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Honeywell Analytics fire and gas detection



Welcome to the May 2007 issue of *ICEnews*, the Instrumentation, and Control Engineering news source. A formatted version of this newsletter can be found at <http://www.iceweb.com.au/icenews/icenews5-2007.pdf>. ICEnews is a compendium of useful information which we endeavour to issue quarterly.

We want to make this newsletter a source of information that YOU can use in YOUR job, while also keeping you informed on what is happening in our industry both directly and indirectly. If you have something you would like to contribute, please send it to the editor at Ian Verhappen (<mailto:ian.verhappen@iceweb.com.au>) or Jim Russell (<mailto:jimrussell@iceweb.com.au>). We welcome your Press Releases, information, AND any technical articles you may have that could be appropriate for this newsletter or our web site <http://www.iceweb.com.au>.

ICEweb's primary purpose is to disseminate information about Instrumentation, Control Engineering to you the practitioners and developers of these arts. In March ICEweb received a record 35,000 page views and a new record is being achieved virtually every month. ICEnews is another mechanism to get this information out to you. Our database is in excess of 1600 quality contacts.

The authors encourage you to support our newsletter sponsors and also appreciate if you tell those companies to which you reply based on this newsletter that the inquiry is based on an article in ICEnews. Thank you.

As an ICEnews member you are on our mailing list so that we can keep you up-to-date technical information.

At ICEweb/ICEnews we take Spam very seriously and aim to make any information that we send out useful and informative.

Whilst we encourage you to remain on the mailing list to benefit from this important information, we would like to provide you with the option of removing yourself from our mailing list.

If you no longer wish to receive information from ICEnews, please reply to this email with "unsubscribe" in the subject line or contact <mailto:jimrussell@iceweb.com.au> and just put "unsubscribe" in the subject line.

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The newsletter materials are 'subdivided' into various topics as follows though not all categories may be present in every issue:

ICEart — Technical articles related to instrumentation and control.

ICEbus — Information on any of the 26 different bus systems in use in the area of instrumentation and control. The authors however have a definite bias towards Foundation Fieldbus.

ICEfolks — News about promotions and changes people in the Instrumentation Control Engineering world.

ICEletters — electronic newsletters of potential interest to our readers.

ICEmerge — Mergers and acquisitions in the Instrumentation Control Engineering community

ICEnet — Internet related topics and sites that may be of interest to our readers. In addition to ICEWEB that is.

ICEnew — Great new technical links posted on <http://www.iceweb.com.au/new.htm>

ICESponsor — Newsletter sponsor recognition. Normally at the beginning and end of the newsletter. These people have kindly contributed to the creation and sharing of this information by offsetting the costs associated with its production and distribution.

ICEtime — Seminars, Tradeshow, Conferences and Events of interest to our readership.

ICEtools — Software and offers that will help with engineering design.

ICEart

Emerson Process Management has announced a multi-million dollar renovation and expansion of its Fisher® control valves research and development facilities in Marshalltown, Iowa.

http://www.emersonprocess.com/home/news/pr/701_valvelab.html

Emerson Process Management has announced that the 375 Field Communicator expands support to more than 1000 devices

http://www.emersonprocess.com/home/news/pr/702_375-1000.html

Raytek's new CS200 Process Imaging System for Kiln Shell Temperature Monitoring. is a unique combination of infrared sensor technology and a powerful, industrial software program allows accurate detection and monitoring of refractory hot spots to prevent costly kiln damage and extend production runs between refractory replacement.

http://www.raytek-europe.com/tools/news/view.html?phase=show&id=1172486620&tool_id=7&cat_id=5.2&PHPSESSID=publicRaytekEurope

Also some useful technical articles on non contact temperature measurement can be found at

http://www.raytek-europe.com/tools/news/view.html?phase=show&id=1172486620&tool_id=7&cat_id=5.2&PHPSESSID=publicRaytekEurope

Rockwell Automation and Cisco are working together on reference architectures, such as EtherNet/IP, and detailed design guidelines for the use of common networking technologies across the production and enterprise network. The validated, lab- tested architectures, part of Cisco's "Ethernet to the Factory" solution, will enable the successful deployment of Ethernet-based production networks and secure integration with the rest of the enterprise.

Over the years it has been difficult to source Exd Certified immersion heaters and often this has led to a certification nightmare for those engineers responsible for the associated equipment packages. A technical article outlining a solution can be found at

<http://www.grimwoodheating.com.au/HazardousAreaHeating.htm>

The HART Communication Foundation (HCF) has completed the draft specifications for WirelessHART Communication and released them to HART member companies for review and approval. WirelessHART is a backward compatible extension to the HART Protocol, providing the same user experience that users expect from HART-enabled products.

A new report from the Department of Commerce's National Institute of Standards and Technology (NIST) for organizations planning to use radio frequency identification (RFID) technology to improve their operations warns users they should also systematically evaluate the possible security and privacy risks and use best practices to mitigate them.

The new NIST publication focuses on RFID applications for asset management, tracking, matching, and process and supply chain control. Its list of recommended practices for ensuring the security and privacy of RFID systems includes:

- firewalls that separate RFID databases from an organization's other databases and information technology (IT) systems;
- encryption of radio signals when feasible;
- authentication of approved users of RFID systems;
- shielding RFID tags or tag reading areas with metal screens or films to prevent unauthorized access;
- audit procedures, logging and time stamping to help in detecting security breaches;
- tag disposal and recycling procedures that permanently disable or destroy sensitive data.

NIST prepared the new report as part of its responsibilities under the Federal Information and Security Management Act of 2002 to help federal agencies provide adequate security for their information technology systems. However, its recommendations for selecting appropriate security controls for RFID systems are likely to be useful to other types of organizations as well.

The full document (154 pages!) can be downloaded from

http://csrc.nist.gov/publications/nistpubs/800-98/SP800-98_RFID-2007.pdf

The Chemical Industry Data Exchange (CIDX) has renewed its mission and expanded its scope to cross industry boundaries into areas that are covered by other standards. CIDX's new mission and scope includes looking into ways to help members with standardized integration between various internal domains. This translates into expanding the existing standards to address new and evolving areas, such as RFID, and aligning the existing standards with other industry standards efforts, and possibly adopting standards from other organizations to satisfy new areas.

After their preliminary investigation of options, CIDX decided to perform a detailed analysis of adopting the United Nations (UN) CEFACT, Core Components strategy. The Core Components strategy is essentially a bottom up convergence strategy, starting with adopting basic data elements, then adopting data objects, and so forth. The general idea is that if all standards bodies do this, only the industry unique parts will remain in the end. OAGi was an early adopter of Core Components, and since they are used heavily in the automotive industry, collaborations with OAGi, as well as the Automotive Industry Action Group (AIAG), are likely to be an effective first step. Other collaborations will be necessary to completely satisfy the new mission and these will come in time according to member needs.

ICEbus

ISA's Electronic Device Description Language (EDDL) standards committee, ISA-SP104, has launched a new website that gives information about the standard and offers resources for learning more about EDDL technology. The Electronic Device Description Language (EDDL) standard advances interoperability of devices in control systems and handheld communicators. Integration of all functionality in simple sensors through complex drives using different protocols is facilitated. Device diagnostics, asset management and user interface displays enabled by EDDL enhance reliability and performance.

<http://www.eddl.org>

ISA-SP104 Committee and the ISA Standards and Practices Board have approved ISA-61804-3 (104.00.01), *Function Blocks (FB) for Process Control – Part 3: Electronic Device Description Language (EDDL)*. This standard, which is an identical adoption of the IEC standard of the same title, specifies EDDL as a generic language for describing the properties of automation system components. The standard is now before the American National Standards Institute for final approval.

ISA-SP104 also plans to begin the voting process in late April to adopt a related IEC Technical Report, IEC/TR 61804-4, *Function Blocks (FB) for Process Control - Part 4: EDD Interoperability Guideline*, as an ISA technical report. The technical report contains an overview of the use of EDDL, provides examples of the use of the EDDL constructs, shows how the use cases are fulfilled, and shows the proper EDD application interpretation for each example.

The EDDL Cooperation Team (ECT) and the FDT Group have announced that they have reached agreement to combine efforts and work toward a unified solution for device integration that is compatible with both technologies.
http://www.isa.org/Content/ContentGroups/News/20071/April33/FDT_EDDL_unite_for_device_integration.htm

Foundation Fieldbus Competency - Project Training Recommendations - This article outlines a suggested approach for staff training in any new FOUNDATION™ Fieldbus (FF) project – including both greenfield and brownfield sites - Thanks to Seacove Systems-Australia -
<http://www.seacove.biz/REPORT/FFskills.pdf>

Foundation Fieldbus Training in Australia - A Variety of Courses from Seacove Systems
<http://www.seacove.biz/COURSE/SCStrain.htm>

Introduction to Fieldbus - This technical paper covers how fieldbus works, shows how to connect instruments, and explains why—in most cases—you can't realistically connect all 32 instruments on a single fieldbus segment. It also discusses the differences between PROFIBUS and FOUNDATION fieldbus, FISCO vs. Entity intrinsically-safe fieldbus systems, installing redundant segments, and EDDL vs. FDT - Thanks to MooreHawke Fieldbus.
http://www.miinet.com/products/data_sheets/fieldbus.pdf

What is HART? - A technical paper from our sponsor MTL Australia
http://www.mtl-inst.com/products/hart/datasheets/what_is_hart.pdf

Have you wondered what EDDL is all about? The paper Digital Fieldbus Installations Use EDDL Technology for Simplicity with Advanced, Full Functionality- has the answers- Thanks to Emerson Process Management - http://www.emersonprocess.com/home/library/articles/iee/ieecce0412_eddl.pdf

The PlantWeb University has excellent courses on Foundation Fieldbus. You will have to log on but it is worth the effort!
http://plantweb.emersonprocess.com/university/engSch_Fieldbus_XML.asp

HART v Foundation Fieldbus – The Facts and the Real Difference -Jim Russell - Thanks to ICEweb
The question is often asked “Why should I install Foundation Fieldbus™ when the features are all available with HART?” This White paper addresses this question, provides some of the answers and covers the following;

- The Technologies
- Differences, Advantages and Disadvantages
- Why some Manufacturers / Suppliers continue to push HART and put up a “Smokescreen”
- Brownfield and Greenfield Plants- What technology should be used
- Simple HART v FF Comparison Chart

<http://www.iceweb.com.au/Instrument/FieldbusPapers/HART%20v%20FF%20PAPERfinal.pdf>

Risknowlogy®, <http://www.risknowlogy.com> has joined Fieldbus Foundation's Safety Instrumented Systems working group as Safety Certification Experts. The TÜV approved communication protocol enables manufacturers to build Fieldbus Foundation devices in compliance with IEC 61508. Third-party test agencies such as Risknowlogy or TÜV will certify that these devices are suitable for use in safety instrumented systems. End users will be able to choose devices meeting the requirements of IEC 61511 from multiple suppliers, instead of being restricted to devices designed specifically for a proprietary safety system platform.

Softing, and Aniotek Inc., announce the availability of its new fieldbus chip UFC100-F1. The UFC100-F1 (Unified Fieldbus Controller) is fully - pin and software - compatible with the Yamaha YTZ420 ("FIND1+").

At its General Assembly the Fieldbus Foundation announced the following new materials: Press Releases and Press Briefing Slides:

http://www.fieldbus.org/index.php?option=com_content&task=view&id=304&Itemid=281#1, Keynote: http://www.fieldbus.org/index.php?option=com_content&task=view&id=269&Itemid=259, and scroll to the bottom for two new White Papers

http://www.fieldbus.org/index.php?option=com_content&task=view&id=150&Itemid=326

As predicted by ICEnews in the past, the EDDL Cooperation Team (ECT) and FDT Group have agreed to combine efforts and work towards a single, unified solution for device integration compatible with both technologies. The announcement made at the Interkama exhibition, lays the groundwork for developing a common device integration technology benefiting both instrumentation end users and manufacturers. As part of the agreement, the FDT Group will join the ECT as its newest member. The two organizations will work together to finalise this solution and achieve a common framework meeting the requirements of all parties. Future technology developments will use a subset of the OPC Unified Architecture (UA) within a client-server architecture. In addition, both groups have agreed to consolidate the advantages of EDDL and FDT technologies under a new banner called FDI.

SERCOS trade organizations have announced Easy-I/O, a free software core for low-cost FPGA chips, which allows the Ethernet-based SERCOS III interface for motion and I/O to be integrated into basic I/O slave devices with a minimum of development and integration effort.#

An FDT tool has been developed and release for the CIP network protocol. As a result, the next editions of the DeviceNet, ControlNet, and EtherNet/IP Specifications that include the DTM configuration option are now available from ODVA.

ICEed

The Foundation Fieldbus End User Council Australia has announced Essentials and Configuration Course dates for 2007, for full details see <http://www.fieldbus.org.au/training/>

IDC <http://www.idc-online.com> have two new offerings. The first is a series of on-line training courses that allow you to study without travel or borders and the other is their 15 volume Instrumentation technical library. Both are an excellent way to keep your skills up-to-date or to learn new ones.

The Fieldbus Center at Lee College <http://www.knowthebus.org> is offering a FOUNDATION(tm) fieldbus training course "Fieldbus for Power and Wire Installers." The two-day course covers installation and testing of fieldbus physical layer components.

The Fieldbus Center at Lee College (Baytown, TX) and Tri-State University (Angola, Indiana), have established a license agreement for sharing fieldbus training resources.

The FDT Group have moved to FDT Group AISBL , Twin Squares-NCI Business Centre, Culliganlaan 1B, B-1831 Diegem, Belgium

ICEfolks

Andreas Agostin has joined MTL as Industrial Network Sales Specialist and will be based in their Singapore office.

Jim Perkins has been named managing director of Drives Services, USA for ABB. Perkins will be responsible for leading, directing and managing the life-cycle product service and support strategies, capabilities and implementation for LV & MV Drives businesses

Australian company AMS NSW office has moved to 9 Wrights Road, Drummoyne, NSW, 2047.

ICEletters

Subscribe to this newsletter by registering your e-mail address at <http://www.ICEweb.com/au/icenews/register.htm> or sending a note with the subject 'subscribe ICEnews' to <mailto:jimrussell@iceweb.com.au>

ICEmerge

MTL have acquired Australian Industrial Wireless company Elpro for £12 million to round out their offerings in this area.

Industrial manufacturer Eaton Corporation announced it has acquired the remaining 50 percent ownership of Schreder-Hazemeyer (S-H) from Schreder SA. Schreder-Hazemeyer is a manufacturer of low and medium voltage electrical distribution switchgear based in Brussels, Belgium.

Emerson Process Management has acquired marine tank management provider Damcos Holding A/S from the 3i Group PLC of the U.K.; Danfoss A/S of Nordborg, Denmark; and the Damcos management team. Along with marine tank management, Damcos is a supplier of valve remote control systems, tank monitoring equipment, and complete marine tank management solutions to the global marine and offshore markets.

The advanced process control and optimisation business unit of software provider PAS Inc has been acquired by Honeywell.

Cable supplier Belden has acquired Hirschmann.

K-TEK LLC, a leading manufacturer of state-of-the-art level instrumentation has announced the acquisition of KAB Instruments Pty Ltd and their line of non-contact ultrasonic level measurement equipment.

Emerson Process Management has announced a change in the brand name of the company's TankRadar[®] gauging systems from Saab Rosemount to Rosemount[®]. They have also changed the brand name of the company's densitometers product line from Solartron[®] to Micro Motion[®].

Rockwell recently sold off its Reliance power systems division to Baldor Electric for \$1.75B in cash and about \$50 million in stock. The sale, which is expected to close by April, came after much speculation. Reliance Electric and Dodge brand names include electric motors, bearings and gears, century old businesses.

ICEnet

Have you wondered about the speed of your broadband internet connection? Check it out on the following sites;

<http://www.speakeasy.net/speedtest>

<http://www.zdnet.com.au/broadband/speedtest.htm>

What is the difference between kilobits and kilobytes? The following link has a good explanation.

<http://support.westnet.com.au/display/4/kb/faq/viewarticle.asp?qid=1192&aid=2262&tab=search&r=0.6352459>

ICEnew

This is a section that highlights those useful technical links that are new to ICEweb.

Thanks to our sponsor HIMA Australia the following pages have all had a significant upgrade with new technical information being added;

Control - <http://www.iceweb.com.au/Control/Control%20Web.htm>

Burner Management - <http://www.iceweb.com.au/BurnerManagement/burnermanagement.htm>

Safety Instrumented Systems - http://www.iceweb.com.au/sis/sis_index.htm

The ICEweb Level Page has been updated with new information -

<http://www.iceweb.com.au/Level/LevelWeb.htm>

Certification of Diesel Engines in Hazardous Areas - A useful technical information sheet from SIRA

<http://www.siracertification.com/UserDocs/resource%20info/Diesel%20Engines.pdf>

AN9003 A user's guide to intrinsic safety - This is an excellent reference -thanks to our sponsor MTL Instruments Australia - <http://www.mtl-inst.com/appnotes/an9003/index.htm>

The following pages have been updated with lots of new information thanks to our sponsor MTL Instruments Australia;

Electrical Equipment in Hazardous Areas- <http://www.iceweb.com.au/Ex-web/HA%20Tech.htm>

IS barriers and Isolators - <http://www.iceweb.com.au/Ex-web/ISbarr+Isol.htm>

ICEweb's [Surge and Lightning Protection](http://www.iceweb.com.au/Surge+Lightning/Surge+lightning.htm) page has been completely updated with many new technical links

- <http://www.iceweb.com.au/Surge+Lightning/Surge+lightning.htm>

The following excellent papers on Controlling Equipment have been made available by Walter Driedger as a service to other engineers, find them via ICEweb's Control page

<http://www.iceweb.com.au/Control/Control%20Web.htm>

- Controlling Centrifugal Pumps
- Controlling Positive Displacement Pumps
- Controlling Shell and Tube Heat Exchangers
- Controlling Steam Heaters
- Controlling Fired Heaters
- Controlling Vessels and Tanks
- Connecting and Interpreting Limit Switches Optimum Settings for Automatic Controllers- By J.G. Ziegler and N. B. Nichols, Rochester, N. Y.

The following additional papers have been posted on our Manufacturing and Automation Safety page thanks to our sponsor Pilz

- Safety PLC delivers uncompromising emergency stop safety at new Darwin fuel terminal
- Pig tamed: Safety system monitors 119 wine paths at Wolf Blass
- Programmable Safety Systems tame synchrotron's silent hazards travelling at the speed of light - The newest and biggest piece of scientific equipment built in Australia a huge safety challenge - the Australian Synchrotron shoots electrons around its 216 metre circumference in just 720.5 nano seconds.
- Safeguards at Australia's nuclear reactor world's best -when the world's most brilliant scientists use a new Australian Nuclear Science and Technology Organisation experimental facility, they will be protected from radiation exposure by a meticulously designed network of Pilz Programmable Safety Systems.

<http://www.iceweb.com.au/Manu+Auto%20Safety/man&autosafety.htm>

ICEweb has developed a new Gas Detection page, thanks to our sponsor Honeywell Analytics

<http://www.iceweb.com.au/F&g/GasDetect.htm>

Fieldbus Diagnostics, Without Fieldbus -George Buckbee and Tom Kinney, ExperTune Inc.- Digital field buses are often justified on the basis of the benefits of advanced diagnostics. This paper investigates and shows alternative technologies to capture diagnostics.

<http://www.expertune.com/articles/ISA2005Fieldbus.pdf>

ABB's ATEX jargon buster explains the terminology users are likely to encounter when purchasing equipment for hazardous areas.

[http://www02.abb.com/global/seitp/seitp202.nsf/0/80b84ec385c362f6c1256f2e0051252c/\\$file/ABB+ATEX+Jargon+Buster+--+for+INSTRUMENTATION+users.pdf](http://www02.abb.com/global/seitp/seitp202.nsf/0/80b84ec385c362f6c1256f2e0051252c/$file/ABB+ATEX+Jargon+Buster+--+for+INSTRUMENTATION+users.pdf)

For our Australian readers it is worth noting that there have been some standard updates on our Australian Standards for Electrical Apparatus in Hazardous Areas page.

<http://www.iceweb.com.au/Ex-web/electstandards.htm>

New technical information has been added on ICEweb's Enclosure and Terminal pages, thanks to our sponsor Weidmuller

<http://www.iceweb.com.au/Enclosure/Enclosures.htm>

<http://www.iceweb.com.au/Terminals/terminal.htm>

The following excellent technical papers have been added to our comprehensive Safety Instrumented Systems page, thanks to our valued sponsor HIMA

- Functional Safety: A Practical Approach for End-Users and System Integrators
- Modern 2004-Processing Architecture for Safety Systems
- Safety Bus Systems
- Introduction in Safety Bus Systems
- Safety Critical Software
- Safety Systems
- Comparison of PFD calculation

http://www.iceweb.com.au/sis/sis_index.htm

A new technical paper Care of pH, ORP, and pH/ORP combination sensors- from Tony Arnerich- In-Situ Inc has been added to ICEweb's comprehensive pH page.

<http://www.iceweb.com.au/Analyzer/ph.htm>

Water Level Accuracy and Correcting for Errors due to Gravitational Acceleration and Liquid Density - Ronny D. Harris, Ph.D -from In-Situ Inc- Now on ICEweb's Level page.

<http://www.iceweb.com.au/Level/LevelWeb.htm>

New technical papers have been added to our Ultrasonic Flow page, thanks to our sponsor Zedflo Australia.

<http://www.iceweb.com.au/Flow/ultrasonic.htm>

Our Test and Calibration pages have been re-worked with new technical papers, thanks to our sponsor Zedflo Australia.

<http://www.iceweb.com.au/Test&Calibration/Test%20and%20Calibration.htm>

The Sample Systems page includes a new technical paper, Grab Sampling Systems: Maintaining Quality and Safety -The need for representative samples plays a critical role in ensuring product verification. Yet sampling directly from the process often includes the risks of exposure to the operator as well as contamination and pollution to the environment. This paper addresses this. A forum can be found on the same page - http://www.iceweb.com.au/Analyzer/sample_systems.htm

Improving Differential Pressure Diaphragm Seal System Performance and Installed Cost - Best practice diaphragm seal installation to compensate errors caused by temperature variations - Thanks to our sponsor Emerson Process Management

http://www.emersonprocess.com/rosemount/support/papers/Tuned_Systems.doc

Emerson's PlantWeb University now includes a wireless curriculum
http://plantweb.emersonprocess.com/university/engSch_Wireless_XML.asp

The following excellent Samson Controls papers have been added to ICEweb's Control Valve page;

- Plant design and control valve selection under increasing cost and time pressure
- Control valve design aspects for critical applications in petrochemical plants. This is an excellent paper in three parts which covers Control Valve Design and Sizing.
- Enhanced reliability for final elements

http://www.iceweb.com.au/Valve/control_valves.htm

Further links have been posted on ICEweb's job seeker page.
<http://www.iceweb.com.au/Employment/AustVacant.htm>

The following Australian standards have been updated

- AS/NZS 2381.2 Electrical equipment for explosive atmospheres - Selection, installation and maintenance
- Flameproof enclosure 'd'
- AS/NZS 1826(Int) Exs "Special Protection"
- AS/NZS 2229 Fuel dispensing equipment for explosive atmospheres

For the full list see ICEweb's Australian Standards for Electrical Apparatus in Hazardous Areas- Explosive Gas Areas page.
<http://www.iceweb.com.au/Ex-web/electstandards.htm>

Lots of new information has been posted on ICEweb's Tubing/ Instrument Fitting and Instrument Manifolds, valves and accessories pages.
http://www.iceweb.com.au/Tubings/Tubing_Fittings.htm
http://www.iceweb.com.au/Technical/monoflanges_details.htm

Some more super technical links can be found on ICEweb's Fire and Gas Technical Information page.
<http://www.iceweb.com.au/F&g/techpapers.htm>

ICEweb has redeveloped the Temperature page, lots of excellent technical links here.
<http://www.iceweb.com.au/Temperature/TemperatureWeb.htm>

Comprehensive global guide to hazardous locations -And boy is this comprehensive! It is an excellent technical resource from Cooper Crouse Hinds which includes virtually everything including: Basics of Explosion Protection, Area Classification, Methods of Explosion Protection, Equipment Selection, Installation & Wiring Practice. Find more technical information like it on ICEweb's HA page
<http://www.iceweb.com.au/Ex-web/HA%20Tech.htm>

ICEweb has developed a new Shutdown/Blowdown and ESD valve page.
http://www.iceweb.com.au/Valve/SDV_BDV_ESD_Valves/home.htm

ICEtools

The National Electrical Manufacturers Association (NEMA) has launched <http://www.eicareers.org>, a full-service online career portal designed exclusively for the electro-industry.

If you would like to enjoy a fun yet educational book take a look at Greg McMillan's e-book "A Funny Thing Happened on the Way to the Control Room" at
<http://www.easydeltav.com/controlinsights/FunnyThing/default.asp>. Greg's writing is always entertaining yet is based on real life situations so contain a lesson to be learned. This is definitely worth the browsing time.

EthernetDirect (<http://www.ethernetdirect.com>) for a Reference Library of information with over 100 diagrams and expert comments specifically oriented to Industrial Ethernet. For individuals just starting to learn about Ethernet, to experienced Network professionals trying to understand the subtle differences

when applying the technology to real time control applications, there is likely to be something useful to everyone.

The Profibus Organization has a series of webinars on Industrial Ethernet at <http://us.profibus.com/webinars.aspx?pagetype-current>.

ICEtime

If you would like to have your event listed in ICEtime, please send a note or press release to the editor at <mailto:ian.verhappen@iceweb.com.au>

2007

June

- 10 – 14 Honeywell User Group Americas, Arizona Biltmore Resort & Spa, Phoenix, Arizona
- 13 – 15 4th PCIC Europe conference <http://www.pcic-europe.eu>, Concorde Lafayette hotel (Porte Maillot) Paris, France
- 25 -28 OPC UA Developer's Conference, Scottsdale Marriott at McDowell Mountains Scottsdale, Arizona

July

- 12 Foundation Fieldbus End User Seminar, Sao Paulo, Brazil
- 15 – 18 Invensys User Group, Marriott Copley Place, Boston, Mass.
- 17 – 19 5th China International Fieldbus and Industrial Automatic Instrumentation Exhibition, Beijing
- 23 – 24 ISA Wireless Automation Summit, Vancouver, British Columbia

August

- 7 – 9 NIWeek, Austin, Texas
- 13 -16 Control System Cyber Security Conference, National Laboratories (Oak Ridge) vicinity Knoxville, TN United States

September

- 10 – 14 Emerson Global Users Exchange, Grapevine, Texas,

October

- 2 – 4 ISA Expo 2007 – Houston Texas

November

- 2 – 4 ISA Expo 2007 – Houston Texas
- 30 FDT General Assembly, Nuremberg, Germany

April 2008

- 8 – 10 Automation Technology Egypt 2008 <http://www.smbegypt.com/automation.htm> 2nd Int'l Industrial Control and Automation Technology Exhibition and Conference, Cairo, Egypt
-

Relcom Inc, CIRCOR International Inc, Zellweger and Grimwood Heating sponsor this issue of ICEnews, which is a publication of ICEweb.



Well recognized by such brand names as **Circle Seal Controls, Hoke/Gyrolok fittings, and Go Regulators**, CIRCOR International Inc. is a leading supplier of valves and related products and services to a wide range of users who require precise, efficient, and safe fluid-control systems. For over 125

years they have been providing a complete array of fluid-control products and technologies to a highly fragmented industry.

For more information go to <http://www.circle-seal.com>



Relcom Inc. specializes in the design and manufacture of wiring components and test equipment for the physical layer of Foundation Fieldbus and Carrier-band industrial local area networks (LAN).

From our headquarters near Portland, Oregon, USA, we have provided taps, repeaters, network monitors, and test equipment to demanding users and leading control system manufacturers since 1985.

For more information go to <http://www.relcominc.com>

Honeywell Analytics fire and gas detection

The **Honeywell Analytics group** of companies provides gas detection solutions in industries where potentially hazardous chemicals and gases exist. A full range of fixed gas, portable gas and flame detection equipment is available for the measurement of flammable gases, toxic gases and oxygen concentrations. The company provides design, development and manufacture of electrochemical, catalytic and infrared sensors, along with Chemcassette technology, placing the company at the forefront of innovation. The company offers solutions to increasingly difficult gas detection and monitoring applications.

They also offer project management for specialized fire and gas systems, a global network of service centers and 24-hour on-line technical support.

For more information go to http://www.iceweb.com.au/Suppliers/honeywell_analytics.html

The **Grimwood** range of flanged immersion heaters can now be manufactured to provide hazardous area protection for users in the Asia Pacific region. Depending on the location and operating environment, units can be made in either carbon steel or stainless steel. The benefits of using locally designed and manufactured product fully complying with hazardous area requirements are shorter supply chains and lead times and quicker, clearer communication.

<http://www.grimwoodheating.com.au/flangeheaters.php>



Controlotron is a leading worldwide supplier of ultrasonic flowmeters for liquid and gas applications. With over 40 years' experience, Controlotron innovations have resulted in numerous patents.



Controlotron flow measurement systems are supplied to many different industries. Installations include petroleum pipelines, petrochemical and chemical processing, water and wastewater treatment facilities, heating and cooling systems, fossil fuel and nuclear power facilities, aircraft hydraulics, food processing, semiconductor and automotive applications. Systems include leak and interface detection, as well as portable and dedicated mass, volumetric and energy flowmeters.

Controlotron non-intrusive ultrasonic flowmeters can be installed outside the pipe, without process shutdown, eliminating the need to cut into the pipe. In addition to superior performance, Controlotron ultrasonic flowmeters provide great savings in installation, operation, maintenance and calibration.

For further details see <http://www.controlotron.com>

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