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1) OCEAN BUSINESS NEWS

1.a) Oceanbuzz celebrates the 500th issue!

Unbelievably, today marks the release of the 500th issue of Oceanbuzz! Stalwart readers will remember it was launched back in February 2007 by the organisers of Ocean Business after industry leaders came to them asking if they would produce a newsletter with the sole aim of keeping industry connected with current ocean technology news. Since its inception, the interest in Oceanbuzz has grown phenomenally and today it boasts a readership of over 30,000+ from across the world.

The woman behind the first ever Oceanbuzz, Versha Carter, attributes the success to, 'The simple format. There is nothing fancy about Oceanbuzz, just regular bits of interesting news that we cut and paste and then circulate globally. In the early years we had absolutely no idea how much Oceanbuzz would take off and resonate with industry, but sure enough, to this day, folks are still spreading the word and our reach is still growing!'

Whilst the entire team has taken on the role at some point in the past ten years, the current Oceanbuzz 'cutter and paster', Charlotte Brown, explained why she enjoys doing the role so much, 'Oceanbuzz is a labour of love, but we receive so much amazing feedback that it makes it a pleasure to work on each week. I still get excited when I open up the Oceanbuzz inbox and see it overflowing with articles and by sharing these stories it makes me feel that we are doing our bit to help keep this wonderful industry united.'

To honour this fantastic milestone, here is a reminder of the stories that featured in **Issue 1 on 19th February 2007:**

1. OCEAN BUSINESS 2007 NEWS *(first published February 2017)*

- Sonardyne to launch new USBL Product Range
- New product Launch: GeoChirp 3D From GeoAcoustics
- Novel Sensor Systems for Detecting Water Contamination from CTG
- ASL to demonstrate new Ice Profiler and Water Column Profiler hardware and software

2. GENERAL OCEAN NEWS *(first published February 2017)*

- NOCS 6500m Pressure Testing Facility undergone refurb

- Rutgers' submarine glider completes a mission off the coast of Antarctica
- Saderet appointed a Satel UK distributor
- Seatronics place a significant order with Valeport
- AANDERAA current meters for Irish Sea Fisheries Board

3. TRAINING AND DEMONSTRATION NEWS *(first published February 2017)*

- New Hydrographic Surveying Course

4. EVENTS *(first published February 2017)*

- Bob Downing Charity Golf Day
- 3rd Annual General Meeting of the Hydrographic Society UK
- Teledyne RD Instruments "ADCPS In Action" User's Conference

5.WHO'S ON THE MOVE? *(first published February 2017)*

- Derek Lynch joins Veripos
- Andrew McMurtrie joins Geo Century

Versha concluded by saying, 'We could not be more grateful to all of our subscribers, contributors and advertisers, we simply would not be celebrating this momentous occasion without them.'

So here's to 500 more fantastic issues of the industry's favourite e-newsletter – keep the stories coming and keep on reading.

2) GENERAL OCEAN NEWS

2.a) Sonardyne acoustic positioning technology selected for Royal Research Ship Sir David Attenborough

Ocean science technology company, Sonardyne International Ltd, UK., has been awarded the contract to supply Britain's new polar research vessel, RRS Sir David Attenborough, with its subsea acoustic tracking and position reference equipment.

The Ranger 2 Ultra-Short BaseLine (USBL) system will be used by scientists to precisely track the position of, and communicate with, scientific instruments and robotic vehicles deployed from the vessel, including the now famous Boaty McBoatface AUV. Ranger 2 will also be interfaced with the vessel's dynamic positioning (DP) system for precise station keeping during science operations.

Sonardyne's contract includes the supply of two through-hull deployment machines, seafloor and vehicle-mounted tracking transponders, and topside control hardware and software. The first equipment deliveries to Cammell Laird for integration into the vessel have already begun.

Speaking of the significance of the contract, Mark Carter, Global Business Manager for Sonardyne said, “As a privately-owned British engineering company, it’s a great honour for our technology to have been selected for Britain’s next polar research vessel.”

For further information, please visit: <https://www.sonardyne.com/sonardyne-acoustic-positioning-technology-selected-royal-research-ship-sir-david-attenborough/>

2.b) EdgeTech Sonar utilized in the USS Indianapolis discovery

EdgeTech is proud to learn that the company’s AUV-based side scan sonar system played a key role in the recent discovery of the USS Indianapolis wreckage 5,500 meters deep in the Philippine Sea. The sinking of the USS Indianapolis had the greatest loss of life from a single ship in the history of the US Navy.

The EdgeTech 2205 AUV-based sonar system is one of the many advanced underwater technology systems on-board the Research Vessel Petrel which discovered the wreckage recently. The system is integrated into a deep water autonomous underwater vehicle (AUV) and is used on the AUV to acoustically image large swathes of the seafloor as the AUV swims thousands of meters below the surface. The EdgeTech system is configured as a dual frequency 75 / 230 kHz side scan sonar and bathymetry providing the ability to image over 1,000 meters from each side of the AUV as it conducts its search pattern in deep waters.

For further information, visit www.edgetech.com

2.c) RS Aqua celebrate 35 years trading with 30% growth, and a beach-clean!

RS Aqua, the marine technology specialists based in the UK, are celebrating 35 years of trading. To mark the occasion, RS Aqua have closed out their financial year with 30% year-on-year growth. Martin Stemp, Managing Director, writes: “This has been a very positive year for RS Aqua. We have taken part in some significant projects across many different sectors within the marine scientific industries, from oceanography to autonomy, fisheries to defence. The value of having such diverse and high-performing staff who have worked within the sectors, and a trusted high-end product portfolio, is clear to see.”

To see out the financial year and to mark the end of summer, about half of the RS Aqua staff downed tools for the day and participated in a voluntary Beach Clean and ShoreSearch survey at Farlington Marshes Nature Reserve, Hampshire, UK. The day was facilitated by The Hampshire & Isle of Wight Wildlife Trust, who led the RS Aqua team through a tour of the salt marsh, an internationally critically important feeding and roosting site for many species of birds, then a beach-clean and finally a ShoreSearch survey of the intertidal area around the old Farlington Oyster House. Despite best efforts, no Osprey were seen, but many species of wading birds and geese were spotted. The beach-clean removed 35kg of mostly plastics from the strandline. The data from the ShoreSearch survey will help to build baseline data on intertidal diversity in the area, informing future conservation and management efforts.

For further information, visit www.rsqua.co.uk

2.d) Offshore wind market delivers success for Montrose Port Authority

Montrose Port Authority, a leading support and service hub for the energy industry, has heralded a new era of capabilities, supporting its first project within the offshore renewable sector.

In association with NorSea Group (UK) Ltd, a subsidiary of the leading Norwegian logistics company NorSea Group AS, the Port is participating in the pioneering Hywind Scotland offshore wind project.

The four-week campaign consisted of five port calls for anchor handling tug supply vessel, the Normand Prosper. After loading chain and mooring equipment to the vessel, it then delivered the mooring systems designed to support Statoil's floating windfarm project in the North Sea.

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

2.e) Cortland's highest strength rope to be used in ocean's deepest trench

Cortland, global designer and manufacturer of engineered synthetic ropes, has won a significant new order from the Woods Hole Oceanographic Institution (WHOI) to supply a single 12,000 meter length of 9/16" Plasma® HiCo synthetic rope.

The rope will be used on WHOI's new Ocean Class research vessel, R/V Neil Armstrong, to take core samples from the selected sites around the globe as well as the Mariana Trench in the western Pacific Ocean, the world's deepest ocean trench.

WHOI elected to use this synthetic rope over wire because of the benefits provided by its superior breaking strength – the maximum length of a vertical column of the material that could suspend its own weight when supported only at the top – which is crucial in work being carried out at this depth. It also has the highest strength and lowest stretch available in a rope of this length.

HiCo also retains all of the features and benefits of standard Plasma ropes with the added characteristic of an increased coefficient of friction coating to allow for better gripping in applications such as traction winch systems. Synthetic rope is also easier to maintain and handle than wire.

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

2.f) Science community acquires oceanographic instruments from MacArtney

MacArtney has secured an order for LISST instruments from University of Bergen, Norway.

LISST instruments are manufactured by Seattle based oceanographic instrument manufacturer, Sequoia Scientific Inc. They are used for environmental monitoring, industrial, and scientific applications across the globe. The unique submersible LISSTs help engineers, scientists, and monitoring agencies reliably measure the concentration and size of sediment, plankton, and oil droplets in any water body.

The order placed by University of Bergen with MacArtney consists of the LISST instruments LISST-VSF and LISST-200X. These products are to be used in the sea close to the Lofoten Islands in northern Norway for water optical property studies.

In addition to the two instruments, supplied complete with battery packs, the order comprises MacArtney deployment frames for both instruments, and a two-day on-site training course in Bergen headed by MacArtney personnel. The training sessions will comprise both theoretical and practical sessions covering the fundamentals of light scattering as well as instrument deployment and subsequent data processing and interpretation.

For additional information, please contact Hans-Jørgen Hansen, Vice President of Sales & Marketing, tel. +45 7613 2000, email hjh@macartney.com, or visit the company website www.macartney.com.

2.g) M2 Subsea achieves ISN approval in US for employee safety management programme

M2 Subsea, a global independent provider of ROV services, has secured the seal of approval from ISNworld (ISN) in the US for its Safety Management System.

Following an evaluation of the company's internal system for managing its health and safety, M2 Subsea met the required standards from the global leader in contractor and supplier management.

ISN is an internationally recognised resource for connecting companies with safe, reliable contractors and suppliers and is designed to meet internal and governmental record keeping and compliance requirements. It measures key performance indicators among workers in meeting industry needs and regulations.

For further information, visit <https://www.m2subsea.com/media/?cat=news>

2.h) Blue Ocean Monitoring launches an innovative and disruptive approach to geochemical surveys

In July 2017, Blue Ocean Monitoring conducted the Yampi Geochemical Glider Survey (Yampi Project) a research and development project undertaken, and wholly funded by Blue Ocean Monitoring. The Yampi Project built on the knowledge gained from previous Geochemical Surveys and incorporated the use of leading methane sensor technology, never been applied to underwater gliders, to enhance the ability of gliders to detect of hydrocarbons in water.

After undertaking many months of engineering and design to allow for the integration of the methane sensor Blue Ocean Monitoring deployed the underwater glider in the Browse Basin, Western Australia. The glider was capturing methane and fluorescence (a measure for crude oil) data, along with other oceanographic properties, at 1 second intervals and over the full water column for a period of 15 days.

Survey results were very positive with high concentrations of methane, up to 160 times background measured, this correlated well with historical data sets. Additionally, by using a fluorometer on the same vehicle, Blue Ocean Monitoring was able to analyse if longer chain

hydrocarbons were present, which aids in the understanding of whether petroleum systems have biogenic or thermogenic origins.

For further information, please visit www.blueoceanmonitoring.com. Follow on Twitter [@blueocean_au](https://twitter.com/blueocean_au)

2.i) **MARSAT creates innovative satellite services for the maritime industry**

MARSAT, a corporate network of private companies and a research institute are working together within the MARSAT project to develop new services for the maritime industry using satellite data. The main goal is to create integrated satellite-based services to improve safety and efficiency in shipping, offshore industries, emergency response and rescue operations.

The use of data is already widespread in terms of machine data, satellite navigation and public weather data but combined with information generated from airborne sensors or satellites the possibilities for exploiting new business opportunities are present.

There is big potential for the Earth Observation industry to offer user-oriented, easy-to-use and sustainable services to the maritime industry.

MARSAT project partners include [EOMAP GmbH & Co. KG](#), [Drift & Noise Polar Services GmbH](#), [European Space Imaging GmbH \(EUSI\)](#), [SevenCs GmbH](#) and TRENZ AG as well as the [Institute of Shipping Economics and Logistics \(ISL\)](#) .

For further information, visit www.marsat-projekt.org

2.j) **Slippery liquid surfaces confuse mussels to stop them from sticking to underwater structures**

Mussels are one of the worst perpetrators of biofouling, or the unwanted accumulation of organisms on underwater structures like pipes, boats, industrial equipment, and docks. Not only do biofouling organisms like mussels threaten to slice open an unlucky swimmer's foot, they have significant economic and environmental costs: the US Navy alone spends ~\$1 billion per year on antifouling efforts, and many species are invasive pests that hitch rides to new environments on ships' hulls.

The vast majority of the weapons deployed against mussels and other clingers-on are paints and coatings that contain toxic chemicals, usually copper-based, that deter or kill organisms when they come into close proximity. These materials raise concerns because they poison species indiscriminately, accumulate in waterways, likely have ecological impacts, need to be replaced regularly, and are often not as effective as desired. Non-toxic "low surface energy" coatings based on silicone or siloxane polymers (compounds similar to those used in the medical industry for catheters) have been introduced as non-toxic alternatives, but while these materials do allow for easier removal of biofouling species, they are less effective at preventing organisms from attaching in the first place, and are susceptible to damage and decay.

A study has demonstrated that a certain form of SLIPS is indeed essentially mussel-proof.

Find out more from The Wyss Institute at Harvard University <https://vimeo.com/228404606>

2.k) **Ecospeed decision validated by Ernest Shackleton**

British Antarctic Survey's decision to apply the Ecospeed hard coating to the hull of its new polar research ship *RRS Sir David Attenborough* has been validated by the recent drydocking of sister vessel *RRS Ernest Shackleton*.

The 80m long vessel, coated with Ecospeed in 2009, drydocked last month at the Orskov shipyard, in Frederikshavn, Denmark, where the hull was found to be in "very good condition".

The durability of the coating and the ease with which repairs can be effected were the reasons why BAS/NERC selected Ecospeed for the newbuild *RRS Sir David Attenborough*.

For further information, visit <https://subind.net/>

2.l) **Sonardyne sonars installed to protect new Middle East energy facility**

Maritime security company, Sonardyne International Ltd, UK, has announced that its underwater intruder detection sonar technology, Sentinel, has been installed on the site of a new Critical National Infrastructure (CNI) facility in the Middle East to monitor unauthorised access from the sea. The programme of work included the supply of multiple in-water sonars and redundant control room equipment in order to provide uninterrupted situational awareness over a large waterfront.

CNI facilities such as power plants, dams, gas storage terminals and offshore oil platforms represent attractive targets for sabotage. Many of these installations have comprehensive above-the-water security systems that can include physical barriers, access control, surface radar and long range opto-electrical sensors. However, many are vulnerable to intrusion from the water, and in particular, from below the surface.

Sonardyne's Sentinel closes this gap in surveillance capability. It reliably detects, tracks and classifies divers and small underwater vehicles approaching a protected asset, alerting security personnel to the potential threat. With a track record spanning more than 10 years, Sentinel is widely regarded as the security industry's most extensively deployed diver detection sonar.

The small, lightweight design of Sentinel's in-water sonar unit makes it ideal for mobile security operations but for this contract, Sonardyne's in-country partner installed the sonars on permanent seabed mounts placed in key locations around the shoreline.

For more information on Sentinel, visit <https://www.sonardyne.com/product/sentinel-diver-detection-sonar/>

2.m) **CGG Starts Espirito Santo IV survey offshore Brazil**

CGG announces the start of work on Espirito Santo IV, a large BroadSeis™ 3D multi-client survey in the deep and ultra-deep waters of the Espirito Santo Basin offshore Brazil.

The Oceanic Champion is acquiring the survey which is expected to take seven months. This industry-supported survey will cover 10,300 sq km and be processed at CGG's Rio de Janeiro Subsurface Imaging center. The high-end broadband sequence will include the latest 3D deghosting, Full-Waveform Inversion (FWI) velocity modeling and Tilted Transverse Isotropy (TTI) imaging. Fast-Track PSDM products will be delivered six months after completion of the acquisition.

Jean-Georges Malcor, CEO, CGG, said: "This new survey will expand our high-quality coverage across the Espirito Santo Basin, enhancing industry understanding of exploration potential in this promising region with an upcoming lease round. It reflects CGG's commitment to invest in the innovative products required to support the successful development of Brazil's oil and gas resources."

For further information, visit www.cgg.com

2.n) ECA Group extends capabilities of its unmanned surface vehicle INSPECTOR MK2 to provide faster data transfer linked to other unmanned systems.

Premium equipment has been selected and tested in real user conditions to complete and qualify ECA Group radio communication solutions for its USV range.

ECA Group's USV, is now able to transfer data of modules and communicate with others unmanned vehicles. Featuring this new capability, the Unmanned Surface Vehicle INSPECTOR can be used as an intelligent docking system for underwater drones systems such as AUVs or ROVs, allowing them to be automatically deployed and recovered: it enables recharging and data download, as well as fast transits.

Fitted with acoustic modem and short baselines for underwater communications and positioning, the USV allows underwater inspection and intervention to be supervised by an operator based on a safe spot.

Last, the Unmanned Surface vehicles equipped with down looking sonars are the ideal platforms for detection of in volume mines as well as obstacles (such as nets) for safe AUV navigation.

For further information, visit www.ecagroup.com

2.o) Instant access to IMO dynamic positioning guidelines from the IMCA website

It was in March 2015 that the International Maritime Organization (IMO) agreed to use the International Marine Contractors Association (IMCA) proposals as the basis for the review of the IMO *Guidelines for vessels with dynamic positioning (DP) systems* (MSC/Circ.645).

Now that IMO has published the update (MSC/Circ.1580), IMCA has consolidated the guidance into document 245 IMO which is quickly and easily accessible on the IMCA website at <https://www.imca-int.com/publications/425/guidelines-vessels-units-dynamic-positioning-dp-systems-msc-1circ-1580/>, together with the original guidance contained in 113 IMO which is at <https://www.imca-int.com/publications/76/guidelines-for-vessels-with-dynamic-positioning-systems-msc-circular-645/>.

The *Guidelines for vessels with dynamic positioning systems* (MSC/Circ.645) were approved by MSC 63 in May 1994 to provide the industry with an international standard for dynamic positioning systems on all types of vessels (see Guidelines for vessels with dynamic positioning systems (MSC Circular 645)). Since that time DP has evolved from being a tool primarily for mobile offshore drilling units (MODUs) maintaining position over offshore wells, to being employed for a wide range of position keeping operations, with systems being fitted on a much larger number of new vessels and on an increasingly diverse set of vessels, from offshore units to shuttle tankers and passenger vessels.

It is recommended that the newly adopted Guidelines (MSC.1/Circ.1580) be applied to vessels and units constructed on or after 9 June 2017. For vessels and units constructed on or after 1 July 1994 but before 9 June 2017, the previous version of the Guidelines (MSC/Circ.645) continue to be applied; however, it is recommended that sections 4 and 6 of MSC.1/Circ.1580 are applied to all new and existing vessels and units as appropriate.

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

3) EVENTS, TRAINING & DEMONSTRATIONS

3.a) Spotlight on the latest subsea technology, 14 September 2017, Westhill, UK

Global subsea equipment specialist, Ashtead Technology will host its annual Technology Showcase event on 14th September at its purpose-built facility in Westhill - the heart of the global subsea sector.

Now in its third year, the Technology Showcase will highlight the latest tools, products and services from leading manufacturers including Sound Metrics, Kongsberg, Innova, Trittech, nCentric, Sonardyne, Newton Labs, R2 Sonic, SubC Imaging, Teledyne Marine, Vortex, iXBlue, EdgeTech, Valeport, Olympus, Phoenix, AquaTec, Cygnus and EddyFi.

Attendees will also have the opportunity to find out about Ashtead's range of autonomous measurement solutions, UKAS calibration and other value-added services that have been developed in response to customer demand for innovation.

With around 200 industry professionals expected to attend, the event is a great opportunity to see product demonstrations and network with industry experts from across the globe. A BBQ and refreshments will be served throughout the day.

To register, please sign up here for your e-ticket: <https://www.eventbrite.co.uk/e/ashtead-technology-showcase-bbq-tickets-36998522577>

3.b) MARSAT workshop, 21 September 2017, Hamburg, Germany

MARSAT organizes its' first workshop "Maritime meets Space" on September 21, 2017 in Hamburg, Germany.

As the MARSAT association combines extensive experience and expertise in the field of satellite services, software development, and maritime services, the workshop will provide a

platform to discuss challenges and solutions for the maritime industry in the digital era (Maritime 4.0) with a strong focus on remote sensing (satellite and airborne sensors), modeling services and data flows.

In separate sessions participants will look at concepts, potential applications and 'real world' examples and topics such as navigation, environmental monitoring and data integration will be covered.

The workshop is free-of-charge and open to all stakeholders in the maritime industry.

For more details on MARSAT please visit the MARSAT homepage on www.marsat-projekt.org or email MarsatWorkshop@eomap.de

3.c) Speakers, training sessions and demonstrations announced for Teledyne Marine technology workshop, 15-18 October 2017, San Diego, USA

Teledyne Marine will host its second biennial Teledyne Marine Technology Workshop (TMTW) at the Catamaran Resort in San Diego, CA USA on October 15-18, 2017. TMTW will once again attract hundreds of attendees from around the globe, who will converge to explore, learn, and share their experiences on a broad range of technologies and applications.

This year's TMTW will include over 50 industry speakers spanning four concurrent morning tracks focused on the utilization of marine technology for offshore energy, oceanography / hydrography, civil engineering / water resources, and defense / security. Each afternoon will be comprised of product and software training, panel sessions, operational tips, and new technology, as well ongoing on-water demonstrations. The event will commence with two outstanding keynote speakers, including Margaret Leinen, Director of Scripps Institution of Oceanography; and Oliver Steeds, Chief Executive, Nekton Oxford Deep Ocean Research Institute.

Full event details and online registration can be found at <http://www.teledynemarine.com/events/teledyne-marine-technology-workshop-2017>

3.d) Teledyne CARIS releases S-100 online workshop

Teledyne CARIS™ is pleased to offer a new self-paced, online training program, which examines the International Hydrographic Organization (IHO) S-100 Standard and the related S-101 Electronic Navigational Chart (ENC) Production Specification.

This informative workshop is intended for anyone interested in learning about the new S-100 Standard. It will help answer commonly asked questions including: What is S-100? What are some of the benefits? What is an S-101 ENC and how does it relate to S-100? What is the current status of S-100 and S-101? What are some other products based on S-100?

Participants can proceed through the training materials at their own pace on any computer with internet access. The workshop is freely available for CARIS users with an active Subscription, or for a \$300 fee per user for non-CARIS users or those without Subscription.

Registration and further information about the CARIS S-100 online workshop can be found at <http://caris.com/training/online.cfm>

3.e) UK subsea sector urged to seek opportunities in offshore wind

Subsea UK will be running an event on 20 September, to explore the offshore wind developments that are currently underway, while offering practical help and advice to companies looking to access the rapidly growing offshore renewables market.

Chaired by Neil Gordon, chief executive of Subsea UK, the event will welcome speakers from SIEM Offshore Contractors, Ecosse Subsea Systems, DeepOcean and James Fisher Marine Services, to discuss the synergies between the subsea and offshore renewable industries, share lessons learned, and examine the role that offshore renewables will play in the future energy mix.

The seminar will also look at ways in which the industry could work together to simplify existing initiatives in a bid to increase efficiencies and reduce the cost of installing and maintaining wind farms.

The event will take place on 20 September at The Chester Hotel, Aberdeen. Those wishing to attend can book their place online via the Subsea UK website - <http://www.subseauk.com/8681/offshore-wind-developments>.

4) WHO'S ON THE MOVE?

4.a) Ashtead strengthens Singapore operation with new appointment

Global subsea equipment specialist, Ashtead Technology has boosted its Singapore operation with the appointment of Ankit Munjal as regional sales manager.

Ankit will be instrumental in driving forward the firm's sales and business development activities in the Asia Pacific (APAC) region in support of both existing and new clients.

Prior to joining Ashtead, Ankit was business development manager at James Fisher Subsea Excavation, where he was responsible for securing new business with oil and gas majors and contractors, across APAC.

A Bachelor of Engineering graduate from the Australian Maritime College, Ankit's role as regional sales manager will also see him support Ashtead in the development of innovative, cost-effective engineered measurement solution offerings.

For further information, visit <http://www.ashtead-technology.com/news-events/ashtead-strengthens-singapore-operation-with-new-appointment/>

5) JOB POSTINGS

5.a) Sales Manager, 3D at Depth Inc., Australia/Asia

3D at Depth provides advanced subsea LiDAR systems and solutions designed to help clients build, maintain, map and monitor underwater assets and resources. The Company's

solutions directly address the challenges of 3D measurement and visualization by leveraging the unique features of subsea LiDAR technology for offshore survey applications. 3D at Depth's portfolio of SL1 and SL2 subsea LiDAR laser systems delivers repeatable, millimetric, measured point clouds that allow clients to optimize subsea operations and maximize returns. With office locations in the US, UK and Australia, the company is focused on innovation and best practices to enhance 3D underwater measurements.

Based in Perth, Western Australia, 3D at Depth has an open position for a Sales Manager for the Asia Pacific region. The Sales Manager position reports directly to the Chief Business Development Office (CBDO) and be responsible for prospecting for new clients through networking, marketing or other lead generating opportunities with the goal of securing contract awards. You will work with and attract new clients, develop rapport with all stakeholders, and meet targets for sales as you drive the company's strategies and deliverables.

Initial 12-month contract leading to a permanent role for the right candidate.

Candidate should have a minimum of 5 years of business development experience within the offshore construction, surveying or inspection industry and a minimum of four years prior knowledge of offshore surveying, hydrography or geomatic. Candidate must be able to plan, develop and execute sales strategies with a track record of selling complex solutions to outperform client expectations. Proficiency in MS Office and CRM software (e.g. Salesforce) is a must. A preferred degree in a relevant subject matter (Surveying, Engineering, Geoscience) is a plus.

For further information or to apply, please visit: https://www.3datdepth.com/?page_id=726. For general inquiries on this position only, contact Adam Lowry at adam.lowry@3DatDepth.com or call Adam in the Perth office on 0432 061 845.

5.b) Project Geophysicist, Bibby HydroMap

As a Project Geophysicist within Bibby HydroMap, you will be a member of an integrated team involved in the acquisition and production of high quality side scan sonar, seismic and magnetometer data. Working both onboard Bibby HydroMap's fleet of advanced survey vessels and in their head office in Bromborough, you will be responsible for the installation and operation of survey equipment and software, the collection and quality control of data in line with company standards and procedures, followed by data processing and reporting tasks on site.

You will be a driven, organised individual with a drive to improve procedures and techniques on site to ensure that client expectations are met and exceeded where possible. When required, you will perform the duties of a Party Chief, and will be expected to mentor, supervise, and train others within the team, including contracted personnel on occasion. The successful candidate will be able to identify risks and ensure suitable corrective actions used, as part of a project HIRA, utilising the company QHSE procedures alongside a good working knowledge of safe working practices.

For further information on the role and details on how to apply please contact recruitment@bibbyhydromap.com or visit www.bibbyhydromap.com

5.c) Survey & Logistics Support Engineer, Bibby HydroMap

This is a full-time office-based role within Bibby HydroMap's engineering department in Bromborough. The successful candidate will be responsible for handling and managing equipment requirements from point of contract award to dispatch and return.

This is a fast changing and dynamic environment and the successful candidate will possess excellent organisational and communication skills. You will be liaising closely with the Commercial and Operations departments and working to tight deadlines to ensure project requirements are met within the allocated time and budget.

This role is ideally suited to an experienced surveyor, survey engineer or workshop engineer/supervisor from within the rental arena specialising in subsea/survey equipment now looking for a shore position.

For further information on the role and details on how to apply please contact recruitment@bibbyhydromap.com or visit www.bibbyhydromap.com