Department , Madrid

--> IT Support and Consultancy

--> Software Development (Management)

1983 – 1985 Empresa Nacional Bazán S.A.

--> Software Development (Propeller Design) at Head Office, Madrid

--> Scholarship at San Fernando Shipyard, Cádiz