

NEWSLETTER



ICE at Posidonia in Athens, June 4-8

At this year's Posidonia exhibition, in addition to showing its latest ship designs ICE will highlight its design services for retrofit of ballast water treatment (BWT) and scrubber systems.

This is the third major international trade show for ICE so far this year. ICE had a stand at the Sea Japan event in Tokyo in April and participated at the 2018 Offshore

Technology Conference in Houston, Texas in early May. Organisers expect that over 22,000 shipping industry executives will attend the five-day Posidonia event, which takes place every second year.

We look forward to seeing clients and other friends at **our stand no. 1.221/D, Hall 1 (inside the UK Pavilion).**



Revival of the FPSO Market

After several quiet years, ICE is again receiving inquiries and providing FPSO-related design services. Recently Mihaela Bobe (pictured here), one of ICE's most experienced marine systems engineer, successfully carried out an on-site support assignment at an FPSO in Dubai.

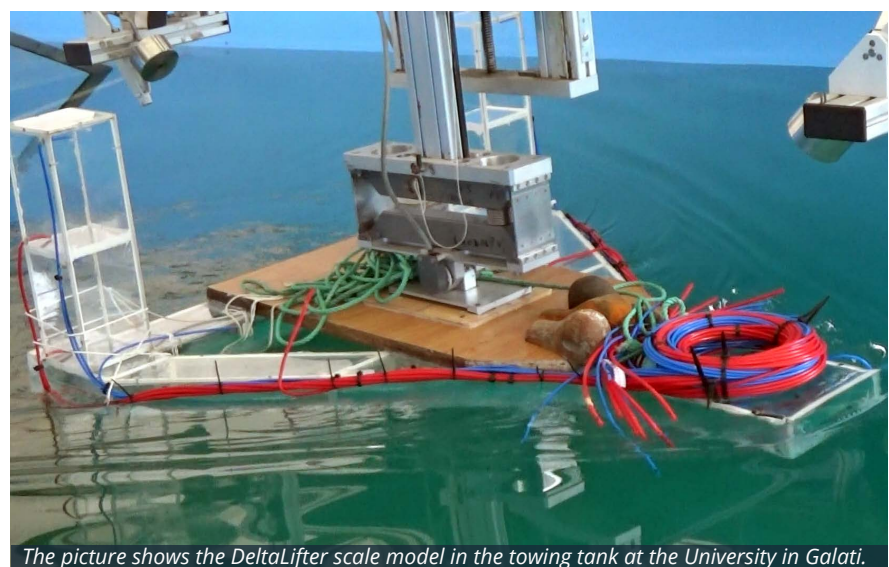
ICE has earlier done design work in the UAE for clients such as Saipem (Cidade de Vitoria and Gimboa FPSOs), Teekay (Falcon Spirit FSO), FPS Ocean Management (Deep Producer 1 FPSO) as well as design on a series of jack-up wind turbine installation newbuild vessels and jack-ups for Lamprell and MIS.

Innovative Platform Decommissioning Technology

ICE continues its R&D contract with a Norwegian client to validate and further develop the innovative DeltaLifter, a single-lift vessel designed for safe and economical removal of decommissioned offshore platform substructures ("jackets"). Recently, ICE commissioned a model test at the towing tank at the "Dunarea de Jos" University in Galati, Romania and also placed an order for an animation video to show the operating principle.

The unmanned DeltaLifter uses buoyancy to uplift decommissioned jackets and serves as a barge for towing ashore and transfer jackets onto recycling sites. By eliminating underwater work and the need for expensive heavy-lift crane vessels and barges, the patented DeltaLifter will in many cases increase safety and significantly reduce costs of offshore jacket removals.

More information is available at <http://www.deltalifter.com>



The picture shows the DeltaLifter scale model in the towing tank at the University in Galati.

Ship Retrofit Cooperation

To further expand its design services for retrofit of ballast water treatment (BWT) and exhaust gas cleaning (EGC) systems, ICE has entered into a non-exclusive cooperation agreement with Aitken Marine International (AMI), a Dubai-based project management company. ICE will provide on-board surveys, 3-D laser scanning and design, including supply of engineering

documentation and support for Class approval. ICE has recently performed scanning services for a leading Norwegian retrofit contractor, and has a framework agreement in place with one of the world's leading suppliers of marine BWT and EGC systems. Florin Flor, ICE's coordinator for retrofit services, says: "ICE's focus as a design company is to develop the best technical solution for each

ship. We are happy to cooperate with reputable companies that can supply appropriate hardware, fabricate the necessary interface solutions and undertake the onboard installation. We welcome AMI as a partner in the rapidly growing retrofit market."



The picture shows ICE engineer performing a 3D laser scanning onboard a cruise vessel.

FROM OUR PROJECT PORTFOLIO: "GIMBOA" FPSO CONVERSION

Scope of Work:

Basic design including structural analyses and Class approvals, detail engineering and shipyard troubleshooting assistance for conversion of a VLCC to an FPSO for service offshore Angola.

Year: 2006-07

Client: Saipem/Moss Maritime

Shipyard: Drydocks World Dubai, UAE

Oil Company: Sonangol



Image Courtesy: www.shipspotting.com



ENGINEERING CERTAINTY

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With a 50-year track record and an annual capacity of 700,000 professional engineering man-hours, the International Contract Engineering (ICE) Group is Europe's largest independent ship design consultancy. We provide high-calibre multi-discipline design services to yards and owners in the commercial shipping, defence and offshore energy industries, ranging from conceptual studies and Class drawings to detail design and production information. We cover a full range of naval architecture and marine engineering disciplines such as hydrodynamics, structural, mechanical, piping, electrical, instrumentation, outfit and HVAC. Our experience includes gas carriers, passenger vessels, navy and coast guard ships, chemical tankers, drill ships, FSO/FPSOs and a range of other vessels. We also have available proprietary designs that can be adapted to clients' requirements.

With our head office in the Isle of Man and our main engineering facilities in Romania, we provide high quality design and engineering at very competitive prices.