



The K-Lander modular seabed sensor carrier will be at OINA 2017

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Kongsberg Maritime: KONGSBERG Highlights Data Delivery from Seabed to Shore at Oceanology International North America

- *Global marine technology developer brings extensive portfolio to new exhibition and conference in San Diego, California*
- *Market leading technology designed for high quality collection and delivery of data for ocean science and commercial operations*

Kongsberg, Norway/San Diego, USA, 14th February 2017 – Kongsberg Maritime will focus on its systems for delivering data from the seabed to the office at the first ever Oceanology International North America (OINA 2017) conference and exhibition in San Diego, California this week (February 14-16). The KONGSBERG developed systems on display represent the breadth of Kongsberg Maritime's portfolio for the ocean science and commercial industries, with solutions for accurate, high quality data collection through to fast, efficient and effective data communication.

The world famous marine technology developer's OINA 2017 exhibition booth (C31/33) will play host to a number of advanced solutions, including the unique Maritime Broadband Radio (MBR) data communication system, K-Lander modular seabed sensor carrier, EM 2040P multibeam echo sounder, Seaglider AUV and Seapath 130 heading, attitude and position sensor.

Defined as a cutting-edge solution for Environmental Monitoring, Offshore Oil & Gas, Marine Renewables and Marine Research applications, K-Lander is expected to be a technology highlight at OINA 2017. With a unique building block concept, K-Lander can be customised for a variety of long-term deployments. The modular design, coupled with a self-floating buoyancy based recovery system, allows for easy integration and recovery of various sensors suited for diverse subsea monitoring applications.

While K-Lander is designed for stationary installation on the seabed, KONGSBERG's Seaglider AUV is a mobile platform for long-term measurement of oceanographic parameters. Rather than an electrically driven propeller, Seaglider uses small changes in buoyancy and wings to achieve forward motion. The system's pitch and roll are controlled using adjustable ballast (the vehicle battery).

The compact, portable EM 2040P is KONGSBERG's newest in the series of advanced shallow water multibeam echo sounders. Like all KONGSBERG multibeam echo sounders, motion, position and sound velocity measurements are used to compensate for dynamic environmental and platform effects as the data is acquired. The system employs advanced bottom tracking and extra detection, mitigating the need for data cleaning.

KONGSBERG's Seapath portfolio of heading, attitude and position sensors ensure precision survey with the EM family of echo sounders in addition to numerous third party instruments. The Seapath 130 series on show at OINA

2017 is developed specifically for hydrographic surveying where high precision heading, position, roll, pitch, heave and timing are critical measurements. It combines state-of-the-art dual frequency GNSS receivers, inertial technology and processing algorithms in a compact and portable package that complements the portable nature of the EM 2040P perfectly.

Linking the data collected via KONGSBERG subsea sensors, instruments and vehicles, the new MBR delivers interconnectivity between vessels for any maritime operation. IP connectivity secures seamless exchange and sharing of data between assets with low latency, as well as possibilities to stream live HD video and voice without any further conventional infrastructure. Easily deployable units create a unique solution for the maritime information highway.

In addition to its presence on the exhibition floor, KONGSBERG will also present a number of papers and take part in various panel sessions during the OINA 2017 conference, including the Sensors & Instrumentation - Approaches & Technologies to Improve Sensor Capacity for Autonomous Measurement Platforms, and Unmanned Vehicles & Vessels - Unmanned Surface Vehicles sessions.

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About Kongsberg Maritime

Kongsberg Maritime is a global marine technology company providing innovative and reliable technology solutions for all marine industry sectors including merchant, offshore, subsea and naval. Headquartered in Kongsberg, Norway, the company has manufacturing, sales and service facilities in 20 countries.

Kongsberg Maritime systems for vessels cover all aspects of marine automation, safety, manoeuvring, navigation, and dynamic positioning. Subsea solutions include single and multibeam echo sounders, sonars, AUV/Underwater Robotics, underwater navigation, communication and camera systems.

Training courses at locations globally, LNG solutions, information management, position reference systems and technology for seismic and drilling operations are also part of the company's diverse technology portfolio.

In parallel with its extensive technology portfolio, Kongsberg Maritime provides services within EIT (Electro, Instrument & Telecom) engineering and system integration, on an EPC (Engineering, Procurement & Construction) basis.

Kongsberg Maritime delivers solutions that cover all aspects of technology underwater and on the water, aboard new build and retrofit vessels, and on offshore platforms and rigs, often under a single supplier strategy called The Full Picture.

Kongsberg Maritime is part of Kongsberg Gruppen (KONGSBERG), an international, knowledge-based group that celebrated 200 years in business during 2014. KONGSBERG supplies high-technology systems and solutions to customers in the oil and gas industry, the merchant marine, and the defence and aerospace industries.