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1. GENERAL OCEAN NEWS

1.a) L-3 KLEIN INTRODUCES BATHY 5000 V2 HYDROGRAPHIC SURVEY SYSTEM

L-3 Klein has recently announced the BATHY 5000-V2, their latest product for Hydrographic Surveys. The System was released to the commercial market at the Oceans 2009 Conference in Biloxi, MS. The Oceans 2009 Conference was attended by over 2,200 representatives from the Oceanographic community and the L-3 Klein BATHY 5000-V2 was well received. Concurrently, L-3 Klein presented a technical paper outlining the system performance and specifications.

The L-3 Klein BATHY 5000-V2 is a hydrographic survey system which has the ability to simultaneously collect IHO quality swath bathymetry and high resolution multi-beam side scan data in a co-registered and geo-referenced data set. The L-3 Klein BATHY 5000-V2 is the only product in its class to provide frequency modulated (FM) chirp processing for both bathymetry and side scan, providing high resolution with extended range performance. The wide swath bathymetry performance meets IHO-SP-44 Special Order standards for hydrographic surveys and provides a 2X survey coverage advantage over traditional multi-beam echo sounders in shallow water. The side scan has the capability of producing 10cm resolution side scan in the High Resolution Mode.

The dual functionality of the L-3 Klein BATHY 5000-V2 effectively allows two surveys to be accomplished in one pass saving significant ship time and expense. The cost of ownership of the L-3 Klein BATHY 5000-V2 is extremely reasonable when you consider the competitive acquisition price, cost of operating one system instead of two and the 50% savings in survey time.

For further information on L-3 Klein, please visit www.L-3Klein.com.

1.b) MARINE GEOSOLUTIONS (PTY) LTD. SIGNS CONTRACT FOR SEABAT 7101 MULTIBEAM SONAR SYSTEM UPGRADE DURING THE HYDRO09 EXHIBITION

Marine GeoSolutions (Pty) Ltd. is a specialist marine geophysical survey company operating from Durban, South Africa. Their core business includes offshore mineral exploration for mining companies and marine geophysical surveys in support of port development, engineering and dredging. In addition to offshore heavy mineral exploration, the company has experience in undertaking offshore exploration programmes for diamonds, phosphorite and glauconite and their staff have undertaken oil well-site investigations and fiber-optic cable landing site surveys.

The SeaBat 7101 upgrade will increase the efficiency and cost saving through more usable swath width provided by roll stabilisation and equi-distant beams. The data quality will be better due to quality filter, uncertainty output and variable swath width. Another advantage in the upgrade is that the wet end will remain untouched and the up-grade will not change any wet end firmware, software or hardware.

Marine GeoSolutions has many years of experience using RESON equipment. The equipment pool includes a SeaBat 8101 multibeam sonar system, NaviSound echosounders and sound velocity probes.

For further information please contact John Fraser, RESON A/S, on Tel: +44 (0) 7920 100809 or E-mail: john.fraser@reson.com.

1.c) CODAOCOTOPUS AWARDED CONTRACT FOR ECHOSCOPE REAL TIME 3D SONAR SYSTEM BY BOSKALIS

CodaOctopus has announced a contract award from Baggermaatschappij Boskalis bv which further expands the rapidly growing Echoscope 3D real-time imaging sonar customer base. The sonar, built on patented Echoscope™ technology, will be used by Boskalis in their worldwide construction, dredging, engineering and coastal protection projects. It provides the capability to visualise, in zero visibility conditions, the subsea environment in 3 dimensions and to make real time measurements without the need for post-processing of data. Ultimately their investment in this unique technology will make Boskalis' projects safer and more efficient.

Identifying the 3D visualisation capabilities of the Echoscope system, Sjoerd van den Brom, Survey Manager, commented, "At Boskalis we are continually investigating new, innovative and leading-edge technologies. From our experiences at numerous worldwide projects we know that adding a further Echoscope to our global operations will enhance both safety and productivity." Stephen Auld, CodaOctopus Products Managing Director added, "Boskalis was seeking a technical solution that would

provide them with a flexible tool which is suitable for their numerous projects. The Echoscope technology is ideal for many of their immediate tasks and its suitability for future applications is assured with further capabilities and customised software from our development team.”

For further information please contact Debra Barker, Marketing Manager on Tel: +44 (0)131 561 1513 or Email: debra.barker@codaoctopus.com or visit www.codaoctopus.com.

1.d) THE WATERWAYS AND SHIPPING ADMINISTRATION IN GERMANY (WSV) IS TAKING THE LEAD IN USE OF TECHNOLOGY FOR SAFER MARINE NAVIGATION

Aanderaa Data Instruments (AADI) and Nautilus Marine Service GmbH have received orders for delivery of 7 Data Buoys and 10 River Pile Stations totalling 180 SEAGUARD® RCMs that are fitted with sensors for monitoring water flow (speed and direction), turbidity, salinity, temperature and dissolved oxygen, as well as real-time data communication.

WSV, is the regulating authority of all significant federal navigable waters including rivers, canals, locks and seaward approaches within the sovereign territory of the Federal Republic of Germany.

The delivery of the Data Buoys and the SEAGUARD® RCM's comprises the modernisation of hydrological measurement stations within the area of responsibility of the WSA Hamburg and the WSA Cuxhaven.

The Data Buoys are fitted with two SEAGUARD®s each monitoring water flow, temperature, salinity, turbidity and oxygen at one meter above the river bed and near the surface just below the buoy. Data are transmitted in real-time from the buoy.

Further SEAGUARD®s will be installed on pile based stations (picture). The same parameters as for the buoys will be measured approximately 2 meters and 4 meters above the river bed. As the Data Buoys also these stations will give Real-Time data.

For further information please contact: Gerry Stewart on Tel: +4755604828 or E-mail: gerry.stewart@aadi.no or visit www.aadi.no.

1.e) TRITECH'S SECOND ANNUAL DISTRIBUTOR SEMINAR A SUCCESS

Tritech has recently completed its second Distributor Seminar. Members of Tritech's global distributor network visited Aberdeen to gain further insight into existing and new product lines, and to share ideas on product developments.

Seven distributors attended representing six countries: Norway, South Africa, Canada, Spain, USA and the Netherlands. The seminar built on the momentum gained following the success of Tritech's inaugural Distributor Seminar in 2008. Again it proved an excellent platform to maintain and enhance existing distributor relationships, some of which have been established for more than fifteen years.

Distributors were given an insight into the latest developments with Tritech products, including the new range of multibeam sonars. During the seminar, Distributors had the opportunity to enjoy hands-on product experience in Tritech's dedicated training centre, as well as learning of the wider support available to them. During their visit, Distributors also enjoyed the delights of Aberdeenshire including a barbeque feast and a Grand Prix-style karting challenge.

For further information please contact Suzanne Menzies, Tritech International Ltd on Tel: +44 (0)1224 744111 or Email: marketing@tritech.co.uk or visit www.tritech.co.uk

1.f) LISTEN UP! OSPAR'S FIRST ANALYSIS OF MAN-MADE UNDERWATER SOUND POLLUTION!

An international team of experts on marine acoustics from the OSPAR Contracting Parties and beyond has compiled on behalf of the OSPAR Commission an authoritative overview document on the effects of man-made underwater noise on marine life.

Sound is important for many marine organisms, including marine mammals, fish, and perhaps some invertebrates. In many species, it is used actively for communication, navigation and foraging and perhaps also passively for orientation. There are many sound sources in the ocean, some of them naturally occurring, others man-made. Our current knowledge on the impacts of underwater sound on marine life is

incomplete, frequently inconclusive and occasionally contradictory. Nevertheless, it is clear that man-made underwater sound becomes a form of pollution when it harms or is likely to harm marine life.

Having established general information on the physics of underwater sound and a background on impacts of sound on aquatic life, the core part of the OSPAR document covers documented effects of sound from human activities on marine life; these activities include offshore construction and industrial works, shipping, sonar, seismic surveys, and other activities such as wave and tidal generators and acoustic harassment devices.

The report shows that the range of observed impacts on marine life from underwater sound are varied, from insignificant impacts to widespread behavioural disturbances to, in some cases, stranding events and deaths of marine mammals. The review also indicates that work could be prioritised by focussing on those high-energy sound sources which may be considered as having the highest potential for adverse impacts. It stresses the need to distinguish here between the effects of (short-term) exposure to intense sound levels which might in their worst cases result in injury and death on the one hand and effects of exposure to more moderate but generally increasing continuous (background) sound which can possibly influence long-term habitat quality and therefore might cause stronger effects on animal populations.

This pioneering work will inform the current debate on energy levels, including noise, that can be introduced into the marine environment, one aspect of the European Commission's Marine Strategy Framework Directive. Further OSPAR work on noise will be undertaken in advance of an Environment Summit for The North-East Atlantic in September 2010.

For further information on OSPAR please visit www.ospar.org

1.g) SEAVIEW SENSING CELEBRATES FIFTH BIRTHDAY WITH FREE TRIAL

Seaview Sensing is celebrating its fifth birthday by offering all HF radar users with over 12 channels a free software trial.

Managing Director, Tessa Hodgkinson said "It is great that we have reached our fifth year with a number of installations worldwide. The renewables market in particular is proving to be a growth area for us. Clients appreciate the benefits of land based equipment offering simultaneous wave and current measurements". Seaview Realtime Software processes phased array HF radar data to provide real-time measurement of surface currents, waves and winds and creates maps, time-series plots and directional spectrum wave plots with high temporal and spatial resolution and large area coverage, up to 250km offshore. The data is calculated at multiple grid points across the coverage area, this could be 300 high quality data points across an area of 500 to 20,000 km².

If you would like to enquire about trialling the software please contact Judith Pigg judithpigg@seaviewsensing.com for further details.

1.h) FLEETBROADBAND 505 EMERGENCY CALL SERVICE LAUNCH

Leading provider of global mobile satellite communications, INMARSAT, has launched a new safety service for mariners - 505 Emergency Calling, for all FleetBroadband users. Inmarsat FleetBroadband customers who dial 505, the new emergency short code service, will be connected automatically to a coast guard rescue centre - wherever they are in the world.

There is no subscription or call charge for the 505 emergency service –and it can be activated immediately just by dialling 505.

For further information, please contact John Warehand, Inmarsat or Tel: +44 20 7728 1579, Mob: +44 7739 778 128 or Email: john_warehand@inmarsat.com

2. EVENT, TRAINING & DEMONSTRATION NEWS

2.a) MARINE MANUFACTURER'S BREAKFAST CLUB - 26TH JANUARY 2010, NOCS, UK

On the 26th January 2010 the National Oceanography Centre, Southampton (NOCS) will be hosting the next in its series of Marine Manufacturer's 'Breakfast Club' meetings.

It is planned that in April 2010 the UK Research Councils, of which the Natural Environment Research Council is one, will receive their procurement functions from a Shared Service Centre (SSC) in Swindon. Reece Baines from SSC will be giving a talk outlining how to do business with the NERC National Marine Equipment Pool (Operated by Sea Systems at NOCS) once the SSC is in place.

Breakfast will be served from 0830 with the presentations beginning at approximately 0915. The rest of the time is available for industry to meet with the SSC staff and engineers from National Marine Facilities Sea Systems and take part in opportunistic discussions, whilst enjoying breakfast and a coffee.

The Breakfast Club is free to attend and meets twice yearly, alternating with the Marine Measurement Forum, if you would like to attend this event please contact Aidan Thorn (adft@noc.soton.ac.uk) for a registration form.

3. JOB POSTINGS

3.a) WFS SEEK SALES ENGINEER - ENERGY AND ENVIRONMENT (EMEA)

WFS Technologies (www.wfs-tech.com), based near Edinburgh, is a leading developer of RF (Radio Frequency) underwater and underground communication systems. The company has developed through-water wireless systems for a range of environmental and oceanography applications.

Due to growth in a number of key target markets, WFS is recruiting for a field-based Sales Engineer to focus on the Instrumentation market. Specific target applications include: *Oceanography; Water quality monitoring; Dredging; Marine renewable energy; Hydrometry; Port and harbour operations.*

The sales role combines account management of existing customers with new business development, with the primary focus on identifying & winning new customers. There will be some after-sales product and customer support.

The position is based in Scotland with significant travel in the UK and European continent. The candidate must be capable of planning and organising their own workload.

Ideally candidates will already be selling technical products and project engineering in the target area and will have an understanding of the target customers. Sales targets include companies, government departments, academic bodies and NGOs in the areas of oceanography, environmental monitoring, and marine technology.

Responsibilities include:

- Generating revenue through generating and qualifying leads, developing opportunities, submitting proposals, negotiating and closing sales.
- Conducting product and technology demonstrations.
- Participating in trade shows / conferences.
- Forecasting sales volume, activities, and budget requirements.
- Maintaining sales pipeline and providing updates on a weekly basis.
- Reporting sales performance against agreed plan.
- Contributing information to market strategy.

Qualifications:

- BSc or HND in Oceanography, Control & Instrumentation, Electrical & Electronic Engineering, or equivalent work experience
- Track record of success in similar sales role

To apply for this position please forward your resume with cover letter to: Ian Crowther, General Manager, Energy & Environment, WFS Technologies at Email: ian@wfs-tech.com.