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The weekly ocean technology e'Newsletter everyone's talking about

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## **1. GENERAL OCEAN NEWS**

### **1.a) SENTINEL DIVER DETECTION SONAR SUCCEEDS IN WARM ASIA PACIFIC WATERS**

The Sonardyne Sentinel diver detection sonar proved its effectiveness in tropical waters during a key demonstration in South East Asia. The presentation was seen as the final, crucial, step in proving Sentinel's capabilities in a variety of water columns around the globe. The Sentinel trials team was led by Sonardyne's chief mechanical engineer Graham Brown who, working with a local diving company, demonstrated the speed of system deployment and ease of set-up in a typical busy harbour.

Guests were then able to witness a series of diver threat scenarios that confirmed Sentinel's rapid identification of the threats, its robust tracking, low rate of false alarms and its acoustic classification abilities.

Sentinel is a new generation of wideband sonar that provides an expanded underwater domain awareness and security for civilian and military installations and assets. It is claimed to be the smallest, lightest and most cost effective of the diver detection sonars currently available and has already been selected by the US Navy and other high profile customers as their preferred sonar for underwater security.

For more information on the Sonardyne Sentinel please contact Rob Balloch on +44 (0) 1252 872288 or visit [www.sonardyne.co.uk](http://www.sonardyne.co.uk).

### **1.b) NEW COLLABORATION PROVIDES ONE PART OF CALL FOR PLANKTON COLLECTION AND ANALYSIS**

Chelsea Technologies Group Ltd (CTG) and the Sir Alister Hardy Foundation for Ocean Science (SAHFOS) have teamed up to offer coastal and ocean monitoring authorities worldwide, a complete equipment and service provider for ship of opportunity (SOOP) based plankton sampling systems and training in plankton analysis and taxonomy.

SAHFOS, part of the Plymouth Marine Sciences Partnership, UK has been operating the Continuous Plankton Recorder (CPR ) survey for over 70 years. The data and subsequent research enables scientists to assess the health of the oceans and present information to policy makers and governments. The success of this survey can be attributed to the skills and expertise of the staff, ranging from practical knowledge of towing CPRs on commercial vessels, through to identifying taxa from the collected samples and data management.

Chelsea Technologies Group Ltd, the world's leading supplier of towed undulating vehicles, has been supplying SeaSoar, AquaShuttle and Nu-Shuttle systems for over 25 years. These systems have been fitted with a wide range of instrumentation and tools including the CTG Autonomous Plankton Sampler, a plankton sampler based on the mechanism used within the SAHFOS CPR, updated with an electric motor and indexed gauze advance. For fixed depth of tow applications, CTG has also supplied CPR bodies fitted with an Autonomous Plankton Sampler. These CPR bodies can also be fitted with a CTG MiniPack CTD-F.

Whether coastal and ocean surveyors are looking for plankton sampling on simple instrumented towed platforms for SOOP deployments, undulating platforms with comprehensive sensor arrays (such as the Mariner Nu-Shuttle developed for the Large Marine Ecosystem programme), or require plankton sampling systems to be fitted to onboard flow-through systems (such as FerryBox type systems), they can now obtain equipment, advice and training through the Chelsea Technologies Group.

For further details please contact Ellen Keegan, Chelsea Technologies Group, Tel: +44(0) 8481 9019 [ekeegan@chelsea.co.uk](mailto:ekeegan@chelsea.co.uk).

### **1.c) JAMES FISHER MIMIC ADVANCES INTO THE COMMERCIAL MARKET**

Condition based maintenance specialist, James Fisher Mimic, have indicated their desire for expansion with their intention to diversify into the commercial marine sector. This ambition is reinforced with the recent appointment of Graeme Brown as Sales Director.

Graeme, who has many years experience in various maritime markets and previously worked for Inmarsat Ventures and Bimco, plans to develop the company's previous experience providing maintenance software and consulting services to the defence sector of the shipping industry and progress into the commercial marine sector.

For more information on James Fisher Mimic please visit [www.jfmimic.co.uk](http://www.jfmimic.co.uk)

#### **1.d) A MORE VERSATILE SIDE SCAN SONAR**

Side scan sonar is one of the most widely used and effective tools for underwater search operations. Its claim-to-fame is the ability to produce detailed pictures of underwater objects regardless of water clarity. Even in zero visibility the sonar produces high resolution images of everything on the bottom. Side scan has been extremely useful in helping to locate and identify a variety of targets from drowning victims to submerged vehicles and sunken vessels. Today many law enforcement agencies, rescue squads, and emergency management groups are seeking homeland defense grants to purchase this equipment.

The limitation of the side scan is that it only looks across the bottom. The angle of the transducers prevent the sonar from producing a clear image of a vertical surface, such as bridge supports, sea walls, or dams. The downward looking transducers also prevent scanning of objects on the surface, like the hull of a ship. With today's heightened risk of terrorist attack on any front, and the escalating war on drugs, the agencies charged with public safety need to have this capability. To overcome the problem JW Fishers developed a side scan towfish with adjustable transducers. The angle of the transducers can be changed by rotating the tail section of the towfish. This allows the sonar to scan the hull of a ship for attached contraband compartments and inspect the face of a dam, bridge, or oil platform for explosive devices.

For more information on side scan sonars or any of Fishers underwater search systems go to [www.jwfishers.com](http://www.jwfishers.com) or contact Chris Combs at [info@jwfishers.com](mailto:info@jwfishers.com).

#### **1.e) VERIPOS EXTENDS DIFFERENTIAL GLONASS CAPABILITY**

Veripos of Aberdeen, suppliers of high-precision GNSS positioning solutions to offshore and marine users worldwide, has extended its globalised network with introduction of Differential Glonass augmentation data broadcast from its Asian reference stations in Manila, the Philippines, Sakhalin in East Russia and Singapore. This is in addition to recently announced stations in India which have had similar DGLonass capability added.

The new DGLonass capability, which can be activated at any station on demand, complements similar facilities already available as an integral part of VeriposÆ regional GNSS networks using multiple and high and low power delivery satellites for realisation of metre-level accuracies. Corrections, which are encoded in standard RTCM format, can be used directly with compatible GNSS equipment or external software such as Veripos Verify QC.

For further information please visit [www.veripos.com](http://www.veripos.com).

#### **1.f) THE MARINE TECHNOLOGY SOCIETY'S ROV COMMITTEE ANNOUNCES THE WINNERS OF ITS 2008 ANNUAL SCHOLARSHIPS**

Ms. Laura Fenton, Mr. Joshua Leighton, Mr. Brycen Nakashimi, and Mr. Brian Tiefenbach have been selected as recipients of the Marine Technology Society's 2008 ROV Committee Scholarships. In addition Ms. Dominique Evans, Mr. Milton Lywood, and Ms. Stacy Mauzey received special MATE Center MTS ROV Committee Scholarships.

Ms. Fenton, who attends Florida Atlantic University was awarded \$7,000; Mr. Leighton who attends MIT received \$5,000. Mr. Nakashimi who attends University of Hawaii at Monoa and Mr. Tiefenbach who will be

attending Purdue each received \$2,000. As winners of the MATE Center (Marine Advanced Technology Education) MTS ROV Committee Scholarships, Ms. Evans who is pursuing her Masters at California State University was awarded \$5,000, Ms. Mauzey who is attending Hawaii Pacific University and Mr. Lywood who will be attending Dalhousie University each received \$2,000. All will be recognized during the Awards Presentations at Underwater Intervention '09 in New Orleans, Louisiana.

Drew Michel, Chairman of the ROV Committee of MTS initiated the scholarship program in 1994. Since then it has awarded over \$120,000 to deserving students. Scholarship applications for 2009/10 must be received by April 15, 2009. Details on how to apply and additional information on the MTS ROV committee can be found at <http://www.rov.org/>.

## **2. EVENT, TRAINING AND DEMONSTRATION NEWS**

### **2.a) FIRST ANNUAL SUBSEA TECHNICAL CONFERENCE CALL FOR PAPERS DEADLINE - 31<sup>st</sup> JULY 2008**

The following subjects are up for discussion at the upcoming Annual Subsea Technical Conference, 17<sup>th</sup> – 19<sup>th</sup> February 2009, Perth, Australia.

*IMR and reuse / including lightwell intervention; Innovative technologies / including smartwells; Stabilisation - pipelines, flowlines and umbilicals; Risers and moorings; Deepwater gas; Subsea to beach; Deepwater technology advances; Subsea processing; Innovative new technology; Data gathering; Metocean - prediction and reliability; Seafloor soils; Tools; AUVs; Subsea risk and reliability; Environmental; Renewable Energy.*

The aim of the Conference is to identify the technical challenges and showcase solutions within the subsea arena and to provide a forum to maintain high standards in marine science and technology; an endeavour that often involves bringing together diverse fields of science and engineering.

For more information or to submit an abstract please visit [www.promaco.com.au/2009/sut](http://www.promaco.com.au/2009/sut).

## **3. WHO'S ON THE MOVE?**

### **3.a) TWO INDUSTRY EXPERTS BOOST SONARDYNE STRATEGIC DEVELOPMENT TEAM**

Eric Levitt and Ross Gooding have joined the successful strategic development team of Sonardyne Group Ltd. As leading experts in their fields, they have joined the company to add their skills to Sonardyne's business development in North America and Europe respectively

Eric Levitt is based in North America and joins Sonardyne from Kongsberg where he was responsible for raising market awareness for a range of maritime security solutions. He has an in-depth appreciation of the complex issues facing industry and the potential solutions that will be applied to the market development of Sentinel, Sonardyne's new underwater security system. Eric's focus on the North America market will be supported by Sonardyne's US subsidiary based in Houston, Texas, with provision for spares, repair and project / engineering support.

Ross Gooding is based in the UK and makes the move to Sonardyne following a successful period at QinetiQ when he was responsible for opening the maritime security marketplace for one of the world's largest defence technology companies. Ross's background in port engineering and superyacht security adds to the already substantial capability of the team.

For more information on Sonardyne International Ltd please visit [www.sonardyne.co.uk](http://www.sonardyne.co.uk)

## **4. JOB POSTINGS**

#### **4.a) GEMS SURVEY LTD, UK REQUIRE METOCEAN ENGINEERS / OCEANOGRAPHERS**

Based in Devizes (UK) GEMS Survey Limited is an established, internationally operating, marine geophysical, metocean and hydrographic survey company.

GEMS pride themselves on developing a personal relationship with their Clients and delivering a personalised service to ensure they meet their Client's requirements in an efficient and cost effective way. GEMS are constantly striving to develop service deliverables through a team focused business approach, investing in new technology and the recruitment and utilisation of exceptional people.

GEMS is a rapidly growing innovative marine survey company and are looking to recruit a number of highly motivated individuals in a variety of key positions to ensure their continued success. GEMS are seeking enthusiastic and progressive metocean engineers and oceanographers to join their expanding specialist metocean team. Applicants are sought from all levels of experience.

Successful candidates can look forward to enjoying well rewarded, stimulating assignments supporting GEMS' global services. Work will involve both office and offshore based duties. The positions will be based at their new offices in Devizes.

If you are interested in these positions please forward your CV to [maxine.collins@gems-group.com](mailto:maxine.collins@gems-group.com).

#### **4.b) Wish Software Limited - GIS Application Developer - Job reference number DEV/GDA/OB**

Wish Software is an innovative application development and service company providing Computer Aided Design (CAD) and Geographic Information Systems (GIS) solutions to the Oil, Gas and Telecommunications Industries. They are transforming the way their clients view and use their complex data, thanks to their capability, expertise and ground-breaking software. Wish Software Ltd are expanding rapidly and are looking for a GIS Developer to join their product team, to work on existing and new products in the Edinburgh, UK office.

The GIS Developer will be primarily responsible for developing, maintaining and enhancing their GIS service to clients, through their products AutoChart, VisualGIS and HydroGIS. For further information on our products and what our company has to offer, please visit their website at [www.wishsoftware.com](http://www.wishsoftware.com).

The Developer will have full life cycle involvement, from requirement analysis through to deployment of GIS application solutions. Day to day activities will include envisioning, designing and developing solutions using Microsoft, ESRI and Autodesk technologies. To be considered, you will be able to demonstrate strong development experience in the .NET Framework as well as ArcObjects.

Requirements: Proven Experience of Windows programming with the .NET Framework; Solid Knowledge of ESRI's ArcObjects; Visual Studio 2008 / Team Foundation Server experience is desirable; Degree/HND in computer science, geography, surveying, or a GIS-related field; Ability to clearly analyse/describe a problem and propose a solution; Excellent problem solving, design, development, and debugging skills; Ability to work with a team in a constantly challenging environment; Valid documentation to work in the UK

Please apply in writing to [careers@wishsoftware.com](mailto:careers@wishsoftware.com), enclosing a covering letter, CV and giving details of your current salary and/or salary expectations. If you prefer, please apply to Human Resources at the address found on the website, quoting the above reference.

#### **4.c) TECHWORKS MARINE REQUIRE FIELD SERVICE ENGINEER & TECHNICAL SALES EXECUTIVE**

TechWorks Marine is an Irish company which specialises in the design and manufacture of marine data collection products and services, wireless networks, oceanographic data processing and dissemination via secure web pages.

##### **Field Service Engineer**

As part of TechWorks Marine's expansion they have an immediate vacancy for Field Service Engineer. The position will be based in Dun Laoghaire, Ireland, with national travel required.

Qualifications and Skills Required: Third level qualification in Electronic Engineering or a related subject; Ability to work on own initiative for extended periods of time at remote locations; Experience in field environments and willingness to work at sea are desirable; Skilled in electronic system and general troubleshooting; Candidates must have a full, clean driver's license, boat handling experience an advantage; Three years or more of demonstrated, relevant experience with marine platforms and sensors; Candidate should have electronic skills: soldering, fault finding, test, basic layout and schematic design; Knowledge of use and operation of ROV's useful; The ability to demonstrate strong interpersonal skills, being an innovative thinker and a self-starter; Understanding of Linux / Unix systems would be a bonus.

Candidates should have good problem solving experience, and be able to work within a team and be self-motivated.

### **Technical Sales Executive**

As part of TechWorks Marine's expansion they have an immediate vacancy for a Technical Sales Executive with a focus on integrated real-time product and services for the aquaculture and real-time water quality monitoring sectors. The position will involve dealing with clients both in Ireland and worldwide, this will include the retention of existing clients, as well as developing new clients in our existing sectors, and the investigating other marine sectors. The position will also include attending conferences and exhibitions as well as organising field demonstrations, product trials and customer acceptance tests with clients.

The position will report back directly to the Managing Director and will liaise closely with the management and technical team within the company. The position will be based in Dun Laoghaire, Ireland, with both national and international travel required.

Qualifications and Skills Required: Ideally a degree level in Marine Science, Physical Oceanography; Experience in the aquaculture, marine research sector; The ability to sell marine products and services both directly to customers as well as through a network of worldwide representatives would be an advantage; Excellent verbal and written skills essential; The ability to demonstrate strong interpersonal skills and to be able to communicate technically are important; Being an innovative thinker and a self-starter; Full clean drivers license essential.

If you are interested in either of these positions please send your CV to Charlotte O'Kelly at [info@techworks.ie](mailto:info@techworks.ie) or email [info@techworks.ie](mailto:info@techworks.ie). More information on TechWorks Marine can be seen at [www.techworks.ie](http://www.techworks.ie)