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OCEANBUZZ ISSUE 489 – 28th March 2017

Oceanbuzz will be taking a break next week as the team are onsite at Ocean Business 2017. The next issue will be Tuesday 11 April. See you in Southampton!

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1. OCEAN BUSINESS 2017 NEWS

1.a) OCEAN BUSINESS 2017 OPENS ITS DOORS NEXT WEEK - HAVE YOU REGISTERED YET?

Ocean Business 2017 takes place, next week, from 4 - 6 April at the NOC in Southampton, UK. Here's 10 reasons to register today:

1. Join 5000+ visitors from over 65 countries;
2. Explore 350+ international exhibitors;
3. See the very latest product launches;
4. Choose from over 180 hours of training and demonstrations;
5. Attend on board demonstrations of products and vessels;
6. Hear from leading industry experts at the conference;
7. Meet with potential partners during pre-arranged meetings;
8. Choose from a variety of associated meetings;
9. Gain careers advice at the Ocean Careers event, and
10. Network at the pre-show drinks, the wine trail and gala dinner

Don't miss out! There is still time to register online in advance to beat the queues onsite:

www.oceanbusiness.com/register

Keep in touch with the latest Ocean Business 2017 news by following us on Twitter @OceanBusiness #oceanbiz, on Facebook and Instagram OceanBusinessShow, or by joining our LinkedIn group OceanBusiness.

1.b) DELIVERING DATA FROM SEABED TO OFFICE – KONGSBERG LAUNCH NEW TECH AT OCEAN BUSINESS

Subsea autonomy are unveiling of two brand new Seaglider models, in addition to the first UK showing of the Eelume robot, which with its slender and flexible body provides access to confined areas that are difficult to reach with existing solutions. Designed to be permanently installed on the seabed where it can perform planned and on-demand inspections and interventions, Eelume is a completely unique and very exciting prospect.

Kongsberg is also expanding the scope of its de facto industry standard cNODE range for underwater acoustic positioning and data communication. The latest cNODE development with integrated acoustic modem is on show at Ocean Business. Designed to be interfaced with a wide variety of internal or external sensors for intelligent data logging, processing and monitoring it is suitable for a diverse range applications.

Other Kongsberg highlights include additions to the Seapath position, heading and attitude sensors portfolio; while out on the water, Kongsberg will be taking part in live demos on ASV Global's C-Worker 5 ASV, transmitting data and telemetry back to shore using the innovative Maritime Broadband Radio system.

Kongsberg will introduce its first ever Compact Survey Vessel (C.S.V) at Ocean Business. The company will be offering this compact craft as a turnkey solution for surveying shallow coastal and inland waterways quickly, using a powerful and manoeuvrable two-person catamaran equipped with a 30hp motor and the latest GeoSwath 4 shallow water multibeam system.

Kongsberg Maritime is exhibiting at Ocean Business on stands N1 & P2

For more information visit www.kongsberg.com

Follow on Twitter @KOGMaritime / @kongsbergasa

1.c) NPL LAUNCHES FIRST TRACEABLE CALIBRATION SERVICE FOR UNDERWATER ACOUSTIC RECORDERS AT OCEAN BUSINESS

The National Physical Laboratory (NPL), the UK's National Measurement Institute, is launching a new service to provide confidence in underwater acoustic data, at Ocean Business. The Underwater Autonomous Acoustic Recorder Calibration Service is the only one of its kind, combining NPL's state-of-the-art, independent validation and world-leading expertise in marine acoustic monitoring, to provide calibration of underwater acoustic recorders that is traceable back to international standards.

NPL's unique service gives users confidence that their recorders are accurate, increasing the usability of their data, and providing assurance in meeting regulatory requirements. It allows equipment manufacturers and consultancies to offer a more transparent and superior service to their customers, through unrivalled traceability of data – giving them the edge against their competition.

Dr Federica Pace, Marine Technical Director at Baker Consultants, an ecological consultancy service who recently worked with NPL, said: "Data without traceability is useless. Without calibration, it is difficult to compare the results of monitoring, or draw actionable conclusions from them. Working with NPL has enabled us to provide comprehensive and accurate data to our clients that they can confidently act on, and I believe that through the service, NPL will help to encourage best practice in the industry."

NPL are exhibiting at Ocean Business on stand C4.

For more information visit <http://www.npl.co.uk/news/npl-launches-first-traceable-calibration-service-for-underwater-acoustic-recorders>

Follow on Twitter @NPL

1.d) TCARTA MARINE, DHI AND DIGITALGLOBE UNVEIL OFF-THE-SHELF BATHYMETRIC DATA PORTAL AT OCEAN BUSINESS

TCarta Marine are launching Bathymetrics, a new online portal offering instant access to satellite-derived bathymetric data sets at Ocean Business next week.

TCarta Marine and its business partners, DHI and DigitalGlobe will demonstrate the Bathymetrics prototype on their stand and on Thursday 6 April at 13.30 in Node Room 1, the partners will host a workshop where beta users will discuss applications of the portal and 2-metre data sets in marine projects.

The 2-metre Satellite Derived Bathymetry data set will be the first of several global marine datasets. It is an off-the-shelf version of a custom product introduced in 2011 by Proteus Geo, which merged with TCarta Marine this year. Accurate seafloor depths are extracted by DHI using a primary production technique, before TCarta Marine ensure that all data undergoes a rigorous quality control procedure. All depths are derived from 8-band multispectral imagery captured by DigitalGlobe's high-resolution WorldView satellites, the world's most advanced commercial imaging constellation.

TCarta Marine is exhibiting at Ocean Business on stand W4.

For more information visit www.tcartamarine.com/go/oceanbusiness/

Follow on twitter @TCarta_Marine

1.e) BUSY WEEK AHEAD FOR PLANET OCEAN AT OCEAN BUSINESS

Planet Ocean are expecting a busy week ahead at Ocean Business with several new pieces of equipment on show and a new distributor announcement. In keeping with their recent routine at industry shows, Planet Ocean will be showing only new technology which will include:-

New technology: ecoSUB robotics, Advanced, small, affordable AUVs the ecoSUB μ and ecoSUBm; Kongsberg Contros, HydroFIA pH analyser. Used in conjunction with its sister instrument the HydroFIA TA total alkalinity system enables users access to unsurpassed carbon cycle data; Fluid Imaging, FlowCam Macro - Based on proven FlowCam dynamic imaging particle analysis technology, and optimized for larger particles (250 μ m to 5mm), FlowCam Macro provides rapid particle characterisation that goes beyond just particle size. Direct, image-based measurements of particle size and shape enable differentiation of particle types in a heterogeneous mixture; Planet Ocean μ -Wave-II low power, 9 DoF wave sensor; Sea Bird HydroCAT-EP and SeapHOx Ocean CT(D)-pH-DO sensor.

Planet Ocean has also announced the signing of a new distributor agreement with French manufacturer Fluidion. Fluidion, manufacture smart water samplers, and a fully integrated, field deployable micro-biology lab for e.Coli. Both systems will be on display with Planet Ocean at Ocean Business.

Of course, most of their other partners will be exhibiting at Ocean Business, many with new technology on show. Be sure to visit, Ocean Sonics with their multi hydrophone array, RADAC with the new radar wave and tide system, XEOS with new mooring beacons.

Planet Ocean are exhibiting at Ocean Business on stand G12.

For more information visit www.planet-ocean.co.uk/wp

Follow on Twitter @planet_ocean

1.f) TELEDYNE MARINE DELIVER NEW TECHNOLOGY, TRAINING AND DEMOS AT OCEAN BUSINESS

Teledyne Marine's OneTeam are exhibiting and this show promises to be a flurry of activity with 15 exciting new product launches spanning their navigation, positioning, glider, AUV, multibeam, interconnect, acoustic release, ADCP, light and camera technologies.

The Teledyne Marine brands will also be delivering 24 informative classroom training sessions on a wide array of topics, and conducting five dockside and test tank demonstrations highlighting their autonomous surface vehicles and remotely operated vehicles, outfitted with a suite of Teledyne payload. Pre-registration for these sessions is available on their event page.

For those looking to get out on the water, Teledyne will also be conducting demonstrations of their multibeam, hydrographic software, and underway SV technologies onboard the Falcon Spirit throughout the event. Attendees can click here to pre-register for a cruise, or sign up on-site on stand T5.

If attendees would like to pre-schedule a meeting with a member of Teledyne Marine's OneTeam at Ocean Business, please click here to request a meeting on your topic(s) of interest. Full event detail and pre-registrations at: <http://www.teledynemarine.com/events/ocean-business-2017>

Teledyne Marine's OneTeam are exhibiting at Ocean Business on stands T5 and U12.

For more information visit www.teledynemarine.com

Follow on Twitter @TeledyneMarine

1.g) RTSYS SHOWCASE NEW SONADIVE HANDHELD SONAR AT OCEAN BUSINESS

RTsys will showcase their new Sonadive sonar designed for divers in two classroom sessions on Tuesday 4 April at 09.30 'innovations in passive acoustics' and on Thursday 6 April at 15.00 'In-situ measurement'.

The sonar is used to detect and identify underwater mines by clearance divers in poor visibility conditions. Sonadive integrates an onboard navigation system relying on internal sensors to

provide data. It helps to support locating and marking subsea mines. Equipped with a large 12-inch LCD screen it uses a multibeam sonar to aid the diver in detecting and identifying mines. A visual sonar allows the divers to work in poor visibility conditions when turbidity is high. Wet pluggable batteries provide up to six hours of operational use. Batteries can be removed underwater without having to turn off the sonar. Its neutral buoyancy makes it an easy tool to navigate with. The 12 inches of Sonadive sonar screen allow the divers to accomplish their mission properly.

RTsys are exhibiting at Ocean Business on stand V28.

For more information visit www.rtsys.eu

Follow on Twitter @r_tsys

1.h) APPLIED ACOUSTICS LAUNCH NEW USBL AT OCEAN BUSINESS

Applied Acoustics are introducing its latest USBL positioning system the Nexus Lite in Southampton alongside its big sister, Nexus 2, which was launched in London only last year.

As with all systems designed by Applied Acoustics, the highly advanced positioning and tracking system is quick to deploy with easy set up procedures and can be used with a variety of Applied Acoustics' positioning beacons, legacy products and transponders from third party manufacturers. It has bi-directional Sigma spread spectrum acoustics, eight target tracking and a small surface console mounted within just a 1U enclosure for connection to a laptop or tablet PC.

Applied Acoustics are exhibiting at Ocean business on stand Q1.

For more information visit www.appliedacoustics.com

1.i) OSIL LAUNCH NEXT GENERATION SMALL FIELD BUOY AT OCEAN BUSINESS

Ocean Scientific International (OSIL) are introducing the latest version of the Small Field Buoy at Ocean Business next week.

The platform, which is now a more manageable 55cm in diameter, also offers a more robust top section that sits higher in the water than previous platforms, meaning it is better suited to frequent redeployments in high-traffic coastal and port areas. The buoy is suitable for all applications, including scientific studies, water quality monitoring, coastal engineering projects, harbour and coastal monitoring, and maritime traffic control

The Small Field Buoy has been designed to be easy to handle, deploy and recover with an integrated grab ring, a total weight of 35kg without instrumentation and a total length of 1.8m. The central structure safely houses sensors with excellent water flow, while providing protection from collision damage.

The buoy can accommodate 4 off 14W solar panels with battery back-up, datalogger and telemetry system(s), including UHF/VHF, GSM, GPRS and Satellite, with 60kg net buoyancy. OSIL provide a complete data telemetry solution, including either desk top or web-based software packages to access the data.

OSIL are exhibiting at Ocean Business on stand C1.

For more information visit www.osil.co.uk

Follow on Twitter @Oceanscientific

1.j) TELEDYNE WEBB RESEARCH LAUNCHES THE SLOCUM G3 GLIDER AT OCEAN BUSINESS

Teledyne will present the latest vehicle in its vast and growing fleet, the Slocum G3. For more than 15 years, Teledyne Slocum gliders have led the oceanographic industry with their innovative

design, cutting edge technologies and outstanding scientific results. Gliders have been used from the Arctic to the Antarctic and from the surface of the sea to 1000m below. The Slocum glider is now released with new features and capabilities and can be seen on their stand.

Attend their presentation on the glider on Thursday 6 April at 10.30 in the John Swallow Rm 054/06 or stop by their stand to speak with one of their specialists.

The Slocum glider is buoyancy driven to enable long range and duration remote water column observation for academic, military, and commercial applications. The Slocum Glider can be deployed and recovered from any size vessel with minimal time on station. Once the Slocum glider is deployed, it can easily be controlled from anywhere in the world through the use of web based piloting tools. This allows fleets of gliders to be operated remotely with minimal personnel and infrastructure.

Teledyne Webb Research are exhibiting at Ocean Business on stand U12.

For more information visit http://www2.teledynemarinesystems.com/slocum_g3_glider

Follow on Facebook <https://www.facebook.com/TeledyneWebbResearch/>

1.k) RIEGL TO SHOWCASE HIGH PERFORMANCE AIRBORNE AND UAV-BASED WAVEFORM-LIDAR SOLUTIONS

Austrian laser scanner and scanning system manufacturer Riegl will present their high performance airborne and UAV-based Waveform-LiDAR solutions in hydrography at this year's Ocean Business. Join them for their classroom workshop "An update on Riegl's shipborne, airborne, and UAV-borne topo-bathymetric solutions" on Wednesday 5 April at 10.30 in Node Room 2 074/02.

The VQ-880-G, a fully integrated airborne laser scanning system, is the high-end solution for combined hydrographic and topographic surveying of coastlines, shallow waters, and river beds. The system is offered with integrated and factory-calibrated high-end IMU/GNSS system and cameras. An optionally integrated infrared laser scanner complements the data from the green laser scanner and supports the detection of the water surface. The design allows flexible adaptation and straightforward installation on various platforms.

The BathyCopter is a sUAV-based LiDAR surveying system for generating profiles of inland waterbodies, equipped with Riegl's BDF-1, a compact and lightweight bathymetric depth finder including tilt compensation, IMU/GNSS unit, control unit, and up to two digital cameras. For safe water landing and take-off from water bodies an according floating support is provided.

Riegl are exhibiting at Ocean Business on stand W17.

For more information visit www.riegl.com

Follow on Twitter @RIEGL

1.l) ATLANTAS MARINE INTRODUCE THE NEW 'BREEZE HD' UNDERWATER CAMERA AT OCEAN BUSINESS

Atlantas Marine will introduce its latest innovation, the new BREEZE HD High Definition underwater camera at Ocean Business.

BREEZE HD streams HD video from the ROV to the topside control panel over a single copper twisted pair, which removes the need for an expensive fibre tether upgrade. The camera is compatible with almost all ROV systems and is compact and light enough to be mounted on even the smallest of vehicles.

Atlantas Marine Managing Director, Charlie Foll, said: "This is an exciting development for Atlantis and indeed the underwater inspection market. A cost effective, HD camera, with

operation over a twisted pair has been in demand for some time and this is what we have managed to achieve with BREEZE HD”

Atlantas Marine are exhibiting at Ocean Business on stand S7.
For more information visit www.atlantasmarine.com
Follow on Twitter: @Atlantas_Marine

Facebook: www.facebook.com/AtlantasMarine
LinkedIn: www.linkedin.com/company/atlantas-marine-limited

1.m) YOUR OCEAN DATA WHERE YOU WANT, WHEN YOU WANT IT - ASK SONARDYNE HOW

Learn how you can now access your subsea data when you want, where you want, by equipping your marine robotic platforms, vehicles and vessels with their acoustic positioning, optical communications, inertial navigation and sonar imaging technologies.

Sonardyne’s trials vessel ‘Echo Explorer’ will once again be at the show, giving you the opportunity to see some of the products on display inside, in action out on the water. These will include a Mini-Ranger 2 tracking system, Nano transponder, Syrinx DVL and SPRINT INS. The company will also be hosting three classroom sessions, one of which will be presenting recent advances in underwater mobile mapping.

And don’t forget to drop by their stand on Tuesday afternoon as part of the Wine Trail!

Sonardyne are exhibiting at Ocean Business on stand E1.
For more information visit www.sonardyne.com
Follow on Twitter @sonardyne

1.n) AXYS TECHNOLOGIES PRESENT AT OCEAN BUSINESS

AXYS Technologies are presenting their range of solutions including the WindSentinel FLiDAR, the unique TRIAXYS with currents buoy and AXYS new cloud-based geoportal, AXYS-APS. In addition, a selection of AXYS’ strategic partners will be available to discuss their complementary range of services.

On Tuesday 4 April at 09.00 in Node Rm 2 074/02, Graham Howe, Director of Sales - Europe, will give a presentation that shows how AXYS-APS has been used to improve the accuracy of weather forecasting for offshore operations, using a case study from an offshore wind construction project.

AXYS are exhibiting at Ocean Business on stand A13.
For more information visit www.axystechnologies.com
Follow on Twitter @AXYStechinc

1.o) XSENS: THE STANDARD FOR MARITIME AND OCEAN APPLICATIONS

Xsens are showcasing the full MTi portfolio including the latest MTi-G-710 and MTi 1-series at Ocean Business next week. Join them for their training and demonstration session: ‘Attitude & Heading reference systems – techniques to compensate for magnetic field distortions’ on Tuesday 4 April at 14.00 in Node Rm 2 074/02.

The MTi 1-series has many features that are derived from the industrial grade MTi 10-series and MTi 100-series. The 17 years’ experience of Xsens is extremely valuable to get the most out of low-cost, low-power MEMS sensors resulting in reliable orientation and motion data at an affordable cost. The MTi-G-710 is an improved version of Xsens’ flagship, the MTi-G-700. The

MTi-G-710 is the standard in high performance IMU-enhanced GNSS/INS, ideal for applications with challenging GNSS-visibility. It supports multiple constellations such as GPS and GLONASS concurrently and supports height above MSL, next to height above ellipsoid.

Xsens are exhibiting at Ocean Business on stand A4.

For more information visit www.xsens.com

Follow on Twitter @Xsens

1.p) GEOSOFT PRESENTS SEEING BEYOND THE SEABED – OFFSHORE GEOPHYSICAL SITE INVESTIGATIONS

Geosoft are holding a demonstration session on the Thursday 6 April in the Access Grid Room 124/14 at 10.30 to highlight the applications of their Oasis montaj software to various marine industries; powerful tools for UXO, cable & pipeline detection; latest updates in Oasis montaj and UXO Marine; what's next in their software development.

Sara Lise Underhay, Technical Analyst, will showcase their state of the art software and its application to offshore site investigations. The demonstration will highlight the versatility of Oasis montaj in geophysical analysis by showcasing several client success stories in offshore oil & gas, oceanic studies and UXO (unexploded ordnance). The demonstration will also illustrate the workflow and powerful range of tools dedicated to locating cables and pipelines, unexploded ordnance (UXO) and other marine hazards.

This session will be of interest to anybody working in marine survey mapping and geophysics. To register visit http://ww2.geosoft.com/SPE-2017-04-06-Ocean-Business-Seminar_Registration-Page.html

Geosoft are exhibiting at Ocean Business on stand G8.

For more information visit www.geosoft.com

Follow on Twitter @Geosoft

2. GENERAL OCEAN NEWS

2.a) NEXT GEOSOLUTIONS AWARDED MULTIMILLION EURO CONTRACTS TO SURVEY THE WORLD'S LONGEST INTERCONNECTOR

Next Geosolutions, an independent geoscience and engineering service provider, has been awarded two major survey contracts, which together represent a multimillion euro figure, for the North Sea Link (NSL) project, the first electricity link between UK and Norway.

The first contract, due to commence in April, will see Next Geosolutions provide cable protection survey work for Statnett, the Norwegian transmission system operator.

The two week workscope will involve cable inspections for the Skagerrak electricity transmission system and NorNed power cable interconnectors. The interconnectors will link the electricity transmission systems of different countries, with subsea cables utilised for the NSL, passing through Norwegian and British waters.

The second contract is due to commence in May for a period of three months. It will involve Next Geosolutions carrying out offshore cable route survey, unexploded ordnance (UXO) survey and route preparation techniques.

Each survey will be performed with the same mobilisation and demobilisation delivered by Next Geosolutions' brand new dynamic positioning (DP) Class 2 multi-purpose supply (MPSV) vessel -

the level Cobalt. The vessel is currently fitted with a Schilling-Ultra Heavy Duty (UHD) Work-Class Remotely Operated Vehicle (ROV) and McCartney Focus 3 Remotely Operated Towed Vehicle (ROTV).

For more information visit www.nextgeosolutions.com/en

Follow on Twitter @nextgeoltd

Next Geosolutions Europe are exhibiting at Ocean Business on stand A22.

2.b) KRAKEN RECEIVES FINANCIAL CONTRIBUTION FROM THE GOVERNMENT OF CANADA

Kraken Sonar has announced that its wholly-owned subsidiary, Kraken Sonar Systems, will receive a non-refundable financial contribution of up to \$1,470,000 from the National Research Council of Canada Industrial Research Assistance Program (NRC-IRAP).

In addition to technical and business advisory services provided by NRC-IRAP, the funding is being used to support the development of Kraken's underwater robotics programme, which involves development of a technology demonstration platform. The first phase of the program will utilise the Fraunhofer Institute's DEDAVE Autonomous Underwater Vehicle (AUV) as the base platform. The AUV will be enhanced with hydrodynamic, control system and payload upgrades.

For more information visit www.krakensonar.com

Follow on Twitter @KrakenSonar

Kraken Sonar are exhibiting at Ocean Business on stand D1.

2.c) SAAB SEAEYE SELECTS SONARDYNE AVTRAK 6 FOR SABERTOOTH HYBRID VEHICLE

Subsea technology company, Sonardyne International, has delivered its latest consignment of AvTrak 6 acoustic communications and navigation hardware to defence and security company Saab's subsidiary Saab Seaeye.

Offered as an optional-fit sensor on the Sabertooth hybrid AUV/ROV, AvTrak 6 forms part of the vehicle's integrated navigation and communications system. It allows mission updates, status checking and navigation aiding to be wirelessly sent to and from the vehicle, eliminating the need for the vehicle to re-surface or dock with an underwater garage.

AvTrak 6 combines the functions of an acoustic tracking transponder, transceiver and wireless modem link in a package that consumes only a small amount of payload space and power. It is available in a variety of configurations including depth ratings to 7,000 metres, electronics-only (OEM) for customer integration and a customisable command language that offers features such as mission abort and ballast jettison.

For more information visit www.sonardyne.com

Follow on Twitter @sonardyne

Sonardyne are exhibiting at Ocean Business on stand E1.

2.d) VERIPOS PROVIDE HIGH PRECISION POSITIONING SERVICES TO SHEARWATER GEOSERVICES NORWAY

Veripos, suppliers of high precision Global Navigation Satellite Systems (GNSS) positioning services to the offshore oil and gas and marine industries, has been awarded a contract to provide precise positioning services to seismic survey contractor Shearwater Geoservices Norway of Bergen, Norway.

Under the terms of the new agreement, Veripos will supply GNSS positioning services to Shearwater's fleet of four marine seismic survey vessels on a global basis as well as to additional vessels entering into their operational control. Operations commence Q2, 2017.

For more information visit www.veripos.com
Veripos are exhibiting at Ocean Business on stand C6.

2.e) ASHTEAD BOOSTS RENTAL FLEET WITH STATE-OF-THE-ART INSPECTION TECHNOLOGY

Ashtead Technology has expanded its equipment rental pool following a significant investment in the latest Pulsed Eddy Current (PEC) technology to deliver faster, more accurate asset integrity inspections.

A leader in marine technology, non-destructive testing and subsea services, Ashtead will now supply the Eddyfi Lyft™, an inspection tool for identifying corrosion under insulation (CUI), a major asset integrity issue for the oil and gas, and petrochemical sectors. CUI is a type of corrosion that occurs as a result of a moisture build-up on the external surface of insulated equipment. The corrosion is most commonly galvanic, chloride, acidic, or alkaline, and if undetected, the consequences can lead to the shutdown of a process unit or an entire facility.

Lyft™ can be used to accurately measure corrosion and wall thickness on insulated pipes without the need to remove insulation, significantly reducing time and costs. It's suitable for use on a number of materials including metal, aluminium, stainless steel and galvanised steel weather jackets, to provide real-time C-scan imaging, wall thickness measurements and fast data acquisition (up to 15 readings per second).

For more information visit www.ashtead-technology.com
Follow on Twitter @ashteadtech
Ashtead technology are exhibiting at Ocean Business on stand T1.

2.f) RIPTIDE AUTONOMOUS SOLUTIONS ANNOUNCES EXPANSION OF UUV PRODUCT LINE

Riptide Autonomous Solutions has announced two new platform offerings to complement their market leading micro-UUV launched in 2016.

The new 1-Man and 2-Man Portable UUVs use the same technical architecture, proven hydrodynamic hull shape, and high efficiency electronics as the original Micro-UUV. Drawing upon advanced manufacturing, modern electronics and open source concepts the larger Riptide vehicles will deliver the same flexible solution already favoured by Micro-UUV users.

The 1-Man Portable UUV offers a 7.5 inch (19 cm) diameter and base weight just over 60 pounds (27 kg) with a depth rating of 300 metres. The 2-Man Portable UUV has a 9.375 inch (24 cm) diameter and a base weight of roughly 120 pounds (55 kg) with a depth rating of 600 metres.

Riptide are exhibiting at both Ocean Business on stand W43 and Sea Air Space on stand 1253 during 3 -7 April. The full family of low logistics UUVs will be on display at Sea Air Space while the proven Micro-UUV will be on display at Ocean Business.

For more information visit www.riptideas.com
Riptide are exhibiting at Ocean Business on stand W43.

2.g) HYDROGRAPHIC SURVEYS FOR MCA IN THE SHETLAND ISLANDS

MMT has, since 2006, been one of the Maritime & Coastguard Agency's Civil Hydrography Programme survey providers of high resolution multi-beam bathymetry, providing hydrographic data for updating nautical charts for safe navigation and efficient maritime transport. Currently MMT UK, based in Banbury Oxfordshire, is undertaking two hydrographic surveys in the Shetland Islands on behalf of the Maritime & Coastguard Agency.

One survey runs from Yell to Unst and is a 45 day survey running along the coastlines. The other survey is a 90 day survey from Yell to Lerwick and is covering a large area north of Lerwick.

MMT has two vessels onsite. M/V IceBeam and M/V SeaBeam are conducting high resolution multibeam echo sounder surveys of the seabed topography within the survey area.

Martin Godfrey, MMT's Project Manager, comments: "We are very pleased to say that we have been providing MCA with high quality survey data for over 10 years now and maintain a cohesive working relationship with the MCA."

For more information visit www.mmt.se

Follow on Twitter @mmtnews

MMT are exhibiting at Ocean Business on stand K1.

2.h) 2G ROBOTICS AND SONARDYNE REVOLUTIONISE SUBSEA METROLOGY OPERATIONS

In December 2016 at The Underwater Centre in Fort William, Scotland, UK, DOF Subsea (DOF) conducted a demonstration of dynamic underwater laser scanning as a replacement for traditional metrology techniques using 2G Robotics' and Sonardyne's complete dynamic survey solution.

The demo showcased the complete dynamic survey solution, which integrates 2G Robotics' underwater laser scanner, the ULS-500 PRO, with Sonardyne's inertial navigation sensor, SPRINT; Syrinx DVL and 6G acoustics. Seatronics, channel partner for 2G Robotics and provider of Sonardyne rental equipment, provided sensors and project/technician support.

Two structures each containing four flanges were placed on the seafloor with an approximate baseline distance of 18m. The control measurement for the analysis was established by an LBL acoustic technique with flange orientations provided by installed gyro frames.

A Triton XL ROV was fitted with complete dynamic survey solution from 2G Robotics and Sonardyne. The ULS- 500 PRO was mounted at 30° to capture the side facing hubs, upward facing hubs, and seabed in a single scan pass over the 18m baseline. With each scan run taking only 4 minutes, the ROV performed multiple redundant runs from structure-to-structure at an altitude of approximately 3m.

The data was transmitted to the surface in real-time, processed through EIVA navigational software, and then through DOF's Metro Prep software for automated metrology analysis. From these high-resolution point clouds, exact measurements were taken to facilitate the fabrication of spools and jumpers while concurrently providing as-built condition assessments. The measurements of the vertical jumper metrology and the horizontal spool metrology were within accepted industry tolerances.

For more information visit www.2grobotics.com

Follow on Twitter @2grobotics

2g Robotics are exhibiting at Ocean Business on stand F13.

2.i) DO YOU COLLECT OR USE MARINE DATA IN YOUR BUSINESS?

The European Commission's Directorate General for Maritime Affairs and Fisheries (DG MARE) is setting up an informal Expert Group to advise on scientific, technical and operational matters in marine observation.

A key objective of the Expert Group will be to assist DG MARE with monitoring the development of the European Marine Observation and Data Network (EMODnet) www.emodnet.eu. EMODnet assembles and makes available data and products spanning a range of marine disciplines (including bathymetry, physics, geology, chemistry, biology, seabed habitats and human activities) to facilitate its uptake by public and private users EMODnet is currently in its third development phase with the target to be fully deployed by 2020.

To further develop EMODnet to meet the needs of users from the private sector, DG MARE would particularly welcome applicants from the ocean business community, who use or collect marine data as part of their operations, in order to better understand: how maritime business and investment can be served better by the provision of data through the EMODnet Network; the gaps in current marine observation systems that limit offshore and coastal investment; how private companies could contribute towards monitoring the seas and oceans and how the data they collect for their own purposes could be made more widely available.

Further information on EMODnet and how to apply to the expert group can be found at https://ec.europa.eu/maritimeaffairs/content/selection-members-informal-expert-group-marine-knowledge_en. Travel and subsistence to attend meetings will be covered. Deadline for applications is Thursday 4 May 2017. Maybe you are already using EMODnet resources in your business, if so we would very much like to hear from you! Contact us at secretariat@emodnet.eu

2.j) SUBSEA DIVER OPERATED - ELECTRICAL SWITCH BY PREVCO

Prevco subsea have developed a new diver/surface operated subsea electrical switch. The development has been spearheaded over the last few months by engineer Don Christensen at the Prevco head office in Arizona, USA. The switch has several positions allowing for the control of up to 10 different functions with a 4 position switch being our standard.

There are many customisable options for the switch including material, number of switch positions and hand held or attachment options. We are currently making these devices from Stainless Steel, Aluminium 7075 and Titanium Grade 5 with operating capabilities up to 6000m. These material options address a broad range of applications related to corrosion resistance, material compatibility, depth rating, weight, and of course cost. The attached photos show the switch in a hand-held version and with an FCR mounting style.

For more information www.prevco.com
Prevco Subsea are exhibiting at Ocean Business on stand J7.

2.k) SEEBYTE'S BUSINESS MANAGEMENT SYSTEM DESIGN IS NOW ISO 9001:2015 CERTIFIED

SeeByte has achieved International Organization for Standardization (ISO) 9001:2015 certification for the design of its Business Management System. This follows a successful assessment by Lloyd's Register Quality Assurance (LRQA). Lloyd's Register Quality Assurance (LRQA) is the world's leading provider of independent assessment services including certification, validation, verification and training across a broad spectrum of standards and schemes, with recognition from over 50 accreditation bodies.

ISO 9001 is a certified quality management system (QMS) for organisations who want to prove their ability to consistently provide products and services that meet the needs of their customers and other relevant stakeholders.

For more information visit www.seebyte.com
Follow on Twitter @seebyte
SeeByte are exhibiting at Ocean Business in stand V1.

3. EVENTS, TRAINING & DEMONSTRATIONS

3.a) OCEANWISE HOST MARINE DATA MANAGEMENT & GIS WORKSHOP, TUESDAY 23 MAY 2017, EDINBURGH, UK

OceanWise will host its Marine Data Management & GIS Workshop on Tuesday 23 May at the Royal Society of Edinburgh, 22-26 George St, Edinburgh, UK, EH2 2PQ. The theme of this free-to-attend event - 'Is poor data management putting your operations at risk?' - will resonate with managers and practitioners dealing with geospatial and business data and information.

As 90% of all data has been created in the last two years with average business data volumes doubling every 14 months, there has never been a more important time to reconsider how you manage your data and information. It will show innovative ways of making life easier for you, your decision makers and stakeholders.

The workshop is aimed at public sector, commercial and non-governmental organisations involved in managing assets or decision support and will feature demonstrations of how GIS technologies and OceanWise products and services are successfully delivering savings in time, effort and money. It will also provide an excellent opportunity to network, share experiences with data experts and practitioners, and show how GIS and spatial data management can deliver real value and benefit!

To register and view the draft programme go to our website at <http://www.oceanwise.eu/news/events/event-register/> or email info@oceanwise.eu

For more information visit www.oceanwise.eu
Follow on Twitter @oceanwise_eu
OceanWise are exhibiting at Ocean Business on stand R5.

3.b) LEARN HOW TO SET UP AND RUN USV - TRAINING BY SEAFLOOR SYSTEMS

In response to the growing demand of Unmanned Surface Vehicles (USV), Seafloor Systems are offering one-day training classes on the fourth Monday of each month. Grow your sales by gaining knowledge and first hand experience through their classroom and on-water training.

USV classroom training: applications/areas of use; components: how they work together; start-up procedure; basic troubleshooting; charging batteries properly; AutoNav™ auto pilot module: how to use and its benefits; USV on-water demonstration & training: set-up, prepare for survey; run a survey.

For more information visit www.seafloorsystems.com
Follow on Twitter @seafloorsystems
Seafloor Systems are exhibiting at Ocean Business on stand R7.

4. WHO'S ON THE MOVE?

4.a) ATLAS EXPANDS ITS ROV, DIVING AND INSPECTION TEAM

Atlas' ROV, diving and inspection team in Banbury (formerly SubservPro) has a long and distinguished track record in the provision of personnel for offshore projects. With this in mind, they have appointed Spencer Trouten as the new Business Manager for this business line.

With his extensive background in the industry spanning over 12 years, focusing on the subsea inspection sector, working for companies such as DOF Subsea, Oceaneering and Subsea7, Spencer will bring his experience, understanding and drive to Atlas.

Andrew Blears, Director responsible for Atlas Professionals Survey, ROV and Exploration Divisions explains: "We have got to know Spencer since working for us offshore over the last couple of years, always performing well and getting on with people at all levels that convinced us he was the right man for the job!. We are seeing signs of recovery in certain sectors but let us be under no illusion, the world is changing and you must adapt and evolve to survive and prosper. Spencer's depth of understanding, and vision for the future markets will add real value to professionals and clients alike, and we wish him the best of luck in his new role!"

For more information visit www.atlasprofessionals.com

Follow on Twitter @Atlas4Jobs

Atlas professionals are exhibiting at Ocean Business on stand W22.

5. JOB POSTINGS

5.a) FUGRO LOOKING FOR TENDER CO-ORDINATOR TO JOIN OFFSHORE SYSTEMS TEAM IN WALLINGFORD OFFICE, UK

Fugro are an 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, we employ approximately 11,000 employees in around 60 countries.

They are looking for a Tender Co-ordinator to join their Offshore Systems team in their Wallingford office, which delivers a number of key services supporting projects in both the marine and land environment.

The duties and responsibilities include: undertaking sales and tendering activities as part of the department's existing sales team; preparation of quotations, co-ordination of tenders and proposals and management of costings using existing sales documents and spreadsheets; production of periodic reports including live quotes, future prospects, developing opportunities, sales visit potentials and competitors; actively participate in a monthly sales team meeting together with the line manager reviewing the status of all issued quotes, key prospects emerging, market information; liaise within the department regarding management of client and FGBML terms and conditions on a tender by tender basis; participating in technical and contractual negotiations with clients; liaise with commercial departments of clients including liaison with other Fugro companies.

Your attributes will include: degree in a technical or scientific discipline or a qualified engineer; experience in sales, tendering and/or proactive client liaison; experience of overseas travel; strong multi-tasking skills; strong attention to detail; flexible and adaptable approach to work.

Previous experience of working in the oil & gas industry is desirable but not essential along with experience of working in the offshore environment and hands on experience with equipment and technical products. For more information please visit our web site:

<https://www.fugro.com/careers/search-for-vacancies/apply/view?vacancyId=2465>

For more information visit www.fugro.com

Follow on Twitter @fugro

Fugro are exhibiting at Ocean Business on stand H1.

5.b) ENGINEERING TECHNICIAN – MECHANICAL/ELECTRICAL REQUIRED AT NATIONAL OCEANOGRAPHY CENTRE, SOUTHAMPTON, UK

You will support the NERC Marine Facilities Programme (MFP) through provision of safe, efficient and effective functioning of NMF marine science equipment and support infrastructure, both ashore and at sea. This support will include complex marine instruments, equipment and systems. Shore duties will include the repair, maintenance and calibration of marine scientific equipment, systems and facilities as well as participation in cruise planning to identify solutions to scientific and engineering needs. Whilst at sea, you will be a member of the onboard technical support team with responsibility for the operation and maintenance of NMF equipment as required.

This is a Band 7 position and the starting salary will be £22,224 per annum and depending upon skills and experience, a salary uplift and/or additional allowances may be available for exceptional candidates. This may include an allowance of approximately £8,000 at current rates for time spent at sea (approximately 90 days). The hours of working are full time, 37 hours per week, Monday to Friday.

Applications are sought from enthusiastic and self-sufficient engineers to join our team in supporting cutting edge science to maintain, operate and develop modern research technology. You will have a recognised Apprenticeship or equivalent qualification in an engineering discipline or a substantial knowledge and experience of oceanographic instrumentation and practical experience through employment and training. Candidates with a proven track record in scientific engineering will also be considered.

Experience at sea is desirable but not crucial and you must be prepared to travel worldwide.

Please visit <http://noc.ac.uk/about-us/working-for-noc/vacancies> for further information and how to apply. Closing date: 9 April 2017.

For more information visit www.noc.ac.uk

Follow on Twitter @NOCnews

NOC team are exhibiting at Ocean Business on stand W11.

5.c) NEW OPPORTUNITIES AT SEICHE ENVIRONMENTAL, NORWICH OR DEVON, UK

In order to support Seiche Environmental's growth strategy and the delivery of expanding portfolio of services, opportunities are available for the positions of Project Manager and Project Assistant.

Seiche Environmental Project Manager

The Project Manager will be accountable for managing current and new offshore marine environmental projects for Seiche Environmental, from inception, through operations to the delivery of a high-quality end product. This will involve ensuring that the technical, financial, contractual, quality, HSE and other obligations are met in accordance with both company and client standards. In addition, you will have responsibility for the marketing and growth of the company through the development a comprehensive client-base at conferences, meetings and the promotion of Seiche's environmental services.

The successful candidate will need to demonstrate the ability to liaise and build relationships with internal and external stakeholders and clients. This will include client visits and presentations, as well as the assessment, preparation and submissions of tenders and the subsequent follow up actions. They are looking for somebody that has a proven ability to build strong face to face

relationships, can negotiate effectively, manage conflict for positive outcomes and be a proactive and confident ambassador for supporting the company's growth agenda.

Seiche Environmental Project Assistant

The Project Assistant will be expected to support the Seiche Environmental Project Manager in the supply of quotes, tenders, Risk Assessments and Procedures and the coordination of projects for the Company.

The Project Assistant will also be expected to be proficient in MS office, in particular excel, word and outlook. The nature of this role will mean that you will be expected to respond to requests outside of standard business hours.

For both roles we are looking for confident individuals with a can do attitude and enjoy being challenged. enthusiastic individuals with a real passion for the marine environment, especially marine mammals, seabirds, fisheries, EIA production and underwater acoustics. Ideally you will have a degree in a marine sciences related subject as well as experience in the field of marine mammals or underwater acoustics. Previous offshore experience in an environmental role would be hugely advantageous.

These are office based positions in Seiche's Norwich or Devon offices. Travel between the various company sites is to be expected and there may be the requirement to undertake occasional travel around the world.

As well as a competitive salary, that reflects experience and qualifications these roles will also offer annual holidays of 25 working days, plus UK Bank Holidays and a company pension contribution of 5% of gross salary.

If you believe you have the experience and skills for either of these roles, please e-mail your CV and covering letter to k.holder@seiche.com. Closing date for both posts is noon on Friday 21 April.

For more information visit www.seiche.com