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Welcome to the November 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/icenews11-2007.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, Electrical and Fire & Gas Engineering to you the practitioners and developers of these arts. ICEweb is averaging 36,000 page views each month. ICEnews is another mechanism to get this information out to you. Our database is in excess of 1600 quality contacts.

To sponsor ICEweb or this newsletter, please contact Jim Russell, ICEweb Director at <mailto:jimrussell@iceweb.com.au>. Benefits of sponsorship, in addition to being prominently displayed in the newsletter include a web link to your corporate site from your listing and any related articles, "top billing" of your article(s) in the appropriate news groups and your company name highlighted in any articles in which it appears.

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.

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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.

If you select either of these options we will remove you from the list. If you wish to continue to receive the information you do not need to take any action.

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.

ICEbooks – Useful books and new releases 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, acquisitions and news from 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>

NEW- ICESafety — Information and news on Safety Instrumented Systems along with Health and Safety.

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, Tradeshows, Conferences and Events of interest to our readership.

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

ICewireless – News and technical links to Industrial Instrumentation Wireless items of interest

ICEart

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>

Yokogawa and MAVERICK Technologies have announced that their joint alliance has been selected as the main automation and control contractor for Chevron’s global refineries in a long-term agreement.

Emerson Process Management has unveiled the CSI 2130 Machinery Health™ Collector, The CSI 2130 Collector is the industry's only portable vibration data collector with a growth path for upgrading to a multi-channel, in-the-field analytical device. It is the ideal instrument for those just beginning to do vibration monitoring. It can also be used as a second data collector to augment existing periodic vibration monitoring programs. http://www.emersonprocess.com/home/news/pr/704_csi2130.html

The Expression of Uncertainty and Confidence in Measurement - This updated version of the M3303 UKAS guide to uncertainty gives information on understanding and implementing international requirements for evaluation and reporting of measurement uncertainty.

<http://www.ukas.com/Library/downloads/publications/M3003.pdf>

Mynah Technologies have made available a number of podcasts and e-seminars relating to process simulation and modeling. These cover subjects such as Simulation System Integrity , Understanding Simulation Fidelity Simulation Objections Answered , Distillation Column Modeling , MiMiC's Operator Training Module, Ethernet/IP Integration , DeltaV Testing and Training , Modeling Discrete Process Devices , Modeling Analog Processes , Modbus TCP/IP Integration , Complex Process Modeling , MiMiC Distillation Modeling and DeltaV FHX Utility Review. <http://www.mynah.com/index.asp>

Emerson Process Management have introduced the Rosemount[®] Analytical PERpH-X[™] 3500 high-performance pH and ORP sensor, the industry's first general-purpose pH sensor that includes advanced technologies for longer life in difficult processing applications, providing a lower total cost of ownership.

http://www.emersonprocess.com/home/news/pr/710_perph-x.html

Emerson Process Management also announced the release of the Rosemount 5300 Series High Performance Guided Wave Radar.

The ISASP99 committee has completed work on its first standard, Security for Industrial Automation and Control Systems Part 1: Terminology, Concepts and Models. This standard establishes the context for all remaining standards in the ISA99 series by defining a common set of terminology, concepts and models for electronic security. The standard is undergoing final approval by the American National Standards Institute, with publication expected in November.

http://www.isa.org/Content/ContentGroups/Standards7/Standards_Articles/ISA99_Completes_Part_1_Standard.htm

ISA has published ANSI/ISA-12.12.01, "Non-incendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations."

http://www.isa.org/Content/ContentGroups/Standards7/Standards_Articles/ISA12_Developments.htm

MTL and Byres Security Inc. have announced that the Tofino[™] Industrial Security Solution has successfully completed Beta testing . The Tofino[™] Industrial Security Solution offers SCADA and process control companies a layered security solution for their industrial systems by deploying low-cost security appliances directly in front of each control device (or group devices) that need protection.

http://www.mtl-inst.com/newsroom/press_releases/pr469.htm

McCrometer's New Applications & Literature CD is chock Full of Flow Meter Expertise. It provides McCrometer's most up-to-date flow technology, applications and product specification information in a handy format. It is a comprehensive tool that consistently helps engineers and technicians select the best flow instrument to meet their process requirements.

http://www.mccrometer.com/news_media/news_releases/pr_lead.asp

Most process plants have hundreds or even thousands of discrete points that are not connected to the control system due to the high cost of wiring. As a result, users are not able to access valuable data about the performance and safety of their plant. Emerson Process Management's new discrete transmitter provides users with a cost-effective way to access this information.

http://www.emersonprocess.com/home/news/pr/709_rosemount702.html

Microsoft Corp. has announced the general availability of its core service-oriented architecture (SOA) and business process management (BPM) technology, Microsoft BizTalk Server 2006 R2. This product includes advancements for radio frequency identification (RFID) and electronic data interchange (EDI), and extended interoperability such as Enterprise Service Bus (ESB) Guidance and Line of Business Adapters. Together, these capabilities make it easier for companies to connect systems within their own organizations and across those of trading partners. Editor Note: This is a definite sign that wireless is going to be part of our future as it will now be possible to collect the data from anything, anytime, anywhere. Look out Big Brother may be watching you and you won't even know it.

Thermo Fisher Scientific Inc., has unveiled the KRILPRO nuclear neutron backscatter interface level device specifically designed to improve the efficiency and stability of the delayed coking process used in refineries. The KRILPRO can provide accurate detection of light, medium and heavy foam as well as wet and dry coke, which enables refiners to maximize coke drum output per cycle while reducing anti-foam usage for optimum process control and improved profitability.

MESA International recently introduced a new tiered membership program that not only strengthens the existing benefits for MESA members but provides a free introductory membership for anyone interested in learning more about the organization and the research knowledge available through its member network. The free Basic Membership for individual manufacturers/producers and solution providers offers the opportunity to download one white paper from MESA's new Website, <http://www.mesa.org>. Premium (fee based) MESA members enjoy unlimited access to white papers, case studies and Web presentations, and receive discounted registration and discounted exhibition space at MESA's conference. Premium members also receive access to MESA's exclusive *Metrics Guidebook & Framework*. To join, visit <http://www.mesa.org/index.php?page=membership>

2009 will mark 30 years of Modbus communications! Do you have the oldest Modbus network still in operation? The weirdest application of the Modbus protocol? The application with the largest number of nodes? Let Lenore <mailto:lenore@modbus-ida.org> at the Modbus Organisation know as part of our celebration preparations!

OAGIS will be building ISA-95 based Business Object Documents in collaboration with ISA95 Standards Committee on Enterprise-Control Integration and WBF's XML Working Group. The goal of the documents is to ensure that no matter which standard a customer or vendor implements, the two standards will interoperate.

TÜV Rheinland has recently confirmed that ISaGRAF 5 is compliant with both the IEC 61499 and IEC 61131 standards. The IEC 61499 standard defines the method for designing and implementing robust and efficient cooperating systems, and presents guidelines for the use of function blocks in distributed industrial process, measurement and control systems. It provides a number of significant benefits to distributed applications.

Click on the links below for more information on the IEC 61499 and IEC 61131 standards:

- ARC Advisory Group article: Setting the Stage for the Next Generation of Automation Control System Software: A Discussion of IEC 61499
http://www.isagraf.com/index.htm?http://www.isagraf.com/pages/documentation/arc_insight.htm
- IEC 61499 Tech Notes
<http://www.isagraf.com/index.htm?http://www.isagraf.com/pages/documentation/technotes.htm>
- More information on ISaGRAF's IEC 61131 compliance
<http://www.isagraf.com/index.htm?http://www.isagraf.com/pages/products/Isagraf/iec1131.htm>

ICEbooks

Need some technical “know-how”? ICEweb has developed a new page which details a selection of excellent Instrumentation, Automation, Control, Electrical, Electronic and Information Technology books from IDC Technologies. These can be purchased from ICEweb. Also detailed are other links to more useful references. <http://www.iceweb.com.au/Books/books.htm>

IDC produces five brilliant comprehensive Engineer's pocket guides which are now available for you to download. Subjects include: Instrumentation/ Communications/Electrical/ Electronics/Conversion & Engineering formulas, you have to register but it is worth the effort!
http://www.idc-online.com/pocket_guides/?country=%23

What Went Wrong? Case Studies of Process Plant Disasters -This book is recommended for generalists with an interest in industrial safety and safety/process who wish to gain some insight into the realities of plant operations. (ICChemE-Institute Of Chemical Engineers).It examines the causes and aftermaths of numerous plant disasters--almost every one of which could have been prevented. Case histories illustrate what went wrong, why it went wrong, and then guide you in how to circumvent similar tragedies

<http://www.environmental-expert.com/resultteachpublication.aspx?cid=6516&codi=1726&level=6&idproducttype=5>

Electrical Safety Engineering deals with the theory and practice of the safe design, installation and operation of industrial electrical equipment. It is well established as a comprehensive source of reference on electrical safety in the UK.

<http://www.environmental-expert.com/resultteachpublication.aspx?cid=6516&codi=1742&level=6&idproducttype=5>

HAZOP: Guide to Best Practice - These guidelines are intended to provide guidance on the HAZOP study technique developed for use in the chemical and process industries.

<http://www.environmental-expert.com/resultteachpublication.aspx?cid=1272&codi=4150&level=6&idproducttype=5>

ICEbus

The Fieldbus Foundation has released a podcast describing fieldbus end user experiences in the process industries. Titled "Changing the Playing Field with FOUNDATION™ Technology," the podcast is hosted by Control Engineering magazine. It can be downloaded from the foundation's website at

<http://www.fieldbus.org/podcast>

The Fieldbus Foundation has published its latest issue of the *Fieldbus Report*, articles include: ECT/FDT Alliance Benefits Global Automation Industry, Fieldbus vs. Hart: Device Diagnostics Make the Difference, FOUNDATION Technology Expands Beyond "Early Adopters", Field Demos Announced for Safety Instrumented Functions, Host Profile Registration Process Supports Interoperability, High Speed Ethernet Remote I/O Progress Report, Offshore Platforms Improve Process Control Performance and Putting Fieldbus to Work in Intrinsically Safe Areas.

http://www.fieldbus.org/images/stories/fieldbus_report/FieldbusReport_Sep07.pdf

Brooks Instrument have announced the introduction of the FOUNDATION Fieldbus I/O communications options for the SLA Series thermal mass flow meters, controllers, and pressure controllers.

http://www.emersonprocess.com/brooks/pr-foundation_fieldbus.html

The OPC Foundation has announced the establishment of an 18 member Technical Advisory Council (TAC) to guide, monitor and approve the technical deliverables of its OPC Unified Architecture technology.

http://www.opcfoundation.org/Default.aspx/02_news/02_news_display.asp?id=461&MID=News

The ISA-SP104 committee has announced the publication of ANSI/ISA-61804-3 (104.00.01)-2007, Function Blocks (FB) for Process Control - Part 3: Electronic Device Description Language.

http://www.isa.org/Content/ContentGroups/News/20071/July34/Electronic_device_description_language_news.htm

The Fieldbus Foundation has announced the release of its Host Test Kit DD Application Test Module. It includes hardware and software for testing the functionality of a fieldbus host and its conformance with the FOUNDATION™ Host Interoperability Support Test (HIST) profile specification.

http://www.fieldbus.org/index.php?option=com_content&task=view&id=382&Itemid=281

The Fieldbus Foundation has announced it has joined the HART Communication Foundation and Profibus Nutzerorganisation e.V. (PNO) in launching a cooperative initiative for wireless technology in the manufacturing and process industries.

http://www.fieldbus.org/index.php?option=com_content&task=view&id=387&Itemid=281

The HART® Communication Foundation (HCF) has announced the release of the HART 7 Specification. The HART 7 Specification enables many new capabilities for communication with intelligent field devices including *WirelessHART™*, the first open wireless communication standard specifically designed for process measurement and control applications.

<http://www.hartcomm2.org/hcf/press/pr2007/hart7released.html>

Romilly's HART® and Fieldbus Web Site - This web site specialises in the digital communication protocols used in industrial automation, with special attention to HART. For more see ICEweb's HART page.

<http://www.iceweb.com.au/Fieldbus/hart.htm>

The following useful fieldbus links are from ICEweb sponsor Relcom

- Fieldbus Troubleshooting Guide - describes common fieldbus physical layer problems and how to find them.

<http://www.relcominc.com/pdf/501-380%20Fieldbus%20Physical%20Layer%20Troubleshooting%20Guide.pdf>

- Preventing Fieldbus Physical Layer Problems application note - provides suggestions to help minimize problems with the fieldbus physical layer.

<http://www.relcominc.com/pdf/501-386%20Preventing%20Fieldbus%20Physical%20Layer%20Problems.pdf>

- Fieldbus Wiring Design and Installation Guide - This document includes earthing and grounding recommendations provides a readable overview of the Fieldbus physical layer and is a great place to get started with Foundation Fieldbus wiring and installation.

<http://www.relcominc.com/pdf/501-123%20Fieldbus%20Wiring%20Guide.pdf>

ICEweb's fieldbus page <http://www.iceweb.com.au/Instrument/fieldbus.htm> has been updated with new links including papers from the renowned Foundation Fieldbus End User Council Australia Jump Aboard 2007 - This seminar was the first in the series that was predominately reflecting "End User" experiences, the papers are really excellent and well worth a look if your company is considering a Foundation Fieldbus installation. Papers are as follows:

- Keynote Presentation -David Gonzalez (ABB)
- Changing the Playing Field - FF™ - Bill Tatum (Fieldbus Foundation)
- FF Technology on the Ravensthorpe Project - Dirk Pieterse (RJV)
- Physical Layer Diagnostics reduces Downtime - Phil Saward (MTL-UK)
- Digital Fieldbus for Mineral Processing - Manoj Pandya (Alcan) - Thanks to the Minerals, Metals & Materials Society
- Alumina Refinery FF Project (Alunorte) - Hans Sjodahl (ABB)
- Specification & Implementing a FF Project - Phil Eastwood (Worley)
- Redundant FF-H1 Segment Wiring - Mike O'Neill (MooreHawke)
- Planning & Implementating FF-SIS - Gordon Stevenson (Bechtel)
- Maintaining Functional Value in FF Systems - Craig Webb (Honeywell)

Justifying Fieldbus Part 1 <http://www.easydeltav.com/news/viewpoint/Control0707.pdf> and Part 2

<http://www.easydeltav.com/news/viewpoint/Control0807.pdf> - John Rezabek discusses a variety of ways to justify FF projects.

Why use a fieldbus?- This article details the advantages of using a fieldbus system - from profibus.com
<http://us.profibus.com/docs/Why%20Use%20a%20Fieldbus.pdf>

Phoenix Contact's new, modular approach to Fieldbus physical layer components provides infrastructure connection between the process Fieldbus controller and field devices
http://www.phoenixcon.com/fieldbus/default.asp?WT.mc_ev=EmailOpen&WT.mc_id=fieldbus_InTech_1025

The Industrial Ethernet Book has editorial reflecting the latest news and technology. The publication is constantly broadening its coverage to include Ethernet TCP/IP applications, enterprise and internet connectivity, wireless networking and embedded networking.
<http://ethernet.industrial-networking.com/default.asp>

Emerson Process Management has announced the release of its 375 Field Communicator 2.0. This major upgrade to the 375 Field Communicator provides significant benefits to both new and existing users by delivering faster and more robust capabilities for configuring and troubleshooting HART and FOUNDATION fieldbus devices.
http://www.emersonprocess.com/home/news/pr/710_375.html

MTL have launched the new F809F Diagnostics Module for use on Foundation fieldbus™ networks that offers a unique overview of the physical layer status by being installed as a fieldbus device.
http://www.mtl-inst.com/newsroom/press_releases/pr468.htm

Emerson Process Management has announced new software for its family of Mobrey MSP non-contacting ultrasonic level transmitters. The upgrade features an enhanced false echo rejection capability which allows reliable operation in complex infrastructures where tanks and channels contain static obstructions such as stay bars, ladders or weld beads.
http://www.freshwatertechnology.com/pr_mobrey/mm945b.php

ODVA has published a network infrastructure guide for EtherNet/IP. "*Network Infrastructure for EtherNet/IP: Introduction and Considerations*". It provides an introduction to the network infrastructure used in EtherNet/IP networks and gives users a framework for identifying the considerations that are most critical to their specific applications. A PDF copy of the guide can be freely downloaded from the ODVA website at <http://www.odva.org>

The CC-Link Partner Association (CLPA) announced the launch of CC-Link IE. This is a new Ethernet-based integrated networking concept providing a comprehensive and scalable high performance factory automation network. CC-Link IE will be used by CLPA to unify controller, field, and motion networks using gigabit Ethernet technology. CC Link IE inherits the cyclic communication services from its predecessor, CC-Link. CC-Link IE consists of:

- The new CC-Link IE Controller Network (specification available on December 1)
- CC-Link IE field and motion networks (to be specified in the future)
- Support for CC-Link, which will continue and evolve as a control-specific network

Features of the CC-Link IE controller network include a high speed, high throughput fiber optic Ethernet physical layer using IEEE 802.3z (1000BASE-SX). Besides the higher 1GB speed, CC-Link IE expands capacity of the CC-Link shared memory model to 256Kbyte among all devices. The CLPA organization is composed of developers of CC-Link products and is working actively to promote global adoption, with six supporting centers around the world.

Softing has announced the availability version 2.20 of its industry hardened field device protocol stack. Version 2.20 supports MultiVariableContainer technology, which allows the device application to combine multiple variables into a single, logical data-structure (container) and to embed the entire container into a single frame that is transmitted over the fieldbus. This new technology lends itself to significantly improving the data throughput of H1 networks and is also proposed as the preferred technology for High Speed Ethernet (HSE) Remote I/O Systems. Softing's protocol stack is designed to be consistent with the official alarm nomenclature defined by NAMUR's Working Group 2.6 - Fieldbus NE107, which is also of

particular interest for asset management systems In addition, Softing has implemented the new Multi-LAS sub-schedule technology to significantly improve the time management on any give H1 segment by supporting a hierarchical partitioning of the macro-cycle and the individual control of each sub-cycle. This new technology helps to significantly reduce the bus-load for individual field devices by supporting the definition of optimized communication cycles. The version 2.20 function block shell interface has also been modified to allow any vendor to easily develop and integrate their own function block library. The release of Version 2.20 is scheduled for the 4th quarter 2007 and it will be available at no cost to any licensee with a maintenance agreement.

ICEed

Abhisam Software, a young knowledge based company set up to provide training to technical professionals by e-learning have developed several cost effective courses relevant to ICE personnel. Subjects are Gas Monitors, RFID and Hazardous Area Instrumentation. <http://www.abhisam.com/>

The ICEweb Education page has been extensively revised with many new Instrumentation, Control, Fire & Gas links being added - <http://www.iceweb.com.au/Education/Education.htm>

Teaching about Standardization – a section for Professors, Researchers and Students "IEC and Academia" is a brief introduction to the latest section on the IEC website which is aimed at providing further education institutions with a deeper insight into the role of standardization in today's world.

http://www.iec.ch/online_news/etech/arch_2007/etech_1007/news_8.htm

Lee College have announced their class schedule through to the end of February with the next classes running December 3-7. <http://www.knowthebus.org>

ICEfolks - Please let us know of any personnel or other job changes in your organisation.

Security expert Bryan Singer has joined Wurdtech Security Technologies as Vice-President of Professional Services to lead the security team focused on improving the overall reliability, efficiency, and security of the systems and networks that operate industrial automation and critical infrastructure.

SENIOR INSTRUMENT ENGINEER REQUIRES PART TIME WORK FROM HOME – PERTH WESTERN AUSTRALIA

This engineer is looking for a regular maximum of 8 hours work a week working mainly from home.

- **PROFESSIONAL STATUS:** Chartered Senior Instrument Engineer (**IEAust**)

- **COMPETENCIES:** Electrical Equipment in Hazardous Areas (UTE NES 010A, 409A, 410A and 707A)
Level 5 Registered Project Manager (AIPM)

- **EXPERIENCE:** 10 years experience mainly in oil and gas (offshore and onshore) including;

- Proficient in instrument datasheet production, instrument design reviews/**HAZOPs**, hazardous area reviews, instrument calculations including control valves, flow etc.
- Instrumentation conceptual, front end and detailed design.
- Control system configuration and upgrades.
- PLC programming.
- Analyser conceptual, front end and detailed design.
- Project management.
- Instrumented Protective Function studies.
- Factory Acceptance Testing.
- Procurement

For contact details please email ICEnews at <mailto:icenews@iceweb.com.au>

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

Controlsoft Pty Ltd., one of Australia's leading Industrial Automation and Control System engineering companies headquartered in Melbourne, Australia has been acquired by ZI-ARGUS, a member of the Zuellig Industrial Group.

GE Fanuc has changed its name to GE Fanuc Intelligent Platforms.

The Danaher Corp will pay \$2.85 billion to acquire the Tektronix test and measurement equipment group.

AMETEK has acquired Paris-based science and metrology solutions provider CAMECA SAS for approximately \$112 million. CAMECA manufactures high-end elemental analysis systems for advanced laboratory research, semiconductor and nanotechnology.

Honeywell announced it has signed a definitive agreement to acquire Hand Held Products Inc. for approximately \$390 million. Hand Held Products manufactures a range of data collection and communication products designed for mobile, on-site, and transaction processing in retail, healthcare, utilities, transportation, logistics and industry. Hand Held's core products are bar code scanners and rugged mobile, wireless computers that are used for asset-tracking, logistics execution and supply chain management across diverse end markets. Hand Held will become a part of Honeywell's Security Group within the Automation and Control Solutions (ACS) business.

Rockwell Automation, Inc. announced it has entered into a definitive agreement to buy Pavilion Technologies, Inc. The Pavilion Technologies management team and employees will become part of Rockwell Automation's Architecture & Software segment. Pavilion Technologies software products will be integrated into the Rockwell Automation Factory Talk integrated production and performance suite, as well as the Logix Control Platform.

The MTL Instruments Group plc (MTL) announced the acquisition of Ocean Technical Systems, Ltd. (OTS), a UK-based company specializing in Supervisory Control and Data Acquisition (SCADA) solutions for the Oil & Gas industries. OTS has a strong position of delivering SCADA solutions for the automation of berthing, loading and unloading of oil tankers and oil production vessels, floating production units (FPSOs), unmanned wellhead production platforms and the monitoring of oil and gas pipelines.

ICEnet

Both the Honeywell Experion Process Knowledge System (PKS) C300 Process Controller and the MTL-Byres Security Tofino Security Solution have achieved the new Mu Security Industrial Control Certification (MUSIC). The MUSIC certification is designed specifically for IP-based controllers and is closely aligned with the emerging ISA-SP99 security standards.

Mu Security, announced a new release of its Mu-4000 Security Analyzer appliance. The Mu-4000 improves the reliability and uptime of networked products and IP business services by proactively addressing robustness and resiliency factors before systems are deployed in production environments. Mu Security's third-generation solution contains new features including sharable analysis templates, interactive graphical response time charting, and dynamic stateful protocol fuzzing as the basis for robustness analysis.

ABB announced that its System 800xA Extended Automation AC 800M controller recently achieved Achilles Controller Level 1 cyber security certification. Wurldtech Security Technologies Achilles Level 1 Certification verifies the security, reliability, and robustness of a device's implementation of OSI layers 2 - 4, including Ethernet, ARP, IP, ICMP, TCP and UDP.

RuggedCom Inc., has announced the introduction of the new compact RuggedSwitch RS940G 8-Port Gigabit Ethernet switch to address the needs for high bandwidth applications found in substation automation for electric utilities, video over IP in intelligent transportation systems, and advanced control and automation for industrial processes. The new RuggedSwitch RS940G product features: 6 Triple Speed 10/100/1000BaseTX Ports + 2 Optional Gigabit Fiber or Copper Ports, Hazardous Location Certification (Class I Div 2), Advanced Managed Ethernet Switch Functions and Integrated Cyber Security Features

wattwatt.com: the electrical energy efficiency community has launched as part of the IEC efforts to make standards more accessible to individuals. Find out more, read some of the "pulses" and join the growing group of wattwatters on the web generating sparks and ideas on the use and production of electricity.

<http://wattwatt.com>

The ISA Security Compliance Institute is poised to move forward after gaining commitments for Founding Strategic Membership from key organizations in the automation controls community. The Institute sought to gain a balance of Founding Member representation from industry comprised of asset owners, suppliers, and other key stakeholders. Notable Founding Strategic Members include BP and Chevron from asset owner organizations and Honeywell, Invensys, Siemens and, Yokogawa from supplier organizations. The open period for Founding Strategic Membership applications has been extended through to 31 December 2007. Membership levels in the ISA Security Compliance Institute include Strategic Members, Technical Members, and Informational Members. Detailed descriptions of membership levels, entitlements, membership fee structure, and join instructions are available on the ISASecure website.

http://www.isa.org/Content/NavigationMenu/Technical_Information/ASCI/ISCI/ISCI.htm

The ISA Security Compliance Institute establishes an ISASecure designation, which identifies and promotes security standards compliant products and systems in the industrial automation controls industry. Certification provides formal recognition of a product's compliance to an industry standard security specification.

ISA is nearing completion of a non-exclusive licensing agreement to distribute and market the Control Systems Cyber Security Self Assessment Tool (CS2SAT) through the ISA Security Compliance Institute. ISA is the first potential distributor of the CS2SAT application. The CS2SAT is a desktop software tool which guides users through a step-by-step process to collect facility specific control system information and then makes appropriate recommendations for improving the system's cyber security posture.

The CS2SAT was developed by the Department of Homeland Security's National Cyber Security Division. The purpose of the CS2SAT is to provide organizations that use SCADA (Supervisory Control and Data Acquisition) and industrial control systems, with a self-assessment tool for evaluating the security of the control system. The CS2SAT uses industry standards and guidelines to assist asset owners and operators performing a SCADA system assessment in identifying actionable control system cyber security mitigations. More information can be obtained about securing control systems residing in critical infrastructure at: http://www.us-cert.gov/control_systems

ICEnew

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

HOKE Gyrolok® Flanges - These Flanges are an excellent way of increasing your plant integrity. Gyrolok® flanges provide a simple, safe interface between pipe flanges and instrument fittings, eliminating the need for pipe threading or welding.

<http://www.hoke.com/products/gyrolok/flanges/index.html>

Hoke Gyrolok® Safety Instructions - These instructions are a must when designing, installing, commissioning and maintaining Hoke Gyrolok® fittings.

<http://www.hoke.com/products/gyrolok/safety/index.htm>

Need an insulated fitting solution in a Cathodic Protection System? - These dielectric tube fittings are for use in applications where electrical current flowing through a pipe or tube line must be interrupted to protect vital instrumentation and metering equipment. Commonly used in the Natural Gas Transmission industry, the dielectric fitting will prevent current flow resulting from Impressed Current Cathodic Protection Systems, static electricity or even lightning strikes, from reaching sensitive monitoring station equipment. <http://www.hoke.com/products/gyrolok/dielectric/index.html>

ICEweb's Instrument Fittings, Tubing and Valve/Manifold pages have been extensively reworked to include a significant amount of new technical data.

http://www.iceweb.com.au/Tubings/Tubing_Fittings.htm

http://www.iceweb.com.au/Tubings/instrument_tubing.htm

http://www.iceweb.com.au/Technical/monoflanges_details.htm

Thanks to our new sponsor McCrometer ICEweb's V-Cone page has been extensively reworked, have a look at the excellent technical papers on V-Cone technology.

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

Standards Australia have amended AS/NZS2430.3.3 - Examples of area classification - Flammable liquids

<http://www.saiglobal.com/shop/script/Details.asp?SAID=9000&UpdID=384&SID=151418&DocN=AS073375970XAT> They have also issued Draft Standard DR 07330 CP Explosive atmospheres - Part 29.1:

Gas detectors - Performance requirements

<http://www.saiglobal.com/shop/script/Details.asp?SAID=9000&UpdID=384&SID=151418&DocN=MSWD07330ATCRD> and draft Standard DR 07331 CP Explosive atmospheres - Part 29.2: Gas detectors -

Selection, installation, use and maintenance

<http://www.saiglobal.com/shop/script/Details.asp?SAID=9000&UpdID=384&SID=151418&DocN=MSWD07331ATCRD>

The following technical papers can be found on ICEweb's solenoid page.

<http://www.iceweb.com.au/Solenoids/solenoids.htm>

- Optimizing Power Management in Solenoid Valves -By Stephen Glaudel -Vice President, Engineering ASCO Valve, Americas -This paper covers the basic operation of solenoid valves, including useful techniques and technology for optimizing performance, power consumption, and cost of operation, in either AC or DC powered applications.
- Understanding Applications, Uses Key to Solenoid Valve Selection, Plant Engineering - David Zolobinski, William Mudd and Gregory Byrne - This paper covers common applications and issues associated with solenoid valves. It also has a very useful trouble shooting guide plus a section on new developments - Thanks to ASCO and www.plantengineering.com
- Solenoid Pilot Valves for Valve Actuation - Bill Reeson - This paper helps users select the correct pilot valve construction for an application - Thanks to ASCO and valve magazine.
- Not Your Father's Valve - "The Old Iron Workhorse Gets a Makeover" - Matt Migliore - This article highlights how microprocessors are enabling the development of smaller and faster solenoid valves.

Questions and Answers on Infrared Thermometers - A useful technical information sheet from our sponsor Zedflo Australia. <http://www.iceweb.com.au/Temperature/irq&a.pdf>

HowStuffWorks Encyclopedia has informative entries on a wide variety of topics related to geography, history, science, humanities, technology and more, see this and many other useful tools on ICEweb's tools page. <http://www.iceweb.com.au/Tools/tools.htm>

WhereIs.com.au has realtime maps and turn by turn directions to anywhere in Australia.

<http://www.whereis.com/whereis/home.do>

Thanks to sponsor TYCO Flow Control Pacific our Pressure Relief Valve page has been updated with further technical papers including:

- Pressure Relief "Grace Under Pressure" - Harry J Toups - This presentation is an excellent overview of Pressure Relief terminology, systems, design, code requirements, location of relief systems, choosing relief types, backpressure, Pros and Cons of various types of relief valves and rupture discs, relief event scenarios, sizing of reliefs, typical calcs, chatter, worst case event scenario, Installation, Inspection and Maintenance and typical errors.
- Frequently asked Pressure Relief Valve Questions (from Farris) including :- Can pressure relief valves be mounted horizontally? How much seat leakage can I expect from a pressure relief valve? How often should a pressure relief valve be serviced? What are the benefits of soft seat valves versus metal seat designs? When must I specify a lifting lever on a Pressure Relief Valve? When must I specify the use of a Balanced Bellows pressure relief valve? When should I specify a pilot operated relief valve?
- Pressure Relief Design - This resource from cheresources.com has a real "vault" of excellent technical articles including, Relief Valve Set Pressures and Relief Valves: "What Can Go Wrong" scenarios
<http://www.iceweb.com.au/PressRelief/prv.htm>

Sizing Control Valves - This article defines a more standard procedure for sizing a valve as well as helping to select the appropriate type. <http://www.cheresources.com/valvezz.shtml>

Rupture Disks for Processing Engineers - Parts 1 to 6. <http://www.cheresources.com/asiseeit3.shtml>

SI System of Units - this superb link from the International Bureau of Weights and Measures covers just about everything one would wish to know about SI units, giving full text in English and French, a condensed version and a pocket guide. http://www.bipm.org/en/si/si_brochure/

Using Simulation to Optimise Results of Automation Projects - Tom Fiske and MYNAH Technologies. This paper explores how the use of a simulation system for testing and training reduces time-to-market and increases business results of process automation projects. See this link and more information on our new Dynamic Process Simulators and Training Systems page.
<http://www.iceweb.com.au/Simulators/Simulators.htm>

ICESafety

Are you a Professional in the Safety Industry? IDC are looking for a number of presenters to submit an abstract and present their papers at the upcoming Safety Control & Instrumentation Systems Conference in Singapore (12-13th March 2008). This conference will focus on the technology and application of safety-related control and instrumentation systems in the chemicals, energy, mining and manufacturing industries. It will examine the complex and challenging issues of using control systems technology to maintain and improve the safety of people and plant whilst ensuring profitability.
<http://www.idc-online.com/newsletters/brochures/SICSp.pdf>

Masoneilan has entered the safety system arena with the SVIII ESD digital positioner emergency shutdown valve automation and in-service valve partial stroking
http://www.safetyusersgroup.com/news/detail.asp?page=news&news_id=222&format=all&category=WI
[R](#)

A desktop based Incident Recording, Reporting and Management Software Tool - This free tool from SHE Software Limited allows the recording and management of incidents and accidents, identifying trends using integrated filtering and reporting tools. It also includes automatic creation of the UK government's required standard RIDDOR incident report . <http://www.shesoftware.com/sheexpress.aspx>

IEC 61508 is currently being revised. The planned schedule is as follows:

1. Parts 1 - 4: Draft to National Committees for consultation (CD) Target date: Completed..
2. Parts 1 - 7: Draft to National Committees for consultation and vote (CDV) Target date: 12/2007.
3. Parts 1 - 7: Final draft to National Committees for vote (FDIS) Target date: 03/2009.
4. Parts 1 - 7: Publication of revised IEC 61508 Target date: 7/2009.

http://www.safetyusersgroup.com/news/detail.asp?page=news&news_id=225&format=all&category=IND

A new DVD from the safety users group discusses current best practice for safety, exploring in depth the common mistakes and confusion surrounding the IEC61508 and IEC61511 standards for functional safety.
http://www.safetyusersgroup.com/misc/video_room.asp

Yokogawa Electric Corporation have announced the launch of an enhanced version of the ProSafe-RS safety instrumented system, ProSafe-RS R1.03. To meet the latest safety instrumentation needs of the oil, petrochemical, and other industries, the remote optical communications capability has been enhanced and a digital output module and a simulation test function have been added to this new version.
<http://www.yokogawa.com/pr/Corporate/News/2007/pr-news-2007-26-en.htm>

ICEtools

Getting Life into Perspective - This link (author unknown) is really thought provoking.
<http://www.iceweb.com.au/Health&Safety/SolarPerspective.pps>

IEC and ISO have published an information brochure entitled *Using and referencing ISO and IEC standards for technical regulations*. As well as giving the reasons as to why IEC and ISO Standards should be used, the publication contains practical advice and examples.
http://www.iso.org/iso/standards_for_technical_regulations.pdf

ICEwireless

The following wireless links are thanks to our sponsor [Abhisam Software](#)
<http://www.abhisam.com/index.htm>

RFID Case Study ebook -This excellent 61 page technical reference has details on 25 different RFID applications from around the world. The password to the document is "abhisam". .
<http://www.iceweb.com.au/Newtech/RFID/RFIDCaseStudyBook.pdf>

Technical Paper on "How to Achieve FDA Compliance on the Pedigree Requirement using RFID without having any sleepless nights or spending a fortune but still achieve a payback of less than a year". The password to the document is "abhisam".
<http://www.iceweb.com.au/Newtech/RFID/pdma2.pdf>

The Industrial Wireless and Ethernet Conference (Sydney Dec 5th-6th) gives a great opportunity to learn more about this rapidly evolving area.. This seminar has a number of eminent speakers including Wayne Manges who co-chairs the ISA (standards body for industrial automation) ISA100 committee, establishing a new international standard for industrial wireless automation. There is also a workshop on the 4th Dec.
<http://www.idc-online.com/newsletters/IWEconf.html>

Machines may be in remote locations where network infrastructure is not available, or on moving platforms where hardwired network connectivity is not practical, this paper "Improving Plant Production with Wireless Condition Monitoring" by Jim Ralston highlights that wireless communications is a networking alternative that offers installation cost savings, quicker deployment and even improved reliability in certain situations. <http://www.prosoft-technology.com/content/download/12752/165779/file>

The performance of wireless networks can change over time due to increased performance demands, changes in the radio frequency (RF) environment and in the physical environment. This article "Using Operator Interfaces to Optimize Performance of Industrial Wireless Networks" explores the use of a wireless diagnostic OLE for Process Control (OPC) server technology to embed diagnostic information in human machine interfaces (HMIs), thus optimizing industrial wireless network performance.

<http://www.prosoft-technology.com/content/download/12750/165775/file>

Wireless networks can consist of many radio types based on the radio frequency and the modulation methods. It is within the "open" standards such as 802.11 where most security issues are prevalent, this document Wireless Security on the Plant Floor -Wally Gastreich discusses this.

<http://www.prosoft-technology.com/content/download/12751/165777/file>

Wireless reliability in industrial automation - Two key considerations wireless technology and hardware device contribute to building mobile and wireless solutions that transform operations - From Scott Thie and Jeff White and ISA/InTech

http://www.isa.org/InTechTemplate.cfm?Section=Article_Index1&template=/ContentManagement/ContentDisplay.cfm&ContentID=63190

The Beginner's Guide to Cellular Technology- The use of cellular technology for industrial applications is on the rise, but it can be difficult to differentiate between all of the options, standards, and carriers. Before deciding on a cellular solution, there are some basics that every system integrator needs to know. This article covers;

- What 1G, 2G, and 3G really mean
- Understanding CDMA, GSM, GPRS, etc
- Important questions to ask
- How to apply this knowledge

http://www.moxa.com/news_events/connection/2007/08/Beginner's_Guide_to_Cellular_Technology.htm

ControlGlobal.com's Walt Boyes talks wireless with Honeywell's Dave Kaufman, director of new business development for Honeywell's wireless solutions group. In this 19 minute podcast, Kaufman and Boyes discuss Honeywell's proposal for a product architecture, and a draft for the upcoming RFP from SP100. You have to register but it is worth it.

http://www.controlglobal.com/knowledge_centers/honeywell.html?lpid0149033600340000idlp?DCMP=SPC-mma_hwk

ICEtime

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

2007

November

28 - OMAC Integration and Interoperability Symposium - Boeing Future of Flight Facility
Everett, United States

http://www.omac.org/?Section=Meetings_and_Events&template=/Conference/ConferenceDescription.cfm&ConferenceID=3260

30 - FDT General Assembly, Nuremberg, Germany

December

4- 5 Multaqa 2007, FF Middle East End User Council Conference, The Ritz-Carlton, Bahrain Hotel & Spa. More information at <http://ffeucme.org>

5-6 Industrial Wireless and Ethernet Conference, Sydney, Australia

<http://www.idc-online.com/newsletters/IWEconf.html>

2008

February

4 – 7 — ARC 2008 Forum, Rosen Centre Hotel Orlando, Florida

27-29 — Fieldbus Foundation General Assembly - Antwerp, Belgium

http://www.fieldbus.org/index.php?option=com_content&task=view&id=377&Itemid=281

March

10-14 — The 2008 Measurement Science Conference - Anaheim, CA United States

<http://www.msc-conf.com/msc/index.html>

11 – 12 5th annual Oil Sands Automation Conference 2008, Oil Sands Discovery Centre, Fort McMurray, Alberta.

24-27 WBF North American Conference - Philadelphia, PA

26 -28 — FLOWEXPO 2008 11th International Trade Fair for Valves, Pipelines, Fluid Engineering and Process Industries, Guangzhou Gymnasium No.783,BaiYundadao,BaiYun Area,Guangzhou ,China <http://flowexpo2008.bokee.com/>

31 -2 — April Fiatech 2008 – Creating Sustainable Business Value the “Big Easy Way” – Deploying Innovative Technologies – New Orleans, USA - <http://www.fiatech.org/events/annconf/annconf2008.html>

April

7 – 10 — Yokogawa 2008 Technology Fair and User Conference, Hilton Americas, Houston, Texas

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

22-23 Canadian School of Hydrocarbon Measurement, Hyatt Regency Calgary, Calgary, Alberta www.cshm.ca

June

9-11 — Sensors Expo & Conference - Rosemont, IL United States

<http://www.sensorexpo.com/sensors2007/v42/index.cvn>

11-13 — 2008 American Control Conference - Seattle, Washington

<http://www.a2c2.org/conferences/acc2008/>

23-26 —ISA France Forum on Wireless Technology (ISA-100 Committee will also meet at this time) - Nice France

November

10-12 — WBF 2008 European Conference

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



highly fragmented industry.

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

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



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>

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

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>



The power of e-learning!

Abhisam Software is a young knowledge based company which has been set up to provide training to technical professionals by e-learning. The innovative e-learning courses help professionals to stay on top of the learning curve.

What better way to get training, other than by enrolling in an e-learning course? E-learning frees you from attending classrooms, or cramping your work or leisure schedule in any way. It enables you to learn & get training **anywhere** & at **anytime**.

Get trained anywhere & at anytime by making use of **ON DEMAND LEARNING!**

Learn anytime, anywhere by taking advantage of our e-learning courses. These e-learning courses are available in a variety of ways including as online learning courses, SCORM & AICC compliant courses which can be hosted on your Learning

Management System (LMS) or as stand alone courses on CD ROMs.

Abhisam Software have also started an m-learning course on RFID, which can be downloaded to your mobile phone.

They have e-learning courses on the following subjects:

E-learning course on **Gas Monitors**, <http://www.abhisam.com/GasMon.htm>

E-learning course on **RFID**, <http://www.abhisam.com/rfidcourse1.html>

E-learning course on **Hazardous Area Instrumentation**, <http://www.abhisam.com/hazareainst.htm>

M-learning course on **RFID**, <http://www.abhisam.com/products.htm>

For further details please contact via their website Abhisam <http://www.abhisam.com/>

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