



K-Sim Engine's BigView system – students exercising at Chalmers University

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## Kongsberg Digital: KONGSBERG Signs Contracts for Development of LNG Cruise Ferry Simulator to Meet New STCW Requirements

Kongsberg Digital, the new KONGSBERG software and maritime simulation technology division, has signed contracts with Sweden's Chalmers University of Technology, Kalmar Maritime Academy and Linnaeus University that include development of a state-of-the-art LNG (Dual Fuel) Cruise Ferry simulator model for the K-Sim Engine simulator platform.

The new K-Sim Engine model is scheduled to be delivered in Q1 2017, in order to provide readiness for forthcoming regulations. Handling LNG fuel and other low-flashpoint fuels on ships will become part of maritime training standards in 2017, following IMO's addition of aspects of the International Code of Safety for Ships using Gases or other Low-flashpoint Fuels (IGF Code), including LNG fuel handling and bunkering, to Standards of Training, Certification and Watch keeping (STCW).

“Our aim is to support the industry to meet new STCW requirements while leveraging the benefits of Dual Fuel engines through high quality training,” said Henrik Pahlm, Lecturer, Chalmers University. “The new LNG Cruise Ferry simulator model for the K-Sim Engine simulator is the perfect platform to achieve this, as it enables detailed, realistic simulation based on the real engine room configuration. It will give engineers a complete understanding of the complexities, risks and hazards of dual fuel engines, helping them to deliver safe and efficient operations on board.”

KONGSBERG's model will contain the main training aspects for bunkering and operation of a cruise ferry that holds a multiple installation of the Wärtsilä 8L50DF medium speed (four stroke) Dual fuel (LNG) gas and diesel oil, generating power to a High Voltage switch board. It supports in-depth training of LNG-fuelled vessel crews, supporting them to recognise risks and be aware of specific points of attention related to LNG and operation of related systems.

“We're developing a highly accurate model to enable training for a vessel power configuration that is becoming more commonplace,” said Leif P.Halvorsen, Product Manager, Kongsberg Digital. “In addition to general operation of the engines, the simulator will provide LNG-bunkering operations (shipboard) training in a safe and controlled manner, enabling crews to recognise potential problems and handle emergency situations.”

Ends

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### **About Kongsberg Digital**

Kongsberg Digital is a provider of next generation software and digital solutions to customers within maritime, oil & gas and renewables & utilities. The company consists of more than 500 software experts with leading competence within internet of things, smart data, artificial intelligence, maritime simulation, automation and autonomous operations. Kongsberg Digital is the group wide centre of digital expertise for KONGSBERG.

Since July 2016, Kongsberg Digital has become the parent organisation for staff, products and expertise of the former Kongsberg Oil & Gas Technologies organisation and the maritime simulation department of Kongsberg Maritime. Kongsberg Digital is also the driving force behind the Kongsberg Information Management System (K-IMS), a future looking open platform for vessel management and operation, offering full integration of sensors and systems for smart data and decision support. K-IMS is the bridge between offshore marine systems and onshore business enterprises.

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