

# oceanbuzz!

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

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## **1. GENERAL OCEAN NEWS**

### **1.a) TRELLEBORG MARINE SYSTEMS BESPOKE TECHNOLOGIES WIN DEEP SEA CONTAINER PORT CONTRACT**

Trelleborg Marine Systems has been awarded a contract to supply a bespoke solution of 86 super cone fender systems, 59 mooring bollards with a 200 tonne capacity, and 41 safety ladders for a UK deep sea container port, after carrying out an in-depth analysis of vessel data and berthing speeds.

On the completion of this analysis, Trelleborg was able to recommend its high-performance Super Cone fenders. The conical body shape makes the Super Cone stable even at large compression angles and provides excellent shear resistance. Trelleborg designed the fenders for this port to accommodate berthing angles up to 10°, bow flare angles up to 15° and for the latest generation of container vessels with a displacement of 225,000 tons.

The first fenders for the container terminal are scheduled for delivery early in 2012, with the contract scheduled for completion by the end of 2013. For further information please visit

[www.trelleborg.com/marine](http://www.trelleborg.com/marine)

### **1.b) HYDROID AWARDED CONTRACT FROM UK MINISTRY OF DEFENCE FOR UPGRADES TO REMUS AUVS**

Hydroid, Inc., a subsidiary of Kongsberg Maritime, a leading manufacturer of Autonomous Underwater Vehicles (AUVs), recently announced that it has received a contract to deliver upgrades to the United Kingdom Ministry of Defence's current fleet of REMUS 100 vehicles. BlueView Technologies 3D MicroBathymetry systems and GeoAcoustics GeoSwath interferometric sonar will now be integrated with the vehicles, ensuring greater capabilities for the Royal Navy's mine clearance and hydrographic operations. The vehicles will also be fitted with modular endcaps and digital ultra-short baseline (USBL) acoustic positioning systems. Some of the fleet's twelve REMUS 100 vehicles will be equipped with Inertial Navigation Systems as well.

Hydroid's REMUS AUVs are modular and may be fitted with a large number of different types of sensors to meet the customer's needs. In this case, the BlueView systems will provide high resolution 2D and 3D imagery in the region directly below the AUV – an area that often has a coverage gap which requires overlapping passes in order to cover the survey region. The 3D MicroBathymetry will fill that gap and eliminate the need for any overlapping passes.

The Ministry of Defence's current fleet of REMUS 100 vehicles has been in operation since March 2006. The Royal Navy also employs several REMUS 600 vehicles, which play a primary role in mine reconnaissance and also conduct hydrographic surveys and environmental assessments. The combined vehicles have provided reliable and proven capabilities for the Royal Navy's underwater search and survey operations.

For more information please visit [www.hydroid.com](http://www.hydroid.com) or [www.km.kongsberg.com](http://www.km.kongsberg.com)

### **1.c) NASNET® COMPLETES SUCCESSFUL SYSTEM TRIALS OFFSHORE GREENLAND FOR CAIRN ENERGY**

Nautronix has conducted a successful trial of NASNet® for Cairn Energy, offshore Greenland, proving the viability of NASNet® and the Nautronix ADS<sup>2</sup> signalling technology capabilities in a harsh environment. The NASNet® system was deployed from the AHTS Siem Aquamarine in approximately 300msw and during the deployment various acoustic communication and positioning tasks were undertaken to demonstrate the capabilities of the system.

Cairn Energy wished to trial alternative acoustic systems at similar depths and environmental conditions to assess communications. No system acoustic communication issues were experienced at any point during the trial throughout the entire water column using NASNet®. The success of the trials ably demonstrated the advanced Nautronix ADS<sup>2</sup> signalling capabilities to provide a reliable and robust communication capability in the harshest of environments.

For more information please contact Rebecca Christie [rebecca.christie@nautronix.co.uk](mailto:rebecca.christie@nautronix.co.uk)

### **1.d)NEW TRITEX MULTIGAUGE 4000 ROV METAL THICKNESS GAUGE**

Tritex NDT Ltd have upgraded their Multigauche 4000 Series ROV Thickness Gauges for mounting onto most work class ROV's. The range includes the Multigauche 4100 and Multigauche 4400 which are for use in depths of 1000m and 4000m respectively. The Multigauche 4100 is now made from Acetal and the Multigauche 4400 from Titanium for extra durability.

The gauges are used for inspecting metal thickness to check for corrosion in pipelines, pilings, ship's hulls and subsea structures without the need for using divers. They use Multiple Echo to ensure coatings do not have to be removed, only the metal substrate is measured. Additionally, they have Intelligent Probe Recognition (IPR) and Automatic Measurement Verification System (AMVS). For further information please go to [www.tritexndt.com](http://www.tritexndt.com)

### **1.e)TRIAXYS™ WAVE SENSOR AUGMENTS MARINE OBSERVING PROGRAM IN AUSTRALIA**

AXYS Technologies Inc. (AXYS), together with its Australian representative Metocean Services International Pty Ltd, have recently supplied Commonwealth Scientific and Industrial Research Organization (CSIRO) with a TRIAXYS™ Sensor to be used as part of Australia's Integrated Marine Observing System (IMOS).

The TRIAXYS sensor is installed on the Southern Ocean Flux Station Weather Buoy, designed by the Woods Hole Oceanographic Institute (WHOI), located at -46.915; 142.217, south of Tasmania, in 4,323 metres of water. The weather buoy was recovered in June 2011, retrofitted and upgraded to include the TRIAXYS wave sensor, and redeployed in late November, 2011. The TRIAXYS sensor gathers and sends directional wave data to IMOS via Iridium satellite telemetry. This wave data, along with other oceanographic and meteorological data, is available on the IMOS Ocean Portal website <http://imos.aodn.org.au/webportal> and is important in the development of a Southern Ocean climate record as well as for improving marine weather forecasting.

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

### **1.f)BLUEVIEW SECURES INTEGRATION AGREEMENT WITH OUTLAND TECHNOLOGY, INC.**

BlueView Technologies, a world leader in compact acoustic imaging and measurement technology, and Outland Technology, Inc., a ROV manufacturer in Slidell, Louisiana with a combined 60+ years in Electronics and Undersea work signed a Systems Integrator Agreement that enables Outland to re-sell BlueView 2D and 3D products on Outland Remotely Operated Vehicles (ROVs). Outland has a long history of designing and manufacturing a broad range of high quality underwater video and audio products using high volume components adapted for specific applications. BlueView's compact, real-time multibeam imaging sonar systems will expand Outland's ROV capabilities by enhancing low and zero visibility operations.

For more information please visit [www.blueview.com](http://www.blueview.com)

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

### **2.a)CHALLENGER WIND WAVES SPECIAL INTEREST GROUP**

Date: Thursday 22 March 2012

Venue: National Oceanography Centre, Liverpool

This is the first annual meeting of the recently formed Challenger Society Special Interest Group on Ocean Wind Waves. The group aims to bring together scientists, engineers and modellers from across the UK, interested in observing, modelling and forecasting ocean surface waves generated by winds. Ocean wind waves and swell are important for many aspects of oceanography and other disciplines, including meteorology, sediment transport, renewable energy and coastal engineering. Waves have direct societal implications for safe navigation, coastal erosion and flooding, as well as for climate and ocean circulation

problems through their role in mediating exchanges of momentum, heat, water, gases and other quantities between the ocean and the atmosphere.

Abstracts for oral or poster papers at this meeting should be submitted by email to [cg1@noc.ac.uk](mailto:cg1@noc.ac.uk) and [jaw@noc.ac.uk](mailto:jaw@noc.ac.uk). Abstracts should be no more than 500 words and should not contain images. Please email your abstract as a Word file, indicating any preference for oral or poster presentation. The abstract deadline is Friday 10 February 2012.

Please register for this meeting by emailing Jingbo He ([jhe@noc.ac.uk](mailto:jhe@noc.ac.uk)) who can advise also on travel and accommodation. The meeting will run from 10:00 to 5:00 pm in Lecture Theatre L3, on the 1st floor of the University of Liverpool Duncan Building. Coffee, lunch and tea will be provided. There are no registration fees for Challenger Society members. Non-members are asked to pay £30 to contribute to the cost of the meeting. Details about Challenger Society membership are available at: [http://www.challenger-society.org.uk/the\\_society/membership](http://www.challenger-society.org.uk/the_society/membership)

## **2.b)MARINE MEASUREMENT FORUM NUMBER 50 – 12 JUNE 2012**

The next Marine Measurement Forum (MMF) will be number 50 in the series. To celebrate the milestone, the MMF Steering Group has announced that MMF50 will be held on Tuesday 12th June 2012 within the prestigious Princess Royal Gallery at the National Museum of the Royal Navy in Portsmouth Historic Dockyard.

The Marine Measurement Forum is a one day, non-profit making event that provides opportunities for the exchange of ideas, knowledge, techniques and developments across an extensive range of marine scientific measurement activities. The series has now operated over 30 years.

The theme of MMF50 will combine anecdotal reviews of progress in “measuring in the marine environment” over that period with crystal ball gazing towards the next 30 years. In amongst there will also be consideration of the status quo and a specially themed presentation from a Royal Naval Museum expert. The programme will be announced via this newsletter, in the next edition of International Ocean Systems journal, on the MMF website at [www.mmf-uk.org](http://www.mmf-uk.org)

## **2.c)WORLD OCEAN COUNCIL INVITED TO JOIN U.N. SECRETARY GENERAL’S EXPERT GROUP ON OCEANS**

WOC participation in the U.N. Secretary General’s five-person ocean expert group creates an exceptional opportunity for the ocean business community to help shape international efforts to address ocean sustainability.

The oceans have been declared as one of 8 thematic priorities for “Rio + 20” – the U.N. Conference on Sustainable Development taking place in Rio de Janeiro in June 2012. The U.N. Secretary General’s ocean expert group will develop an Oceans Compact for consideration as U.N. input to the conference. In addition to private sector involvement via the WOC Executive Director, the four other experts in the group represent government, academic and non-government organizations.

The objective of the Oceans Compact is to build a framework to advance political and pragmatic policies and actions to address the most pressing issues regarding sustainable management of oceans. The compact is to highlight the major challenges facing oceans - such as overfishing, pollution, and the management of ocean ecosystems beyond national jurisdictions - and propose actions to redress these challenges.

Ocean industries have a significant opportunity to advance their leadership and collaboration in Corporate Ocean Responsibility by working with and through the WOC to provide input to the Oceans Compact and Rio + 20. For more information please visit [www.oceancouncil.org](http://www.oceancouncil.org)

## **2.d)PRINCIPAL SPEAKER ANNOUNCED FOR IMarEST’S 109TH ANNUAL DINNER**

Event: IMarEST 109th Annual Dinner

Date: Friday 9 March 2012

Venue: The Grange St Paul’s Hotel, City of London

Captain Stephen Clinch, Chief Inspector at the Marine Accident Investigation Branch (MAIB), will be the Principal Guest and speaker at the 109th Annual Dinner of the Institute of Marine Engineering, Science and Technology (IMarEST). The dinner, being held on Friday 9 March 2012, will be hosted by IMarEST's incoming President, Malcolm Vincent CEng CMarEng FIMarEST, at The Grange St Paul's Hotel in the heart of the City of London, the area which has played host to IMarEST throughout the major part of its long history.

Established in London, just over the boundary of the City of London in Whitechapel, the IMarEST is a leading international membership body and learned society for marine professionals, with over 15,000 members worldwide. It has an extensive marine network of 50 international branches, affiliations with major marine societies around the world, representation on the key marine technical committees and non-governmental status at the International Maritime Organization (IMO). Further information is also available at [www.imarest.org](http://www.imarest.org)

### **3. JOB POSTINGS**

#### **3.a) SEEBYTE ARE LOOKING TO FILL A SENIOR JAVA SOFTWARE ENGINEER POST**

SeeByte creates the world's most advanced smart software for the latest generation of unmanned underwater vehicles, including autonomous underwater vehicles (AUV) and remotely operated vehicles (ROV) for the military and offshore sectors. SeeByte also work in the Renewable Energy market providing autonomous diagnostic tools. Beyond visualisation and automation, SeeByte systems extract information to create awareness, which can be used to reason intuitively and autonomously. These technology and deployment capabilities make SeeByte-enabled remote machines more productive, safe and reliable; operational performance is significantly enhanced at a reduced cost.

SeeByte are looking to fill a Senior Java Software Engineer post, based in Edinburgh to be filled immediately:

The successful candidate will be required to:

- Work as a member of a team of developers in the design, development and testing of software.
- Follow industry best practices and standards, complying with specifications provided.
- Follow processes and procedures as communicated by the Development Manager and/or Project Manager.
- Ability to work within small engineering teams.

Academic Qualifications / Experience

- Good degree (1st /2.1 Hons or equivalent) in Software Engineering, Computer Science or similar numerate discipline.
- Practical experience in Java Swing programming or Linux or Windows systems (useful to have).

Essential Technical Skills

Demonstrable experience in:

- Java
- Swing
- GUI

General Skills

- Excellent inter-personal/communications skills.
- Excellent organisational skills.
- Confident working in a small company environment.
- Comfortable working with external clients.
- Dependable when working under tight deadlines.
- Willingness to travel abroad and take part in tests and trials

Please send all application to [hr@seebyte.com](mailto:hr@seebyte.com) by 31/01/2012

#### **3.b) TECHNICAL SALES ADVISOR**

Applied Acoustic Engineering (AAE) is an award winning manufacturer of hydroacoustic products with a reputation for quality, innovation and customer care. Due to the strategic and continued expansion of the

company, we have an exciting opportunity for an experienced sales professional to join our existing sales team.

Reporting to the Sales Manager, this full time position will be based in the company's Great Yarmouth head office but will involve a degree of foreign and domestic travel.

#### Responsibilities

- Generating and converting sales leads
- Identifying and exploring new markets and opportunities
- Preparing quotations and proposals
- Preparing and giving presentations
- Attending and participating in trade shows and conferences
- Accompanying technical staff on trials and demonstrations
- Visiting existing and potential clients domestically and internationally
- Maintaining accurate client records
- Producing forecasts and reports for senior management

#### Requirements

- Five years previous experience in a technical sales role
- Knowledge of the offshore/marine industry
- Educated to degree level
- High standard of written and spoken English
- Computer literate, familiar with MS Office applications
- Ability to travel domestically and internationally, estimated 80 days per year
- Knowledge of subsea geophysical surveying and /or subsea acoustics an advantage
- Ability to work independently and as part of a team
- International sales experience an advantage

Interested applicants should forward their CV and covering letter to the Personnel Manager at [careers@appliedacoustics.com](mailto:careers@appliedacoustics.com) quoting TSA1 in the subject box. Further details of this position can be found on our website [www.appliedacoustics.com](http://www.appliedacoustics.com) Closing date for applications February 3rd 2012.