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## **1) GENERAL OCEAN NEWS**

### **1.a) Bibby Offshore bolsters North Sea presence with multiple contract wins**

Bibby Offshore, a subsea services provider to the oil and gas industry, continues to strengthen its North Sea presence through successful completion of two further contracts with oil and gas majors, Perenco and Endeavour Energy UK.

Perenco appointed Bibby Offshore to perform subsea integrity inspections and maintenance works on the Inde Joint pipeline, which runs to the Bacton Gas Terminal in the Southern North Sea. Completed in early July, the 15-day workscope saw Bibby Offshore install a total of 94 concrete mattresses over the pipeline to assist in preserving the remaining rock dump mounds.

The second workscope, completed in late July, saw Endeavour Energy UK contract Bibby Offshore to carry out subsea tree inspections in the Renee and Rubie fields located in blocks 15/27 and 15/28 of the Central North Sea.

Both contracts utilised the company's inspection, repair and maintenance vessel Olympic Bibby and were the latest in a series awarded by these clients.

For further information, visit [www.bibbyoffshore.com](http://www.bibbyoffshore.com)

### **1.b) Oceanscan extends service offering with new Valeport sensors**

Oceanscan, an established provider of sales and rentals of subsea, survey, NDT, inspection and ROV equipment, has announced the extension of its service offering with a significant investment in a range of new products from manufacturer, Valeport.

Oceanscan's acquisition of a number of Valeport's specialist instruments will also replace legacy systems and demonstrates Oceanscan's continuing commitment to offer subsea clients a wide range of the latest technology. As part of the company's investment, three Oceanscan technicians will receive bespoke training from Valeport to help clients get the best performance from the new equipment.

Among the new equipment is Valeport's SWiFT SVP which features Bluetooth comms, a rechargeable battery, integral GPS and LED status indicators; the SVX2 combined CTD/SVP which provides superior sound velocity data combined with salinity and density; and the miniIPS Intelligent Pressure Sensor which delivers highly accurate and redundant depth information in real time.

For further information, visit [www.valeport.co.uk](http://www.valeport.co.uk)

### **1.c) ATLAS ELEKTRONIK awards Kraken \$425,000 contract**

Kraken Sonar Inc. announced that its wholly-owned subsidiary, Kraken Sonar Systems Inc. has been awarded a contract valued at over C\$425,000 by ATLAS ELEKTRONIK Canada. Kraken will supply and integrate its AquaPix® Miniature Interferometric Synthetic Aperture Sonar and Real-Time SAS Signal Processor on the Atlas SeaCat Autonomous Underwater Vehicle (AUV). Delivery is expected in September 2017.

AquaPix® is designed for operation on AUVs and towed platforms. The modular system uses the latest electronics, transducer arrays and signal processing software optimized for the demanding size, weight, power and cost constraints of unmanned maritime vehicles.

SeaCat is an approximately 3 metre and 280kg (depending on configuration) mid-size, modular, hybrid AUV that provides remotely operated vehicle (ROV) and AUV capabilities "as a truck" to the operating theatre. SeaCat has been fully certified and qualified and thus fulfils the important military (MIL-STD) and commercial (IHO S-44 special order, battery according to UN38.3) standards. In addition to the basic sidescan sensor suite SeaCat is now available with Kraken's AquaPix® MINSAS for applications like minehunting or seabed boulder counting. In combination with its unique SwapHead® (open interface) mission bay, SeaCat can be equipped with a broad spectrum of sensors like multi-beam, camera, light, sub-bottom profiler, magnetometer, etc. To enhance manoeuvrability and range SeaCat is configurable with different thruster-sections and extended range modules (up to 20 hours autonomy). With a price of below 1 Million Euro for an initial SeaCat system it features an affordable, efficient and capable AUV system for shore -- based, RHIB, USV and ship deployments.

For further information, visit <http://www.marketwired.com/press-release/atlas-elektronik-awards-kraken-425000-contract-tsx-venture-png-2231933.htm>

#### **1.d) Cyprus Subsea becomes MetOcean Telematics exclusive partner for Greece and Cyprus**

Nicosia Cyprus Subsea Consulting and Services C.S.C.S. Ltd (Nicosia, Cyprus) is pleased to announce the signing of an exclusive representation agreement with MetOcean Telematics, Inc. (Nova Scotia, Canada). The contract was signed on 17 July 2017 and gives exclusive rights to CSCS to promote, support and sell MetOcean Telematics products and services in Cyprus and Greece.

MetOcean Telematics develops and manufactures state-of-the-art data acquisition and end-to-end telematics solutions, with a focus on niche MetOcean solutions and custom Defence and Security products. A leader in integrated systems used for real-time environmental monitoring, with specialization in the production of air and ship-deployed drifting buoys, search and rescue buoys, ice platforms and acoustic systems. Its products are used to support a wide variety of scientific, commercial and government organizations, worldwide.

CSCS is excited to expand its existing capabilities for open ocean surveys (designing, implementing, analysing and reporting) and ocean current modelling and forecasting services. In particular, its experience in autonomous platforms and data fusion with models is complementary to the high calibre equipment and communication offerings of MetOcean Telematics. As a result, new and/or improved products and services are currently being jointly developed.

For further information, visit <http://www.cyprus-subsea.com> and <http://metocean.com/>

### **1.e) Businesses unite to showcase Gateway Rosyth's global potential**

As the Queensferry Crossing attracts headlines around the world, the three landowners along the waterfront – Babcock International Group, Forth Ports and Scarborough Muir Group are supporting an initiative set up by Fife Council and Scottish Enterprise to showcase Rosyth as Scotland's International Gateway.

There is an unrivalled opportunity for energy and import/export related companies to access a full range of commercial port services and grow their business through international trade, with the opening of the Queensferry Crossing boosting the site's already world class connectivity.

Two commercial ports offer businesses a wide range of services, from deep water berthing and stevedoring to extensive lay down space and quayside cranes with large lifting capacities. In addition, up to 71 hectares of prime development land is available around the ports, with design and build packages and development services on offer from a professional and experienced development team.

Fife Council is available to field enquiries from businesses interested in learning more about the opportunities at Gateway Rosyth. For more information on Gateway Rosyth, visit [www.gatewayrosyth.co.uk](http://www.gatewayrosyth.co.uk).

Scarborough Muir Group is developing 'Queensferry One' at Rosyth waterfront. Spanning 120 acres, Queensferry One is an iconic location offering industrial, office, warehousing and leisure space adjacent to the new Queensferry Crossing and with views of the Forth Rail Bridge, a UNESCO World Heritage site.

Flexible opportunities at Queensferry One range from land sales to design and build on a lease or freehold basis. For further details, visit [www.queensferryone.com](http://www.queensferryone.com)

### **1.f) IMCA welcomes UK Home Office concession to UK immigration rules**

The International Marine Contractors Association (IMCA) welcomes the extension by the Home Office until 21 October 2018 of the concession to UK immigration rules concerning workers joining vessels engaged in the construction and maintenance of offshore wind projects. As noted by IMCA in June, IMCA welcomes and applauds the Home Office's pragmatic response to the voice and needs of industry in addressing this issue.

This decision has provided clarity and certainty in planning and executing existing projects, which are critical to delivering renewable energy capacity in the UK, and allows time for industry to adjust to the new regime.

Further information on IMCA and its work on behalf of the offshore marine construction industry is available from [www.imca-int.com](http://www.imca-int.com) and [imca@imca-int.com](mailto:imca@imca-int.com). The association has LinkedIn and Facebook groups and its Twitter handle is @IMCAint.

### **1.g) Fine-scale foraging behaviour of juvenile Pacific salmon and North Pacific humpback whales in British Columbia**

ASL is proud to announce two Ph.D. candidates who are currently conducting studies that couple the unique capabilities of ASL's Acoustic Zooplankton Fish Profiler (AZFP) with predator telemetry and prey sampling to provide novel perspectives on predator/prey interactions in selected study regions in southern BC. These projects examine fine-scale processes with large scale implications for marine ecosystems and the services that they provide. Rhonda Reidy and Will Duguid are part of the Fisheries Ecology and Marine Conservation group, working under thesis supervisor Francis Juanes of the University of Victoria. Collaborators on their projects include Stephane Gauthier and Svein Vagle from Fisheries and Oceans Canada. Both projects are briefly described below.

The objective of Rhonda Reidy's study is to link humpback whale feeding behaviours to concurrent measurements of prey in southern BC waters. These details will provide scientists with fine-scale information on humpback whale predation, which can then be used to better inform fishery management decisions. The study will utilize three techniques to accomplish this objective including (1) a multi-sensor suction cup tag to record 3-D whale movement, (2) a vessel-mounted 38, 70, 125 and 200 kHz AZFP to concurrently map prey distribution during whale dive events and (3) a mid-water tucker trawl to sample prey adjacent to foraging depths (~ 100 m). The samples collected from the nets will be examined to identify prey species and will be useful to calibrate species target strength.

Will Duguid is examining how interactions of tidal currents and abrupt topographic structure influence the feeding ecology of Chinook and Coho Salmon juveniles at fine spatiotemporal scales. A tidal jet (Sansum Narrows) and an adjacent reference site (Maple Bay) are being developed as a case study for fine scale habitat use. Physical parameters (CTD casts) and prey distribution (zooplankton tows and hydroacoustics) are related to juvenile salmon distribution (acoustic telemetry and patterns of catch per unit effort) and biological characteristics (growth and diet) at previously unachievable resolution. It is hypothesized that tidal jets predictably advect zooplankton from depth, concentrating forage fish and larger, faster growing juvenile salmon. Surveys with the AZFP will be coupled to depth stratified zooplankton tows throughout the tidal cycle to better understand how local oceanography influences the interaction of zooplankton, forage fish, and juvenile salmon.

For further information, please visit [www.aslenv.com](http://www.aslenv.com)

### **1.h) NORBIT announce Tridel Maritime Services LLC as their Middle East representative**

NORBIT are proud to announce Tridel Maritime Services LLC as their Middle East distributor for the promotion, sales and support of NORBIT Subsea technology and services.

With offices in Abu Dhabi and Dubai, Tridel has a wealth of experience in selling and supporting multibeam systems in the Middle East Region. With a dedicated team, including IHO CAT-A support staff, Tridel can understand client's technical needs and advise clients on the appropriate NORBIT technology to fit their specific need. With the ability of NORBIT systems to simultaneously obtain bathymetric multibeam data and terrestrial LIDAR data from a single system, many specialist applications and regional markets will benefit from NORBIT mapping and charting capability.

For further information, visit [www.norbit.com/subsea](http://www.norbit.com/subsea) and <http://trideltechnologies.com>

### **1.i) Braveheart Marine christens fourth Javelin to Patriot**

Javelin International delivered the fourth Javelin vessel to Braveheart Marine: the Javelin christened to Patriot. A seaworthy multipurpose vessel specially designed for hydrographic survey and crew tender activities.

The Patriot is the fourth vessel from Javelin International that Braveheart Marine adds to its fleet. With the words: 'I wish you and your crew safe voyages' the vessel was christened to Patriot by Clara Eschbach, a Braveheart employee from the very beginning.

The Javelin is a multipurpose vessel. The vessel is suitable for hydrographic survey, crew tender and support activities like, transport of equipment or cargo, diving support, windfarm support and guard vessel operations. The Javelin 25.25 is able to operate 24 hours a day, seven days a week past the 200 miles zone. Such a large operation area requires that the crew will possibly stay at sea for a longer period of time. Therefore, the Javelin not only has a lot of work space and 12 crew seats, but also 10 berths, 2 toilets and a shower, a watermaker and a fully equipped galley.

After the christening and sea trials the Patriot will sail to Zeebrugge, Belgium. Vessel and crew will perform hydrographic survey and crew tender activities for Tideway on the Rentel offshore windfarm for the Belgian coast.

For Technical specifications visit <http://www.javelin-international.com/javelin-type/javelin-25-25>

For more information, visit [www.javelin-international.com](http://www.javelin-international.com), follow on Facebook and on Twitter @Javelin\_Int.

### **1.j) Consortium to tackle major North Sea NDT challenge**

A consortium of organisations has set out to tackle one of the most enduring challenges in the North Sea: the non-destructive testing (NDT) of corroded pipes under insulation and engineered temporary pipe wraps.

The group – which includes TRAC Oil & Gas; the University of Strathclyde; and CENSIS, the Scottish Innovation Centre for Sensor and Imaging Systems – will methodically audit the tools, capabilities, and approaches currently used by industry to look at the steel surfaces of assets; often obstructed by layers of material.

While there are a number of NDT technologies on the market, many are ineffective when used on pipes that are protected by insulation. They tend to average out wall thickness where corrosion “scabs” have formed, failing to pinpoint specific areas of vulnerability.

Taking and interpreting these readings is further complicated by the varying dimensions, materials, locations, and accessibility of different oil and gas assets. While insulation can be removed, it requires significantly more time in challenging conditions, making the task more dangerous to the technician undertaking the inspection, and ultimately more expensive to the company.

After assessing the limits of what is available, the consortium will then explore how improvements can be made, including the development of new techniques for accurately identifying and measuring areas of corrosion. The first phase of the project is a feasibility study, the results of which will be shared with wider industry and its stakeholders, including the Health and Safety Executive.

For further information, visit <https://censis.org.uk/>

Follow them on twitter: [@CENSIS121](https://twitter.com/CENSIS121)

### **1.k) HR Wallingford's John Harris appointed RAEng Visiting Professor to UCL**

HR Wallingford Technical Director, John Harris, has been appointed Royal Academy of Engineering Visiting Professor in Coastal and Offshore Engineering at UCL (University College London) within the Civil, Environmental & Geomatic Engineering Department.

John takes up the appointment from September 2017, and will contribute to UCL's current degree programmes, including inputting expertise into multi-disciplinary design projects, strengthening the applied aspects of existing modules, guiding the curriculum development of new modules, and co-supervising third year research projects.

John's contribution is also expected to involve developing and delivering two new modules: on the design of marine structures, and on coastal and seabed processes. These will extend the scope of work possible in Integrated Design Projects, as well as providing graduates with practical and industry knowledge.

A Technical Director in the Coasts and Oceans group, John is both a Chartered Engineer and Chartered Marine Scientist, with specialist skills in numerical hydrodynamic modelling, turbulence and sediment transport. He has more than 25 years' experience in the application and development of turbulence models for modelling wave and wave-current boundary layer interaction in the coastal zone and 30 years' experience in the application of numerical models for river, estuarine, coastal and offshore studies. He also has specialist knowledge of hydraulic, sediment transport and wave modelling techniques, and in particular scour and boundary layer processes and is one of the UK's authorities on marine scour.

To date John has worked on various aspects of offshore wind farm developments, and has worked on around 80% of built or currently planned wind farms in the UK, such as Hornsea One and Two, and is the co-author of several industry guidance documents including "Dynamics Of Scour Pits And Scour Protection" and the COWRIE "Modelling Best Practice Guide".

For further information, visit [www.hrwallingford.com](http://www.hrwallingford.com)

Follow them on Twitter @hrwallingford

### **1.l) CGG signs agreement with Mozambique Ministry for vast offshore multi-client program**

CGG announces that it has signed a multi-client data agreement with Mozambique's Instituto Nacional de Petroleo (INP) following a competitive tender process held by INP in 2016. As a result of this agreement, CGG will shortly commence acquisition of a new multi-

client survey of up to 40,000 km<sup>2</sup> of 3D data over the Beira High in the Zambezi Delta, covering blocks Z5-C and Z5-D and surrounding open acreage.

Deliverables will include fast-track PreSTM, Final PreSTM and PreSDM. The seismic data will be imaged with the latest 3D broadband deghosting and advanced demultiple, velocity modeling and imaging techniques, including Full-Waveform Inversion.

This survey will form part of a comprehensive, fully integrated JumpStart™ geoscience program that will deliver a better overall understanding of the prospectivity of the region. Marine gravity and magnetic data will be acquired simultaneously with the seismic to accelerate regional interpretation.

Jean-Georges Malcor, CEO, CGG, said: “This agreement marks the beginning of a fruitful partnership with the INP to promote the potential of the Zambezi basin and other regions of Mozambique. Our advanced 3D seismic and integrated geoscience program will enable oil companies to confidently de-risk this exciting new exploration area and accelerate development of the country’s resources.”

For further information, visit [www.cgg.com](http://www.cgg.com)

## **2) EVENTS, TRAINING & DEMONSTRATIONS**

### **2.a) Teledyne Gavia Demonstrates AUV Capabilities at ANTX 2017**

Provider of Autonomous Underwater Vehicles (AUVs), Teledyne Gavia recently participated in the U.S. Navy's Advanced Naval Technology Exercise (ANTX 2017) which took place at the Naval Undersea Warfare Centre (NUWC) in Newport, Rhode Island. Teledyne Gavia partnered with iXblue to demonstrate iXblue's Global Acoustic Positioning System (GAPS) Ultra Short Baseline (USBL) system for Situational Awareness and Gavia's survey capabilities for MCM (Mine Countermeasure) and ISR (Intelligence, Surveillance and Reconnaissance) surveys.

During the three day event, iXblue demonstrated its GAPS in collaboration with Teledyne Gavia's AUV to provide situational awareness and C2 capability to users on the surface and/or at remote locations. As an integral part of the demonstration, the Teledyne Gavia AUV performed a high-accuracy MCM survey and a shallow water ISR mission, leveraging USBL fixes from the GAPS as additional aiding to its standard inertial navigation system/Doppler velocity log (INS/DVL) navigation suite.

The Gavia AUV is a man portable, 1000 meter depth rated, fully modular survey platform capable of delivering high quality data while operating from vessels of opportunity or from the shore. The Gavia AUV can carry a variety of sensors that are especially well suited for military and security applications including Rapid Environmental Assessment, Mine Countermeasures and Sonar Training. At ANTX the Teledyne Gavia AUV was configured with an iXblue C5 INS, Teledyne RD Instruments DVL, Edgetech side scan sonar, Teledyne BlueView MB-2250 microbathymetry sonar used for gap fill of the side scan nadir gap, and a Teledyne Benthos modem for command and control of the Gavia AUV with real-time aiding of the onboard iXblue INS.

For further information, visit [www.teledynegavia.com](http://www.teledynegavia.com)

### **3) JOB POSTINGS**

#### **3.a) Technical Application Support Engineer, Septentrio, Belgium**

Septentrio is a supplier of highly accurate GPS/GNSS receivers for demanding applications, requiring accuracies in the decimeter or centimeter range, even under difficult conditions. The company provides board level OEM modules as well as system level GPS/GNSS receivers to their customers in machine control and construction, land and marine survey, mobile mapping, UAV's, GIS and more.

Septentrio is headquartered in Leuven, Belgium and has offices in Torrance, CA and Hong Kong, and partners throughout the world. For their offices in Leuven, Septentrio is seeking to hire a highly motivated Technical Application Support Engineer.

In this position, you take ownership of reported customer technical issues and see problems through to resolution. You understand and support the customers' applications and integrations and you convince customers of Septentrio's technical solutions.

You operate as an interface in the company with R&D, Sales, Operations and Business Development. You qualify, reproduce and troubleshoot reported issues, and present and deploy fixes, workarounds, and mitigation strategies.

You will offer technical assistance to Sales to propose optimal solutions to the customers. This includes assistance during technical discussions with customers, travelling for on-site application- and integration support, demonstrations and training to dealers and customers

You hold a master or technical bachelor degree in Electronics, Geomatics, Surveying and Geography or equivalent by experience. You have a strong technical background, preferably in GNSS applications. Together with a pragmatic hands-on customer oriented attitude, you show leadership in handling challenging situations. You show commitment to be part of a global team, which also means you are fluent in English (additional languages e.g. German or French are considered an asset) and you are willing to travel abroad including Europe, Middle East and US.

You recognize yourself in the above description? Then do not hesitate and apply on <http://www.septentrio.com/jobs>.