

Reappearance of the *Danton*

In December 2007, the Fugro survey vessel *Geo Prospector* was performing part of the Detailed Marine Survey for routing the proposed Galsi gas pipeline across the Southern Mediterranean Sea between Algeria and Sardinia. Interpretation of side-scan sonar data collected by the AUV revealed a large wreck lying upright among a group of smaller sonar targets in an area of disturbed seabed, close to the proposed pipeline route in 1,000m of water.

Analysis of the data indicated a vessel approximately 125m long with a beam of about 27m. Both sonar and multi-beam data revealed that the bow of the wreck was tilted proud of the seabed with an estimated elevation of 15m.

On 18 January 2008, Skandi Inspector was surveying approximately 20nm off the South coast of Sardinia gathering data at the location of the Artemis cable-crossing location. The large wreck previously detected by the *Geo Prospector's* AUV was re-observed and the scope of the ROV work was expanded to include an initial visual examination of the vessel. The wreck was first located using the ROV-mounted scanning sonar. During this initial ROV visual survey, various video images and still photographs were obtained, confirming that the wreck was indeed a battleship, probably dating from the First World War 1.

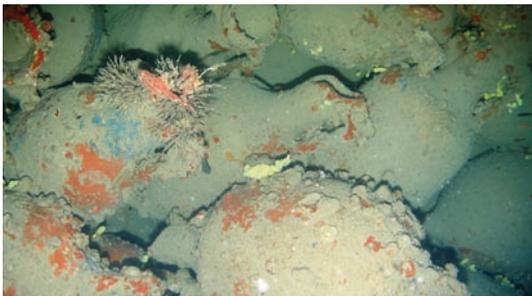
Records showed that the French battleship *Danton* was sunk in the vicinity in March 1917. The discovery was provisionally identified as the wreck of the battleship *Danton* and particulars of its location and disposition were passed to the Italian, French and UK Hydrographic Departments.

Subsequent discussions with the French Navy Commission (Droit de la Mer et Événements de Mer; DREM), confirmed conclusively that the discovery was indeed the French battleship *Danton*, built in Brest in 1910, one of the largest French naval vessels of the era.
www.fugro.com

Wine for Roman Cartagena Found After 2,200 Years

After spotting the Roman wreck on a sonar map of the area, marine explorers of the Aurora Trust sent down a Saab Seaeye Falcon ROV to investigate. Their discovery was the sight of thousands of amphora of wine, the clay jars still carefully packed in the hold of the ship where they had lain undisturbed for over 2,000 years.

www.auroratrust.com, www.seaeeye.com



Amphoras seen through the ROV camera.

High-Pressure Pumps Delivery



One of the high-pressure pump units.

MZT Pumpi has produced and delivered four pump units to the Vatvedt Technology AS, Sarbsborg (Norway), for the needs of its client NewCo Ferronickeli (Kosovo). The main objective of the project was equipping the gas cleaning plant in NewCo Ferronickeli with new high-pressure pumps, which would enable more effective and trouble-free operation of the plant.
www.pumpi.com.mk

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1,000MW Tidal Energy

Aquamarine Power has signed a development agreement with Airtricity, the renewable energy development division of Scottish and Southern Energy, aimed at developing sites capable of hosting

1,000MW of marine energy by 2020. The two companies will enter into a 50:50 joint venture to develop wave and tidal energy sites in the UK and Republic of Ireland. Work on the development of the first two

sites has already started, with plans to roll out further sites over the next three years. www.aquamarinepower.com

Attention for Wave Energy

A recent survey conducted by Seaview Sensing has revealed some interesting insights into the wave energy market. A massive 72% of the 246 participants thought they needed to learn more about waves, the reasons give were varied including: "Buoy data are

not extensive enough nor are data sets complete nor standardised, to optimise the weather window for installation activities", "Poor access to accurate data", "A whole host of reasons ranging from wave energy, wave shadowing, flood defence, coastal erosion",

and "to evaluate energy yield from sites we need wave data". Participants were from all over the world with the USA ranking as the country with the most wave energy interest, closely followed by continental Europe and the UK. www.seaviewssensing.com

Ocean Current Technology

Voith Hydro and RWE Innogy have announced the formation of the joint venture of Voith Hydro Ocean Current Technologies. With the new company, both partners will accelerate the development, manufacture and marketing of ocean

current technologies. Within the framework of its venture capital activities, RWE Innogy will make a significant capital investment and hold 20% in the new company. Voith Hydro will be the majority shareholder with 80%. The

total investment guaranteed by both partners over the next few years is over EUR30 million. The establishment of the joint venture is subject to the approval of the relevant anti-trust authorities. www.rwe.com

"Innovator of the Year" award

ODIM has been awarded the "Innovator of the Year 2008" accolade – a business award for the north-western area of Norway. The award was officially announced during an event held in Ålesund (Norway). ODIM CEO Jøgeir Romestrø received the prize from jury member and industrial manager, Idar Ulstein. ODIM was selected from five strong finalists that have been presented in detail in 'Sunnmørsposten' newspaper during the last few weeks. The jury was comprised of industrial manager Idar Ulstein, professor Annik Magerholm Fet and representatives from the banks: Nordea, Sparebanken Møre, Sparebank 1 SMN, Ålesund Chamber of Commerce and Sunnmørs-

posten. ODIM Smart AHTS is an anchor handling solution that is three times as effective as competing solutions in terms of capacity, economy, security and consideration for the environment. Based on calculations for just one rig for one year, application of the technique can lead to an increased value creation of between NOK200 and 300 million, and reduced emissions of environmentally damaging gases, of up to 50,000 to 100,000 tonnes of CO₂ and 1,000 to 2,000 tonnes of NO_x. The reduction in CO₂ emissions corresponds to the emissions from 15,000 to 30,000 cars per year. www.odim.com

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