

oceanbuzz!

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

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1. OCEAN BUSINESS NEWS

1.a) EQUIPMENT FOR ALL ON THE RS AQUA BOOTH

Ocean equipment distributors RS Aqua Ltd will be collaborating with several manufacturers to display a comprehensive selection of oceanographic research and monitoring equipment on booth # F1 at the Ocean Business show.

Of specific note are the new Fiobuoy mooring security system which will be demonstrated in the NOC test tank on Wednesday morning, the "Baby Waverider" from Datawell bv, the HydroC underwater gas sensor from Contros and the SeaGuard range from Aanderaa.

For more information contact Roger Scrivens, RS Aqua Ltd email: r.scrivens@rsaqua.co.uk

1.b) CURRENT PROFILER BOOST FOR PORTS AND TERMINALS

Many new oceanographic product developments have emerged from the Bergen base of Aanderaa Data Instruments (AADI) over the last two years.

Of significant note is the expanding usage of the *RDCP600* Doppler current profiler for ship berthing applications. A unique surface tracking feature, whereby vertical measuring zones (bins) can always be referenced to height below the surface, makes the *RDCP600* the perfect tool for port, terminal and dockyard type installations where reference to vessel draft is essential.

In support of the *RDCP600*, but also applicable to other AADI products such as the *Seaguard RCM* single point current meter, is new browser based, real-time *Data Display Software* which provides the data user with a complete picture of the tidal current status along with third party information if required.

The AADI *Optode* Dissolved Oxygen sensor which has found enormous favour with ocean researchers, water producers and aqua culturists alike, is now available in a fast response version.

At Ocean Business 2009 Aanderaa will host a vessel based deployment demonstration of the *Seaguard RCM* on the Wednesday morning, and will hold classroom based workshops on their new Wave and Tide sensor (Tuesday), SeaGuard & Smart sensors (Weds) and their Met-Hydro Databuoy (Thurs).

For more information contact Roger Scrivens, RS Aqua Ltd email: r.scrivens@rsaqua.co.uk.

1.c) CHELSEA TECHNOLOGIES GROUP WILL BE DEMONSTRATING THE NEW FAST^{PRO} SOFTWARE AND FAST^{ACT} SYSTEM

At Ocean Business 31 March – 2 April 09, Southampton UK, Chelsea Technologies Group will be demonstrating the new FAST^{pro} software and FAST^{act} system, which are specifically designed to improve usability and extend functionality of the existing FAST^{tracka} II sensor. In combination, FAST^{pro}, FAST^{act} and the FAST^{tracka} II provide an amazingly versatile Fast Repetition Rate Fluorometer (FRRF) system, which can be used in the laboratory, on the deck of a ship or underwater, taking measurements from discrete samples, dark chamber or open water.

Chelsea invites you to a **FREE** training session at Ocean Business to learn more about these exciting new developments.

Register today for a **FREE** training session at **Ocean Business 2009**, The ocean technology training and procurement forum, Southampton, UK 31 March - 2 April 2009. www.chelsea.co.uk/oceanbusiness2009

1.d) NEW MONITORING TECHNOLOGIES AT OCEAN BUSINESS 2009

Highly advanced monitoring instrumentation will be the theme for YSI's participation at 'Ocean Business 2009' in Southampton, 31st March to 2nd April 2009. The company will demonstrate two revolutionary technologies; the 'EcoMapper' a remote control underwater vehicle for plotting water quality over wide areas and a multiparameter monitoring platform that has been developed as part of two EU funded research projects.

The 'EcoMapper' is a unique remote monitoring system which only requires one person to deploy and retrieve, has integrated water quality sensors, intuitive mission planning software, and weighs less than 21Kg. It is ideal for routine mapping of lakes, reservoirs, rivers, estuaries and near-coastal environments.

The EcoMapper dataset is also unique, offering extremely high spatial resolution of the key physicochemical water quality parameters in addition to chlorophyll and blue-green algae fluorometers, a depth sounder and optional side-scan sonar. Typical vehicle speeds are 2-4 knots and mission times can range up to 10 hours, providing detailed maps of water quality and bathymetry.

'WARMER' and 'InterRisk' are two research projects that, driven by the Water Framework Directive, have developed multiparameter water quality and flow data collection platforms that transmit data via satellite to improve risk management for accidental spills, algal blooms and other marine pollution events. YSI has been heavily involved in this work and will demonstrate the monitoring platform during a workshop organised by the two projects. The workshop will take place on 30th March immediately prior to the Ocean Business 2009 event - delegate places are limited to 75 and will be allocated on a first-come, first-served basis to those that register by sending their contact details to europa@ysi.com.

YSI will also display a wide range of portable, fixed and buoy mounted water monitors on stand T2 at the Ocean Business event.

For further information, please contact: Email. europa@ysi.com Web www.ysihydrodata.com

1.e) "FIOBUOY" UNDERWATER SECURITY SYSTEM PROTECTS SEABED ASSETS

This exciting new mooring security system hit the European market during late 2008 when manufacturer Fiomarine Ltd, based in Tasmania, launched their Fiobuoy via a distribution deal with UK based RS Aqua Ltd. Fiobuoy is an innovative piece of marine equipment. It will conceal and secure underwater assets whilst simultaneously achieving simple and safe retrieval on demand.

Starting out as an inventor's solution to the problems caused by surface marker buoys, Fiobuoy was quickly taken on-board by the US and Australian navies as an ideal tool in mine warfare training activities since when it markets have developed in coastal survey, fish farming and port & harbour activities.

Fiobuoy is deployed with the host asset and releases to the surface on demand trailing a recovery line enabling simple retrieval of all seabed components without any need for diver intervention.

For more information contact Roger Scrivens, RS Aqua Ltd email: r.scrivens@rsaqua.co.uk

2. GENERAL OCEAN NEWS

2.a) WRECK OF 19TH CENTURY STEAMSHIP IDENTIFIED IN THE ATLANTIC

The wreck of the 19th century British steamship Newcastle City located in the Atlantic Ocean in August of this year has been positively identified. An exploration team from Quest Marine Services led by Captain Eric Takakjian located the remains of the shipwreck on August 24th in the Atlantic Ocean South of Nantucket Island. Follow up dives conducted by the team over this past weekend confirmed the identity of the wreck as that of the British steamship SS Newcastle City.

The Newcastle City was lost on a voyage from South Shields England to New York with a general cargo that included several tons of antimony ingots. During the early morning hours of December 23rd 1887, the ship struck an uncharted shoal South of Nantucket Island, severely damaging the ships hull. The ship slowly filled with water and sank several hours later. After an arduous row of over six hours, the entire crew of 26 and one lone passenger reached safety aboard the Nantucket Lightship, where they remained for two weeks until being brought ashore by the lighthouse tender Verbena.

The Newcastle City was a transitional type passenger / cargo steamship built in Newcastle England in 1882. Although powered by a compound steam engine the iron hulled ship was also rigged as a brigantine. This was a common practice during the time when steam was replacing sail as the primary means of motive power for ships in the late 1800's.

The wreck was located after several years of historical research followed by field investigations during the 2006 and 2007 seasons. Several interesting sonar targets were identified late in 2007, one of which appeared to be a likely target for the Newcastle City. Dives conducted on the suspected sonar target on August 24th of this year confirmed the target to be that of the wreck of an iron hulled steamship slightly less than 300' in length. The wreck lies on a white sand bottom with the hull largely collapsed, although portions of the bow and stern are somewhat intact. Two large boilers and a two cylinder compound steam engine are prominent features rising 15' off the sea floor amidships. The wreck is a complete time capsule from the 19th century when iron hull construction and steam propulsion were surpassing wood and sail as the means to move the worlds commerce. The wreck site is littered with artefacts from the period both from the ship itself and the cargo. Deadeyes from the ships rigging are intermingled with steam fittings. A rare Trotman anchor stands 8' off the seabed at the bow, with an equally rare Porter anchor lying nearby. At the stern a huge pile of antimony ingots polished by the sand and swift currents glitter like silver bars.

Follow up dives conducted at the site on October 11th and 12th for the purpose of gaining photographs and additional information about the wreck site. Measurements taken on the ships steam engine match exactly the specifications for the Newcastle City's machinery listed in Lloyds Register of Shipping. The ships helm was also located with the words "NEWCASTLE CITY LIVERPOOLE" engraved in the face of the wheel.

The exploration team working from the research vessel Quest included; captain Eric Takakjian, Steve Gatto, Tom Packer, Patrick Rooney, David Morton, Tom Mulloy, Michael Dudas and Joseph Mazraani

Further inquiries may be directed to: Eric J. Takakjian rvquest@comcast.net

2.b) IXSEA LLC OPENS ITS DOORS IN DUBAI

There's further expansion for IXSEA as it opens a new office in Dubai, United Arab Emirates. IXSEA LLC will support the offshore industry in the entire Middle-East region from Egypt to Azerbaijan.

"While IXSEA has been present in Dubai for the past three years, the opening of a new office underlines our commitment to our customers in the Middle-East region," said Jean-Marc Binois, Area Sales Manager, IXSEA.

IXSEA's address in Dubai: Gulf Business Center Sheikh Zayed Road P.O. BOX 62425, Dubai, United Arab Emirates Tel. +971 4 3117135, Fax +971 4 3328860

2.c) GRL OPENS ROV PILOT SUPPORT AND ASSESSMENT CENTRE

General Robotics Limited, a supplier of subsea simulation and visualisation software, has opened a ROV pilot support and assessment centre in Aberdeen, intended to help both individual pilots and ROV operators extend and evaluate piloting skills.

Carrying out objective assessments to consistent standards of inexperienced applicants for ROV Pilot/Technician training, and experienced contract hire pilots before they go offshore, is extremely difficult. GRL with the assistance of veteran ROV pilots and trainers has developed Assessment Metrics software which used with a ROVolution simulator, objectively assesses a pilot's performance of key ROV flight manoeuvres such as maintaining a flight path and tether management. The software also evaluates core competencies, like the use of navigation aids, spatial awareness and time keeping.

ROV pilots at all levels must be at their best every time they take the controls, they are required to undertake more difficult tasks in ever deeper waters and with increasingly complex arrangements of equipment, cabling and vessels in the water at the same time. With a Work Class ROV costing upwards of £1.5m and ROV vessel day-rates in excess of £45,000, pilots and their employers are under unremitting pressure to perform.

A regular problem for trainee pilots is the lack of opportunity for hands on experience. The Centre offers preconfigured scenarios running on GRL's simulators from basic offshore tasks to the most complex subsea interventions. Coupled with GRL's model and simulation building services the centre can also play host to Pilot/Technicians familiarising themselves and rehearsing their next mission before going offshore.

GRL can speedily and cost-effectively turn clients' inanimate subsea field and site engineering drawings into 3D models that are then pulled into the simulator's scenario library. Pilots can call up the scenario and fly a mission. They can use the assessment tools and metrics to monitor their performance improvements as they familiarise themselves with the mission, the subsea site and the intervention tasks they are to perform.

"Simulator based training is becoming more and more a part of pilots' lives, whether they are newcomers learning the ropes from scratch or veteran pilots familiarising themselves with their next offshore mission," said Miller Crockart Head of Business Development at GRL. "We have designed a Pilot Training Metrics tool that allows the pilot and their trainer to analyse performance, so they can pinpoint where a pilot needs additional training or support. Pilot Metrics can show, for example, when a pilot needs help improving their tether management skills or on how to optimise their retention of a heading. Pilot Metrics allows the user to analyse a ROV flight in a way I believe has not been available before, and which will help the continuing drive to improve efficiency and performance, and allow training to be targeted on the needs of individual pilots. It also means pilots will be able to obtain objective feedback and benchmark their improvement over time".

Well prepared pilots will be less stressed in 'the chair' and perform to the best of their abilities, confident in the knowledge they already have an appreciation of what they will face once offshore. With comprehensive training, employers will see the risk of offshore mission failure reduce and subsea intervention times come down. Employee relations should also improve as pilots see their employer investing in developing their skills.

Founded in 1988, GRL is the world leader in developing customised, subsea simulation products primarily for the offshore oil industry.

Further information from: www.generalrobotics.co.uk

2.d) INNOVA AS OF NORWAY DELIVERS HIGH SPECIFICATION HYDRAULIC VALVE PACKS TO SEABED RIG AS

Seabed Rig AS is developing a sea bed drilling rig to carry out drilling from a location at the sea bed. Innova has custom designed and manufactured two hydraulic valve packs that will be mounted onto Seabed Rigs newly developed underwater roughneck.

The two valve packs includes a total of 20 pressure sensors, 6 flow meters, and 17 valves; most of these proportionally controlled.

The Innova solutions was chosen based on a very compact design and the company's long track record in underwater hydraulics, with a long series of new designs developed through the last 10 years. The different solutions developed includes designs for proportional control of flows less than 0,1 litres per minute; and up to 350 litres per minute for each function.

Both valve packs are equipped with pressure compensated electronics to enable serial control, using Innovas PWM 16 controller. These control components are in use in all types of underwater application worldwide, and has now exceeded 250 units.

The development is supported by StatoilHydro, the Norwegian Research Council (Petromaks and DEMO2000) and Innovasjon Norge.

For more information visit www.innova or www.seabedrig.com

2.f) FARFOUNDER ANNOUNCES THE INTRODUCTION OF THE FS-3DT BISTATIC 3D FORWARD LOOKING SONAR

FarSounder announces the introduction of the FS-3DT Bistatic 3D Forward Looking Sonar. The FS-3DT Bistatic sonar is a quantum leap in design to mount the transmitter and receiver in separate, but smaller, form factor modules.

“Listening to our customers over the years, this concept is something that we have been contemplating for quite a while,” explains Matthew Zimmerman, VP Engineering. “Hydrodynamics can be a major consideration for some vessels, such as high speed catamarans, and very fine line motor and sailing yachts. These new modules will have a significant impact for such streamlined vessels,” continued Zimmerman.

Separation of the modules can be horizontal or vertical allowing greater installation flexibility, for example with a catamaran, one module could be placed in each hull. “The FS-3DT has become the benchmark for Forward Looking Sonars,” says Ian Bowles, VP Sales & Marketing, “and this new design allows a greater range of vessel types to be able to take advantage of it”.

Traditionally used on commercial and private ships for obstacle avoidance and shallow water navigation, FarSounder FS-3 sonars with patented technology are capable of generating a complete 3 Dimensional image of the sea floor and in-water objects at navigationally significant ranges with a single ping. With a 60° to 90° Field of View, underwater obstacles and various "in water" targets such as whales, floating containers or other similar hazards are easily detected, and shown on a unique 3 Dimensional display. This same technology is easily adaptable to a range of other underwater security applications such as vessel or port perimeter surveillance, diver detection and ROV/AUVs.

FarSounder is a US based high technology marine electronics manufacturer specializing in underwater acoustics. With unique patented technology, the Company has a global customer base of commercial, government and private sector users served by over 40 sales and service partners around the world.

For more information Tel: +1 401 784 6700, Fax: +1 401.784.6708 or email: info@farsounder.com

2.g) VERIPOS EXTENDS NORTH AMERICAN & FAR EAST POSITIONING NETWORKS

Worldwide GNSS precise positioning specialist Veripos of Aberdeen has further extended its North American and Far East multi-source regional networks with the establishment of new reference station facilities in Fairbanks, Alaska and Seoul, South Korea.

Both stations have been commissioned in response to increased demand from leading operators of 3D seismic and survey vessels and their attendant requirement for seamless fully-redundant positioning support which also provides options for decimetre-level accuracies based on Veripos' own Precise Point Positioning (PPP) solutions. The regions concerned are expected to see important field development activities in the future involving construction and associated field support vessels.

Establishment of the new stations, says Veripos Technical Director Bobby Johnson, represents further consolidation of the Company's worldwide GNSS positioning network covering all regional sectors of offshore interest. Similar network extensions are also due to become operational in Africa and elsewhere in the near future, he adds.

Veripos is at www.veripos.com

3. WHO'S ON THE MOVE

3.a) WFS ANNOUNCES THE APPOINTMENT OF WILLIAM PORTER AS PRESIDENT & CEO OF WFS DEFENSE, INC.,

With responsibility for WFS's Defense and Homeland Security activities in the United States. WFS Defense is a U.S. owned subsidiary of WFS Subsea, and was created to allow WFS to deliver innovative, cost-effective wireless communications and telemetry solutions directly to U.S programs at all levels of security classification.

Brendan Hyland, Chairman of WFS Ltd, stated: “We are very pleased William has joined the WFS team. He brings to us many years of experience and leadership in the U.S. Navy, both as a submarine Commanding Officer and as a Navy Major Program Manager. He has deep knowledge and understanding of the national security customer's needs and the DOD acquisition process. We understand the need to create.

WFS Defense as a company that will be able to operate freely in the U.S. Defense and Homeland Security markets."Mr. Porter spent 28 years in the US Navy, rising to Commanding Officer of USS Nebraska (SSBN-739). He was the NAVSEA Program Manager for Strategic and Attack Submarines (PMS 392), and most recently Senior Military Assistant to the Under Secretary of Defense for Acquisition, Technology and Logistics. After leaving the DoD in 2007, he was Director of Operations at McAleese & Assoc, specializing in defense program analysis.

Mr. Porter received a BS in Chemical Engineering from Cornell University, a MS in Engineering Management from Catholic University, and an International Executive MBA from Georgetown University. He also attended the National Security Management Course at Syracuse University.

WFS Defense's US office is located minutes from the Pentagon and Washington, DC, in Alexandria, Virginia. Phone: +1 703-229-3121 Mailing address: Email: William.Porter@wfsdefense.com

4.EVENT, TRAINING & DEMONSTRATION NEWS

4.a) SUT'S NEXT ABERDEEN EVENING MEETING WILL BE HELD ON WEDNESDAY 11 MARCH 2009

SUT's next Aberdeen Evening Meeting will be held on Wednesday, 11 March 2009 at the Hilton Treetops Hotel. They are repeating the very successful "Subsea Gadgets and Widgets formula and you are invited to submit an application that can be considered for a 10 minute presentation slot to tell an enthusiastic and knowledgeable audience all about your latest innovations.

The technology you want to present must be relevant to the subsea community and must not be commercially slanted - there are other opportunities for that, please see below.

Please submit your abstract for consideration to our event organisers, who are: Jim Mann - email j.mann@fugro.com Alistair Birnie - alistair.birnie@subseauk.com Michele Ross - michele.ross@sut.org

These should be submitted as soon as possible, but no later than 17 February 2009 in order that they can select the most appropriate abstracts and to maximise the publicity for the event.

Of course there is no such thing as a free meal and the successful applicants will be asked to co-sponsor the event to help the Society defray its costs and ensure they keep the attendance numbers up - the cost of the co-sponsorship will be minimal. On the night, the successful applicants will also be allowed to put up small poster/banner material and distribute any appropriate literature - make the sales pitch as part of the networking element.

To submit please contact; Michele Ross, Events Manager SUT Innovation Centre, Exploration Drive Bridge of Don, Aberdeen AB23 8GX Tel: +44 (0)1224 823637 Email: michele.ross@sut.org www.sut.org

4.b) IMCA SAFETY SEMINAR HEALTH, SAFETY AND THE ENVIRONMENT 11-12 MARCH 2009 MINUTE MAID PARK, HOUSTON, USA

Covering the Global HSE Bases' held together with the Gulf Coast Safety and Training Group
Dates: 11-12 March 2009 Venue: Minute Maid Park, Houston, USA Information: www.imca-int.com/events/safety/

HEALTH, SAFETY AND THE ENVIRONMENT TO THE FORE AT IMCA/GCSTG HOUSTON CONFERENCE

Offshore health, safety and the environment come under the conference spotlight when the 8th International Marine Contractors Association (IMCA) annual safety seminar takes place 11-12 March 2009 at the Minute Maid Park, Houston, USA - home of the Houston Astros baseball team. With its theme 'Covering the Global HSE Bases', the two day event features formal presentations; round table discussions; and a safety share fair. Jointly organised with the Gulf Coast Safety and Training Group (GCSTG) the seminar, being held in the USA for the first time, has already attracted in excess of a hundred delegates from 10 countries. "Safety is the foundation on which so much of IMCA's work programme is based, so the annual seminar plays an important role enabling delegates drawn from the membership of

GCSTG as well as our own organisation, to learn from experiences discussed at the seminar; and to influence our ongoing work programme," explains IMCA's Technical Director, Jane Bugler.

Previous safety seminars have been held at sporting stadia in the UK and in The Netherlands. Further details on the event are available at www.imca-int.com/sel/events/ or from events@imca-int.com or IMCA, 5 Lower Belgrave Street, London SW1W 0NR, UK. Tel: +44 (0) 20 7824 5520

5.JOB POSTINGS

5.a) SEEBYTE SEEK BUSINESS DEVELOPMENT MANAGER TO FURTHER DEVELOP ITS OFFSHORE BUSINESS

SeeByte offers challenging work at the forefront of innovation. Our software products are used worldwide to help our customers become more effective in their operations. Our staff have the opportunity to travel far and wide and become involved in world record breaking projects. SeeByte is currently recruiting for a **Business Development Manager** to further develop its Offshore Business and help maintain SeeByte's reputation as a leading software house.

The successful candidate will manage the relationships with SeeByte's customers in the offshore sector across all geographies and must be ready to represent SeeByte at key industry events. Offshore industry knowledge and experience are essential requisites. Candidates must be confident working in a small company environment, have a high level of self-motivation and be ready to travel.

Please send your up to date CV and cover letter, including current salary details and notice period, via e-mail to hr@seebyte.com

5.b) INDEPENDENT ENVIRONMENTAL CONSULTANCY SEEKS SENIOR MANAGER

Independent Environmental Consultancy seeks Senior Manager to develop services related to marine EIA's and consenting, for major infrastructure projects.

Principal tasks include management of projects from proposal to invoicing, client liaison to identify needs, ensuring client satisfaction, preparation of technical deliverables, securing new business, development of new 'best practice'. Use of technical expertise, provision of technical and commercial coaching for junior colleagues, line management to the Environmental Assurance Team.

Monitoring of performance, contribute to the growth of the Team, attracting and retaining new candidates. Oil and gas industry professional, with environmental expertise in the UKCS areas, with the ability/experience to manage environmental projects, risk assessment and who wishes to be part of a growing environmental consultancy.

Select and manage multi-disciplined teams, for projects such as Marine EIA, Environmental Statements and Petroleum Operations Notices, Baseline Surveys, Oil Pollution Emergency Plans, Environmental Risk Identification, PPC/OPPC applications.

Relevant technical / environmental Degree, 10 years experience of environmental risk and impact consultancy, particularly in the marine and coastal environments. HSE and UKCS project/program management, management of proposals/quotes, strong project management experience in marine and coastal markets, understanding/appreciation/experience of environmental issues and legislation essential, resource management experience essential, excellent presentation and communication skills.

Title: Senior Manager, Marine Environmental Consultancy Location: UK – Liphook, Hampshire. Job Status: Permanent Position, Start Date: ASAP, Open To: European Union Citizens or holders of UK work permits. An attractive Salary of £50K-£65K plus benefits is on offer dependent on skills and experience.

To apply contact Working Smart Ltd., International Petroleum Recruitment Consultancy, Email: info@working-smart.co.uk or Tel: +44 (0) 1483 721794 Fax: +44(0) 1483 728833