NEWSLETTER

APRIL 2017

ICE MARINE DESIGN

Retrofit Design Workshop

ICE has successfully performed many ship conversion designs, including for commercial vessels, warships, offshore oil & gas platforms and FPSOs. Its reference list also includes retrofit design for installation of ballast water treatment (BWT) and scrubber systems on different types and sizes of ships.

ICE recently arranged a 3-day workshop focused on using AVEVA Everything 3D (AVEVA E3D) and AVEVA Laser Modeller software as integration tools. The software enables point clouds generated by laser scans to be readily converted into intelligent, "as-built" 3-D design models. This will enable ICE designers to base their modification and retrofit design on accurate data, thus improving productivity and minimizing rework.

With the new IMO regulations for BWT coming into effect in September this year and stringent new limitations for exhaust gas emission taking effect in 2020, there is an increasing need for ship designers that can offer unbiased advice on equipment selection and develop retrofit solutions, ranging from ship survey and conceptual design through to detail working drawings and installation supervision.

With a 50-year history of design for clients world-wide – and being totally independent of equipment suppliers, shipyards and installation contractors – ICE stands ready to provide neutral guidance and cost-effective design to meet the new regulations.

Pictured here is Norbert Frank, AVEVA Technical Consultant with the trainees in ICE's conference and training centre in Galati.

Eero Mäkinen to advise ICE

ICE is pleased that Eero Makinen, formerly Senior Vice President of STX Finland, has entered into a part-time consultancy agreement with ICE. Eero has 45 years of experience in the international shipbuilding industry, with focus on passenger ferries, cruise vessels and icebreakers.

Commenting on Eero's appointment, ICE Group Chairman Steinar Draegebo said: "I have known Eero since we both worked in Canada years ago and I met him again when I was on the Board of Kvaerner Masa Yards in Finland and he was part of the senior management team. I am delighted that Eero has agreed to assist ICE with his enormous experience and network of contacts in Finland and world-wide."

Pictured here is Mr Mäkinen flanked by Coen Landa (left), ICE Business Development Director and Robert Swan, ICE President & Chief Operating Officer.

ICE-designed Vessel Selected for Life Extension

The Government of Romania has recently approved a €10M budget for propulsion system modernization (etc.) of the Perseus – its biggest icebreaker. Her permanent station is on the Danube river, a couple of hundred metres from ICE's office where she was designed.

The design of this vessel was completely performed by ICEPRONAV, including towing tank, manoeuvrability and cavitation tunnel tests. She was built in 1990 in the nearby Braila shipyard. Upon modernisation she will be classed by BV as Salvage tug, firefighting ship 1, unrestricted navigation, ICE CLASS IA Super.

ICE is pleased to see that a one of "its ships" after nearly 30 years of service is now getting an extended life.

FROM OUR PROJECT PORTFOLIO: RETROFIT PROJECT

Scope of Work:

Retrofit basic design of the ballast water treatment (BWT) system for a handymax bulk carrier

Year: 2015

Class: NKK

Client / Shipyard: Mitsui Engineering & Shipbuilding (MES), Japan

Owner / Operator: TT SHIPPING SA / DOJIMA MARINE CO., LTD.

ICE MARINE DESIGN

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.