

Read-out



read-out.net

Ireland's journal of instrumentation, control, and automation

Not your copy? Register on page 4

istig
inside


WATER & WASTE 1,4



INSIDE FRONT 2



COMPANY NEWS 1,3,6,8



PRODUCT NEWS 8

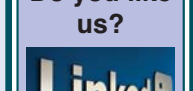
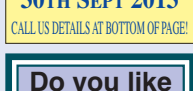
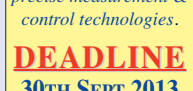
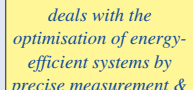
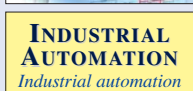


APPLICATION 10



PEOPLE 10,11

NEXT ISSUE



Increased Automation improves Water & Wastewater Industry business processes

ARC believes that the water & wastewater industry represents one of the greatest opportunities for the automation business through the next 20 years. Throughout much of the developed world, including North America, Western Europe, and Japan, the existing water & wastewater infrastructure is aging rapidly and often suffering from neglect.

According to their recent report "Automation Expenditures for Water & Wastewater Industry Global Market Research Study", automation expenditures in the water & wastewater industry will grow at a compound annual growth rate (CAGR) of 7.8% over the next five years. According to **Allen Avery**, Senior Analyst and co-author of this study, "Both developed and developing regions are seeing improving economies and thus are looking to either upgrade or install new water and wastewater treatment and distribution systems."



In addition to market analysis and forecasts, the study covers the current market nuances, strategic issues, and the future outlook. The report also highlights the factors that influence the global water & wastewater market and its dynamics.

Water is not only essential for producing fossil fuels and for generating electricity from both conventional and non-conventional energy sources; water withdrawal, treatment, and distribution are all highly energy-intensive activities.

to page 4

Thár barr i mBaar Emerson reveals smart connections

Read-out travelled from the scenic, and also sunny, fastnesses of Conamara, on the west coast of Ireland, into the great alpine fastnesses of that beacon of freedom and democracy in the heart of Europe, the Cantons of Helvetia. The destination was the scenic town of Zug, close to the new state-of-the-art headquarters of Emerson Process Management at the nearby settlement of Baar.



To page 3

Calibration Services

From **1** Calibration Per Year to **1000's**,
We can provide a quality service for all industries.



QUALITY
I.S. EN ISO 9001:2008
NSAI Certified

- Expert, Efficient and Reliable Service
- Fully Qualified Technicians
- ISO9001:2008 Certified
- Certified Traceable Equipment
- Full Time Contracts
- Scheduled Visits
- Emergency Breakdowns

- Temperature - Humidity - Flow - Pressure - Mass -
- Level - Current - Voltage - pH - Conductivity -

All Calibrations are scheduled & performed electronically
using ProCal V5 CMS.
This software is available for purchase.
Please contact us for more information.



What Else Do We Do...

- We supply a range of Instrumentation and Weighing Products from International Manufacturers
- We represent Status Instruments, Huba Control, Kimo, Signatrol, Spriano, Callex, Precision Digital, Fluidwell
- Also international weighing companies Kern, Ohaus, Adam Equipment, Applied Weighing & Soehnle
- We design, manufacture and install instrumentation control panels

Visit www.pjboner.com
Shop www.scales.ie
Mail sales@pjboner.com
Call 01-4505050

P.J. BONER & CO. LTD.
INSTRUMENT & WEIGHING SPECIALISTS

Qualified to work in automation?

Declan Lordan of Douglas Control & Automation recently visited the Cork Institute of Technology (CIT)

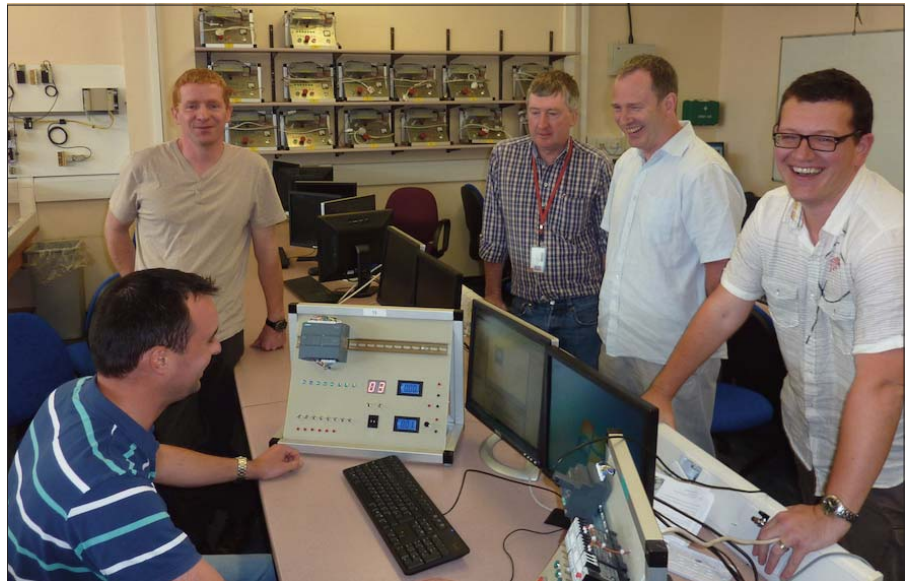
The story of the Cork Institute of Technology (CIT) is repeated in many third level colleges around the country. They have invested heavily in upgrading their Automation Equipment to support the opportunities offered in Automation & Control Industries. The picture (Pic 1) shows the new Siemens S7. The S7 1200 and the Siemens Logo are both used in various training modules on automation by the college in many of their engineer courses.

That there is a major shortage of Skill automation engineers and technicians is recognised throughout the world. These concerns have been express by major multinational manufacturers, vendor's of automation products and Integrators as they struggle to find the skilled automation engineers they need to keep the highly automation systems going. (see also our item on page 1)

There is also a recognition by many companies that the first generation of Automation professionals are now reaching retiring age and the shortage of trained automation people to replace them as well as the loss of there expertise is a growing concern The competitiveness of industry around the world is dependent on the increased level of automation and on reliable support of this 24hr a day 365 days a year.

Ireland has a reputation of well educated and trained graduates. Over the last 10 and more years we have invested in upgrading the equipment and laboratories used by these engineers. The quality of our engineers and technicians is recognised around the world with companies now travelling to Ireland to interview these graduates and offer them positions across Europe and further afield. Engineers in responsible positions in many automation, engineering and pharma-ceutical companies are in many cases trained at CIT and other Irish establishments.

The picture (Pic 2) shows one project developed and built by a 3rd year student to monitor and control the dynamics of energy



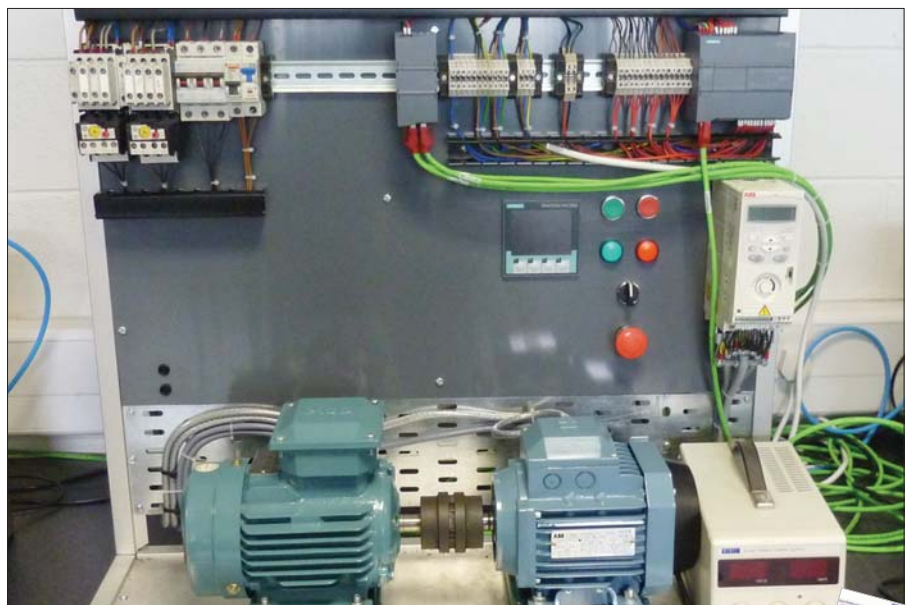
Pic 1: from left: **Oliver Hearn**, (Seated) Technical Officer, **Gerard Geaney**, Lecturer **Liam Carroll**, Senior Technical Officer, **Michael Murray**, Lecturer, **Noel Mulcahy**, Lecturer all in Dept. Electrical & Electronic Engineering, CIT

generation using a Siemens S7 1200 and Siemens energy monitoring meters.

When I asked about computer simulation for projects, the response were not surprising but still reassuring to hear. The lecturers felt that the experience a student gets from the hands on practical applications gives them a much greater understanding of the technologies involved, and how everything works especially when finding faults that may have occurred or inserted by a lecturer during a class. While

mistakes are made by most students it is much better to makes these while at college while learning in a safe environment and they will then be much better prepared for Industry.

Many other uses are made of this automation equipment with course modules being given on other engineering disciplines. The modules are also used in retraining of electricians and other trades to make them more attractive to potential employers at home and abroad.



**Instrument
TECHNOLOGY**

www.calibrate.ie





European journalists at the Emerson press event

The press conference itself was a focus on Emerson's global support service initiative, with a number of Emerson customers describing their experiences. It was also an opportunity to see their new headquarters up close and personal and the conference and presentations were given there.

We were made familiar with Emerson's progress in facing the challenges in modern process management. These were discussed under four headings, performance demands, expertise shortage, operational complexity and geography. These are confronting industry in all

continents Emerson's efforts in helping to fill these requirements was outlined in some detail.

Our full report on-line may be found on wp.me/t7Kv

Roadshow at Croke Park

Over 150 leaders from some of the country's biggest names in industry turned out in force to learn more about maximising uptime in virtualised environments, at a series of events organised by industrial IT solutions provider, SolutionsPT. In Ireland the event visited both Dublin (Croke Park) and Rochestown Park in Cork.

to page 6

INNOVATION and INCREASED PERFORMANCE

SONIC-PRO[®]

HYBRID ULTRASONIC FLOWMETER

ALL NEW! T-TRACK MOUNTING SYSTEM

Fast and Easy Sensor Installation
New Small Pipe Capacity to 0.5"
New Large Pipe Capacity to 100"
NEMA 4x Quick Disconnects

IP68
NEMA 4X WASHDOWN
CE

Selectable Doppler or Transit Time

Non-invasive Clamp-on Transducers • Works with Clean or Dirty Fluids

"Smart" External Communications • Patents Pending

— MANUFACTURED IN THE USA —

Blue-White[®]

5300 Business Dr., Huntington Beach, CA 92649 USA
fax: 00+1+714-894-9492 • 00+1+714-893-8529
sales@blue-white.com • www.blue-white.com

Beware imitations!

Like the famous Irish stout, there are many imitations but only one that's internationally recognised.

Classic Technology are operating Ireland's only UKAS calibration laboratory for Pressure, Temperature, Electrical and now Mass calibration; delivering unparalleled turnaround times for both repair and calibration to many of Ireland's leading companies.

Classic are the country's leading independent test instrument distributor, representing some of the World's leaders in their field.

So there's no need to compromise on either quality or service. Cheers!



Classic Technology 045-896660 email: info@classictechnology.ie www.classictechnology.ie



UKAS Laboratory Ref 0822.

On the energy supply side, water is critical for developing the increasingly important, non-conventional oil and gas resources (such as shale gas and oil sands), for growing biomass for biofuels, and for cooling electric power generating plants. On the energy consumption side,

transporting and treating water are both highly energy-intensive activities, requiring a significant amount of water to operate pumps, motors, and filtration systems.

Strategic planning for water & wastewater infrastructure investments and transitioning the

operation and management of existing assets to incorporate new advances in technology is critical. Challenges and issues the water & wastewater industry must address include:

* Aging infrastructure and increased demand for water supply

* Inadequate and/or ineffective wastewater infrastructure in many parts of the world

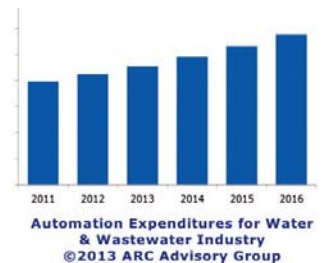
* Funding for large projects during periods of economic uncertainty

* Privatisation and public/private partnerships (PPP) require efficient transition of legacy systems to meet new demands from all stakeholders

* Increasing concern over security issues

* Increasing demands upon the aging, shrinking, internal workforce

Automation suppliers can play a major role in providing solutions to overcome these challenges.



Readout Registration Form

PLEASE COMPLETE DETAILS

OR CLIP YOUR BUSINESS CARD

FIRST NAME:

SURNAME:

JOB TITLE:

COMPANY:

ADDRESS:

TEL No: **MOBILE** **Fax No:**

E-MAIL ADDRESS:

FOILSEACHAIN READOUT PUBLICATIONS, CAORAN, BAILE NA HABHANN, CO GALWAY, IRELAND.
TEL: 087 2663282 • FAX: 091 506872 • E-MAIL: readout@iol.ie

YOUR INDUSTRY (Please Tick)		Are you involved in choice of purchase of instrumentation?	
01 Pharma & Chemical Industry	<input type="checkbox"/>	Yes	No <input type="checkbox"/>
02 Consultant	<input type="checkbox"/>		
03 Contractor	<input type="checkbox"/>	APPLICATIONS (Please Tick)	
04 Education/Training	<input type="checkbox"/>	01 Process Control	<input type="checkbox"/>
05 Electronics & Electrical	<input type="checkbox"/>	02 T&M	<input type="checkbox"/>
06 Engineering	<input type="checkbox"/>	03 Laboratory	<input type="checkbox"/>
07 Food & Drink	<input type="checkbox"/>	04 Environment	<input type="checkbox"/>
08 Foreign Inst Manf	<input type="checkbox"/>	05 Safety	<input type="checkbox"/>
09 Public Services (incl Govt Depts, Unions, Hospitals)	<input type="checkbox"/>	06 Quality	<input type="checkbox"/>
10 Instrument Manufacturer	<input type="checkbox"/>	99 Other Please give details:	<input type="checkbox"/>
11 Instrument Sales	<input type="checkbox"/>		
12 Power	<input type="checkbox"/>		
13 Process Industry	<input type="checkbox"/>	EMPLOYEE NOS (Please Tick)	
14 R&D	<input type="checkbox"/>	1+ <input type="checkbox"/>	25+ <input type="checkbox"/>
15 Water & Waste	<input type="checkbox"/>	100+ <input type="checkbox"/>	500+ <input type="checkbox"/>
16 Recruitment	<input type="checkbox"/>	Member ISA	Yes <input type="checkbox"/> No <input type="checkbox"/>
17 Publisher - Magazines	<input type="checkbox"/>	Member InstMC	Yes <input type="checkbox"/> No <input type="checkbox"/>
18 Publisher - Books	<input type="checkbox"/>		
19 Exhibition Organiser	<input type="checkbox"/>	Do you read other <u>Instrument</u> Journals?	
20 Public Relations & Journalists	<input type="checkbox"/>	<i>Intech</i>	Yes <input type="checkbox"/> No <input type="checkbox"/>
21 Software Development	<input type="checkbox"/>	<i>Control Engineering</i>	Yes <input type="checkbox"/> No <input type="checkbox"/>
99 Other Please give details:	<input type="checkbox"/>	<i>Instrumentation</i>	Yes <input type="checkbox"/> No <input type="checkbox"/>
		Other (name)	Yes <input type="checkbox"/> No <input type="checkbox"/>

CATEGORIES (Please Tick)

01 Service Engineer

02 Specifier/Consultant

03 Supplier

04 Manager/Director

05 Inst Technician

06 Inst Fitter

07 Student/Apprentice

99 Other Please give details:

Have you access to InterNet? Yes No

My name may be used for mailings other than Readout or Readout related mailings Yes No

T3 Readout v3@the.ie is an gComisierOr Coisnte SmeT+ IUmhí C0isithe 13024 • Readout is registered with the Data Protection Commissioner

Those who do not qualify for free distribution of Read-out will be invoiced at the appropriate rate.

I WISH TO RECEIVE READOUT EVERY SECOND MONTH:

INITIALS:

DATE:

FOLLOW US

On Twitter
[ReadoutSignpost](#)
or

on Facebook
[ReadoutSignpost](#)

See Automation News as it happens on our facebook page

Shorter updates on twitter

AUTOMATION EVENTS

read-out.net/signpost/expo.html

Manotherm Limited

The Control Centre

4 Walkinstown Rd.,
Dublin 12.

Tel: 01 4522355 Fax: 01 4516919
email: info@manotherm.ie

THE CONTROL CENTRE

Read-out is produced on an Apple Power Macintosh using Quark Xpress, MS Word, MS Excel and Adobe Photoshop.

Type Setting: Read-out: 087 2663282
Printing: O'Sullivan Print: 086 2583053
Distribution: Sooner Than Later: 01 2844777
Copyright © 2013 Read-out



My people are forced to waste their time on monotonous procedural tasks. I need them focused on right-first-time production instead.

YOU CAN DO THAT



SYNCADE™ Empower your people and accelerate your business with the Syncade™ Suite.

By simplifying routine, non-value-added tasks, Syncade helps your people be more effective and your plant be more efficient. You can integrate work activities with real-time information, assuring consistent production is performed with best practices and approved, up-to-date procedures. And the modular, scalable nature of Syncade lets you add functionality as you need it. It's time to put the focus back where it belongs — on your business — go to www.EmersonProcess.com/Syncade

Call **021 480 7500** or e-mail IrelandSales@Emerson.com



EMERSON™
Process Management

The Emerson logo is a trademark and a service mark of Emerson Electric Co. © 2013 Emerson Electric Co.

EMERSON. CONSIDER IT SOLVED.™

In response to the increasing demand for virtualised environments, SolutionsPT hosted the 'Availability Virtualised in Automation' roadshow to address the advantages of virtualisation and how to deal with the challenges these technologies present. Representatives from several household names were among those present to hear how they could still ensure the optimum level of uptime, whilst enjoying the benefits of a virtualised architecture.

The panel of experts gave an overview of the growing trend towards virtualised models, how the industrial IT world had a specific set of needs different from its thin client architecture, and the challenges of running these technologies on the shop floor.

This was followed by a practical demonstration of the Stratus technology currently ensuring that some of the world's biggest companies enjoy 24/7 uptime.

Rob Dinsmore, Product Manager for the hardware division of SolutionsPT, commented; "Manufacturing and utility companies are becoming ever more reliant on the availability of their IT systems and replacing physical infrastructure with virtual machines. We wanted to illustrate how manufacturers can ensure application availability on virtualised platforms in today's world."

www.industrialit.co.uk/

European Red Herring



Red Herring announced its Top 100 award winners today,

recognising Europe's leading private companies and celebrating their innovations and technologies across their respective industries. Red Herring's Top 100 Europe list has become a mark of distinction for identifying promising companies and entrepreneurs. Red Herring's editors were among the first to recognise that companies such as Facebook, Twitter, Google, Yahoo, Skype, Salesforce.com, YouTube, and eBay would change the way we live and work.

Red Herring selects companies that show the most potential for disruption and growth. **Alex Vieux**, publisher and CEO of Red Herring said "We looked at hundreds and hundreds of candidates from all across the continent, and after much thought and debate, narrowed the list down to the Top 100 Winners. Each year, the competition gets tougher but we believe Automsoft demonstrates the vision, drive and innovation that define a Red Herring winner."

Páraic O'Toole, Automsoft's CEO said "It's a great honour to be selected as one of Red Herring's Top 100 Tech companies in Europe for 2013. It is a testament to the innovation and creativity of our team over the last number of years, as well as our many customers around the world who have implemented our software and are deriving tangible benefits for their business from our software."

Automsoft is a software company that has developed revolutionary technology for managing time-series data – collection, storage and web-based analytics. Time series data is generated by sensor networks, control systems, metering systems across industries such as smart grid, process manufacturing, micro-grid, oil and gas and many others. Time-series data management is the last big challenge in Big Data –

how to collect, store and analyse massive volumes of the data generated by the increasing network of devices generating this type of data. Typically, in database technology, the greater the volume of data in the database, the slower the performance. This has been particularly true for time series data. Automsoft's revolutionary technology has, for the first time, broken the link between database volume and performance so that all of the data can be analysed without a performance impact. It is the result of many years of research, is live in thousands of sites around the world and is now starting to be applied in the smart grid and cleantech world.

automsoft.com/

Web-based training



Profibus & Profinet International (PI) is offering web-based training for the ProfiSafe communication profile. ProfiSafe is a safety layer that extends the capabilities of these fieldbus systems. The additional safety layer enables safety-related automation functions to be transmitted over standard buses. The web-based training introduces users to the basics of safety technology. Examples are used to familiarise users with the functional principles of safety-related systems (fail-safe systems). Afterwards, the web-based training presents the functional principal and the safety mechanisms of ProfiSafe. This training provides a new opportunity to convey information in a particularly descriptive manner, beyond what is possible with

conventional teaching tools, like lectures, printed documents, or presentations. Technical concepts can be presented more clearly using animation, settings can be changed in the processes at the press of a button, and complex subjects can be explained in a stepwise fashion.

www.profibus.com/WBT/PROFIsafe/

Water & Wastewater Innovation



Water! In many countries the collection and distribution of water has been ignored for many years and the industry has languished due to lack of investment in some places since the nineteenth century. The same can also be said to be true of the disposal of waste. In recent years however a better understanding of the necessity to upgrade systems has developed. This is underlined not only from cases of contamination of water supplies from lack of treatment facilities but also because of increased demand especially in urban areas.

The recent Water/Waste Water Innovation Conference organised recently by **Mitsubishi Electric Factory Automation** and **DDC Ltd** was therefore a highly relevant event. Subtitled "Capitalising on New Innovation and solutions" it attracted a good representative assembly of Irish local authority and other interested parties to Mitsubishi's Irish headquarters in Dublin. Read our account which is an impression rather than a detailed account of the various presentations.

wp.me/pt7Kv-1PV

Office opened!

Endress+Hauser is well known as a global leader in the provision of measurement instrumentation, services and solutions for industrial process engineering. With their support, customers can optimise their processes in terms of economic efficiency, safety and environmental protection.



Cristoph Roche, E+H General Manager Ireland with Minister Seán Sherlock TD

Established in Clane over 30 years ago as a sales subsidiary, Endress+Hauser (Ireland) Ltd quickly expanded into a thriving sales and service organisation, and now employs an experienced workforce. Their network of sales and service engineers covers the length and breadth of the Ireland, ensuring

we're always on hand to help. Endress+Hauser's presence in Ireland has grown significantly more recently. Continuity is regarded highly in the organisation and the company has kept growing over the years and expects to do so into the future. Their new office in Little Island, Cork, is taking its part in carrying on this tradition as it increases its team and strengthens its closeness to its customers in the area.

To celebrate this key milestone on Friday 24th May 2013, Minister Seán Sherlock TD – Minister for Research and Innovation (Part of the Ministry of Education & Skills), officially opened the new premises.

Endress+Hauser was touring Ireland its state-of-the-art Democar during the last two weeks of May. This 40ft lorry brought the latest technologies in process automation to its key Irish customers. The mobile exhibition unit usually tours around continental Europe but



this year in celebration the Irish Gathering Initiative, It travelled from Germany to Ireland, strength-ening relationships between Ireland and the rest of Europe particularly in the field of automation.

endress.ie

New Irish Distributor
Datalink Communications have been appointed as Distributor/Agent for B&B Electronics products in Ireland. Datalink have been providing industrial networking supplies

and solutions since 2005. During this this time they have served customers in Building Automation, Rail, Wind Energy, Power Stations, IP Surveillance, Manufacturing Automation and ATM/POS industries. Together, we look forward to serving our Irish customers and assisting with industrial networking solutions in the coming months and years.

Picture above: L to R: Mr. Jerry O'Gorman (B&B MD EMEA) Mr. Tony Mahony (MD DataLink Communications) Mr. Stephen Hand (Regional Sales Executive B&B).

datalinkcom.net



FOR A COMPLETE RANGE OF HAZARDOUS AREA SOLUTIONS



**Intrinsic Safety Isolators • Zener Barriers • Zone 1&2 Remote I/O
Fieldbus • Exe Enclosures • Exd Control Panels • Ex Lighting
Purge Solutions • Zone 1 & 2 HMI's PC's**



Meath Office: 041 9884288 · Cork Office: 021 4883798 · www.pepperl-fuchs.co.uk

Ferryboxes



Xylem Analytics UK and Aanderaa Data Instruments have launched a new marine water quality monitor which has been designed to enable wider

deployment of water quality sensors on ferries and other marine vessels. The 'SOOGuard' will be launched at Ocean Business 2013 in April and Xylem's **David Goldsmith** says: "In order to encourage the operators of ferries to allow the installation of monitoring equipment on their vessels, it is vitally important that the instrumentation is easy to maintain and reliable."

"Traditional FerryBoxes are expensive bespoke systems, but by combining considerable design experience with the latest sensor and datalogging technology, the SOOGuard offers improved performance at a substantially lower cost."

Ferries, container ships and other vessels continuously traverse ocean and coastal environments in repeated journeys that offer an excellent opportunity to generate high quality information on surface water quality. This data is extremely valuable for the

management and protection of the oceans; for informing global meteorology and climate change research; for calibrating satellite imagery, and for the management of fisheries.

The system's four sensors (conductivity, temperature, optical dissolved oxygen and chlorophyll a) are fitted onto the door of a flow-through cell - a design that allows simple and rapid cleaning. The sensors are very stable and require calibration checks less than once a year in most environments. Further flow-through cells can be fitted to allow for the measurement of additional parameters.

www.xylemanalytics.co.uk



Water industry enclosures

Rittal's CS New Basic enclosures, made of aluminium, offer clear advantages over

Stout service from Classic!

Like a famous Irish stout, there are many imitations but perhaps only one that's internationally recognised.

Classic Technology operate Ireland's only UKAS calibration laboratory for pressure, temperature, electrical and now mass calibration; delivering unparalleled turnaround times for both repair and calibration to many of Ireland's leading companies.



GE Druck Service Centre

Classic too are the country's leading independent test instrument distributor, representing and successfully supplying and supporting products from some of the

World's leaders in their field covering parameters such as Pressure, Mass, Temperature, Flow, Level, pH, Conductivity and Calibration Management Software. The company is also Ireland's only **GE Druck** Approved Service Centre. The Company's renowned support extends through a range of approved training courses that are designed to enable laboratory, inspection, quality assurance, maintenance and certification personnel to meet the increasing need to demonstrate their competence. So there really is no need to compromise on either quality or service.

Sláinte!

www.classictechnology.ie



Successful Cork launch



There was a large attendance at the launch by **Douglas Controls and Automation** of the SIEMENS TIA Portal V12 and Safety Innovations Tour in Cork in June. Pictures taken at the event include Douglas's **Anthony Barrett** and **Eugene Pigott** and Siemens' **Martin Feely**. **Aidan Byrne** of Siemens demonstrated the range of safety equipment.

www.douglas-esl.ie

conventional plastic or glass-fibre-reinforced enclosures. More flexibility in the manufacturing of switch-gear & better protection against weather influences are some of the reasons why this highly robust material is particularly convincing for rugged outdoor enclosure technology use.

Aluminium withstands external conditions much better than glass fibre due to the resistance of the material to UV radiation. Another advantage of aluminium is its flexibility as enclosures can be built in the desired size much more quickly. By contrast, plastic requires the designing of casting moulds, which is both protracted and cost-intensive.

Whether for the processing of drinking water, waste water treatment or measurement of the ground water level, along with solutions produced for pump stations and sewage treatment plants, ranging from simple to highly complex, Rittal

can supply manufactur-ed-to-order outdoor enclosures from its CS New Basic series, along with accessory components for interior installation such as compact enclosures, heaters, thermostats and enclosure lights.

These single-wall outdoor enclosures are made of aluminium (AlMg3) and painted in RAL 7035 (powder-coated). In addition, the CS New Basic enclosure can also include protection class IP55 and NEMA 3R through the bottom plates offered as accessories. The single-door or two-door enclosure is available in widths of 600/800/1,200 mm, heights of 800/1,200 mm and depths of 400/500 mm. Accessories include concrete bases/plinths, divided gland plates, cable entry plates, mounting plates, 482.6 mm (19") mounting angles, heaters, thermostats and semi-cylinders for the locking system.

www.rittal.ie

E-direct
High Quality - Low Prices



Always hit the best price

Temperature head transmitter iTemp TMT80

- Safe and reliable
- Quick and easy set up
- Universal application
- Galvanic isolation
- Fault signal on sensor break or short circuit

€39,-
11-35



Direct order: www.ie.endress.com/e-direct/tmt80

More fantastic offers in our **E-direct Online Shop** - www.ie.endress.com/e-direct

Endress+Hauser (Ireland) Ltd
T: 045 989 217
E: e-direct@ie.endress.com
W: www.ie.endress.com/e-direct

Endress+Hauser 
People for Process Automation

Transducers and Instrumentation:
Made to measure,
built to last.



**DISPLACEMENT/POSITION • LOAD/FORCE • PRESSURE • VELOCITY
• ROTARY & REACTION TORQUE WITH COMPLETE INSTRUMENTATION.**

Choose RDP products and get the assurance that only 45 years of development and applications experience can give, backed up by the ISO9001:2008 quality system.

Call today for advice and a complete measurement system from transducers to your PC.

Making sensors make sense.
www.rdpe.com



RDP Electronics Ltd
Grove Street, Heath Town
Wolverhampton, WV10 0PY
Tel: +44(0) 1902 457512
Fax: +44(0) 1902 452000



Village installs local flood alarm system



A village in the English county of Nottinghamshire has installed a new high-tech river monitoring system that automatically issues text (sms) message alarms so that residents can implement flood protection measures.

Oxton has a history of flooding problems and with an increased frequency of flood events, Parish Councillor **Dr. Ian Kilpatrick** says: *“The monitoring system is designed to provide sufficient advance notice to enable the village’s emergency response flood team to try to protect the properties that are most at risk.”*

According to the British Met Office, 2012 was the second wettest year since records began, and whilst the effects of climate change on rainfall are still unclear, it is likely that more frequent extreme weather events including the prolonged and intense rainfall that results in flooding will occur.

Flood warnings in England and Wales are issued by the Environment Agency (EA) which records rainfall and operates a network of monitoring stations that measure river and sea levels. Data from this network are used to generate flood warnings and the EA aims to issue these at least 2 hours in advance of flooding.

Over 5 million people in England and Wales live and work in properties that are at risk

of flooding from rivers or the sea, and the cost of flooding in 2012 has been estimated at £1billion (1.17euro) which is almost double the annual investment in England and Wales for building and maintaining flood defenses.

The problem in Oxton

Oxton village has a long history of flood-related problems caused in large part by the local geography which during times of high rainfall, funnels land, road surface and lake water into a stream (known locally as the Oxton Dumble) which passes through the village and eventually flows into the Dover Beck. The construction of a flood relief channel in 1984 was designed to take much of this excess water around the village perimeter and whilst this has undoubtedly been beneficial, the channel needs to be regularly maintained and kept clear of bushes, trees and other debris if it is to be given a chance to cope with the more extreme rainfall events.

Subscription to the EA’s flood warning system can provide timely alerts to those in flood-susceptible areas. Occasionally and for various reasons, however, even the flood relief channel in Oxton cannot cope and in both 2007 and 2009, flooding caused devastation to a number of residents’ homes and local businesses; 14 homes were damaged in 2007. Even as

recently as December 2012 and January 2013, properties narrowly escaped flooding although roads in the village became impassable and water was brought up to doorsteps. Flooding in Oxton is therefore related to the river levels and rainfall that are recorded by the EA, but because of local conditions, flooding can occur even when the EA has not issued a warning.

The solution

Recognising a need to be able to monitor water level in the village stream with an ability to raise an alarm when certain conditions arise, Oxton’s Parish Council obtained a monitor from *OTT Hydrometry* known as an ‘Orpheus Mini’ (right) which has been installed in the water course and now monitors and logs water temperature and level continuously. An alarm level has been set and when this is reached, the instrument automatically issues an alarm text message to members of Oxton’s volunteer emergency response flood team and to those residents whose properties are most susceptible to flooding. After receiving an alert, the flood team assembles at its resilience store to begin the deployment and building of temporary flood defenses, including Aqua-Sacs, to prevent the rising waters from reaching residents’ homes.

In December last year, the level monitor raised the alarm three times, initiating the successful deployment of the village flood plan and prevented any significant damage.

Explaining the advantages of Oxton’s early flood warning system, Dr. Kilpatrick says, *“As a result of recent events, the residents are more sensitive to water levels than most. However, we can’t watch the stream every day of the year or*

at night, so a continuous automatic monitor is the ideal solution.

“The instrument has raised several flood alerts since its installation in July 2012 and thereby helped us to prevent similar disasters to those experienced in 2009, 2007 and earlier.”



Clearly, Oxton’s flooding potential is affected by a number of local conditions. However, OTT Hydrometry’s Managing Director, **Simon Wills**, believes that many more communities suffer from a similar susceptibility and would therefore benefit from this technology. *“Both sensor and telemetry technology have advanced considerably in recent years, so we are now able to supply low cost, easy to use, ‘off the shelf’ equipment that can provide residents with vital advance notice of local flood conditions.*

This does not in any way replace the flood warnings that are issued by the Environment Agency, but it does enable local people to build a reliable low-cost warning system that is dedicated to their specific needs.”

www.ott.com



DIT held their annual College Awards Night in April. **Mitsubishi Electric Ireland** sponsored the Best Academic Performance in the Final Year of the B Eng Tech in Control & Automation Systems in Academic Year 2011 – 2012. Here we awarded the students with a certificate of achievement and a Mitsubishi

Award Medal. Successful students received a cash prize also. The two students achieved joint first place were **Ian Ingram** and **Ross Cusack**. Picture above shows Ross Cusack receiving his award from **Morgan Rusk**, Business Development Agent with Mitsubishi.



Past President Kieran Coughlan hands over the ISA Ireland Presidential Chain to Liam O'Brien at the recent AGM. (Pic Creative Photography)



Peter Walsh is the next Chief Executive of The Society of Operations Engineers (SOE).



Festo has appointed **Tony Gillard** as New Business Development Manager, Process Automation, with a focus on the water and wastewater treatment industry.

Dónal Dunne R.I.P.

We were saddened and shocked to hear of the sudden death in May of **Donal Dunne**, principal of *Industrial Temperature Sensors*. The funeral was attended by his many friends and business associates who have know him since his early work in Industrial Instruments Manufacturing in Dublin and his subsequent involvement in the manufacture of high class temperature sensors in Naas, Co Kildare.

Ar dheis Dé go raibh sé.

PLCs VSDs & HMIs Drives and Controls are accredited to provide a professional on-site service for supporting all Mitsubishi Automation Products. Their Service Engineers provide a complete range of services from simple equipment audits through to the set-up & commissioning of VSD's and the back-up of PLC & HMI programs and guarantee a simple upgrade path for Mitsubishi PLCs, Inverters, HMIs & Switchgear to the current product range with little or no modification to programming, parameters or wiring.

www.drivesandcontrols.ie



Wayne Ashworth has been appointed Product Manager at SolutionsPT, with particular responsibility for industrial communications, encompassing industrial IT security and mobile.



One of the joys of visiting events throughout the world is to be able to meet face-to-face with twitter and social media friends. Here **Eoin Ó Riain** met **Chris Amstutz** at the Emerson event in Switzerland.

SIEMENS Automation Products - **STAHL** EEx Lighting, Remote I/O & HMI's

douglas
control & automation



Neptune House, Victoria Road, Cork. Tel: 021 4317001 email: info@douglas-esl.ie www.douglas-esl.ie

Pharmacy made simple.

Making your life simpler, Bürkert's unique multiway/multiport valves are compact, smart and save plant space, dead legs, cross-contamination and validation. Providing process efficiency and higher yields by unlimited process modularity.

Petrochem Pipeline Supply Limited
www.petrochem.ie | sales@petrochem.ie
Tel: +353 (21) 435 1300 | Fax: +353 (21) 435 1166



petrochem
PIPELINE SUPPLY

DISTRIBUTOR IN
SOUTHERN IRELAND



bürkert
FLUID CONTROL SYSTEMS