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1. GENERAL OCEAN NEWS

1.a) TURBIBUOY FOR DREDGE AND WATER QUALITY MONITORING

Surrey based Planet Ocean Ltd, have recently supplied and installed two of their TURBIBUOY Systems on the river Clyde for Land & Water Services Ltd in support of the North Renfrew Flood Prevention Scheme.

Turbibuoy pulls together three standard elements of Planet Ocean's portfolio to produce a cost effective yet powerful system which is simple to deploy and operate. The system utilises the popular DB-125 1.25m data buoy platform together with the Analite NEP-395 digital nephelometer (turbidity probe) and DBT-3 mkII GPRS telemetry system. The system is extremely reliable and low powered.

The system makes use of the statistical data available from the Analite sensor to provide more than just a spot measurement of turbidity. Each time the system is due to make a measurement, the sensor first establishes which of its four sensitivities are appropriate; it then makes a series of 100 measurements at 2Hz, before reporting not only average turbidity but maximum, minimum and variance. This allows the user to qualify any over value alarms that might be raised to ensure that expensive false alarms due to spikes in the data caused by fish, ragging, bubbles etc are reduced. The 395 probes are also equipped with lens wiper technology to reduce bio fouling and extend the deployment life between services. The sensor is deployed through the hull thus allowing recovery and servicing of the sensor from a small boat without removing the buoy from the water. Several sensors at differing depths may be deployed. The system also provides a measurement of water temperature and is equipped with GPS position monitoring.

The entire system is controlled and data presented via a web interface that works equally well on smart phones as PC's. Maximum and minimum alarm levels may be set for any parameter including position and alarms are sent by both text and email. Data are stored on the buoy and on the server, and can be downloaded at any time or automatically each day. The system can cope with almost any number of outstations which can be accommodated on any of the companies buoy platforms, existing navigation buoys or on fixed structures such as jetties, piles, met masts etc.

For further information, please contact Carole Sloane, Communications Director at carole@planet-ocean.co.uk or Tel: +44 (0)845 108 1457.

1.b) SHADOW UK DEFENCE MINISTER VISITS SONARDYNE

Gerald Howarth, shadow UK defence minister and MP for Aldershot, was given a thorough briefing on the technology of underwater terrorist detection when he visited Sonardyne International Ltd in Yateley, UK on Friday 11th December. This privately owned British company has become a leader in the detection of underwater intruders and is achieving important sales for its Sentinel sonar system to civil and military customers around the world.

During his tour of the factory, Mr Howarth also saw the manufacture of the advanced acoustic positioning and navigation products that the company supplies to the offshore oil and gas industry. These include systems that use acoustic signals to enable oil rigs to be precisely positioned over a seabed location far below. Similar technology is also employed by Sonardyne so that remotely controlled underwater vehicles can be tracked in deep ocean. High precision gyroscopes and motion sensors are also used by Sonardyne in the manufacture of navigation systems that enable unmanned submarines to navigate by themselves.

Speaking during his visit Mr Howarth said; "We are increasingly looking at defence and security in the same overall package these days and what Sonardyne has here provides a serious advantage. The company is demonstrating the critical contribution that high tech manufacturing industry can make to our economy. It is a world leader in the oil and gas industry and looks likely to play an increasing role in defence. I also hope that local people can appreciate that they have a world-leading high tech company in their area."

A major feature of the factory tour was the opportunity to see the giant test tanks that are used by Sonardyne engineers in the development of new products and for testing the performance of manufactured equipment. The tanks have been designed to replicate the acoustics of the ocean so that products can be tested in a situation that will match the environment in which they will be used.

For further information contact David Brown, Sonardyne International Ltd, on Tel: +44 (0) 1252 872288 or visit www.sonardyne.com.

1.c) MACARTNEY EQUIPMENT MAPPING SEABED IN AND AROUND IRELAND

The inshore waters of Ireland are areas of enormous activity and value. Yet more still needs to be learned about the physical, chemical and biological makeup of the seabed to ensure that effective resource management supports present and future economic and environmental issues. MacArtney supplied sonar equipment is mapping the seabed both in and around Ireland onboard the newly inaugurated vessel, the Keary, and onboard the Celtic Explorer.

In an extensive project, the Infomar programme is currently surveying the 125,000km² of inshore waters to produce integrated maps showing the physical, biological and chemical makeup of the seabed. The new inshore survey vessel, the Keary, dedicated last month, has been equipped with MacArtney supplied side scan sonar and full-spectrum sub-bottom profiler housed in a retractable pod. It will spend the next few years mapping the inshore seabed, the side scan sonar investigating the topography and the first layers of sediment.

The complete side scan sonar and sub-bottom profiler system on the Keary also includes a MacArtney side scan winch, topside processors and acquisition and processing software, digital links and coax and deck cables.

MacArtney supplied equipment is also mapping the bed of the Irish Sea. In another part of the Infomar programme, a Moving Vessel Profiler (MVP) aboard the vessel, Celtic Explorer, will be mapping the offshore seabed. This survey is part of a Europe-wide initiative to provide a complete picture of underwater habitats and seabed.

Surveying and map work will continue for several years to come and will provide a complete marine atlas for waters in and around Ireland. This atlas will allow the continuing prosperity of the waters whilst providing invaluable information for policy makers and reducing the potential for environmental damage.

For further information please contact Niels Erik Hedeager at neh@macartney.com or Tel: +45 761 32000.

1.d) NEW SURVEY VESSEL LAUNCHED

On 2nd December 2009, Fugro Searcher was launched in Fassmer's Shipyard in Bremen. The vessel will now continue the final fit out process followed by extensive sea trials in the New Year. It remains on schedule for formal delivery into Fugro Survey Limited's fleet in March 2010. Fassmer GMBH & Co KG of Bremen, with specialist input from Fugro Survey Limited, designed and constructed this new geophysical survey vessel, the first such new-building since the early 1980s. At 65 metres LOA and accommodation for 43 in en suite single and double cabins it will be a comfortable and spacious vessel on which to work and is fully capable of world-wide operations.

The suite of survey equipment will include an EA600 single beam echo sounder, EM302 and EM3002 multibeam echo sounders, Edgetech dual frequency 4200 digital sidescan sonar, chirp sub-bottom profiler, Hydrosience SeeMUX digital system, with a seismic source of up to 970 cu in firing into a 3000 metre long solid digital streamer, and a HiPAP 500 USBL system. The vessel will be fully networked to provide full plug-and-play interconnectivity and have Fugro's dual DGPS high precision Navigation systems. The design of the vessel will permit simultaneous analogue/digital survey operations and AUV operations. Geotechnical and ROVSV duties can also be undertaken. Diesel electric drive, specially designed hull form, resilient engine mounts and rudder propellers will maximise station keeping and navigational control while ensuring acoustically quiet running at survey speeds.

The Fugro Searcher will be operated by Fugro Survey Limited of Aberdeen. For further information, please contact Chris Mott, Commercial Manager on Tel: +44 (0)1224 257500 or c.mott@fugro.com.

1.e) ODIM BROOKE OCEAN RECEIVES ODIM LOPCTM ORDER FROM EAST CAROLINA UNIVERSITY

ODIM Brooke Ocean has received an order for the delivery of an ODIM LOPCTM to the Department of Biology, Institute for Coastal Science and Policy East Carolina University, USA (www.ecu.edu/biology). The LOPC will be used by Dave Kimmel, Assistant Professor at the Institute for Coastal Science and Policy's Biology Department, for high spatial and temporal resolution in the study of zooplankton distribution in coastal and estuarine waters.

The ODIM LOPCTM is the next generation in plankton profiling. The LOPC's high speed processing and improved detection plane provides detection counts at higher resolutions and higher concentrations with lower coincidence. The system can be installed on various towbody scenarios as well as on the ODIM MVPTM multi-sensor free fall fish, enabling vertical real-time water column profiling while underway at speeds up to 12 knots.

For further information contact Derrick Peyton, ODIM BROOKE OCEAN at dpeyton@brooke-ocean.com or David G. Kimmel, Institute for Coastal Science and Policy East Carolina University at kimmeld@ecu.edu.

1.f) NEW DEEP-SWIMMING ROV HEADS FOR BRAZIL

Specialist contractor, DOF Subsea, has taken delivery of an advanced design of deep-swimming ROV from Saab Seaeye, destined for Brazil.

The new 3000 metre-rated Cougar XTi ROV features technological developments that open up a greater range of deep water applications. It will be permanently commissioned aboard a specially built DOF Subsea vessel, along with two hydraulic work-class vehicles. The vessel has been constructed in Norway and will operate offshore in Brazil for Light Well Intervention.

The onboard Launch and Recovery System (LARS) has been built by ODIM, and includes Active Heave Compensation. Shrinking the size of LARS has been made possible by reducing the diameter of the umbilical from a typical 32mm down to 20mm through new ROV power technology. A thinner umbilical also offers less drag; and the 800Hz high frequency power system cuts the size of the ROV's on board transformer by 80% thereby improving the vehicle's power to weight ratio.

Other key developments include a fault tolerant system that isolates any failed component and allows the ROV to keep working at its designated task. Pilots get fault diagnostics through a simplified man/machine interface that interprets the fault data for them before clearly displaying the problem and the remedial action to be taken. Clever system integration makes the ROV more software driven than hardware dependent and therefore easier to reconfigure for different operational roles.

It means different task-specific tooling skids can be readily added and changed as needed, along with custom designed options for specific operational needs. Such tooling can include manipulator packages, anvil and disc cutters, water-jetting equipment, torque tools, survey packages with camera booms, drill support and IRM tooling. The ROV also has a new autopilot system that gives the pilot more precise positioning of the vehicle by automatically holding depth and heading in much tighter parameters than ever before.

For more information contact Dave Grant, Saab Seaeye Ltd on Tel: +44 (0)1489 898000 or Email: dgrant@seaeye.com. www.seaeye.com.

1.g) US NAVY ORDERS ADDITIONAL SENTINEL INTEGRATED SWIMMER DETECTION SYSTEMS FOR DEFENCE PROGRAMME

Sonardyne International has sold and delivered additional Sentinel Intruder Detection Sonar Systems for the US Navy. They will be used for the Integrated Swimmer Detection Program managed by the Naval Underwater Warfare Center (NUWC) in Newport RI. Ordered in October 2009 the systems were delivered and commissioned within 6 weeks.

The latest deliveries are in addition to the multiple systems already delivered as part of the US Navy's Integrated Swimmer Defence Program. Sonardyne has now been working with the NUWC for over 2 years delivering underwater sonar detection and classification expertise as part of the integrated underwater defence system designed and developed by the engineering team at NAVSEA.

The contract was placed within the terms of Sonardyne's unique General Service Administration (GSA) contractor ref no. GS-07F-0531U for intruder detection sonars.

This award closely follows the first contract for a fixed, permanent Sentinel installation with a commercial port in the United States. The sonar will be integrated into the port's new command and control system that fully integrates data from sonar, cameras and radars to provide protection of shipping and port infrastructure from maritime threats.

For further information on Sentinel please visit www.sonardyne.com.

1.h) TELEDYNE AUTONOMOUS UNDERWATER VEHICLE COMPLETES FIRST TRANSATLANTIC CROSSING

Teledyne Webb Research, a business unit of Teledyne Technologies Incorporated have recently announced the historic completion of the first transatlantic crossing of an autonomous underwater vehicle (AUV), a Slocum glider manufactured by the company.

The project was led by Rutgers University professors Drs. Scott Glenn, Oscar Schofield, and Josh Kohut, and was supported by the National Oceanic and Atmospheric Administration (NOAA). The effort began when Dr. Richard Spinrad of NOAA challenged the Rutgers professors to complete this journey across the Atlantic with a robotic vehicle and in so doing, inspire a new generation of students to engage in oceanographic research.

The glider, dubbed Scarlet Knight, was navigated by students from the Rutgers University Coastal Ocean Observation Lab (RUCOOL) and travelled more than 4,500 miles during its 7-month voyage. Since being launched April 27, 2009, Scarlet Knight has collected measurements of ocean water salinity and temperature, transmitting the data via satellite to the lab at Rutgers. After 201 days in the water, the Scarlet Knight surfaced on November 14, 2009, in Spanish waters and was recovered on December 4, 2009, by a combined team from Rutgers, Teledyne Webb Research, and Puertos del Estado. The glider will be brought onto shore in Baiona, Spain, famous for being the landing site of Christopher Columbus' ship, the Pinta, in March 1493. A ceremony commemorating the transfer of the glider to the United States by officials from the Spanish government will be held in Baiona on December 9, 2009. Teledyne Webb Research will donate a replica of the Scarlet Knight to the city of Baiona for inclusion in its new maritime museum.

The initial concept of the underwater glider was conceived by Douglas C. Webb, the founder of Teledyne Webb Research. It was later popularized in a 1989 article in Oceanography entitled "The Slocum Mission" written by the late Dr. Henry Stommel, a renowned oceanographer and Mr. Webb's neighbor and good friend. "The historical success of this event may one day be measured in the tremendous educational and international outreach that this collaborative effort has spawned. By involving and entraining others in the exciting process of daring and discovery, we hope to share awareness about our environment and inspire a next generation of thinkers and explorers. We feel that this success is a significant step towards deploying fleets of capable, sensor-laden gliders for multi-year transoceanic operation and ultimately changing our fundamental understanding of world ocean dynamics," stated Clayton Jones, Teledyne Webb Research's Senior Director of Glider Development.

For more information about the mission of the Scarlet Knight go to <http://rucool.marine.rutgers.edu/atlantic/>

2. WHO'S ON THE MOVE?

2.a) NEW SECRETARY GENERAL OF INTERNATIONAL ASSOCIATION OF PORTS & HARBORS

As of December 1, Mr. Susumu Naruse has taken office as IAPH Secretary General, succeeding Dr. Satoshi Inoue, as so appointed at the IAPH Board of Directors meeting in Genoa, Italy, May 2010.

The new Secretary General, Mr. Susumu Naruse is not new to IAPH. Since 1999, Mr. Naruse has played an active part in the Association, serving on the Executive Committee (2001-2006) and on the IAPH Port Planning & Development Committee (PPDC) firstly as a member, Vice Chair and then Chair. As chair of the PPDC, he took the leading role in preparing very stimulating reports entitled "Forecasts of the World Container Throughput", "Cruise Terminal Planning" in 2007 and "Introduction to Port Preparedness for Tsunami" in 2009.

For further information please Email: info@iaphworldports.org or Tel: +81 3 5403 2770.

3. JOB POSTINGS

3.a) OFFSHORE MARINE MANAGEMENT REQUIRE BUSINESS DEVELOPMENT MANAGER & OFFICE ADMINISTRATOR/PROJECT COORDINATOR, UK

Two exciting opportunities to join Offshore Marine Management have arisen, OMM a rapidly expanding, independent marine service engineering company providing support services to the offshore renewable energy, subsea telecoms and oil & gas industries on a global scale.

Business Development Manager

Due to continued growth, Offshore Marine Management is seeking an experienced Business Development Manager.

As Business Development Manager, you will take on responsibility for a wide range of sales and business development duties and will become pivotal to the ongoing expansion of the company.

Based from the Bristol office, you will be tasked with both new business development and existing client management work across the UK and internationally. As such, there will be a significant element of travel associated with the post.

The impetus will be on the successful individual to build and maintain effective relationships with new clients at all levels within offshore renewables whilst striving to further open up existing accounts through intelligent follow up work and cross selling of the company service offerings.

The Person

- Business development track record is essential, ideally within renewables (not essential)
- Outgoing, confident personality with the drive and energy to succeed
- Flexible to undertake travel within the role
- Excellent communication and presentation skills

In return, you will receive an excellent remuneration package to include basic salary depending on experience levels, commission based earning potential, company car or car allowance, mobile phone, BUPA, Stakeholder Pension scheme and 25 days annual holiday entitlement (plus bank holidays).

Office Administrator/ Project Coordinator

The role would include, but not be limited to the following based in their offshore projects office in Oakington, Cambridge:

- General administration duties (OMM Projects)
- Assist with HR, personnel and logistics for project based operations
- Assist with procurement for project based operations
- Assist with final project based deliverables preparation, printing, presentation and Quality Control/ Quality Assurance to their clients (Reports, charts and presentation)
- Assist with OMM project based documentation register, control and update/ printing
- Assist with OMM server administration updates
- Liaison with Bristol head office
- Assist with training course sales, marketing, preparation and coordination (Offshore Marine Academy)
- Coordinating all Cambridge office personnel movements, support and activities
- Improving Cambridge office administration and organisation throughout with own initiatives
- Telephone answering/ assistance
- Attending OMM and client/ supplier meetings, presentations where required and appropriate

In return, you will receive an excellent remuneration package, BUPA, Stakeholder Pension scheme and 25 days annual holiday entitlement (statutory days in addition to this).

These opportunities are a great chance to join a young, dynamic and progressive organisation at an exciting stage of its development plan.

Applications in writing or by email, including CV, should be sent to the Personnel Manager, Martine Rondeel, at martine@offshoremm.com, to: Offshore Marine Management, Broad Quay House, Prince Street, Bristol BS5 9AL UK www.offshoremm.com.

3.b) EGS SEEKS A SENIOR HYDROGRAPHIC SURVEYOR, HAMPSHIRE, UK

EGS International Limited are looking for a dynamic and motivated individual to be part of a hard working and dedicated survey team, at Senior Surveyor level.

Their main area of work is in the coastal zone and this includes work on site investigations, pipeline inspections, cable landfall surveys, dredge monitoring programmes, environmental monitoring, harbour and topographic surveys.

The successful applicant will be based at their office in Bordon, Hampshire and will be prepared to reside within commuting distance of the office. You will be working full-time on projects in the UK and overseas and will on occasions spend extended periods of time on site. You will be involved in survey planning, acquisition, processing and reporting.

In return EGS offers a competitive salary based upon experience, an annual performance bonus, inclusion in their company pension scheme and a pleasant working environment.

Candidates should demonstrate the following:

- 4+ years experience in hydrographic and geophysical survey operations.
- Experience in the role of Party Chief, particularly in the inshore environment.
- A good working knowledge of multibeam systems; installation, acquisition and processing.
- Experience in the production of survey reports.
- Good interpersonal and communication skills.
- Good analytical skills and the ability to identify and solve problems.

To apply for this position please send a covering letter and CV to: Debbie Jenkins, Commercial Director, EGS International Ltd, 27 Woolmer Way, Bordon, Hants GU35 9QE. Email: djenkins@egssurvey.co.uk.