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Read-out

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Ireland's journal of instrumentation, control, and automation

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NEXT ISSUE

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DEADLINE

26th Sept 2014

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International gathering

Automation professionals meet in Cork

The delegates for the annual plenary meeting of the International Society of Automation District 12 (Europe, Middle East and Africa) were accorded a civic reception by **Councillor Michael O'Connell** in historic Cork City Hall. The international delegates are pictured with Cllr O'Connell. To his left is 2014 President, **Dr Peggie Koon**, on her left is then President Ireland Section, **Liam O'Brien** and standing to his left is **Brian Curtis** the 2013/2014 VP Dist 12. To the right of the Councillor is **Pat Gouhin**, Chief Executive of the ISA. ISA Leaders Meetings engage a cross-section of ISA volunteer leaders in the policy-setting and decision-making process during two days of face-to-face work sessions focused on society business.

Farewell but not good bye!

Many of us have enjoyed reading the periodic missifs from the virtual pen of automation pioneer **Jim Pinto**. We will remember his incisive, sometimes controversial but always interesting commentaries on the Automation sector and indeed on industry trends in general.

His e-letter, published first in 2000, was a "must-read" in thousands of mail boxes throughout the world. He was wondering for a while lately how to disengage from this as he realised, as do all of us, that perhaps the information which he gathers is already available to the serious reader using the various on-line platforms. Nevertheless the decision he has made will make our e-boxes more empty and our busy business lives too less interesting without his incise commentary.

Read our tribute: - nblo.gs/Y8Asv

A Win-Win Situation

Cost optimisation on both sides - Silo management for grain mills and their customers

In Germany alone there are more than 260 large flour mills. In Asia the grain market is significantly greater and a very important industry. All around the world the situation is similar. Well-planned routes and carefully calculated stock levels are vital to achieve max cost optimisation during the material delivery process, however these are more than often jeopardised by daily reality. Bakeries, the customers of the mills, often place their orders too late and the mills are faced with having to supply material immediately in order to avoid production stop at the bakeries. This leads to unnecessary logistics costs caused by multiple deliveries and ultimately to an increase in costs for both supplier and customer. This is obviously in no one's interest. But why are we confronted with these *"fire-fighting"* situations and how can they be avoided?

Lack of storage management

Even bakeries with multiple storage silos often do not have an automated level monitoring system to control their inventory levels. Therefore these stocks have to be checked manually on a regular basis and an order has to be triggered to the flour supplier on time. Due to unforeseen fluctuations in demand or simply by not having verified the stock levels sudden emergencies arise that lead to unplanned extra tours for the mill.

The simple installation of sensors for level monitoring in the silos of the bakeries would bring a partial improvement. In this context often the willingness to invest is lacking because *"it's working as it is"* regardless of the fact that it is a very costly and inefficient way to do it. But the ideal solution

Lotsystem Nivobob® NB4200

would be that the mills take responsibility of the level monitoring centrally for their customers and offer this as a special service thus optimising their own material and delivery disposition and at the same time reducing the administra-tive effort involved.

Of course the cost question arises immediately - who should pay?! Perhaps it pays for itself? In fact, closer analysis shows that the mill's investment would amortise itself in a relatively short time due to the cost savings brought about by the optimised supply chain process.

Central-level measuring

UWT GmbH are known in the industry as the expert for level measurement in bulk solids and have been providing made-to-measure solutions for many decades. Based on experience it has developed an economical and practical solution in the form of a central level-remote system for flour mills.

This is how the system works. On each silo of the bakery the maintenance-free lot system Nivobob® 4000 is fitted for level monitoring. For easy mounting, a standard 1.5 inch threaded socket in the silo roof is necessary. At the bakeries the level signals are bundled by the UWT software Nivotec® combined with a Wago WebController and the information received is passed to the Internet using an Ethernet connection via a routed IP address. The mill can securely access this password-protected information via any internet browser at any time over a pre-defined IP address. It is possible to include any number of other customers in the visualisation system - without additional hardware or costs for the mill. If the priority is to keep installation at the bakeries to a minimum a GSM modem can be used to remotely access the data. In this case no Ethernet connection is required for the data transmission, but a SIM card in the WAGO to pass the modem. This modem collects all level signals and sends them in an encrypted log via mobile phone over the Internet to the appropriate controller in the mill. As only small amounts of data are being sent a low priced SIM contract is sufficient.

The current silo levels can be displayed at the mill control centre using the UWT Nivotec® visualisation soft-ware which can be accessed via the Internet browser on any Ethernet PC. The controller can see the real-time status of the silos because the visualisation controller is directly integrated into the Ethernet system.

Advantages and benefits

The benefit of the whole system is the simplification of the material disposition processes leading to a reduction of costs for all parties involved.

- The installation of the system in the bakery as well as in the mill is straightforward and can usually be carried out by the mills own service engineers
- Control cabinets only have to be set-up once; afterwards no additional IT support is necessary.
- All silo levels can be visualised at the same time (material planning security)
- The system can be dismantled at one customer and installed again at another (no new costs when customers change).

The mill is able to hold the correct material in stock according to the customer's material requirements and can optimise the logistical routes and schedules. Simply the availability of the required information which can avoid the need for express deliveries or empty runs can reduce the administrative effort dramatically. On the customer side, at the bakery, the task of manually checking the material level within the storage silos is eliminated and production bottlenecks due to a lack of material are history.

The material flow now follows a standard process with much greater planning security: Last but not least it naturally leads to a more harmonious working relationship and increased satisfaction on both sides which ultimately mean a stronger partnership between customer and supplier.

- **Wolf Process Automation markets UWT products in Ireland.**

www.wpa.ie

International Co-operation

A visit was undertaken to Brazil by *Hassan Kaghazchi*, chairman of PROFIBUS Ireland to audit PITC Sao Carlos, as PITC PROFINET . The audit was successful and PITC Brazil will now become an official training centre for PROFINET. The centre is well equipped to run Certified PROFINET Engineers training courses, and has good classrooms and certified instructors at University of Sao Paulo campus at Sao Carlos.

Additionally a presentation was made during the visit to RPA Brazil board. The tile of the presentation was "Onwards & Upwards", in which the Irish experience was shared with Brazilian counterparts, as well as updates on global automation market, research and development.

PICC Ireland has a long standing record of co-operation with PICC Brazil through long term placement of Brazilian researchers at the Irish PICC.

www.profibus.ie
www.profibus.org.br/

Allianz partner

VisionID have announced **ONG Automation** as their first "Allianz Partner" for MES Technology Solutions in recognition of their utilisation, skills and the delivery of a large number of MES solutions delivered by ONG recently using VisionID's technology for Barcode Scanning, Cognex Vision Solutions, Mobile Computing, RFID and Label Printing.

Cathal Murtagh, Sales and Marketing Director, VisionID, *"The VisionID philosophy is to be the leading independent supplier of Mobile Computing, Identification and Barcoding solutions to all industry sectors throughout Ireland. VisionID Ltd. was formed to provide Barcode and Data Capture solutions in today's "real time" society. Whatever the industry sector, data capture technology can facilitate improved performance and efficiency, delivering a realistic ROI in a very short timeframe."*

ONG Automation are a Worldwide Solution Provider of Industrial Automation & MES Solutions with their headquartered in Cork, They have offices in Qatar, UAE and USA. ONG Automation are a Wonderware Endorsed System Integrator and a Rockwell Recognised System Integrator for Industrial Automation.

Richard Stapleton, Industrial Solutions Manager, ONG Automation, *" On behalf of ONG Automation we are delighted to be announced as a "VisionID Allianz Partner", We have seen our MES business grow over recent years and customer demands for Turnkey Automation Integration MES solutions and ERP Integration has also grown. VisionID provides us with the Data Capture technology and Technical support to enable us capture this real time data to help our customers improve decision making and increase their profits."*

Recently VisionID has launched a number of new initiatives including a €100,000 investment in a state-of-the-art Service and Support Department, a Professional Services team and a dedicated Software Provider/IT Reseller Channel Manager."

www.ongautomation.com
www.visionid.ie

LtoR: Robert Jones – Managing Director, VisionID
Cathal Murtagh – Sales and Marketing Director, VisionID
Richard Stapleton – Industry Solutions Manager, ONG Automation

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YOUR INDUSTRY (Please Tick)

- 01 Pharma & Chemical Industry ☐
- 02 Consultant ☐
- 03 Contractor ☐
- 04 Education/Training ☐
- 05 Electronics & Electrical ☐
- 06 Engineering ☐
- 07 Food & Drink ☐
- 08 Foreign Inst Manf ☐
- 09 Public Services (incl Govt Depts, Unions, Hospitals) ☐
- 10 Instrument Manufacturer ☐
- 11 Instrument Sales ☐
- 12 Power ☐
- 13 Process Industry ☐
- 14 R&D ☐
- 15 Water & Waste ☐
- 16 Recruitment ☐
- 17 Publisher - Magazines ☐
- 18 Publisher - Books ☐
- 19 Exhibition Organiser ☐
- 20 Public Relations & Journalists ☐
- 21 Software Development ☐
- 99 Other Please give details: ☐

CATEGORIES (Please Tick)

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- 02 Specifier/Consultant ☐
- 03 Supplier ☐
- 04 Manager/Director ☐
- 05 Inst Technician ☐
- 06 Inst Fitter ☐
- 07 Student/Apprentice ☐
- 99 Other Please give details: ☐

Are you involved in choice of purchase of instrumentation? Yes ☐ No ☐

APPLICATIONS (Please Tick)

- 01 Process Control ☐
- 02 T&M ☐
- 03 Laboratory ☐
- 04 Environment ☐
- 05 Safety ☐
- 06 Quality ☐
- 99 Other Please give details: ☐

EMPLOYEE NOS (Please Tick)

1+ ☐ 25+ ☐ 100+ ☐ 500+ ☐

Member ISA Yes ☐ No ☐

Member InstMC Yes ☐ No ☐

Do you read other Instrument Journals?

Intech Yes ☐ No ☐

Control Engineering Yes ☐ No ☐

Instrumentation Yes ☐ No ☐

Other *(name)* Yes ☐ No ☐

Have you access to InterNet? Yes ☐ No ☐

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75 YEARS OF TEMPERATURE

Krohne INOR, the temperature centre of excellence within Krohne, has had major influence on the development of temperature transmitters. Founded 1939 in Malmö, Sweden, Krohne Inor celebrates its 75th birthday this year.

The company was founded as INOR AB by **Alfred Brakl** an Austrian who emigrated to Sweden in the 1930s. It started as a sales company for temperature assemblies and associated components focussing on temperature assemblies from the beginning. Brakl expanded by setting up an assembly and matching services for temperature products. He decided to develop his own temperature transmitter in the 1960s.

From this came a milestone development in temperature transmitters. In 1974, the company introduced the first temperature transmitter built into the connection head. Since then, the design of the head-mounted transmitter has become an industrial standard and helped to extensively promote the name INOR as an innovator

Krohne acquired the company in 2006. By combining both names the strong brand name INOR was accommodated.

Krohne products are marketed here by **DWN Instrumentation**

www.dwn.ie

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The Complete Control Loop

ELEMENT is a complete system approach from Bürkert that allows you to solve process problems. It encompasses the total loop: valves, sensors, positioners and controllers in one beautifully simple architecture which can be relied on to monitor and control inert fluids, steam, corrosive solvents, chemicals or abrasive fluids in a wide variety of application environments. ELEMENT meets all the requirements of the food and beverage industry, as well as the pharmaceuticals and cosmetics industry, in regard of safe process applications and easy-to-clean equipment.

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PIPELINE SUPPLY

bürkert
FLUID CONTROL SYSTEMS

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Mitsubishi strengthens commitment to Ireland

The Mitsubishi Electric Ireland Team pictured with Mr. Uruma CEO and President Mitsubishi Electric Europe B.V., Mr. Furuta President Mitsubishi Electric Europe B.V. UK & Ireland Branches, and Mr. Hartmut Pütz President Factory Automation Mitsubishi Electric Europe B.V. We were afraid to ask what was in the little glasses!

Mitsubishi Electric has re affirmed their commitment to Ireland with the announcement of a multi-million euro investment in their Irish operations.

Spearheading this new development is **Ciarán Moody**, who takes up the post of General Manager for Ireland. At the ceremony to announce Ciaráns appointment and to open a new state of the art customer training and technology facility at their Ballymount offices, Ciarán said *"Mitsubishi Electric has a strong heritage in Ireland going back over 30 years and the latest investment demonstrates Mitsubishi Electric's confidence in the Irish branch and in the Irish economic recovery."*

In addition, the investment in Ireland also represents a jobs boost with staff levels increasing in recent months across the two divisions of Mitsubishi Electric. Those divisions driving growth in the area of sales and marketing across Ireland are the Factory Automation division, which offers a vast range of automation and processing technologies, and the Living Environmental Systems division offering solutions to heat, cool and ventilate your world.

Robot Systems Integrator of the Year

LtoR: Shane Quilligan Operations Manager Modular Automation, Ciarán Moody General Manager Mitsubishi Electric Europe B.V. Ireland Branch, Mike Lane General Manager Modular Automation and Martin Dolan Business Development manager Modular Automation.

Recognising integrators' ingenuity, skill and hard work Mitsubishi has launched their Inaugural European *"Robot Systems Integrator of the Year"* Award. This award recognises the best-in-class Mitsubishi Electric Robot Integrators.

Shannon-based **Modular Automation Ltd**. have been awarded this prestigious title.

ie3a.mitsubishielectric.com

Multifunction Transmitter

Kimo have released their new Multifunction Transmitter, distributed in Ireland through **PJ Boner**. The C310 is part of the new range of Kimo transmitters and features Simultaneous display of 1 to 4 parameters including Temperature, Humidity, Pressure, Air Velocity. It also features Trend indicator with 4 visual (dual-color LEDs) and audible alarms, 2 analogue outputs (4 wires) 0/5-10 V or 0/4-20 mA, 2 additional outputs (optional), 4-relay board (optional), 24 Vdc/Vac or 115/230 Vac power supply. The C310 has a number of communication options including Ethernet & Modbus which can set-up the unit through dedicated software or also via the front key-pad.

www.pjboner.com

Design & reduce costs

Honeywell Process Solutions announced the launch of LEAP™ project services at their recent user group meeting. This service is to help manufacturers in the proces-sing industries get their plants up and running faster and at lower cost.

LEAP combines Honeywell Process Solutions proprietary hardware and software, virtual-isation and cloud engineering to give users greater scheduling flexibility while reducing risk and total automation costs by up to 30 percent. Multiple industries can benefit from an estimated 80 percent reduction in costs related from un-necessary rework. These features can also help reduce avoidable schedule delays by up to 90 percent.

"Automation projects are increasingly difficult to manage — especially as implementations become larger and more complex while still needing to be completed quickly and efficiently," said **Vimal Kapur**, newly appointed president, Honeywell Process Solutions (see People page 11). *"LEAP turns project execution workflow on its head, simplifying what has traditionally been a long and expensive process and enabling measurable time and cost savings so plants can focus on the end goal of getting up and running quickly."*

The innovative approach was featured at the 2014 Honeywell Users Group Americas Symposium (HUG), the company's largest gathering of industrial customers. More than 1,200 attendees, representing

Irish Power & Process have launched a redesigned website.

www.irishpowerandprocess.com

major oil and gas refining, chemical, pulp and paper, and metals and mining companies, among others, are attending the symposium in Texas.

LEAP represents a major departure from the way plants are typically designed and built by using parallel workflows to keep automation systems off critical implementation paths. Traditionally, sequential workflows call for the automation and controls to be implemented during a specified timeframe before the rest of the plant can be completed. This approach poses challenges such as managing changes, which can affect all subsequent steps of the implementation and threaten project schedules and budgets.

LEAP creates separate streams of work for the physical and functional aspects of project design. This approach allows project engineering to take place from anywhere in the world, and removes workflow dependencies to allow core project tasks to start much earlier in the process. It also dramatically minimises the cost and volume of rework typically associated with automation projects.

LEAP specifically combines three key core technologies available in Honeywell's Experion PKS Orion:

- Universal Channel Technology – Honeywell's proprietary solution allows instant remote configuration of channel types, standardised input/output cabinets, reduction or elimination of marshalling cabinets and reduction in equipment needed._
- Virtualisation – Use of virtual machines in the control system removes dependencies between the functional and physical design, enables standardised server cabinets, reduces hardware requirements and delivers corresponding savings in space, power, cooling and weight.
- Cloud Engineering – Engineering in a secure, centrally hosted cloud environment allows project execution and testing anywhere in the world, delivering improvements in collaboration and travel savings.

See our report on the Honeywell User Group meeting – HUG2014 on line at

wp.me/pt7Kv-24E

Robust and safe

While other remote I/O solutions on the market usually have a one-year warranty, R. Stahl, marketed here through **Douglas Control & Automation**, has voluntarily extended the warranty for its robust hazardous area IS1+ system to three years – without any extra charge. The explosion protection expert takes this step in the wake of extremely successful lab trials as well as very positive experiences garnered from extensive practical tests. Even under very rugged conditions and strained to the limit of their resilience, e.g. in continuous operation at temperatures up to +90 °C and exposed to repeated tempera-ture changes from -40 to +95 °C, IS1+ modules proved virtually indestructible: no defects or failures occurred. Due to a new low power design for the modules that ensures minimal power loss and effective heat dissipation via the housing, IS1+ allows for an extended ambient temperature specification covering a wide range from -40 to +75 °C. This also means that the modules will reach an extraordinary lifespan of up to 15 years in applications with more moderate conditions. In addition, since the modules' power consumption has been reduced by up to 50%, energy costs for the operation of process plants are decreased as well.

IS1+ offers outstanding functions and features, such as mixed modules with I/O parameterisation as well as diagnoses and maintenance alerts according to the NAMUR NE107 scheme. The versatile Remote I/O system supports hot work and hot swapping, which makes it very cost-efficient: thanks to its consistently intrinsically safe structure with an intrinsically safe fieldbus based on either PROFIBUS DP or an Industrial Ethernet implementation with Modbus TCP, EtherNet/IP, or PROFINET, the system can be easily extended or reconfigured in hazardous areas. In addition to international explosion protection certificates for all major and medium-sized markets, IS1+ also features several shipbuilding approvals, which makes the system suitable for virtually universal use worldwide. Offering more than 30 years of experience in the systems business and know-how regarding all standard automation systems as well as corresponding bus protocols, R. STAHL is capable of customising IS1+ setups to user requirements and delivering turnkey solutions.

www.douglas-esl.ie/

Inline US Flowmeter

The NEW Sonic-Pro® S4 is an inline Ultrasonic flowmeter featuring flow measurement technology with no moving parts, and no internal liners to wear out.

The S4 Inline pipe fittings facilitate installation of the meter.

The meter is capable of measuring water flow using the Transit Time method. A special low power mode permits operation with battery for limited functions.

Optional advanced data communication protocols include Industrial Ethernet, Modbus RTU, Modbus TCP, PROFIBUS TPV1, and PROFINET. Download data logging files directly to a flash drive via USB. Dual relays for rate alarms, total alarms, or proportional feed control.

The Sonic-Pro S4 Ultrasonic flowmeter is NSF 61 Certified, the housing is NEMA 4X (IP 66) for wash-down. There is a comprehensive two year warranty.

www.bluewhite.com

GWR to SIL3

Emerson's Rosemount® 5300

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The future of the energy industry

COPA-DATA Energy Experience Day review

The industrial software and energy automation expert COPA-DATA hosted the Energy Experience Day last May. This was an event aimed at addressing the challenges currently faced by power utilities, municipalities and grid operators.

The energy industry, having gone through drastic changes over the last hundred years, now faces a new frontier of innovation. Usability, design, independence and the ergonomics of process control are paving the way for most critical industries. Sectors such as pharmaceutical, energy and infrastructure, food and beverage, manufacturing automation and automotive are seeking to revolutionise human interconnectivity.

Host to a series of expert presentations, the Energy Experience Day delivered insight into the key issues of standardisation and collaboration within the industry. **Martyn Williams**, Managing Director of COPA-DATA UK, kicked things off with a keynote speech looking at how far the industry has come over the last hundred years and what the future holds. *"The future of the energy industry is hugely dependent on continuous progress in the field of Smart Grids,"* he explained. *"Industrial automation software is one of the keys to creating a national grid system that is smart enough to meet the rising demand for energy and integrate renewable energy sources. Products like the zenon Energy Edition make interfaces more efficient, ergonomic and user-friendly, while also increasing the security of substations, power plants and wind farms."*

Focusing on substation automation and smart infrastructures, industry experts from Intel, Mitsubishi, Advantech, Bilfinger and the University of Salzburg spoke at the event. The discussions centred on the need for standardisation within the energy supply chain.

In particular, the importance of standards such as IEC 61850, an embedded protocol used in SCADA systems, was highlighted as the gateway to cost effective, multi-vendor substation automation. Its role in helping companies bridge the gap between centralised control and the increasingly dispersed nature of geo-information systems, was emphasised.

Ross Corfield, EMEA Market Development Manager for Intelligent Transportation at Intel, spoke about the Internet of Things (IoT), end-to-end (E2E) connectivity, infrastruc-ture security and the growth of cloud computing.
"Intel is very keen to understand the issues and challenges faced by the energy sector," he said. *"The COPA-DATA Energy Experience Day is the perfect opportunity to connect with people who operate on the ground and face these challenges on a day-to-day basis. For us, the event has been about how Intel can design the best technology that will make a difference for the future of energy."*

Jürgen Resch

Jürgen Resch, Industry Manager for Energy at COPA-DATA, stressed the importance of best practice in substation automation. He demonstrated how the optimisation of software architecture has now improved control capability over geographically remote locations using portable and mobile devices.

Cost reduction was another key area highlighted by several speakers at the event. **David Bean**, Infrastructure Sales Manager at Mitsubishi UK, spoke about how effective telemetry and data management can yield significant cost savings in substation automation. **Tony Milne**, Manager for Power and Energy at Advantech, expanded on the topic of effective multi-vendor automa-tion. He explained how IEC 61850 enables multi-vendor systems for substations to improve technical features, reduce costs and facilitate commissioning or installations.

Nigel Allen, Sales Manager at Bilfinger Industrial Automa-tion Services, developed on the challenges faced by a non-integrated system which includes multiple companies, energy sources, interfaces, programming techniques and communication protocols. He then moved on to explain how Bilfinger addressed some of these challenges in an offshore wind farm project and an energy management applica-tion for large buildings.

Sébastien Roberto, Sales Manager at COPALP, COPA-DATA's French subsidiary, also discussed the software needs of the energy industry. He emphasised the importance of using universal tools, which support protocols like IEC 61850, IEC 60870, MODBUS, DNP and DLMS/COSEM. He also stressed the importance of remote access, including online debugging and soft scope for the future of the energy industry. "The key," Roberto concluded, "is to optimise resources, to ensure the reliability of products and make customers' lives better."

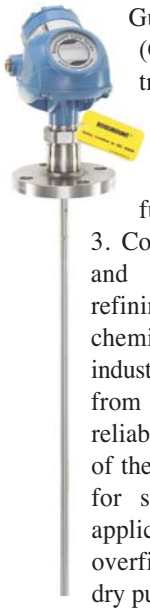
Simon Back, Researcher at the Salzburg University of Applied Sciences, offered a comprehensive presentation regarding the potential of bridging SCADA systems and Geo-information systems (GIS) for the energy sector, particularly in the field of Smart Grids. For example, he explained, GIS can help visualise the position of electric consumers, generators and power lines of a Smart Grid, while SCADA can fulfil the surveillance and control function of the system.

Overall, the Energy Experience Day was received well by the public. Attendees included engineers and analysts from all parts of the industry including the National Grid, Alstom, Atkins and Network Rail.

"The configuration specification [IEC 61850] is the key to industry development," said **Ray Zhang**, Tech Leader of Automation Engineering at National Grid. *"This is a wonderful forum for utilities developers, manufacturers and systems integrators to get together and share experiences and information."*

"The Energy Experience Day was all about giving people an idea, an inspiration about what can be achieved with standardised software, independence, ergonomics, IEC 61850 and collaborative partners," explained Martyn Williams. *"All of us at COPA-DATA would like to thank the attendees and we look forward to building on the success of this event with a follow-up session to be arranged for later this year."*

Products from page 7



Guided Wave Radar (GWR) level transmitters are now certified to IEC 61508 for safety instrumented functions up to SIL 3. Companies in the oil and gas production, refining, petrochemical, chemical and power industries can now benefit from the accuracy, reliability and flexibility of the 5300 Series GWR for safety-critical level applications such as overfill prevention and dry pump protection.

The functional safety assessment was performed by the independent global organisation exida. It covered SIL 2 rated safety applications in a single configuration, and SIL 3 rated safety applications in redundant mode. The certification means that the Rosemount 5300 GWR is suitable for continuous level measurement in safety instrumented functions up to SIL 3, as defined in IEC 61511 for applications in the process industry.

Traditionally, fixed point-level devices have been used for overfill prevention and dry pump protection. The Rosemount 5300 GWR provides all the benefits of continuous level measurement, including the actual product surface location _ confirming that the level sensor is functioning correctly. The high and low level alarms are set up locally or remotely during the installation and configuration process.

Proof testing is required at regular intervals to confirm that the overfill and empty tank protection functions result in the desired system response. These conditions can be simulated either locally using a HART-compliant master, such as a Rosemount Radar Master or a Field Communicator, or remotely using Emerson's AMS Suite software. By removing the need to perform traditional wet tests, which require the tank to be under or overfilled, the cost and risks associated with proof-testing are considerably reduced.

The Rosemount 5300 Series is a two-wire GWR for challenging level and interface measurements on liquids, slurries and solids. The Direct Switch Technology (DST) function increases measurement reliability and capability. In addition to improving the signal-to-noise ratio, DST enhances the ability to handle disturbing factors, longer measuring ranges, and lower dielectrics, even with a single probe. Maintenance-free operation improves uptime, and advanced configuration and extensive diagnostic information is available through the RadarMaster and EDDL-based user interface.

www.Rosemount.com/level

The perfect match!

As in past years, PI (PROFIBUS & PROFINET International) has initiated a certified count of devices used in the market. The returned figures show that in 2013 the trend of strong growth for PROFINET and PROFIsafe continued while PROFIBUS maintained its very high level. There were 3.6 million new PROFIBUS nodes in the market in 2013. This increased the number of installed PROFIBUS devices to over 47.4 million. Of these, 8.2 million are incorporated in process automation plants. With a growth rate of newly added nodes of 20%, the number of PROFINET devices installed now stands at over 7.6 million. Particularly pleasing was the above-average growth rate of PROFIsafe of 33%, bringing

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TECHNICAL TALK

PROFIBUS Ireland in association with **ISA Ireland**, held a technical talk recently on " Continuous Monitoring and diagnosing PROFIBUS network using COMbricks."

Hassan Kaghazchi presented the basics of Profibus technology, and the benefits of continuous monitoring of these networks using COMbricks. A live demonstration of diagnosing Profibus DP networks, as well as access to Profibus PA network using COMbricks was given. The seminar attracted over 20 participants from local industry which mainly included chemical and pharmaceutical companies who commented favourably afterwards.

More talks are planned for Dublin and Limerick During the year.

www.profibus.ie

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- Analytical/Precision Balances
- Bench/Platform Scales
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www.scales.ie

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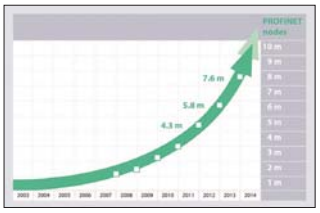
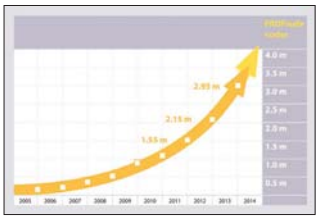
NSAI Legal Metrology Service AUTHORISED VERIFIER

The Perfect Match from page 9

the total number of installed devices now to 2.95 million.



PROFINET increased its installed base to 7.6 million in 2013



2.95 million PROFIsafe nodes installed.

The trend of strong growth shared by PROFINET and PROFIsafe is not a coincidence. PROFINET is well established in the market and is currently playing a leading role in many industry sectors, such as the automotive industry. Many users are also taking advantage of the switch to Ethernet-based communication in order to implement functional safety via a bus system. That is why a disproportionately high number of PROFINET devices delivered today also include PROFIsafe functionality. Users are also benefiting from the fact that existing PROFIsafe installations with PROFIBUS can continue to be used. PROFIsafe operates independent of the fieldbus and can be used across network boundaries. The future-proof nature of PROFIsafe and its unrivaled technical capabilities and features make it the undisputed market leader among fail-safe bus systems.

www.profibus.ie

Major Automation Survey

The last decade has seen major changes in the Automation industry with significant peaks and slumps in the market. General indications are that the industry is experiencing growth again over the past 18 months. Simotech have organised this Automation Market Survey as described below.

- **Survey Objective:** To benchmark the state of the Automation industry in Ireland we have created this survey. It plans to be the most comprehensive insight into the views of employers, employees and suppliers.

- **Motivation:** The survey is to help us all in the automation community of practice, employers, employees, and contractors to understand the current automation marketplace for engineers. It will help us all to understand career expectations, salary expectations, locations, technical capabilities, and the career paths into automation and migration into more senior positions.

- **For Engineers:** it will help them gauge where they are with their career expectations, salary benchmarking against their peers, business growth forecasts, the most popular locations for engineers and much more.

- **For Employers:** It will help them understand what motivates the automation engineering community, remuneration benchmarks, how to attract the best engineers into the best positions. It will also assess the sentiment for growth across various industry sectors, etc.

- **We respect your time.** The survey should take no more than 6 minutes and is simple to complete with no open ended written responses required.
  Survey Success will be dependent on getting a wide spectrum of engineers and employers across all industry sectors, so please feel free to pass onto your colleagues and employees.

- Your privacy is important to us. We guarantee that no personal or systems information will be recorded as part of this survey.

- **Appreciation:** You have the option to enter into a draw for an Apple iPad mini on completion of the survey. To enter the draw, simply forward us the entry form at the end of the survey and we will send you on the complimentary report when published and enter you into the draw. We respect corporate giving policies so we will also make a donation to UNICEF in lieu of those who do not wish to enter the draw.

This is the link to the survey - There is also a link to the survey on our home page (read-out.net)
http://www.surveymoz.com/s/114210YRXFK

Brian O'Sullivan

Kenny Syder

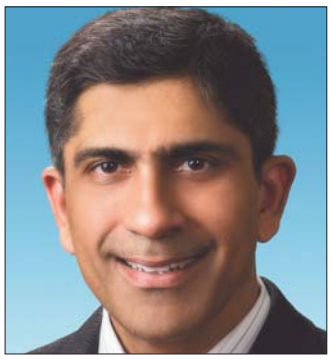
P.J. Boner have added Brian O'Sullivan and Kenny Syder to their Technical Sales Team
Brian is a qualified degree level engineer and has worked in a number of the largest Pharma and Medical device companies in Ireland, he is bringing an expert and qualified knowledge to their technical sales team primarily focusing on their Instrumentation product sales and calibration services.
Kenny has worked with the company as a Weighing Technician and has made the move to the technical sales team to deal with customers on all aspects of weighing products including scales, balances, load cells and systems plus PJ Boner's weighing calibration & verification service. Kenny, also degree level, has a number of years experience in Semi-Conductor facilities and in a number of weighing roles prior to joining in the company last year.

Instrument TECHNOLOGY www.calibrate.ie

Automation people

The AGM of the ISA was held recently and Alan Bateman was elected President. Among those present were Front Row- *LtoR:* ***David O'Brien*** *Secretary,* ***Alan Bateman*** *President,* ***Liam O'Brien*** *Past President,* ***John Lotty*** *PRO,* ***Billy Walsh*** *Membership Chairperson*
Back Row: ***Brendan Barry***, ***Brian Curtis*** *DVP ISA EMEA (Dist 12),* ***Paul Murray, Brendan Curtis*** *WEBSITE Chairperson,* ***Kieran Coughlan*** *and* ***John Murphy***

Liam O'Brien passes the chain of office to new President Alan Bateman at the meeting!



Vimal Kapur has been named president of Honeywell Process Solutions (HPS) He has been with Honeywell for more than 25 years.

Headwall Photonics has appointed **Tom Breen** has joined the Company as Director of Global Sales.

Atlas Copco has announced the appointment of **Mark Keen** as Business Line Manager for its Compressor Technique Service (CTS) division.

Robert Morton has been appointed Vice President of Europe with National Instruments. He has been the MD of the Ireland and Britain operation of the company. As VP of Europe, Morton is responsible for NI sales, marketing support and general and administrative operations in the greater European region.

B&B Electronics has appointed technology industry veteran **Gary Sheedy** as the General Manager of its EMEA operations based in Galway, Ireland. He will manage the EMEA sales teams and have P&L responsibility for the EMEA operation. He will also take on an international business development role.

AUTOMATION EVENTS

Exhibitions
Conferences
Symposia
Courses
Technical Meetings

read-out.net/signpost/expo.html

Appointment

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Reward:	Commensurate with Ability to Contribute and Results.

CV and Full Details to: joy@petrochem.ie

petrochem
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HEAD OFFICE
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