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1) GENERAL OCEAN NEWS

1.a) Ocean Networks Canada's WERA Radar detected tsunami event sixty kilometres offshore more than twenty minutes before it arrived on shore.

Installation of Ocean Networks Canada's (ONC) WERA® high frequency oceanographic radar near Tofino on the west coast of Vancouver Island (Fig. 1) was completed on March 27, 2015 by ASL Environmental Sciences Inc. of Victoria, British Columbia; Northern Radar Inc. of St. John's, Newfoundland; and Helzel Messtechnik GmbH of Germany. The primary goals of the radar, which provides oceanographic data and tsunami monitoring in near real-time under all-weather conditions, are to detect tsunamis generated off the west coast of Vancouver Island and, in the future, provide valuable warning time to decision makers and for those in harm's way.

On October 14, 2016 at 05:45 UTC the ocean radar system sent out a tsunami alert after it detected and identified the distinctive signatures of a changing surface velocity potentially associated with a tsunami. There was, however, no seismic activity at that time to trigger an earthquake-generated tsunami. Although there was no tectonic activity, the system did record an event with an unusual wave propagation current that coincided with the passage of an atmospheric cold front. Weather conditions around October 14th were characterized by strong winds and a stormy sea state caused by the remnants of Typhoon Songda 2016, a tropical disturbance formed west-south-west of Hawaii that crossed the Pacific Ocean and struck the Pacific Northwest region of the United States and Canada as a powerful extratropical cyclone. The abrupt changes in atmospheric pressure generated a meteorological tsunami also known as a meteotsunami.

This meteotsunami was relatively small, with a maximum wave amplitude of 20 cm measured at the Tofino tide gauge. Dr. Alexander Rabinovich from the Institute of Ocean Sciences in Sidney, British Columbia later confirmed that the meteotsunami was accompanied by strong storm surge, infra-gravity waves and a seiche, all of which were hazardous events. The signature of the event in the surface currents was detected by the

WERA® system approximately 60 km offshore, more than 20 minutes before the first wave reached the coast.

To continue reading, visit <http://www.aslenv.com/news.html>

1.b) CGG starts new CWAz survey in Gulf of Mexico

CGG announces the start of acquisition of its first Complementary Wide-Azimuth (CWAz) survey, known as AC CWAz, a BroadSeis™ 3D multi-client program in southern Alaminos Canyon, Gulf of Mexico.

Extending over 130 OCS Blocks and covering Great White and the recent Whale discovery, AC CWAz is supported by industry funding and complements CGG's existing surveys in the area by adding azimuth and offset coverage to the historic wide-azimuth data. All the data will be combined and reprocessed using the latest 3D deghosting, Full-Waveform Inversion (FWI), especially Reflection-based FWI (RFWI), and Tilted Transverse Isotropy (TTI) imaging technology. Fast-Trax PSDM products will be available shortly after the completion of acquisition.

Jean-Georges Malcor, CEO, CGG, said: "Our AC CWAz multi-client survey builds on the success of the Encontrado survey by extending our high-quality images across the US portion of the Perdido Fold belt. This new program will provide the best images available of the complex geology and reservoirs of this highly prospective area. It also reflects CGG's commitment to innovate and invest in solutions that enable our clients to optimize their development plans and evaluate the exploration potential in this proven region."

For further information, visit <http://www.cgg.com/en/Investors/Press-Releases/2017/08/CGG-Starts-New-CWAz-Survey-in-Gulf-of-Mexico>

1.c) Chelsea Technologies Group wins contract to supply over 90 TriLux Fluorometers to Sweden

Water quality sensor manufacturer, Chelsea Technologies Group (CTG) has just been awarded a contract to supply over 90 CTG TriLux fluorometers for use on a Swedish pioneering programme to develop standardised infrastructures for understanding mesocosm experiments in lakes.

These TriLux fluorometers are all configured to measure Chlorophyll *a*, Phycocyanin Algae Pigment and Turbidity, to inform on how planned experiments will affect the Algae within lakes. The fluorometers will provide data in SDI-12 format for onward transmission. A set of approximately 20 TriLuxes are destined for five different research stations.

The CTG TriLux is a low cost, miniaturised multi-parameter digital fluorometer capable of real-time monitoring of three different parameters in a single probe (combinations of Chlorophyll *a*, Phycoerythrin, Phycocyanin and Turbidity). They have to date been used in a wide range of applications including monitoring freshwater, marine and coastal waters plus process control applications.

For further information, visit <https://www.chelsea.co.uk/news/environmental-news/610-ocean-business-new-contract-announced-at-ocean-business-ctg-wins-contract-to-supply-over-90-trilux-fluorometers-to-sweden>

1.d) Oceanscan invests in R2Sonic Multibeam and I2NS from Applanix

Swathe Services announce that Oceanscan have recently made a significant investment for an R2Sonic 2022 digital wideband multibeam system with integrated I2NS (POS MV Wavemaster) INS.

The Sonic 2022 is portable, the compact form factor making it ideal for integration into AUV, ROV, or small boat operations with a range up to 400m of water.

The 3000m-rated Sonic 2022 unit is fitted with the 700 kHz UHR™ Option, Truepix backscatter and raw water column detect, making it an ideal high-resolution sonar. When UHR™ is selected, the beam width is 0.6° x 0.6° providing narrow beam widths - invaluable for detail offshore site surveys such as pipeline inspections, trench mapping, cable lay operations, wreck surveys or other micro bathymetry/hydrographic applications.

User-selectable frequencies from 170 to 450kHz and swath coverage from 10° to 160° are selectable on the fly, during survey operations. The latest features are also included offering 1024 soundings per ping and the new Pipeline mode.

Formal Sonic/I2NS training for three Oceanscan technicians at Swathe Services has also been scheduled in order to better support customers.

For further information, visit <http://swathe-services.com/>

1.e) Aquabotix expands global distributor network for underwater vehicles and camera systems

UUV Aquabotix Ltd (ASX:UUV) (“Aquabotix” or the “Company”) announced the addition of four new distributors to its global network. The partnerships will help support the company’s global expansion and sale of its underwater robotics products, including its Endura ROV, Hybrid AUV/ROV and AquaLens Connect underwater camera system. To date, Aquabotix has sold more than 350 vehicles in more than 40 countries.

Aquabotix’s latest distributors include: Sadaret Ltd, Seafloor Systems, Inc., Deekay Marine Services, Pvt. Ltd and A2 Marine Solution.

“As the underwater robotics market continues to grow and we continue to expand our global presence, we are always looking for reliable distributors with whom we can partner,” said Durval Tavares, CEO of Aquabotix. “Thanks to these recent additions to our network, we are now in a prime position to reach a wider range of users and suppliers and dramatically increase the distribution of our vehicles worldwide.”

For more information, please visit www.aquabotix.com.

1.f) SBG Systems to launch the “SBG +Services”, a full set of technical services around its Inertial Sensors.

SBG Systems, a leading manufacturer of inertial navigation systems, adds to its catalog a full set of technical services called the “SBG +Services”. Dedicated to Surveyors as well as Integrators, these services increase productivity by enhancing utilisation efficiency and bringing clever solutions to daily project challenges.

Choosing an inertial sensor is more than matching technical specifications. Professionals face other challenges such as training a new employee, ensure a production with a minimum interruption, or simply secure a budget during several years. To answer all these needs and even more, SBG Systems built a whole range of services: the SBG +Services.

SBG Systems offers three different ways to get introduced to your SBG inertial sensors. The first one is the “+Online Initiation”, a two-hour session with an SBG Support Engineer using a remote-access software. The second is a “+On Demand Training” that takes place at an SBG office or at the customer’s place. The last one is a “+Intervention Day”, a pre-paid day that could be used for training but also for installation or on-site support.

Every SBG sensors is factory calibrated in dynamics and temperature and delivered with a calibration report certifying the sensor performance for three years. All SBG inertial sensors are based on the MEMS technology. This means there is no need to periodically calibrate them. Yet, some projects require certifications. The Check & Calibration service includes a quality check, a firmware update, cleaning, and if required, calibration in temperature and dynamics. A certificate is delivered with the sensor. It guarantees the quality of the sensor data for three years.

Ensure a continuous production: Professionals such as surveyors can be highly penalised in case of production interruption. By selecting the “+Back-up System” service, the customer has access to a replacement device if the original sensor requires a planned or unplanned factory return.

For further information, visit <https://www.sbg-systems.com/services/sbg-plus-services>

1.g) M2 Subsea unveils purpose-built test tank in Aberdeenshire

M2 Subsea, a global independent provider of ROV services, has unveiled its recently commissioned purpose-built test tank at the company’s base in Westhill, Aberdeenshire.

The indoor fresh water tank, which can hold 73,600 litres of water, has been created for the primary purpose of testing ROVs and ancillary equipment. The facility will allow the company to be in total control from the planning to completion of asset testing, ensuring the quality and rapid turnaround of results before they are deployed for both domestic and international projects.

The tank is commercially available for subsea manufacturers and service providers to rent, along with or without M2 Subsea’s ROV fleet. The facility has already been successfully used by Acteon Group for product testing.

Located within M2 Subsea’s existing workshop, the test tank measures 8 x 4 x 2.3 metres and can accommodate both work-class and observation ROVs. It also features a gantry crane which has a S.W.L 15t and an independent 415v three phase 200a power supply to

accommodate testing equipment. 2t and 16t forklifts are also onsite at all times for any unloading and loading requirements.

For further information, visit <https://www.m2subsea.com/>

1.h) Deep Ocean Engineering: ARIS System Integration

Deep Ocean Engineering introduces a small ROV system for the ARIS sonar, complete with a tilt and roll actuator. While the system is operating, the sonar is being controlled from the topside systems unit.

Deep Ocean's T5 ROV has the payload to support the ARIS sonar. The sonar is operated underneath the T5 on a purpose-built skid. It includes a built-in HD camera on a tilt as standard equipment. The umbilical includes fiberoptics, providing maximum bandwidth. Deep Ocean's ROVs have the unique feature of being compatible with either fiber or copper based telemetry. No necessary modifications will be made to the vehicle for users who would like to upgrade to fiber. There is an optional feature in the T5, such as longer fiber cable that is 600 meters and capable of 90 mbps of bandwidth. Deep Ocean is one of the first to configure the sonar onto such a small machine. Currently, the sonar is attached to the T5 with a skid, and is compatible with other systems. The power supply is universal with 120 or 240-volt single phase. It's also equipped with HD video with crisp imaging and integrated with latest high performing DSPL LEDs.

For further information, visit www.deepocean.com

1.i) Teledyne CARIS Appoints Codevintec as Distributer for Italy

Teledyne CARIS™ is pleased to announce that Codevintec has been selected as a CARIS™ software distributor for Italy, the Adriatic countries, Greece, and Lebanon.

As a valuable contribution to Teledyne CARIS' list of distributors, Codevintec has been a professional distributor in the geomatics industry for many years. Survey companies, scientific research organizations and mapping agencies in this region can now contact Codevintec for further information about the Ping-to-Chart™ hydrographic software solutions, which include support for Airborne Lidar Bathymetry (ALB) operations, big data management, and autonomous operational solutions.

Since 1973, Codevintec acts as the most important firm in the Italian Earth and Marine Sciences market. Their expertise covers the supply of Land and Marine Geophysics, Oceanographic and Positioning systems, the fitting of oceanographic vessels and surveying vehicles, and other strategic activities. Clients include government agencies and private Italian organizations.

In 2000, Codevintec expanded to include 3D imaging technology, covering land and sub-sea together with world leading companies and manufacturers.

Codevintec features a main office in Milan and a subsidiary in Rome, both featuring a well-equipped internal laboratory to supply technical assistance, field support, repairs, testing, customizations and systems integration.

For further information, visit www.teledynecaris.com.

1.j) Ping DSP releases MBES mode bathymetry software

Ping DSP has raised the bar for shallow water mapping and imaging with the introduction of its new MBES Bathymetry Engine.

With a useable swath width of up to 14 times water depth, the 3DSS™ brings accurate, wide swath echo sounding to shallow water and provides the same operational and bathymetric performance benefits of Multibeam Echosounders but over the larger swath.

The new MBES Mode uses an advanced new seabed detection algorithm that takes advantage of the dual head nature of the 3DSS™ sonar and its high resolution 3D imaging capability to achieve swath widths far exceeding traditional beamsteering systems. The new MBES Mode introduces user control of sounding beamwidths as narrow as 0.25°, beam densities of up to 1024 beams, and sector sizes to 220°. Beams can be organized as equidistant, or equiangle, or in a new hybrid mode that preserves equidistant spacing over the widest possible swath while also providing full water column coverage of vertical structures and spurious hazards.

In addition to MBES Mode bathymetry, the 3DSS™ simultaneously outputs stunning 3D Sidescan imagery and enhanced 2D Sidescan, and operates optimally in water depths from 0.7m to 60m. The compact size (4" dia. x 22" long) of the 3DSS™ make it easy to use on almost any size vessel or Autonomous/Remote Controlled Surface Vessel operating in a broad range of environments such as; coastal white zones, ports and harbours, rivers and lakes, inland waterways, reservoirs, and tailings ponds. Applications ideally suited to the bathymetric and 3D imaging capabilities of the 3DSS™ include; shallow water hydrography, dredging, engineering surveys, habitat mapping, riverbed change detection, rapid assessment, mine counter measures, structure mapping, maritime archaeology, erosion and scour assessment, search and recovery, pipe and cable tracking, ice profiling, fisheries, and others.

For more information regarding the 3DSS™ Sonar, please email info@pingdsp.com.

1.k) Aberdeen Seafarers' Centre volunteers recognised by Queen's Award

The Aberdeen Seafarers' Centre (ASC) has been presented with the Queen's Award for Voluntary Work in recognition of the service it provides to support seafarers from across the globe during the time they are in Aberdeen.

The award was presented by the Lord Lieutenant of Aberdeen, Lord Provost Barney Crockett to Centre Superintendent and Port Chaplain Howard Drysdale on behalf of the many volunteers who give their time to provide a service 365 days a year. The Queen's award is the highest award given to UK volunteer groups and is equivalent to an MBE for individuals.

In the last year, the Centre was visited by around 3,500 seafarers from 36 countries and staff and volunteers undertook 2,046 ship visits assisting more than 24,100 seafarers. This has included the crew of Malaviya Seven, stranded in Aberdeen without pay since June 2016.

For further information, visit <http://www.aseafarer.com/index.htm>

1.l) OSM Maritime Group future-proofs its business with Cloud Fleet Manager software from Hanseaticsoft

OSM Maritime Group, a leading shipping company, has announced it will introduce Cloud Fleet Manager (CFM) from Hamburg-based software provider Hanseaticsoft as part of its business digitisation strategy.

Using Hanseaticsoft's Cloud Fleet Manager the company will improve and accelerate its internal business processes and increase the quality and availability of its data for employees and customers. It also wants to increase connectivity for staff and improve its customer communications.

To continuously offer its customers first-class services and to integrate them more closely, the company will introduce the CFM Partner Portal. This will enable customers to access relevant information, such as fleet schedules or other relevant operating data at any time.

In accordance with the company's "always-on" mentality, customers can access up-to-date information 24 hours a day. With this decision, the company remains faithful to its principle of offering high-quality and reliable services to its customers and enabling them to concentrate on their core business. In this context, the modernisation of processes should, in addition to a reduction of the communication effort, lead to increased transparency.

With this decision, OSM Maritime Group sets an example of the company's future-oriented, modern and innovative approach.

For further information, visit <https://www.nafsgreen.gr/sea-tech/technology/3967-osm-maritime-group-future-proofs-its-business-with-cloud-fleet-manager-software-from-hanseaticsoft.html>

1.m) Riptide earns Frost & Sullivan's 2017 North American Product Leadership Award for its Unmanned Underwater Vehicle Technology

On September 18th, Frost and Sullivan presented Riptide Autonomous Solutions with its North American Product Leadership Award in the unmanned underwater vehicle (UUV) market. John Vestri, Riptide's Chief Operating Officer / Chief Financial Officer attended Frost & Sullivan's Growth, Innovation, and Leadership Awards Gala in Lost Pines, TX where he accepted the award, and recognition of Riptide's position in redefining the UUV market, on behalf of the growing team.

As part of its recent UUV Market Study, Frost & Sullivan recognised Riptide's rapid growth in the UUV market and the high adoption rate of growing range of products. Additionally, Frost & Sullivan acknowledged Riptide's leadership in UUV innovation including engineering for affordability, superior hydrodynamics, and flexible energy solutions. The study also noted Riptide's focus on customer support, rapid delivery, and highly flexible designs.

Frost & Sullivan concluded that Riptide is a leader in the UUV market with its future-facing innovations focusing on client- and industry-specific needs to provide the best-in-class UUV

technology. Michael Blades, Frost & Sullivan's Research Director of the Aerospace & Defense Practice, stated that "Frost & Sullivan believes Riptide is the most advanced, customer enabling UUV manufacturer in the market by providing clients with unparalleled energy efficiency, portability, and payload customizability solutions."

For further information, visit www.RiptideAS.com.

1.n) River Thames simulation supports safer navigation for Tideway

The Thames Tideway Tunnel project, London's new 'super sewer', which will upgrade the city's 19th century sewerage system for today's eight million plus inhabitants, requires excavation on an enormous scale. Creating a tunnel 25 kilometres in length, and running up to 65 metres beneath the River Thames, will generate immense volumes of spoil, right in the heart of London. To minimise the impact of transporting this on the capital's roads, Tideway plans to transport around 4 million tonnes of this material by river.

HR Wallingford is assessing Tideway's fleet of vessel masters at its UK Ship Simulation Centre to ensure they meet Tideway's health and safety standards, using a specially-created virtual reality simulation of the route the boats will take.

The £4.2 billion Thames Tideway Tunnel project is required to bring London's sewers into the 21st century, and to stop tens of millions of tonnes of untreated sewage flowing into the Thames each year. The 'super sewer' is a tunnel running under the Thames that will intercept, store and transfer the sewage overflow for treatment.

Transporting the millions of tonnes of spoil by river will treble freight river traffic, and create up to 200 maritime jobs, including barge hands and vessel operators. HR Wallingford has developed a four-day course with the Tideway team, designed to ensure vessel masters are given the opportunity to demonstrate that they are fully prepared, and are aware of the health and safety requirements to work on the Tideway Project.

Watch an extract of the River Thames simulation created for Tideway:

<https://www.youtube.com/watch?v=ZqtLwUAQVxc>

2) EVENTS, TRAINING & DEMONSTRATIONS

2.a) CTG launch their new Non-Contact Algae System, the "ALGAE-Station NC" at Sensing in Water (UK) and WEFTEC 2017

The new Algae-Station Non-Contact system from leading water quality sensor designer Chelsea Technologies Group (CTG) will be launched at Sensing In Water (UK) on 27-28 September and WEFTEC 2017 (USA) on 2-4 October.

The Algae-Station NC provides water process control operators with a unique monitoring system which reduces cleaning and maintenance requirements that are commonly associated with in situ sensors, reducing significantly Cost of Ownership of these type of sensors. These non-contact systems, up till now only available for such parameters as turbidity and flow, are now, with the Algae-Station NC, available for algae monitoring in water processing plants.

The Algae-Station NC system consists of a CTG UniLux Chl-a fluorometer (or CTG TriLux fluorometer for multi-pigment measurements (Chl-a, Phycocyanin & Phycoerythin)), a specially designed Weir Style flow manifold which aligns the UniLux / TriLux to a flat water surface and a Watchkeeper logging and display unit. The system can also be adapted for users with existing 'trough' style multi-parameter monitoring systems.

For further information, visit <https://www.chelsea.co.uk/news/environmental-news/629-product-launch-ctg-launch-their-new-non-contact-algae-system-the-algae-station-nc-at-sensing-in-water-uk-and-weftec-2017>

2.b) ONE OCEAN Forum at Teatro Franco Parenti, Milan, 3-4 October

Two days of debate, speeches, first-hand accounts and working sessions to raise awareness of the state of the marine ecosystem and to spread a culture of environmentalism.

The ONE OCEAN program is based on four primary themes, representing the areas of most urgency and significance connected with the current state of the oceans:

Marine Litter & Pollution, namely the enormous quantities of waste present in all the oceans of the planet, capable of causing extreme and lasting damage to the food chain and the marine ecosystem (marine pollution is leading to the extinction of 1,300 species).

Climate and Global Changes, responsible for the acidification of the waters and its consequential effects on the well-being and conservation of oceanic habitats.

The implementation of Blue Technologies as opportunities for the development of the maritime economy, using innovation and research as the basis for new production and commercial policies.

Ocean Literacy, namely the dissemination of a culture that leads to understanding the influence the ocean has on our lives and the influence our choices and behaviour have on the ocean.

Rolex and Audi, historical partners of YCCS, have been joined by Aquafil, Luxury Living Group, Dilbar, Intercos, Fondazione Carriero, Perini Navi, Pantecnica, Fondazione Riccardo Catella, Sipa, Dompé and Biofarma in supporting the project.

For further information and visuals, please check websites www.oneoceanforum.org and www.yccs.com

2.c) Wave overtopping course, 19 October 2017, HR Wallingford, UK

This one-day course introduces the EurOtop manual and presents established and new techniques to predict wave overtopping at seawalls, flood embankments, breakwaters and other shoreline structures. It's the ideal course for those who need to be able to anticipate and/or predict wave overtopping, including graduate and chartered engineers, flood risk managers, consultants, contractors, owners and operators of coastal or reservoir/lake frontages, post-graduate researchers.

Providing guidance on analysis and/or prediction of wave overtopping for flood defences attacked by wave action, the content of the course will include: An introduction to the EurOtop manual; An introduction to techniques (both established and new) used to predict wave overtopping at shoreline structures; An introduction to the main types of structure; Definition of key structural and hydraulic parameters, discussion of the types of prediction methods, and guidance on how the results should be interpreted; Guidance on tolerable discharges and overtopping processes; The main methods available for predicting overtopping (desk calculations, use of the neural network tool, PC Overtopping, EurOtop's online calculation tool).

HR Wallingford currently have places available so if you or your colleagues are interested in attending you can book your place via the online registration form. The registration fee for this course is £450.00 (plus VAT at 20%) per delegate, and includes all documentation, lunch and refreshments. If you would like to book more than one place discounts are available, please check online for details.

For further details please visit <http://training.hrwallingford.com/training/wave-overtopping> or contact training@hrwallingford.com.

2.d) Marine Measurement Forum #60 at Land Rover BAR (Ben Ainslie Racing) in Portsmouth

The Steering Group for the non-profit making Marine Measurement Forum (MMF) series of twice yearly, one day networking seminars is delighted to announce that details for the upcoming MMF60, scheduled for Tuesday 31st October 2017, have been published by hosts iXblue.

The detailed information, including a call for presentations and event registration, can be found at <http://get.ixblue.com/mmf-day-in-ixblue/>

2.e) Subsea UK highlights huge opportunities in offshore wind

Subsea UK has highlighted the huge opportunity for subsea companies to step-up and play their part in helping to meet the world's renewable energy targets at an event in Aberdeen on Wednesday 20th September.

Chaired by Neil Gordon, chief executive of Subsea UK, the event welcomed speakers from SIEM Offshore Contractors, Ecosse Subsea Systems, DeepOcean, Highlands and Islands Enterprise 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 examined how 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.

Neil Gordon, commented: "The recent UK Government CFD (Contract for Difference) auction produced three contracts in offshore wind. This produced a new "strike price" of £57.50 MWh which is half what it was in 2015. By bringing together companies that are already active in the offshore renewables space, it was an opportunity to examine

developments that have proven to be a success, while highlighting the challenges and the entry routes into the offshore wind market.”

Roy Kirk, area manager for Highlands and Islands Enterprise (HIE) revealed how organisations like HIE, Scottish Enterprise and Business Gateway can help companies overcome some of the barriers by offering free advice on market entry requirements, diversification strategies and supply chain positioning.

Attendees also heard from John Best, head of sustainable energy at James Fisher and Sons who said that there is a huge window of opportunity for the UK to make its mark in the renewables sector over the next decade. He stressed the powers of collaboration and the skills challenge – the importance of making the industry appealing to youngsters, so they are aware of the pathways into the industry.

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

3) WHO'S ON THE MOVE

3.a) Tomas Michelsson starting as the President, Offshore and Merchant, on Jan 8, 2018

Tomas Michelsson has been appointed as the President, Offshore and Merchant business area, effective Jan 8, 2018. Tomas is replacing the former President, Claes Rudling, who has retired during the summer.

Previously, Tomas has worked as the Vessel Type Responsible (VTR) Global Sales Manager, Ro-Pax and Yachts, ABB Marine, and as the Director, Marine and Offshore business unit, Marioff.

Evac Group restructured its sales organization with the goal of improving customer service and further developing relationships with key customers in spring 2017. Since restructuring, Evac has had four global business areas: Cruise (Business Area President: Ljubo Jurisevic), Offshore and Merchant (Business Area President: Tomas Michelsson as of Jan 8, 2018), Building (Business Area President: Dominique Gosnet), and After Sales (Business Area President: Ken Postle).

3.b) Aqua-tools expands ballast water team to develop nascent monitoring market

France-based water microbiology specialist Aqua-tools has appointed Carine Magdo as its Business Development Manager in a new role aimed at strengthening the company's position in the nascent ballast water monitoring market.

Carine, a specialist in microbiology and water quality management, joins aqua-tools following four years' service with renewable energy producer Albioma, where she provided technical support to its industrial water and environmental operations. This role succeeded six years' service with Altis Semiconductor, the micro-electronics division of IBM, where she held a variety of senior roles.

While there are different technologies available for analysing treated ballast water, Carine pointed out that the disparity between readings from different sampling methods and tools was brought to wider attention in the research paper A Shipboard Comparison of Analytic Methods for Ballast Water Compliance Monitoring, published in 2017 in the Journal of Sea Research.

4) JOB POSTINGS

4.a) Sales Manager, Chelsea Technologies Group Ltd, Surrey UK

Chelsea Technologies Group (CTG) specialises in the design and manufacture of a range of sensors & systems for the Maritime, Marine Science, Water Environmental & Defence markets.

CTG are looking to recruit a dynamic Sales Manager with the aim of driving the company's global & UK product sales. This is an excellent opportunity to join a well-established and growing company.

Full details can be found at <https://www.chelsea.co.uk/recruiting>

4.b) Software Engineer, Chelsea Technologies Group Ltd, Surrey (UK)

Chelsea Technologies Group wish to recruit a talented Software Engineer to join its R&D team in the design and development of underwater products. CTG specialises in optical, acoustic and physical sensors measuring temperature, conductivity, hydrocarbons, fluorescence, water clarity and primary productivity.

Requirements:

Minimum 2:1 BSc in Computer Science or Embedded Electronic Engineering, or similar.

Previous experience in instrument development.

Proven commercial experience and an understanding of the full product development lifecycle.

Solid hands-on coding skills in C/C ++ for embedded products.

Windows GUI development with Microsoft Visual Studio.

Firmware and software generation and maintenance from initial concept through to delivery.

Understanding of sensor interfaces and data acquisition systems.

Ability to read and understand schematics of basic electronics.

FPGA Development.

Understanding of Communications Protocols preferred (TCP/IP), Serial, USB.

Full details can be found at <https://www.chelsea.co.uk/recruiting>

4.c) Two Electronics Engineers, Chelsea Technologies Group Ltd, Surrey (UK)

Due to business growth, Chelsea Technologies Group wishes to recruit two Electronics Engineer to join its busy R&D team to work on instrumentation and acoustics systems.

Candidates should have experience and specific expertise in analogue circuit design preferably in an instrumentation development environment. The work will involve mixed signal design including pre-amplifiers, filters, power supplies, interfacing and analogue-digital conversion for precision instrumentation applications.

Some experience or knowledge of microprocessor based circuit design and embedded software would be desirable. The candidate will be expected to work independently and as a member of a team contributing to all aspects of the product development cycle from requirement analysis through design & development into production.

Full details can be found at <https://www.chelsea.co.uk/recruiting>

4.d) Project Manager – Marine Robotics at Sonardyne, Hampshire UK

Sonardyne are an independent global provider of underwater acoustic, inertial, optical and sonar technology. They develop technologies and system solutions for reliable subsea communication, positioning and monitoring applications in areas including offshore energy, ocean science and maritime security industries.

There is currently an opportunity for a Project Manager with Marine Robotics experience to manage the successful adoption, specification, delivery, integration, operation and support of Sonardyne technology solutions for Marine Robotics customers.

Essential skills, knowledge & experience:

Marine Robotics systems operation, integration/architecture, navigation/guidance and communications.

Subsea hardware interfacing including mechanics, serial and Ethernet protocols, power, time synchronisation.

Understanding of acoustic positioning, inertial navigation and doppler velocity log technologies.

Project management expertise (involving direct customer liaison and internal departmental co-ordination/delivery); formal Project Management qualification desirable.

Degree in a relevant Engineering discipline (Robotics, Mechatronics, Electronics, Systems, Communications, Software or similar)

This role is based in Yateley, Hampshire, UK.

Full job description available at www.sonardyne.com/vacancies/project-manager-marine-robotics/

To apply for this position, please email a CV & cover letter to hr.team@sonardyne.com. Please reference PM-Marine Robotics Application in subject line.

4.e) Engineering Manager – Ship Scientific Systems (Permanent, Full Time) National Marine Facilities (NMF), National Oceanography Centre (NOC), Southampton

About the role: You will lead a multiskilled team within the Ship Scientific Systems group supporting 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 Ship's computing and data processing systems, acoustic and RF sensors as well as gravity and magnetic instruments. A full training package will be given. This is a full time permanent role.

Salary: £35,222 to £38,254 per annum. An allowance of approximately £4,000 at current rates for time spent at sea (approximately 45 days) is paid on a per day basis.

About you: You will be an enthusiastic and self-sufficient electronic or computing engineering Manager with significant knowledge and experience in IT systems management and electronic communications. You will also be capable of diagnosing faults and delivering effective solutions to the business. You must be capable of managing and motivating a team to deliver excellence in the field of engineering support to oceanography. As part of this role, you will embark on vessels in support of the science program when required, therefore you must be prepared to travel and be capable of travelling worldwide.

For more information, visit [Working at NOC](#).

For general enquiries, please contact Andy Henson, Head of Scientific Engineering (andy.henson@noc.ac.uk).

How to apply: To apply, please visit http://www.topcareer.jobs/Vacancy/irc242787_7530.aspx quoting reference number IRC242787. Please submit a CV (including covering letter explaining how your skills and experience meet the requirements of the role). If you are unable to apply online, please contact 00 44 (0) 1793 867000.

Closing date: 29 October 2017

4.f) Ocean Engineering Technician, Sensors and Moorings Group, Scientific Engineering, National Marine Facilities (NMF), National Oceanography Centre (NOC), Southampton

About the role: You will be a key member of a team within the Sensors and Moorings Group supporting 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. A full training package will be given. This is a permanent position, working full time.

Salary: £22,224 to £24,112 per annum plus £8,000 at current rates for time spent at sea (approximately 90 days per annum) paid on a per day basis.

About you: You will have a BSc or recognised apprenticeship in electronic, electrical or mechanical engineering or BSc in Oceanography with suitable employment experience in this discipline. Alternatively, you will have substantial knowledge and experience of oceanographic instrumentation and practical experience through employment and training. Experience in the use of conventional workshop machines and tools are essential. You will have the ability to diagnose faults and provide solutions under adverse conditions. You must be prepared to travel worldwide.

You will receive a competitive package, including pension, 30 days holiday plus 14 Public/local days off and free car-parking.

For general enquiries please contact Dr Paul Provost (pgp@noc.ac.uk).

How to apply: Applications are handled by UK Shared Business Services Ltd (UK SBS). For further information about the role and to apply, please visit http://www.topcareer.jobs/Vacancy/irc242735_7531.aspx quoting reference number IRC242735.

Please submit a CV (including covering letter explaining how your skills and experience meet the requirements of the role). If you are unable to apply online, contact 00 44 (0) 1793 867000.

Closing date: 22 October 2017