



The International Contract Engineering (ICE) Group is one of Europe's largest independent ship design and marine engineering consultancies, with an annual capacity of more than ½ million professional engineering man-hours. Headquartered in the Isle of Man, the Group has been in business more than 40 years. It offers a full range of high caliber, cost-effective engineering and design services, either in its own design offices in Romania and the UK or at clients' sites.

The ICE Group is today engaged with projects for the offshore oil & gas industry and with design of commercial, naval and coast guard ships. ICE undertakes the full design scope from conceptual design through class drawings, detail design and production information and also advises clients on build strategy, project management, procurement, shipyard layout and productivity.

The Group's experience includes design for new construction and conversion of a wide range of vessels including tankers, bulk carriers, passenger cruise vessels, ro-ro ferries, naval patrol vessels, frigates, corvettes, jack-up drilling rigs, LNG and LPG gas carriers, semi-submersible drilling rigs, offshore service vessels, FSOs, FPSOs, research vessels and fixed offshore production platforms.

Clients include leading shipyards, ship owners and offshore industry contractors throughout Europe as well as in Brazil, Canada, China, India, Japan, Korea, the Middle East, Singapore and the US.

## ICE Chairman's New Year's Message

2012 was a year in which our efforts to re-structure ICE and enter new markets bore fruit. Since the 2009 downturn in shipbuilding we have changed our focus from commercial ships to design of large and complex vessels for the offshore energy industry. As a result, we have won new substantial clients in growth markets. Only 15% of our activities in 2012 was for domestic customers (Romania and the UK), with 40% for Brazilian and 20% for Norwegian clients, respectively. 80% of our work was offshore-related.

We start the New Year with a contract backlog that stretches towards the end of 2014. Our 2013 revenue will be the highest in our 45-year history. We plan to hire 90 new engineers in addition to the 70 that joined us in 2012; many of these are former employees whom we are pleased to welcome back. We will invest Euros 2.5 million during 2013, mostly for IT software and hardware. We will continue to improve our financial strength, increase our capacity and earn our clients' recognition of ICE as a leading international marine design Group.

I thank our many clients for their trust in ICE, and I thank our employees and subcontractors for their dedication to our success. I wish all a Happy New Year.

*Steinar Draegebo*  
ICE Group Chairman



## Successful Drill Ship Project Audit

Last month, representatives from Petrobras and Odebrecht Óleo e Gás S.A. (OOG) spent a week in Galati to review status of design and procurement for the series of six drill ships for which ICE provides design and



*The picture shows an artist's impression of the Qdrill vessel (picture courtesy of GustoMSC).*

associated services to Estaleiro Ensenada do Paraguacu (EEP).

ICE is now six months into its design contract, which will last well into 2014.

In meetings with the Brazilian delegation, the EEP team resident at ICE's Romanian office, and EEP's drill system and other experts (in total 22 visitors), the ICE project team systematically explained progress to date. The visitors commented positively on the status and quality of the 3D model that ICE has developed and of ICE's overall management of this complex project.



## ICE at EXPONAVAL 2012

ICE participated last month in the British pavilion at Latin America's largest naval defence trade show, the EXPO-NAVAL 2012 in Chile. The Brazilian Navy in 2012 purchased three Amazon Class Offshore Patrol Vessels built in the UK by BAE Systems. ICE provided extensive design services for those vessels and will offer similar assistance to yards in South America and elsewhere. The ICE stand highlighted its long experience with design of naval and coast guard



Photo courtesy of BAE Systems.

vessels for clients in Canada, Greece, Germany, Romania and the UK, and it also showed ICE's involvement with design of drill ships and FPSOs for clients in Brazil.



The picture shows Admiral Edmundo Gonzalez Robles, Commander-in-Chief of the Chilean Navy being briefed at the ICE stand by Steinar Draegebo, ICE Chairman (left) and Derek Doig, Managing Director of ICE Engineering Services UK Ltd. (photo courtesy of Greg Roberts).

## ICE Hosting Marine Technology Briefings



Pictured here is Fridtjof Erichsen, a technical expert from Norwegian Electric Systems AS (NES) explaining the innovative and cost-saving features of a diesel-electric system that NES delivered to a wind turbine installation vessel designed by ICE.

ICE last year took the initiative to a series of free Marine Technology Briefings, inviting selected suppliers of marine equipment and systems to present state-of-the-art solutions at 2-hour interactive seminars. In addition to members of ICE's in-house technical staff, participants came from Romanian shipyards (Damen, STX and Daewoo Mangalia), from other local ship design companies and from the Naval Architecture and other engineering faculties at the Galati University.

With focus on technology rather than commercial "selling", the Briefings have been well received both by the suppliers and by the local marine community. ICE intends to host several similar Briefings in 2013.

## From Our Project Portfolio

### Passenger and Roll-on Roll-off Car and Commercial Vehicle Ferry

**Scope of Work:** Workshop drawings, Production information (hull, machinery, technical rooms) - Tribon

**Year:** 2003 -04

**Client:** Chantiers de l'Atlantique in St. Nazaire, France

**Owner:** Sea France



Photo courtesy of STX Europe - Bernard Biger.