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### OCEANBUZZ ISSUE 491 – 27<sup>th</sup> June 2017

<b>1) GENERAL OCEAN NEWS.....</b>	<b>2</b>
1.a) DOF Subsea wins contract for Transmediterranean Pipeline Survey .....	2
1.b) Teledyne RESON to Equip Japan Coast Guard Vessels with Multibeam Echosounder Packages.....	3
1.c) Briggs Marine strengthens subsea offering with seven-figure investment .....	3
1.d) OSIL integrated oceanographic observation system for Chilean project.....	4
1.e) AXYS FLiDAR first to Stage 3 on Carbon Trust Roadmap .....	4
1.f) OceanWise and Seatronics Successfully Deliver Tide Gauge and Water Temperature Monitoring Network to the UAE.....	5
1.g) Aberdeen based Canyon Offshore Limited selected to trench cables for world's biggest offshore wind farm .....	5
1.h) ACO Marine Supplies Indian Coast Guard with its First Biological Wastewater Management System .....	6
1.i) CGG Wins Renewal of Dedicated Center Contract for PTT Exploration & Production Public Company Limited (PTTEP) in Thailand.....	7
1.j) Fugro Returns to Borssele Offshore Wind Farm Zone to Conduct UXO Survey .....	7
1.k) Aquaterra Energy wins multi-million pound North Sea abandonment contract .....	7
1.l) IMCA Welcomes the UK Home Office Concession .....	8
1.m)..... Scottish Government supports diver and ROV skills training to address future skills shortage .....	8
1.n) Opening of Placement Period for subscription commitments in respect of a proposed issuance of \$375 million of new six-year floating rate / 8.5% PIK second lien senior notes with warrants to Eligible Holders of existing Senior Notes.....	9
1.o) N-Sea reaches one million man hours LTI free .....	9
1.p) Hydro Group inks strategic agreement for international growth .....	10

1.q) H-Scientific Ltd (HSL) doubles office space to accommodate growth.....	10
1.r) Caspian success sees ATR unveil new facilities and staff in Kazakhstan .....	11
1.s) Thien Nam Positioning selects Sonardyne to track Vietnamese divers and ROVs .....	11
1.t) AML Acquires Moving Vessel Profiler (MVP) Product Line from Rolls-Royce.....	11
1.u) Belgian Navy buy 10 licences of SeeByte’s SeeTrack software for their AUV fleet .....	12
1.v) Complete Electrical and Fiber Optical Connectivity Solutions in Subsea Systems .....	12
1.w) Sediment? Solved expanded to include sediment stability instrumentation .....	13
1.x) HR Wallingford rises to 15th place in NCE 100 rankings.....	13
<b>2) EVENTS, TRAINING &amp; DEMONSTRATIONS .....</b>	<b>14</b>
2.a) TELEMAR training courses with HR Wallingford, 11-15 September 2017, UK.....	14
<b>3) WHO’S ON THE MOVE? .....</b>	<b>14</b>
3.a) Liquid Robotics Names Caryn Nightengale as Chief Financial Officer.....	14
3.b) New CTO Boosts Rovco’s Senior Management Team .....	15
3.c) Viking SeaTech Canada completes local registration and appoints Craig Smith to lead company growth in Newfoundland .....	15
<b>4) JOB POSTINGS.....</b>	<b>16</b>
4.a) Senior Oceanographic Engineer at Fugro .....	16
4.b) Oceanographic Engineer at Fugro .....	16
4.c) 2x Oceanographers at Fugro .....	17
4.d) Head of Geosciences at EGS .....	17
4.e) Head of Business Development at STS Subsea .....	18

## 1) GENERAL OCEAN NEWS

### 1.a) DOF Subsea wins contract for Transmediterranean Pipeline Survey

DOF Subsea, a leading provider of integrated subsea services, has recently inked a new contract in the Mediterranean with Transmediterranean Pipeline Company Limited (“TMPC”) to undertake the pipeline inspection on the TMPC’s Pipeline System in Q3, 2017.

The scope involves inspection of 5 submarine pipelines between Sicily and Tunisia and during the scope, DOF Subsea will survey over 750 km of pipeline.

DOF Subsea will deploy the high specification survey vessel, MV Geosund to complete the inspection work scope and pipeline intervention.

DOF Subsea successfully completed a similar scope for TMPC in 2014.

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

## **1.b) Teledyne RESON to Equip Japan Coast Guard Vessels with Multibeam Echosounder Packages**

Teledyne RESON A/S has received two awards of multibeam echosounder packages to equip Japan Coast Guard new-build hydrographic survey vessels, through its local representative Hydro Systems Development, Inc. (HSD)

The Japan Coast Guard (JCG) is engaged in a variety of maritime activities including hydrographic surveying and oceanographic research. The governmental organization operates a large fleet of more than 450 vessels. Among them are already 13 ships dedicated for hydrographic surveying.

Furthermore there are two brand new hydrographic survey vessels already in the building process at Japanese shipyards. In close collaboration with HSD, Teledyne RESON will supply an integrated survey system solution for a deep water vessel of approx. 100 m length which will be built by Mitsubishi Heavy Industries, Ltd. The ship will extend JCG's existing fleet and there will be several Teledyne Marine products on board the latest deep water vessel.

The other ship is designed for shallow and medium depth applications and will replace JCG's existing vessel HAMASHIO. The 23 m long vessel will be built by Kiso Shipbuilding Co., Ltd. and will also be equipped with Teledyne Marine products. The 23 m vessel will be ready by March 2018, whereas the large vessel is expected to be launched by March 2020.

The latest success ties in with another two contracts of SeaBat T50s for existing JCG vessels that were awarded to Teledyne RESON last year establishing HSD as leading multibeam sonar supplier in Japan.

For more information, visit [www.teledyne-reson.com](http://www.teledyne-reson.com)

## **1.c) Briggs Marine strengthens subsea offering with seven-figure investment**

One of the UK's leading marine contractors, Briggs Marine, has invested more than £1million into its subsea services division over recent months.

The company has enhanced its subsea cable repair and installation capabilities with the addition of two new 15Te tracked cable tensioners. The tensioners were employed immediately in the renewable energy sector to deliver power to cable installation operations for Briggs' subsea services division. These tensioners are a further addition to Briggs' already extensive cable handling equipment portfolio, which supports numerous framework agreements with the company's key clients.

Briggs has also invested in two cable storage tanks, extending its Burntisland-based cable depot, based on increased demand. This move further strengthens Briggs' range of services for the renewable, utilities, diving and oil and gas sectors.

The new cable tensioners are designed to accommodate cable diameters from 50mm to 400mm, with capability to maintain squeeze pressure and 15Te line tension on the product during changes in diameter, for example factory and repair joints. The system contains an integrated HPU and sacrificial sea fastening plates for streamlined rapid installations onto

vessels. Linear speed is variable up to 45m/min for deepwater cable/flexible installation and recovery.

Following the recent expansion of Briggs' Liverpool portside facilities, the new cable tensioner units will be stored at this base and are available to the wider market for hire.

For further information, visit <http://www.briggsmarine.com/>

#### **1.d) OSIL integrated oceanographic observation system for Chilean project**

The University of Los Lagos (Chile) has recently installed an oceanographic observation system, manufactured by integrated systems providers Ocean Scientific International Ltd (OSIL), in the Seno de Reloncaví (Reloncaví Sound) immediately south of Puerto Montt in Southern Chile, the first of its kind in the Patagonian region.

The sturdy 1.9m buoy system was specifically designed and produced by UK-based OSIL to accommodate and integrate the instrument package required by the university project. A uniquely designed deployment bracket holds an ADCP and a current meter 5m below the buoy on the mooring assembly and includes a swivel to prevent entanglements, while the secure top frame accommodates a compact weather station measuring wind speed/direction, temperature, relative humidity and barometric pressure, and includes a GPS unit. The buoy was supplied with two AML Metrec•XL multiparameter sondes to measure temperature, salinity, oxygen, pH, chlorophyll A, and turbidity; one mounted within the moon pool of the buoy to ensure the sensor is well protected, and the other supplied with a unique independent profiling frame with an external battery canister to allow standalone measurements to be taken throughout the water column from the side of a vessel when required. The Metrec•XL units are also equipped with UV•Xchange modules to prevent biofouling.

Data from the buoy is relayed to a shore side base station via GSM, with a range of telemetry and data handling options available from OSIL. The project, entitled "On-line oceanographic observation system for the prevention of environmental catastrophes in the region of Los Lagos," is intended to detect early warning signs of harmful environmental changes such as red tides, algae bloom, fish mortality, volcanic eruptions, and extreme weather events, and the data gathered will also serve as a reference for all stakeholders in Los Lagos' marine ecosystem. The system was supplied locally through Casco Antiguco.

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

#### **1.e) AXYS FLiDAR first to Stage 3 on Carbon Trust Roadmap**

AXYS Technologies Inc. (AXYS) is pleased to announce they have met all of the Stage 3 performance criteria outlined in the Carbon Trust Offshore Wind Accelerator Roadmap for Floating LiDAR Technology (OWA Roadmap).

Since the initial deployment of their flagship FLiDAR system in 2009, along with the acquisition of FLiDAR NV in September 2015, AXYS' FLiDAR buoys have successfully completed or have underway 20 commercial offshore wind assessment campaigns and 16

offshore met mast validations covering a wide range of operational, site and met ocean conditions in Europe, North America and Asia. This represents an impressive body of operational experience, equivalent to over 200 months at sea.

AXYS produced the first FLiDAR system in 2009 by equipping its proven 6M NOMAD MetOcean buoy with a LiDAR, and now they own and operate a lease pool of over a dozen FLiDAR buoys worldwide with additional buoys under construction. AXYS has continued to invest in design and operation enhancements to increase survivability and maintain high levels of accuracy and data availability in extreme weather and sea states.

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

### **1.f) OceanWise and Seatronics Successfully Deliver Tide Gauge and Water Temperature Monitoring Network to the UAE**

OceanWise working with its Licensed Partner, Seatronics, an Acteon company, are pleased to announce the completion of a three year project to design, install and deliver a fully operational network of 34 water level and temperature monitoring stations for Bayanat LLC in the United Arab Emirates (UAE). The stations are positioned at strategic locations within UAE from the Western Region to the border with Oman, a distance of over 400 km.

Water level is being measured using Valeport VRS-20 Radars with water temperature being measured using PT100 sensors from General Acoustics. All equipment is solar powered and housed in Valeport's TideStation enclosures. Communication with the stations is being handled using the Smart Telemetry Unit, the ip.buffer, from OceanWise over UAE's cellular network.

All scientific and system data is being sent to servers located at Bayanat's offices in UAE. The servers are running Microsoft SQL Server and OceanWise's Ocean Database and Port-Log System software. The servers were supplied by Seatronics and installed by OceanWise who also provided system testing and training. The sensors were supplied and installed for the client by Seatronics who are providing ongoing support locally with OceanWise providing remote support from the UK, where required.

This example of collaborative working demonstrates the value of having local knowledge and expertise in the area available to assist the customer in developing its capability and understanding in real-time environmental monitoring and onward sharing of the data across Government departments. The network provides Bayanat with the foundation to include additional monitoring sensors and functionality as the system gains wider use.

For further information, visit [www.oceanwise.eu](http://www.oceanwise.eu)

### **1.g) Aberdeen based Canyon Offshore Limited selected to trench cables for world's biggest offshore wind farm**

Canyon Offshore Limited, a leading trenching solutions provider based in Aberdeen, has been awarded a contract for the provision of offshore cable trenching services on DONG Energy's Hornsea Offshore Wind Farm Project One.

The multi-million pound subcontract was awarded by Siem Offshore Contractors, also operating from Aberdeen, who were chosen in November 2016 by DONG Energy to install the inner-array grid cable system.

Inner-array grid cables are buried under the seabed and connect the offshore wind turbines to each other. Canyon Offshore's award will require the trenching of approximately 140km of inner-array grid cables which will have been laid onto the seabed by Siem Offshore Contractors. Management of the operations, due to commence in Q4 2018, will be provided from Canyon Offshore Limited's Aberdeen base.

Hornsea Project One, which will be located 120km off the Yorkshire Coast, will become the biggest windfarm in the world, capable of meeting the electricity needs of well over one million homes.

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

### **1.h) ACO Marine Supplies Indian Coast Guard with its First Biological Wastewater Management System**

Reliance Defence and Engineering (RDEL) has contracted ACO Marine to supply a comprehensive wastewater management package for installation to a new coastguard training vessel building for the Indian Coast Guard.

RDEL, which in January 2016 acquired Pipavav Defence & Offshore Engineering to become India's largest private sector engineering and shipbuilding group, awarded ACO Marine the contract through its Indian distributor, Vanson Engineering.

This is the first time Indian Coast Guard is using ACO Sewage Treatment plant. Until now, ICG typically operated conventional chemical-based technologies.

Vanson Engineering will supply, install and commission two ACO Clarimar MF-4 biological treatment units and ACO PV 225 vacuum stations, after which system training will be given to ICG crews.

Fully type-approved to meet MEPC 227(64) and EC MED module B, the ACO Clarimar MF is a plug and play system manufactured using ACO Composite PPFR GREY, a durable polymer material. It combines ACO Marine's extensively researched and developed ACO-MF filtration technology with the company's new patented ACO 'bio-sword', a self-cleaning filtration element that effectively treats a ship's wastewater to well below the mandatory levels.

Tests have confirmed that the Clarimar MF can reduce Coliform Bacteria to 25/100ml, TSS to <14mg/l, BOD to <3mg/l, and COD to <25mg/l, with capacity to treat up to 37 800 litres of ship generated wastewater per day

For further information, visit <http://www.acomarine.com/>

### **1.i) CGG Wins Renewal of Dedicated Center Contract for PTT Exploration & Production Public Company Limited (PTTEP) in Thailand**

CGG announced today that PTT Exploration & Production Public Company Limited (PTTEP) has renewed its contract for the dedicated processing center (DPC) CGG has been operating in Bangkok on its behalf since November 2013. The new contract will run for a further three years, from 1 March 2017 to 28 February 2020.

The DPC is a key component in PTTEP's strategy to invest in new technology to be more precise in petroleum exploration and more efficient in production. CGG will continue to support PTTEP by delivering high-quality processing services, including advanced time and depth imaging, for 2D and 3D onshore and offshore seismic data acquired in PTTEP's operating areas worldwide. As part of its longstanding commitment to Thailand's E&P industry, CGG will also provide in-house processing training, technology updates and mentoring support to develop PTTEP's seismic processing experts required for PTTEP's growing business in Thailand and overseas.

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

### **1.j) Fugro Returns to Borssele Offshore Wind Farm Zone to Conduct UXO Survey**

Fugro has been awarded a joint contract with Boskalis for survey and identification of unexploded ordnance (UXO) in the Borssele Wind Farm Zone. The multimillion-Euro contract, for Dutch transmission systems operator TenneT TSO B.V., includes specialised survey and identification work in relation to cable routes for the planned grid connection between TenneT's two offshore platforms and its high-voltage substation onshore.

The new award follows a number of contracts undertaken by Fugro at the Borssele offshore wind farm site since early 2015, where workscopes have included geophysical surveys, geotechnical site investigations, integrated geological modelling and measuring meteorological and oceanographic conditions. The new UXO survey contract commences this summer and continues for a duration of approximately two years.

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

### **1.k) Aquaterra Energy wins multi-million pound North Sea abandonment contract**

Aquaterra Energy, a leading global offshore engineering solutions provider, has won a major contract to supply subsea high pressure riser (HPR) equipment and services for a subsea abandonment project in the central North Sea.

The multi-million pound deal will see Aquaterra facilitate the abandonment of ten subsea wells via deployment of a subsea HPR system from a jack-up rig. The scope of work could be extended to include two further subsea wells bringing the total number of abandonments to 12.

Riser analysis was completed in-house by Aquaterra and validated by Bureau Veritas. It has confirmed a 50-year return storm operating envelope after HPR and rig optimisations

were implemented. This has simplified the project operationally and reduced costs to the operator overall.

Aquaterra's Initiation Engineering or 'Well Start' specialism has been implemented on the project to deliver a one-stop shop for extensive expertise to optimise well activity by taking responsibility for the entire first phase of the well. This approach minimises third party interfaces across a client's project and addresses supply and equipment requirements, before the introduction of a blowout preventer. It can also mitigate risk and cut down on costly logistics, capex/opex, the number of crew involved and therefore, helicopter and accommodation needs.

With global rates for semi-submersibles averaging around USD 250,000 per day in 2016, day rate rental charges for jack-ups in Europe and Asia remain considerably cheaper.

The project is expected to be completed by Q4 2017.

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

### **1.l) IMCA Welcomes the UK Home Office Concession**

The International Marine Contractors Association (IMCA) welcomes the short term concession by the Home Office to immigration rules concerning seafarers joining vessels engaged in the construction and maintenance of offshore wind projects. However, IMCA notes that the recent change by the Home Office of immigration control over such seafarers (to resume after 21 October 2017) is a deviation from decades of common practice and is causing real operational difficulties.

Consequently, IMCA would encourage the Home Office to reach out to industry in order that its new application of the legal framework relating to seafarers can be introduced in a way that is consistent with the operational needs of industry; without risk of damaging key projects that are critical to delivering renewable energy capacity in the UK. The success of such projects are schedule, technology, and safety dependent, and a tapered adoption of the new approach to immigration rules would be welcome in order to give industry certainty and stability in planning future investments.

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.m) Scottish Government supports diver and ROV skills training to address future skills shortage**

Skills Development Scotland has awarded The Underwater Centre in Fort William funding to help ensure that Scotland is ready to supply the qualified workforce that the subsea industry will need in the future.

There is growing concern that the subsea industry could face major skills shortages in coming years. The downturn in the oil and gas industry has led to a reduction in training,

both by individuals and companies. Without ongoing investment in training, skills will be lost to the industry as older workers retire without the skilled workforce to replace them.

The Scottish Government is taking action to support subsea training now so that the country's workforce is ready to respond to positive market conditions when the oil price begins to recover, as well as being prepared for opportunities in decommissioning and the offshore renewables sector.

Starting in June 2017, Scottish residents will be able to get high-quality, industry-relevant closed bell and ROV training at The Underwater Centre for 50% of the usual cost. The other half of the fees will be paid by Skills Development Scotland.

With industry needs in mind, the financial support is targeted towards the specific areas where there are likely to be shortages. The support is not seeking to bring new people into the offshore industry but is aiming to increase the capability of the people already in the sector.

For more information, visit [www.theunderwatercentre.com](http://www.theunderwatercentre.com)

### **1.n) Opening of Placement Period for subscription commitments in respect of a proposed issuance of \$375 million of new six-year floating rate / 8.5% PIK second lien senior notes with warrants to Eligible Holders of existing Senior Notes**

On June 14, 2017, CGG SA ("CGG" or the "Company") announced that, following the execution of a lock-up agreement (the "LUA") with certain of its financial creditors and a restructuring support agreement with one of its significant shareholders, both in support of a comprehensive financial restructuring plan (the "Financial Restructuring"), it and certain of its subsidiaries had commenced certain legal proceedings to implement the Financial Restructuring, including the opening of a safeguard proceeding in France, a Chapter 15 filing in the U.S. and the commencement by certain of its subsidiaries of Chapter 11 cases in the U.S.

To continue reading, visit <http://www.cgg.com/en/Investors/Press-Releases/2017/06/Opening-of-Placement-Period-for-subscription-commitments>

### **1.o) N-Sea reaches one million man hours LTI free**

Subsea IMR provider, N-Sea Offshore Limited, has reached one million man-hours without a lost time incident (LTI).

N-Sea sets a high example for outstanding SHEQ performance and the industry milestone, which was reached earlier this month, is reinforced by the recent launch of the N-Sea Golden Rules programme, which embeds excellence in SHEQ (Safety, Health, Environment, Quality).

The Golden Rules programme will help N-Sea continue to raise awareness of its commitment to SHEQ, both internally and externally with its partners around the world.

N-Sea is known for its innovative work as an independent offshore subsea contractor, specialising in IMR services for the oil and gas, renewable and telecom/utility industries, as well as for civil contracting communities. N-Sea provides near shore, offshore and survey services to major operators and service companies alike.

For further information, visit <https://www.n-sea.com/en>

### **1.p) Hydro Group inks strategic agreement for international growth**

Aberdeen-headquartered subsea cable and connector specialist Hydro Group plc increases its global presences as it announces its partnership with Turkish firm, IMCA Electronics.

Complementing Hydro Group's cable and connection solutions, IMCA offers a range of sub-systems and components for highly demanding technical applications on land, sea and air.

The partnership will aid Hydro Group's customer support in Turkey and help develop key business opportunities within the region. Additionally, it will extend the services which IMCA currently offers to subsea high integrity systems developers within the high reliability and harsh environment component market.

Hydro Group employs more than 100 full time staff worldwide and operates on a global platform providing total solutions to a portfolio of prime contractors, major operators, OEMs, defence agencies, defence organisations and the UK MOD.

For further information, visit <http://www.hydrogroupplc.com/>

### **1.q) H-Scientific Ltd (HSL) doubles office space to accommodate growth**

H-Scientific Ltd (HSL) continue to grow through increased sales of control and communication systems for 'autonomous' vessels. Existing products, such as autopilots, communication and power management systems are selling well above previous years. Also, the increase in the customer designing new innovative AUV and ASV's has led to an increase in the sales of ShipSim3, which allows customers to simulate their designs prior to making prototypes, saving both time and money.

HSL's founder Dr. Henry Robinson commented 'New product development, new customers and more electronic platform integration means we need more office space and more engineers. We are recruiting the highest calibre engineers and technician to support our growth'

The interest and growth in autonomous vessels has also provided additional opportunities for HSL. Dr Robinson also states, 'We understand the nature of developing autonomous vessels and have solved a lot of our customer's problems in a collaborative way. Our aim is always to make the 'mission' successful. Our focus is not only on the technicalities of the engineering but the overall delivery to the end customer, this way we ensure we deliver the right solution'.

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

## **1.r) Caspian success sees ATR unveil new facilities and staff in Kazakhstan**

ATR, a Centurion company, has opened a new base in Kazakhstan as the company looks to capitalise on recent business growth in the region. The business will initially employ 12 new personnel, 10 of which are local content, with plans to double the team over the next 12 months.

The purpose-built facilities at Aktau include offices, workshops and a yard area with the location selected to enable the company to support clients operating in the Caspian region.

The decision to increase its presence in the country comes after ATR secured business to supply lifting equipment and regulatory inspection and maintenance services to support projects for some of the world's leading energy services companies.

ATR, which merged with Centurion Group last year, is the largest rental fleet management company to the UK's oil and gas industry. Now operating with the Group's combined capabilities, it will be able to further support campaigns globally including those for operators, drilling companies, fabric maintenance contractors, engineering firms, and across shutdowns and marine projects.

The facilities in Kazakhstan cover almost 2,000 square meters in size and are similar in size and capabilities to those the company has in Baku, Azerbaijan.

For further information, visit <http://www.atrgroup.co.uk/>

## **1.s) Thien Nam Positioning selects Sonardyne to track Vietnamese divers and ROVs**

Subsea technology from Sonardyne that tracks the position of divers and ROVs as they carry out surveys and inspections, has been selected by Vietnam-based Thien Nam Positioning JSC to support its offshore activities in the region.

The Mini-Ranger 2 Ultra-Short BaseLine (USBL) acoustic tracking system, the first to be delivered into Vietnam, was supplied through Sonardyne's subsidiary in Singapore. It has the capability to simultaneously and precisely, track up to 10 underwater mobile targets and benefits from the same Wideband acoustic signal technology found in Sonardyne's deep water USBL product family, but for significantly less cost.

Thien Nam Positioning conducts a wide range of geophysical surveys, pipeline and flowline installations, and maintenance operations in support of the country's offshore oil and gas industry.

For more information visit: [www.sonardyne.com](http://www.sonardyne.com)

## **1.t) AML Acquires Moving Vessel Profiler (MVP) Product Line from Rolls-Royce**

AML Oceanographic Ltd. (AML) has purchased the global rights to the Moving Vessel Profiler (MVP) product line from Rolls-Royce Canada. Originally developed in Halifax by Brooke Ocean Technology (BOT) and later owned by Rolls-Royce, the MVP system is

widely known as the industry standard in high speed, underway profiling. This acquisition enables leading instrumentation and sensor manufacturer AML to provide an integrated profiling platform to the hydrographic survey market.

The MVP user base is distributed throughout Europe, Asia, North America, and South America. It includes such hydrographic thought leaders as the Canadian Hydrographic Service, the Naval Oceanographic Office (NAVO), and NOAA.

AML owns the global rights to manufacture of new systems and support of the existing install base. MVP activities will be managed out of AML's Dartmouth, Nova Scotia office. AML's Nova Scotia team already has extensive history with MVP systems, with more than 50 man years of design, manufacture, and support experience.

For more information, please visit [www.AMLOceanographic.com](http://www.AMLOceanographic.com)

### **1.u) Belgian Navy buy 10 licences of SeeByte's SeeTrack software for their AUV fleet**

SeeByte, the global leader in creating smart software for unmanned maritime systems, announce the sale of 10 SeeTrack licenses, including personnel training, to the Belgian Navy. SeeTrack will be integrated onto their AUV fleet which will be deployed for Mine Counter Measures (MCM).

The software package includes additional specialist modules designed for mine countermeasure (MCM) operations. These include Automatic Target Recognition (ART), Change Detection Tool, Performance Analysis Training Tool (PATT) and Seafloor Classification modules. These additional modules have been designed to optimise SeeTrack for MCM and highlight the relevant data from the sensors on-board the AUVs to the operator.

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

### **1.v) Complete Electrical and Fiber Optical Connectivity Solutions in Subsea Systems**

Subsea TE Connectivity (TE), a world leader in connectivity and sensors, recently released its SEACON HydraElectric wet-mate connector. Designed, developed, tested and fully qualified in accordance with the latest industry standards, including ISO 13628-6 and API 17F SEAFOM, this connector is available in remotely operated vehicle (ROV), stab plate and manual modes. The connector's modular construction with 4, 7 or 12 electrical circuits enables many configurations for use in electrical, signal and distribution networks in subsea control systems.

TE's HydraElectric connector supports upcoming industry standards for subsea control system power distribution. Rugged marine systems require connectors with high speed communication capabilities and the ability to manage a range of operating currents. Qualified for both 1500 VDC and 1000 VAC pin to pin, the HydraElectric connector enables copper-based high speed Ethernet and supports the industry standards for Ethernet protocols, including CAN bus compatibility.

TE's HydraElectric connector design features industry standard panel, bulkhead and stab plate interfaces allowing users to exchange, upgrade or modify existing hardware with minimum effort.

Verified for use at 4,000 meters water depth, the connector includes oil-filled dual barriers to help maintain pressure balance. The connector is also corrosion resistant without cathodic protection.

For more information visit [www.te.com/seacon-hydraelectric](http://www.te.com/seacon-hydraelectric)

### **1.w) Sediment? Solved expanded to include sediment stability instrumentation**

Aquatec Group is delighted to announce the expansion of the Sediment? Solved range to include instrumentation to measure surface sediment stability, with the addition of Partrac's benthic flumes and Cohesive Strength Meter (CSM). Partrac's Voyager II sea flume is the only commercially available ocean rated benthic flume, which is designed for in situ studies of threshold, erosion velocity and erosional behaviour of undisturbed marine muds. Designed to operate to shelf sea depths, the flume applies a controlled flow stress (or velocity) onto the surface of submerged bottom/bed sediments and various instruments monitor and record erosion as it proceeds.

The Cohesive Strength Meter is a field instrument that directly measures the surface erodibility of marine, fluvial and terrestrial sediments. It permits rapid assessment of sediment critical entrainment stress and provides a relative measure of erosion rate. This information is important for the understanding of benthic habitat stability, contaminated sediment dispersal, river bank and agricultural land stability, and the geomorphology of estuaries and coastal areas.

Aquatec's Sediment Solved range includes instrumentation to observe and collect suspended sediment, and collect bedload and deposited sediment. Recent additions to the range include Aquatec's own AQUAlogger 310TY advanced turbidity logger.

Find out more at [www.sedimentsolved.com](http://www.sedimentsolved.com).

### **1.x) HR Wallingford rises to 15th place in NCE 100 rankings**

The New Civil Engineer has announced its top 100 UK civil engineering companies at an industry event at the Grosvenor House Hotel in London on Thursday 22 June 2017. Engineering and environmental hydraulics organisation, HR Wallingford, is one of the fastest climbers in this year's rankings, having risen 28 places to 15th in this year's NCE 100. As well as celebrating the top 100 civil engineering companies in the UK, the event also highlights those firms which excel in each of the New Civil Engineer's five core competencies within 10 award categories.

HR Wallingford was named as a finalist in the Technology Champion Award for its use of innovative technologies while working on the £300m Aberdeen Harbour Extension project.

The company prides itself on its technical excellence, and on attracting and developing talent. It has strong links with universities and colleges, and its staff – many of whom are international authorities in their field – act as visiting tutors and professors.

HR Wallingford is keen to play its part in promoting equality and diversity in the engineering industry - 38% of its engineers and scientists, and its Chair, are female, and the workforce includes 24 different nationalities.

For further information visit [www.hrwallingford.com](http://www.hrwallingford.com)  
Follow on Twitter @hrwallingford

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

### **2.a) TELEMATC training courses with HR Wallingford, 11-15 September 2017, UK**

TELEMATC is an open-source software suite for modelling free surface waters using unstructured finite element models. Aimed at consultants and students who are working on riverine, coastal and maritime hydrodynamic modelling projects, this five-day course gives an insight to the hydrodynamic tools available in the TELEMATC suite. The course includes modules on tidal flow, waves and sediment transport modelling, allowing users to apply the software to a range of engineering and real-world scenarios. Places can be booked on the full five-day course or specific modules.

For further details visit <http://training.hrwallingford.com/training/telemac-summer-school>

## **3) WHO'S ON THE MOVE?**

### **3.a) Liquid Robotics Names Caryn Nightengale as Chief Financial Officer**

Liquid Robotics is pleased to announce Caryn Nightengale, former Director of Corporate Development for Boeing Defense, Space & Security (BDS), has transitioned from her role at Boeing to join the Company as Chief Financial Officer. In her new position, Caryn is responsible for the financial management, information technology, contracts and Global Trade Controls (GTC) departments for the Company. She will report directly to Gary Gysin, President and CEO.

Caryn has a rich background in corporate development, investment banking and financial management. Her career focus has been leading companies through complex organizational transformation and financial management. As Director, Corporate Development at Boeing, she worked closely with Boeing's senior executive team and Boeing's business units to develop, evaluate and execute differentiated growth strategies through acquisitions, divestitures, joint ventures and equity investments. As an investment banker, her experience included extensive transaction and strategic advisory experience throughout a broad range of industries.

For more information, visit [www.liquid-robotics.com](http://www.liquid-robotics.com)

### **3.b) New CTO Boosts Rovco's Senior Management Team**

UK-based subsea company Rovco has strengthened its senior management team with the appointment of Dr Iain Wallace as chief technology officer (CTO).

The move reinforces the firm's strategic vision to deliver subsea services that increase value and reduce risk through the use of innovative technologies.

A former technical lead for the European Space Agency, Wallace will drive the development of a real-time 3D vision system for ROVs and AUVs. He will also explore how artificial intelligence can be used to solve asset integrity issues by extracting actionable information from traditional video survey data.

As CTO, he will enhance Rovco's state-of-the-art underwater photogrammetric 3D modelling capabilities utilising the latest simultaneous location and mapping (SLAM) techniques for complex underwater inspections.

With an expanding fleet of ROVs, sized from micro to large inspection vehicles, Rovco has the resources required to provide inshore/offshore services and inspections anywhere in the world. Offering a unique approach to technical subsea challenges, Rovco has the expertise to deliver a high quality, cost effective solution for underwater hydrographic survey and inspection services, using high resolution state-of-the-art cameras, scanning sonars, multibeam echosounders and various leading edge survey technologies.

For more information about Rovco, visit [www.rovco.com](http://www.rovco.com)

### **3.c) Viking SeaTech Canada completes local registration and appoints Craig Smith to lead company growth in Newfoundland**

Viking SeaTech, a global provider of marine services to the energy sector, has continued its global expansion by setting up a new office in St. John's, Newfoundland, Canada.

As part of this growth, the company has appointed industry expert Craig Smith to a newly-created post as Marine Projects Manager to head up business activity in the region.

Craig, a Canadian Master Mariner who has more than 20 years' marine experience, joins the company in response to growing demand for Viking SeaTech's services in Newfoundland. This new appointment will see the company deliver a full range of services to clients through its own dedicated local support.

Viking SeaTech's business development plans in Newfoundland will see it directly provide the following services: Front-end marine engineering and consultancy services including mooring analysis; marine assurance, inspection, audits and surveys; mooring equipment supply and associated services, a range of onshore and offshore marine support which will include provision of rig move procedures and personnel and survey and rig positioning services.

For further information, visit <http://www.vikingseatech.com/>

## **4) JOB POSTINGS**

### **4.a) Senior Oceanographic Engineer at Fugro**

Fugro are the world's leading, independent provider of geo-intelligence and asset integrity solutions for large constructions, infrastructure and natural resources. They provide the technical data and information required to design, construct and maintain large structures and infrastructure in a safe, reliable efficient manner. Working predominantly in energy and infrastructure markets, Fugro employ approximately 11,000 employees in around 60 countries.

Fugro's office in Wallingford delivers a number of key services supporting projects in the marine and land environment.

The Metocean Measurements Surveys Department has the following vacancy for a Senior Oceanographic Engineer based in Wallingford/Offshore:

You will be involved in all aspects of marine surveys including: metocean field engineering activities, contribution to high HSE standards, maintenance, testing and preparation of metocean equipment, deployment and recovery of metocean equipment and offshore client liaison.

This position is ideally suited to experienced offshore engineers from all backgrounds looking for a more varied career; the projects our teams are involved in vary from very short one/two days to slightly longer trips up to three weeks, with the potential to work all round the world. Our engineers are involved in a mixture of offshore vessel, drilling platform and onshore installations. As no two projects are the same, members of our team need to be resourceful and flexible and enjoy working in a fast-paced and challenging environment. The offshore engineers are also asked to be involved in adding their experience to project planning.

For more information, visit <https://www.fugro.com/careers/search-for-vacancies/apply/view?vacancyId=2557>

### **4.b) Oceanographic Engineer at Fugro**

Fugro GB Marine Ltd is the world's foremost provider of commercial meteorological and oceanographic measurement, assessment and consulting services, with offices located around the globe.

Fugro are enjoying a sustained period of growth and as a result they have a vacancy for an experienced Oceanographic Engineer. This is both an exciting and varied role and offers you the opportunity to work for a growing global company.

As an Oceanographic Engineer, you will assist in and undertake the design, build and maintenance of offshore metocean monitoring systems. You will be assigned to projects to design, build and commission; and also support existing real-time data acquisition and monitoring systems for the oil and gas sector through maintenance and defect investigation.

The role is based in the Wallingford (UK) office and will also require some offshore field work trips.

Benefits for this Wallingford based role include a competitive salary accompanied by an attractive package including contributory pension scheme, life assurance, 24 days annual leave, private medical insurance and a subsidised restaurant.

If you are interested to join Fugro's talented team, please apply by submitting a CV to: [fgbml.recruitment@fugro.com](mailto:fgbml.recruitment@fugro.com) quoting ref 2595

Deadline for application submission is 31st July 2017.

#### **4.c) 2x Oceanographers at Fugro**

Fugro are the world's leading, independent provider of geo-intelligence and asset integrity solutions for large constructions, infrastructure and natural resources. They provide the technical data and information required to design, construct and maintain large structures and infrastructure in a safe, reliable and efficient manner. Working around the globe, predominantly in energy and infrastructure markets, Fugro employ approximately 11,000 employees in around 60 countries.

Their office in Wallingford delivers a number of key services supporting projects in both the marine and land environment.

The Metocean Modelling and Analysis Department has the following 2 vacancies for an Oceanographer based with the team in their Wallingford office.

A PhD in Oceanography or related discipline is desirable, but not essential. Experience of report writing and MATLAB programming is also desirable, but not essential.

For more information, visit <https://www.fugro.com/careers/search-for-vacancies/apply/view?vacancyId=2608>

#### **4.d) Head of Geosciences at EGS**

EGS (International) Ltd is part of the EGS Group that operates worldwide undertaking professional and tailored survey solutions for a wide range of projects.

As Head of Geoscience you will manage the day-to-day running of the Department, this will include the technical supervision of personnel ensuring that the acquisition, interpretation and reporting of geophysical data is consistently carried out to the highest standards. You will also be responsible for the QC of the relevant deliverables prior to the submission to the client.

As Head of Geoscience you will be responsible for providing support to all site activities leading to the acquisition of geophysical data. This position includes both site and office-based work. You will contribute to technical developments and maintain technical standards by a process of training / mentoring within the Department.

For more information on the role, visit <http://www.egssurvey.com/careers.html>

To Apply for this position please send your CV and covering letter to: The HR Manager, EGS International Ltd, Unit 27 Woolmer Way, Bordon, Hants GU35 9QE or email: [humanresources@egssurvey.co.uk](mailto:humanresources@egssurvey.co.uk)

#### **4.e) Head of Business Development at STS Subsea**

STS Subsea, a unique and innovative designer and manufacturer of harsh environment connectors, cable harnesses, sensors and provider of bespoke engineering solutions and services are looking for an experienced sales and business development professional to join their team based in Great Yarmouth.

The fundamental purpose of the role is to accelerate business growth by expansion of the customer base and product/service offerings, leveraging recent product developments and STS experience gained in over 35 years of serving the subsea market. The ideal candidate should have proven technical sales experience, with a background in a subsea related industry, ideally involving connector/cable assembly business or contract manufacturer. Previous experience of developing and managing a sales team would be beneficial, but a 'can-do' attitude and a commitment to providing high quality products and customer service is especially important.

Benefits include competitive salary, car allowance and performance related benefits, 25 days annual leave and working with a team seeking to challenge the status quo. Please go to <http://sts-defence.com/careers/> for further details.