

# oceanbuzz!

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

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## INDEX

### 1. GENERAL OCEAN NEWS

- a) Government of Canada Invests in R&D Project to Improve Maritime Security
- b) Teledyne RD Instruments Introduces the Citadel CTD Product Line
- c) Odim MVP™ Integrates into Hypack - Hysweep
- d) Latest "Sensors & Systems" Newsletter from Aanderaa Data Instruments
- e) Two Innovative New ROVs Launched By Saab Seaeye
- f) 290 Acoustic Modems Delivered Within 30 days

### 2. EVENT, TRAINING & DEMONSTRATION NEWS

- a) Harris Pye Group Presentation Day, Thursday 8 October 2009, London, UK
- b) 2nd International Remote Ocean Sensing Workshop - ROS 23 – 24 November 2009, Delmenhorst / Bremen, Germany

## 1. GENERAL OCEAN NEWS

### 1.a) GOVERNMENT OF CANADA INVESTS IN R&D PROJECT TO IMPROVE MARITIME SECURITY

Mr. Ed Fast, Member of Parliament for Abbotsford, on behalf of the Honourable Tony Clement, Minister of Industry, has announced significant investments in Canada's aerospace and defence sector by confirming \$200 million in funding for the Strategic Aerospace and Defence Initiative (SADI) and announcing a repayable investment of \$1.8 million in research and development being undertaken by AXYS Technologies Inc.

"These funds will help Canadian companies build on their existing capabilities, diversify into new areas of expertise and develop new products and services," said Mr. Fast. "The SADI investment in AXYS Technologies builds on Canadian expertise in security technologies while helping the company to play a vital role in the growing maritime security market."

The AXYS Technologies' Port Waterside–Communications and Networked Data Unification project will work to collaborate data from various monitoring and surveillance sources to provide comprehensive real-time information. This technology will help defence and security organizations, port operators and other stakeholders to improve maritime security and respond promptly to security incidents such as illegal shipping, discharge of pollutants at sea, oil spills and severe weather threats.

SADI supports strategic industrial research and pre-competitive development projects in the aerospace, defence, space and security industries. SADI is managed by the Industrial Technologies Office, a special operating agency of Industry Canada with a mandate to advance leading-edge research and development by Canadian industries.

For more information about SADI, please visit the Industrial Technologies Office website, <http://ito.ic.gc.ca/>

### 1.b) TELEDYNE RD INSTRUMENTS INTRODUCES THE CITADEL CTD PRODUCT LINE

After over 25 years as a Doppler manufacturer, Teledyne RD Instruments has now stepped outside of this core technology with the introduction of their new Citadel CTD (Conductivity, Temperature, and Depth) product line.

Teledyne RD Instruments (RDI) recently purchased the entire line of Conductivity, Depth, and Temperature (CTD) products from Falmouth Scientific Incorporated (FSI), including the patented Non-eXternal Inductive Cell (NXIC) that has already acquired a solid reputation for robust operation in shallow, fouling environments. This product line delivers exciting and proven technology that is complementary to Teledyne RD Instruments ADCP products. The addition of this product line represents a tremendous opportunity for Teledyne RD Instruments to quickly expand its product offerings and deliver turn-key solutions to its worldwide customer base.

CTDs are used extensively around the globe for the measurement of temperature and salinity, but also for the important derived parameters of density and speed of sound. They are used for academic, commercial and defense applications; and are often used in concert with ADCPs to gain a clearer understanding of the ocean's complex physical environment.

Please contact Teledyne RDI directly for questions, quotes, or assistance. Tel. +1 858 842 2600 or E-mail: [rdisales@teledyne.com](mailto:rdisales@teledyne.com)

### 1.c) ODIM MVP™ INTEGRATES INTO HYPACK – HYSWEEP

ODIM Brooke Ocean has completed a cooperative effort to improve the integration between the ODIM MVP™ (Moving Vessel Profiler) and HYPACK's "HYSWEEP" module for multibeam data collection and processing ([www.hypack.com](http://www.hypack.com)).

The interface enables observed ODIM MVP real-time sound speed profiles to be collected by the HYPACK survey software in AML CALC format. In addition, the ODIM MVP Controller software will be able to collect time and position from HYPACK and integrate this with collected sound speed data. The enhanced integration of the ODIM MVP is part of the HYPACK2009a release and will become a standard feature in future HYSWEEP releases.

Mr. Mark Smith, Manager of ODIM's After Sales & Service, says "while customers have always been able to transfer MVP sound speed profiles into HYPACK, this interface facilitates a more seamless and transparent process that will enable HYPACK / ODIM MVP users to have a more cost effective operation".

For further information visit [www.brooke-ocean.com](http://www.brooke-ocean.com) / [www.odim.com](http://www.odim.com).

#### **1.d) LATEST "SENSORS & SYSTEMS" NEWSLETTER FROM AANDERAA DATA INSTRUMENTS**

Issue 24 (Sept 2009) of the Aanderaa Data Instruments (AADI) newsletter is loaded with a wealth of interesting ocean monitoring information according to UK reps RS Aqua Ltd.

Of particular note are articles covering the use of Dissolved Oxygen "Optodes" aboard profiling Argo floats, the new GeoView web based display software, the Seaguard Sensor String for multi-parameter, through water column monitoring, a paper on "Impacts of seafloor respiration on threatened coral reef ecosystems" and new Oil Spill tracking & monitoring equipment. No crossword but, hey, you can't have everything.

To access and download Sensors & Systems # 24, visit [www.rsaqua.co.uk](http://www.rsaqua.co.uk) and view the Latest News item which incorporates a link to a newsletter pdf.

Contact product specialist David Goldsmith at [d.goldsmith@rsaqua.co.uk](mailto:d.goldsmith@rsaqua.co.uk) with any requests for further details and pricing information.

#### **1.e) TWO INNOVATIVE NEW ROVs LAUNCHED BY SAAB SEA EYE**

Two innovative developments in ROV technology were launched by Saab Seaeye at Offshore Europe.

One is a new smart-thinking Cougar-XTi ROV with a depth capability of 3000m and an ingeniously intelligent man/machine interface. In the case of the Cougar-XTi, a clever new design of man/machine interface gives the pilot a much clearer idea of the operational state of the vehicle, including smart fault diagnostics that plainly display the problem and the remedial action to be taken – thereby eliminating the need for the pilot to interpret fault data.

The other a powerful new Panther-XT Plus ROV that is probably the fastest swimming work ROV in the world. At over four knots, the Panther-XT Plus stands apart from other work ROVs. Its ten SM7 thrusters not only power the ROV along, but hold the vehicle steady in strong currents during work and observation tasks. With a new design of front end and fitted with Schilling Orion manipulators, the Panther-XT Plus boasts a power to weight ratio more than twice that of its competitors. This latest version of the very successful Panther series gives ROV operators a vehicle unrivalled for handling a wide range of work tasks in a compact light-weight package.

Both the Cougar-XTi and the Panther-XT Plus open up new markets for Saab Seaeye, already one of the world's leading manufacturers of electric ROVs. Each offer operators a work system that can be quickly deployed from a small vessel, winning important cost savings in deck space and manpower.

For more information please contact Dave Grant on Tel: +44 (0)1489 898000 or Email: [dgrant@seaeye.com](mailto:dgrant@seaeye.com).

#### **1.f) 290 ACOUSTIC MODEMS DELIVERED WITHIN 30 DAYS**

LinkQuest has been busy producing its industry-leading underwater acoustic modems in the summer of 2009 and has set a company record to ship 290 SoundLink acoustic modems within 30 days. LinkQuest has shipped a large number of long-range deepwater acoustic modems for seabed seismic monitoring applications.

These modems will be used to interface with seismic sensors to monitor offshore oil and gas field reservoirs in large-scale deployments. LinkQuest has also delivered a dozen of UWM4000 modems for communication between surface ship/platform and downhole oilfield tools in offshore oil field projects.

Another dozen of acoustic modems have been shipped with LinkQuest's FlowQuest Acoustic Current Profilers. These modems will be used to periodically upload current ensemble data from the FlowQuest systems without the need to retrieve the FlowQuest systems or monitor the current, tide and wave measurements in real time.

A large number of UWM2000, UWM2000H and UWM4000 modems have also been shipped for AUV high speed data communication, submersible command and control, acoustic uploading and other diverse applications in this period. With overwhelmingly superior field performance, large quantity production consistency and cost effectiveness, LinkQuest further extends its dominance in the underwater acoustic modem market.

For more information please visit [www.link-quest.com](http://www.link-quest.com)

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

### **2.a) HARRIS PYE GROUP PRESENTATION DAY, THURSDAY 8 OCTOBER 2009, LONDON, UK**

A technical forum on the design considerations involved current World Wide Emission Regulations. Harris Pye, London-based presentation day, an open invitation, free to attend.

Operating within a cleaner and greener marine environment poses many challenges for ship managers, owners and operators, all of whom are under constant pressure to keep up with the latest legislation and guidelines on emissions and boiler operations. To help them, the Harris Pye Group, specialists in the field, plans a rewarding and stimulating Presentation Day combining two highly topical issues - low sulphur burners and complying with regulations, and an insight into the latest information on boiler emissions and legislation.

Their free 'open-to-all' Presentation Day will be held at the headquarters of the Institute of Marine Engineering, Science and Technology (IMarEST) at 80 Coleman Street in the City of London on Thursday 8 October (Harris Pye is an IMarEST Marine Partner organisation).

"All are welcome to attend what we believe will be a highly informative day, with plenty of networking opportunities over a buffet lunch," explains Mark Prendergast, Group Managing Director of Harris Pye.

Please contact Alison Beard at Email: [Alison.Beard@harris-pye.com](mailto:Alison.Beard@harris-pye.com) or on Tel: +44 (0)1446 720066 in advance to reserve your space as places will be made available on a first-come-first-served basis.

### **2.b) 2ND INTERNATIONAL REMOTE OCEAN SENSING WORKSHOP - ROS 23 – 24 NOVEMBER 2009, DELMENHORST / BREMEN, GERMANY**

Remote sensing is becoming increasingly important in coastal-zone research and management. A combination of methods including modelling can be used for diverse end-user interests, including; surveillance and monitoring of storm surges, wave action and sediment transportation, addressing extreme coastal events: flood protection, coastal erosion, fluxes and fate of seawater constituents, pollutants, oil spills, hindcast and forecast of hazards and climate change scenarios.

This International Remote Ocean Sensing Workshop will stimulate discussions on innovative research, future needs and emerging applications (renewable energy, environmental observation, modelling & prediction).

Operational and scientific stakeholders will exchange and discuss the following; active and passive methods in all spectral ranges, sensor combinations incl. micro-wave oceanography, ocean optics and acoustic profilers. Satellite, airborne and ground-based methods including "ground truthing". Modelling and validation, e.g. using tsunamis and combined sensing of physical, biological and chemical processes in coastal areas

The venue: Hanse-Wissenschaftskolleg (HWK) Institute for Advanced Study, Lehmkuhlenbusch 4 D-27753 Delmenhorst, Germany Conference Website: [www.h-w-k.de/ROS2009.html](http://www.h-w-k.de/ROS2009.html).