



Newsletter 2/2009

RanidVision - Expert tools for Radiological and Nuclear safety

This year Environics will release a new product family for radiological and nuclear detection and identification – The RanidVision. The RanidVision family consists of high performance RN detectors, which vary from handheld detectors to full radiological reconnaissance vehicles, and online expert database systems. The new modular products enable RN detection for an extremely wide scale of different applications as they can be used either individually or as a part of a larger network. With wireless communications the setup is easy and all the products can be integrated to the Environics EnviScreen CBRN and Environmental Monitoring System.

The RanidVision products are:

- RanidPro100 Handheld or Fixed Radiological and Nuclear detector
- RanidPro200 Portable Radionuclide detector and analyzer
- RanidSONNI Radiological Reconnaissance Vehicle
- RanidDB Online expert database system

Another remarkable characteristic of the RanidVision family is that using the detectors require minimal training yet they each are a high performance expert tool. Ease of use and low maintenance costs are a cornerstone of Environics solutions so the user may concentrate on the task at hand instead of constantly taking care of the equipment to ensure correct function.

For more information on the Environics RanidVision products please contact us by email at sales@environics.fi



New target for Naval Application.

Environics will deliver a gas and radiation detection system for the Finland's Environmental Institute's new oil and chemical accident response ship.

The system contains both fixed chemical and radiation detectors as well as the management software. Furthermore the delivery will include the Environics ChemPro100 Handheld Chemical Detectors and thorough system and product training. The new system can detect toxic industrial chemicals, toxic industrial gases, chemical warfare agents and radiological threats. The delivered detection system is specially designed for lower detection limits on the most common substances apparent in the field where the ship is intended to work in.

The delivery is a significant reference for Environics Oy as a service provider in the area of similar naval systems meant to be used by the civil sector. Environics delivers similar systems for military use also, the most recent system being a series of mine countermeasure vessels (MCMV) for the Finnish Defence Forces.



Defence & Industry 2009

Environics accompanied OPEC Systems, our Australian representative at D&I 2009 exhibition 30.6.-2.7.2009. The event was Australia's premiere trade show of defence industry this year and was held at the Adelaide Convention Centre, South Australia. Australia will invest more than \$110 billion in defence capability over the next decade so D&I 2009 was the place to be this year.

The exhibition attendees were interested to see our ChemPro100i, the new EnVision and a fullscale demo configuration of the Enviscreen system. ID100 and Bio100 EWS were on display as well. Following the visitor's keen interest in our products during the show days we look forward to receive new orders from "Down Under" in forthcoming months.

Environics participates in BELCOAST 09

Environics will participate to technology demonstration, called BELCOAST 09, which will take place from 05 to 15 Oct 09 at Koksijde air base at the Belgian coast.

The first week the industry is invited to demonstrate their products and technologies that contribute to the improvement of the commanders' situational awareness around military installations by a better sensor data integration/fusion. This BELCOAST 09 event will be concluded by a VIP Visitors' Day on the 14th of Oct 09 and an Industry and Subject Matter Experts Visitors' Day on the 15th of Oct 09.

The aim of the demonstrations is to give the opportunity to NATO's and nations' operational, armaments and procurement community to be informed of the results and to see which products and technologies already exist and what will be available in the future.

Environics will demonstrate it's innovative CBRN detection solutions such as Mobile CBRN Module, ChemPro 100i Handheld Detector and ID100 Portable Gas Analyzer. Furthermore there will be demonstration for EnviScreen Real-time Environmental Monitoring and Emergency Management System.

More information of the event from their web-pages: <https://www.belcoast09.org/index.php>

Environics Awarded Multi-million Euro Contract with the Indian Army

The Finnish high-tech security firm, Environics Oy, has signed a multi-million Euro agreement with the Indian army.

The deal, which includes ChemPro 100i multi-purpose detectors and other devices, strengthens Environics' position in Asia and especially in the rapidly-growing Indian markets.

"We are expecting significant sales for the ChemPro100i detector as well as our other products in the near future. This deal strengthens our ability to be a supplier of individual detectors as well as complex networked systems" says Veli-Matti Lahti, VP Sales & Marketing of Environics Oy.

The Indian Army arrived at its decision after a lengthy international open bidding competition and rigorous technical testing. Environics defeated much larger international CBRN companies in these tests. The customer was content with the technical performance of the ChemPro100i, the ease of use as well as the minimal operating costs over the lifespan of the detector.

Environics products are produced in Mikkeli. The delivery of these products will take place this year.

Quick news

Environics contributing in the IMS research community

Osmo Anttalainen, V.P. Technology of Environics has been nominated as President of International Society for Ion Mobility Spectrometry (ISIMS) for the term 2009-2010.

More information about ISIMS in www.isims.info (will be present later this autumn).

ChemPro100 Training System from Environics was selected by Slovenian Army

ChemPro100 Training system from Environics Oy has won a significant contract to provide chemical agent detectors training for Slovenian Army. The ChemPro100 Training System provides an interactive tool for training troops to both use the ChemPro100 detector and to simulate a chemical attack.



Benefits and experiences from applying an ionizing radiation source

Designing technically complex systems such as hand held gas detectors is multidimensional optimization and decision making process. Selections made in early phase of design will follow the product until the end of product life cycle.

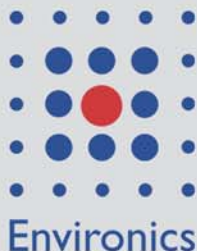
The chemical gas detector design can not compromise with performance and the design must cover all the aspects between sampling, sample handling, sensors, sensor algorithms, detection algorithms, user interfaces, mechanical and structural durability, data logging and manipulation and life time logistics. Innovative solutions are possible but some conservatism in key components is sometimes necessary to maximize the performance for the end user.

One example of long term experience and known good performance is ionization source which is used in EnviroNics' gas detectors. EnviroNics Oy has more than 20 years of experience of the Am-source, which has many good advantages: it has low activity and it is so called sealed source requiring no paper work, licensing or scheduled actions such as wipe tests and it's ionization performance is very reliable and well known process which do not require maintenance and keeps running over the product lifetime, just to mention few good things.

The mechanical durability is excellent: sources dismantled from 22 year old and field used EnviroNics M86 CWA Detector "innovation of the those days"-devices are still intact and functional though the original activity as decreased due the natural Am-decay process. Obviously the original design decision - more than 22 years ago- the selection of ionization source based on careful background study of multiple alternatives, was a correct one. This is something to learn and remember: there is continuous need for research and innovations to find out new things to take use but there also is a need to shepherd the ideas and make sure that old, proven ones are not forgotten.

Upcoming Exhibitions

- 08. - 11.09.2009 DSEi London
- 30.09. - 02.10.2009 MS&D Germany
- 01. - 02.10.2009 ASD Convention in Helsinki, Finland
- 11. - 13.10.2009 INDESEC, India
- 28. - 30.10.2009 The CBRNe World 2nd Annual CBRNe Convergence Conference & Exhibition. WORLD FORUM Convention Centre, Churchillplein, The Hague, The Netherlands
- 04. - 07.11.2009 Defense & Security, Thailand
- 17. - 20.11.2009 Milipol 2009, Paris, France
- 08.12.2009 Singapore, SISPAT



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