ISA Los Angeles Section

www.isala.org

ANNUNCIATOR

Special Instrumentation 2012 Expo Edition

In Next Month's Issue...

Upcoming Regional Events

Feb 22: Instrumentation 2012 Expo & Training, Carson

Mar 23 -- *Golf Tournament, Rio Hondo Golf Club, Downey*

Apr 22-25 -- ISA Analysis Division Symposium, Anaheim

May 17-18: ISA Cencal Golf Tournament & Tabletop

"The five essential entrepreneurial skills for success are concentration, discrimination, organization, innovation and communication."

-- Michael Faraday (1791-1867)

6th Annual
Instrumentaton 2012
EVENT PROGRAM

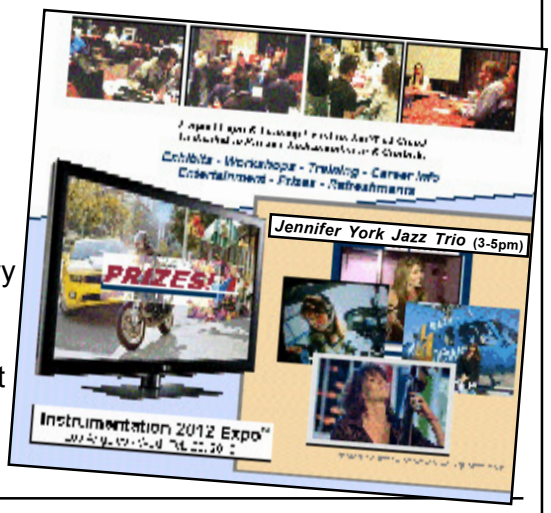
Admission to All Classes, Workshops, Seminars and Exhibits Is Free and Open To All Who Pre-Register Online At:

www.Instrumentation2012.com

Register online today *it's free!*

35 Training Classes & Workshops All Day
10:00am, 11:30pm; 1:00pm, 2:30pm; 4:00pm
Covering All I&C Topics, from Basic to Advanced

State of the Art Exhibits, and Demonstrations
10am - 5pm



Carson Convention Center
801 E Carson Street, just off 405 Fwy
Carson, CA 90745 - (310) 835-0212

Free Parking - Enter from Carson St at the Carson Doubletree Hilton

Instrumentation 2012 Expo & Training

Wednesday, Feb, 22, 2012 at Carson Convention Center

Instrumentation 2012 is the largest exhibition and training event on the west coast dedicated to process instrumentation, control and automation. Once again the Los Angeles County one-day event will be held at the Carson Convention Center next to the Hilton Doubletree Hotel. All classes, workshops, seminars and exhibits are free to those who pre-register online. The first 20 ISA members who preregister online will receive an extra 10 raffle tickets ($50 value) good toward 42-inch HDTV and other prizes. Attendees and exhibitors register at www.Instrumentation2012.com.

Instrumentation2012.com

INSTRUMENTATION 2012 EXPO & TRAINING

Wednesday, February 22, 2012

Carson Center, Carson, CA

Register Online At:

www.Instrumentation2012.com

TRAINING CLASSES

10:00 - 5:00 All Day

Exhibit 301

Pressure Measurement Hands-On Workshop

Jim Pronge, Crystal Engineering

Wilmington Instrument Co

Novice and veteran technicians and engineers will learn how to do the most common types of pressure checks, calibrations and recordings using the very latest state-of-the-art pressure measurement equipment . Presented by Crystal Engineering and Wilmington Instrument Co.

10:00 - 5:00 All Day

Exhibit 601

I/O Controller Workshop

Jasen Lee, iComTech

Attendees will learn in this hands-on workshop how to program the latest I/O controllers as well as in depth knowledge about related state of the art I/O devices.

10:00

Room 107-A

Myths and Misconceptions: Common Mistakes Made Using Gas Detectors

Robert Henderson, GfG Instrumentation

Robert Henderson has over 30 years of experience in the design, marketing and manufacture of gas detection instruments. Robert is the President of GfG Instrumentation, Inc., a leading supplier of portable and fixed gas detection, homeland security and indoor air quality monitoring products. GfG's instruments are used in confined space, oil production and refining, industrial hygiene, automotive, hazmat and other atmospheric monitoring applications all over the world. GFG Robert Henderson can be reached at bhenderson@gfg-inc.com or (800) 959-0329.

The LEL, O2, CO and H2S sensors in single and multi-sensor portable instruments are accurate, dependable, and can last for years in normal operation. However, sensors have limitations as well as capabilities. A sensor that underestimates or fails to detect the hazard it is supposed to measure can be the cause of accidents. It's critical to understand what these life safety devices can accurately detect, and what they can't. It's also important to be aware of additional technologies such as infrared (IR) and photoionization (PID) sensors that can provide a solution when standard sensors are not the best choice.

10:00

Room 107-C

Why, Where and How to Measure Oxygen in Power and Petrochemical Industries

Andy Archer, Hach Company

Andy Archer (ME, Engineering Professional Practice, University of Wisconsin; BS, Materials Science & Engineering, Ohio State University) has over eleven years experience in sales and service of water quality instrumentation. He currently holds a position with Hach Company as an Applications Development Manager for the petrochemical market segment. In this role, Andy supports Hach's sales and service teams, and works directly with oil refineries and chemical plants to meet their water analysis challenges.

Control of oxygen in power generation and petrochemical plants is essential to safe, efficient and effective operations. Since you can't control what you don't measure, accurate and reliable measurement of oxygen in a variety of plant processes has become critical. Examples of common oxygen measurements include ppb-level dissolved oxygen in boiler feedwater, ppm-level oxygen required to maintain the health of biological wastewater treatment systems, and gas-phase oxygen measurements in tank headspace to prevent explosive mixtures. While electrochemical cells have been the standard oxygen measurement method for many years, recent developments in the field of optical luminescence have yielded oxygen sensors that rival the performance of electrochemical cells with the added benefit of greatly reduced maintenance requirements.

10:00

Room 111

Ultrasonic Sensors - Application and Calibration

Jerry Becker, D&D Engineering

Dave Snyder has a BSEE from West Coast University. He has over 35 years of experience in the aerospace, commercial and utilities industries. Mr. Snyder has additional experience in instrumentation engineering, sales, marketing and applications. Jerry Becker has a BS in Engineering from CSUN and is a registered Professional Engineer in the State of California in Control Systems. He has over 30 years of engineering, sales and marketing experience in instrumentation and control systems.

Ultrasonic Transducers will be presented. Topics include: What is Ultrasonics Technology? How can Ultrasonic Transducers be used for measurement? Applications such as tank level and deployment issues will be discussed. Calibration techniques, the importance of calibration and how to use the calibration information will also be presented. Anyone interested in the use of ultrasonic level transmitters should attend.

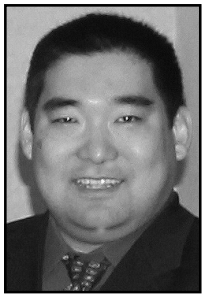
10:00

Room 132

Real Time Information Systems

Maria Lemone, ICP DAS USA

Maria Lemone is a Sales Manager at ICP DAS USA near Los Angeles, CA. She has a BS in Computer Science with a minor in Web Development and Technology Literacy. Her work experience has included web development, application engineering, and technical sales. Maria can be reached at (310) 517-9888 or mariaL@icpdas-usa.com. Robert Murao is a Technical Support Engineer at ICP DAS USA. He has a BSEE degree and over 15 years of experience in the Automation field. He has previously worked in sales, distribution and technical support.



This presentation will provide an overview of

Real Time Information Systems. It will cover local systems such as PLC's, controllers and data acquisition hardware. It will also cover data communication devices like repeaters, protocol converters, switches and cellular routers which help information get back to a central system. It will introduce SCADA systems, web publishing, databases, user management and security. We will also provide a live demonstration.

10:00

East Exhibit Hall

Hands - On Digital Multi-meter Course, Part 1

John Bowman, Wilmington Instrument Co

Instructor John Bowman of the Wilmington Instrument Company has been in the test and measurement field since 1973 including 30 plus years of service with the Fluke Corporation. John is a Board member and past President of the Measurement Science Conference. He has presented numerous classes for ISA, NCSli, IAEI and other organizations during his career. John is certified for thermal Imaging and vibration analysis.

The two part Digital Multi-meter course instructs attendees on practical hands-on DMM measurements using test boards. Topics include the IEC 61010 safety regulations, Personal Protection Equipment (PPE), proper use of DMM's and related theory. Attendees are welcome to bring their own DMM's or use one of ours. Course length: approximately 90 minutes. Part A: IEC 61010 Safety and PPE Review; DC Voltage measurements; AC Voltage/Hertz measurements; RMS explained; Part B; Resistance measurements; Continuity measurements; Capacitance measurements; Diode measurements; Current measurements; Q&A.

11:30

Room 107-A

Kinematic Viscosity

Brian Walsh, Anton Paar

Brian Walsh is the West Regional Process Instruments Technical Sales Specialist with Anton Paar USA, and has over 20 years of experience in the instrumentation market. Anton Paar is the established technological leader in the fields of rheology, viscometry, density and concentration. Brian can be reached at Anton Paar USA, 10215 Timber Ridge Drive, Ashland, VA 23005, (804) 550-1051, brian.walsh@anton-paar.com . Website: www.anton-paar.com.

Kinematic Viscosity is a vital measurement for petroleum products. The current practices for pipeline transportation rely on inline dynamic viscosity measurement that estimate kinematic viscosity using ASTM D341 equations thereby adding measurement error in predicting temperature compensated viscosity at the reference temperature. This class will discuss new technology that reports true Kinematic Viscosity by integrating true inline density measurement with inline dynamic viscosity continuously online in real time.

11:30

Room 107-C

Super Resolution - A Major Advancement in Thermal Image Quality

Chris Segura, Testo, Inc.

Chris Segura is the Sales Manager, Energy & Industrial, for Testo Inc. Testo is one of the world's leading manufacturers of portable test equipment including combustion analyzers and thermal imagers. Prior to coming to Testo, Chris was involved with the design and manufacture of air pollution control equipment (thermal and catalytic oxidizers, and electrostatic precipitators) for a variety of manufacturing processes. Chris is a registered Professional Electrical Engineer and holds a BS degree in Systems Engineering from the U.S. Naval Academy.

Testo's patent-pending SuperResolution technology represents a major advancement in image quality for thermal imagers. With a four-fold data resolution improvement, each thermal image is incredibly detailed, providing the most precise thermographic measurements possible. SuperResolution combines sequential imaging with an advanced algorithm for incredible detail and absolutely zero interpolation. This new technology also accounts for any tremor or hand shake by the operator, ensuring the clearest of images for analysis. The SuperResolution improvement effectively doubles the image quality for a given thermal array, i.e. an image taken with a 160 x 120 thermal array becomes equivalent to an image taken with a 320 x 240, and a 320 x 240 array image has the clarity of a 640 x 480 array, and so forth. Information on how SuperResolution works and examples of images produced in SuperResolution will be presented.

11:30

Room 111

Valve Types & Their Most Cost Effective Usage

Tom Burdi, Advanced Process Services

Tom Burdi has over 30 years experience in all aspects of process valves. He is President of Advanced Process Services, Inc., of City of Commerce, California.

This presentation will explain the different types of valves and their best location in the system. Attendees will learn about the different types of valves and their best suitable location in the system with the visual presentation on the valves. Included types will be Gates, Plugs, Butterfly, Ball & Globes (High & Low Pressure).

11:30

Room 132

Wireless Technologies for Industrial SCADA Applications

Chuck Clark, ProSoft Technology

Chuck Clark is US Southwest Regional Sales Manager for ProSoft Technology.

This presentation will explore the various technologies available today and which technology is best for various applications. This is a technology-based presentation and is vendor neutral.

11:30

Room 209

Hacking 101: Intro to Networking & Cyber Security in an Industrial Environment

Victor Wegelin, ISA - Harbor College Training

Victor Wegelin, P.E., is owner of PMA Concepts, an independent consulting firm based in Westminster, California, and has over 25 years experience in the

design, implementation and support of Industrial Networks, total integrated solutions that include measurement, control, operator interface, and business system links. He holds a BS in Chemical Engineering from University of Cincinnati, and an MBA from The University of Chicago. He is a licensed professional Control Systems engineer. Victor joined ISA in 1983, and was recently named a Fellow. Victor began teaching for ISA in 1990, and now specializes in the teaching and development of many popular courses dealing with industrial network technologies. He also helped develop and now teaches the Industrial Controls Certificate program at California State University, Fullerton., and a Wonderware HMI course for Texas State Technical College.

We will have the VPN/process environment up and running with several workstations available for viewing and interacting, two people per workstation. The participants will interact with the workstations provided and get a sense of the environment. A wireless VPN will be set up to simulate a process environment.

11:30

East Exhibit Hall

Hands - On Digital Multi-meter Course, Part 2

John Bowman, Wilmington Instrument Co

John Bowman of the Wilmington Instrument Company has been in the test and measurement field since 1973 including 30 plus years of service with the Fluke Corporation. John is a Board member and past President of the Measurement Science Conference. He has presented numerous classes for ISA, NCSli, IAEI and other organizations during his career. John is certified for thermal Imaging and vibration analysis.

This two part Digital Multi-meter course instructs attendees on practical hands-on DMM measurements using test boards. Topics include the IEC 61010 safety regulations, Personal Protection Equipment (PPE), proper use of DMM's and related theory. Attendees are welcome to bring their own DMM's or use one of ours. This workshop will have 15 - 20 meters available for use in the class. We can double up at each station if needed allowing for more attendees.

11:30

West Exhibit Hall

Standards and Best Practices for Signal Wiring

Joe Hohn, Dynalectric

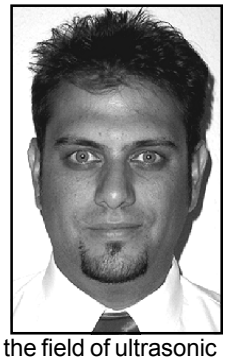
Joe Hohn is an I&C engineer with Dynalectric in San Diego and has over 25 years of experience in the application, commissioning and troubleshooting of instrumentation. Among Joe's recent projects was the 16,000 point Biogen Idec (now Genetec) plant in Oceanside, California, where he served as design lead for instrumentation and valves. He will review traditional analog and discrete equipment and circuits as well as the more common of the fieldbus technologies. Joe is a 1977 graduate of the University of Maryland. He has taught the ISALA review course a number of times and is an exam writer for the ISA CAP exam. Joe has also taught ISA seminars, including "Field Buses and the Controls Technician," an overview of the more common buses, their applications, troubleshooting techniques, configuration and diagnostic tools and best practices for maintaining both the bus infrastructure and the instruments, valves and I/O that are routinely connected to the buses.

A review of codes, standards and best practices that apply to control system power and signal conductors. Includes a thorough discussion of allowable methods for hazardous areas. Addresses cost mitigation techniques for both hazardous areas (e.g. intrinsic safety, non-incendive) and non-classified areas (e.g. class 2 circuits). Includes both traditional I/O wiring and the increasingly common field buses. Intended for control systems engineers responsible for system design or project managers responsible for cost containment. Will have value and be largely comprehensible to journeymen wiremen and foremen. May have incidental value for sales engineers promoting equipment for use in hazardous areas.

1:00

Room 107-A

Fixed Ultrasonic Gas Leak Detectors



Gregory Neethling, Gassonic

Gregory A. Neethling is the technology manager for Gassonic A/S, a General Monitors company. Mr. Neethling has over 10 years experience in the field of ultrasonic gas leak detection, with an electrical engineering background. He started his career at Innova Air Tech Instruments in Copenhagen, Denmark as a research and development engineer. Mr. Neethling's knowledge of industrial gas detection stems from the development and deployment of ultrasonic gas leak detection devices over the last decade. He has published several papers on fire and gas detection implementation with emphasis on ultrasonic instruments.

Combustible gas detectors often constitute the first line of defense toward mitigating the risk of fire. Gas detected at the source can be contained to prevent its further spread and avoid explosions. Gas from high-pressure pipes and other pressurized systems pose a particular challenge, since leaks produce highly localized accumulations that quickly dissipate from the core of the jetting gas. Detection methods that rely on the transport of gas to the sensor may fail to respond to leaks if the gas does not reach the sensor in sufficient quantities. Unlike these conventional technologies, ultrasonic gas leak detection does not depend on gas concentration. The operating principle of this type of detection is that the escaping gas from a pressurized vessel generates ultrasound, which can be identified by an acoustic sensor and measured as a leak rate. In this presentation, you will be provided with an overview of ultrasonic gas leak detection and its application to industrial safety. In addition, guidelin

1:00

Room 107-C

Digital Sensor Technology

Joe Hewitt, Mettler Toledo Process Analytics

Joe Hewitt received a BA in Engineering Sciences from Dartmouth College in 1985 and a Masters Degree in Mechanical Engineering from Thayer School of Engineering in 1987. He has 25 years experience in instrumentation and control and has been awarded several patents in the field. He is currently employed by Mettler Toledo Process Analytics.

The availability of smaller, less expensive and more robust digital electronic components has enabled sensor manufacturers to improve reliability and functionality by building "smart" sensors that incorporate these components. This discussion will focus on the enhanced functionality,

diagnostic capability and signal integrity made possible by building digital signal processing capability directly into the sensor.

1:00

Room 111

Chemical Feed System Design & Maintenance

Tim Berschauer, J. T. Blancett, Charles P.Crowley Company

A detailed description and discussion of all aspects unique to chemical feed system design and maintenance will be presented. Attendees are encouraged to bring their application questions.

1:00

Room 132

Virtual SCADA with Compact, Low Cost, Easy-to-Use Devices

Rob Henley, ioSelect

Recent technology advances on several fronts have opened the door to a new class of process monitoring architecture that has the potential to significantly change the rules for remote monitoring and control. A new class of 'Virtual SCADA Solutions' are driven by the huge cost savings in installation and logistics, and provides dramatic improvement in the collection frequency, reliability, and distribution of field data. The future of many industries and organizations will depend on their ability to automate the decision process and provide customers, suppliers, and employees with reliable and timely information. Innovative solutions composed of distributed I/O and communications, 3G/4G cellular communications, and web-enabled applications, are designed to "unlock" this information by delivering Internet connectivity to sensors and devices. By integrating sensor networks into the modern computing environment, these solutions are now available to extend enterprise applications and managerial supervision of remote assets and processes, in real-time, from any location in the world.

Rob Henley is the president and founder of ioSelect Incorporated, a company focused on the implementation of innovative connectivity solutions that provide 'anywhere, anytime' access to equipment, process, and asset information for their customers and partners. He can be reached at ioSelect Incorporated, 9835 Carroll Centre Road, Suite 100, San Diego, CA 92126, (858) 537-2060 or email: rob.henley@ioselect.com.

For information about this class, please visit the ioSelect at exhibit 705.

1:00

Room 209

Hacking 102: Methods Hackers Use to Gain Access to Industrial IT Infrastructure

Victor Wegelin, ISA - Harbor College Training

There are numerous types of malware, backdoor trogans, worms, phishing, spear phishing, remote access telemetry (RAT) key loggers and USB flash drive rootkits, not to mention the real high-high end state sponsored, zero day exploit stuff that keeps the NSA up late all night. Stuxnet, Duqu and Shady RAT are a clear and present danger to every manner of power plant, refinery, electrical distribution hub, water treatment plant, hospitals and airports.

1:00

East Exhibit Hall

Roundtable: Analytical Measurements in National Gas and LNG Applications

Open Discussion, Industry Users Group

Industry roundtable discussion. Bring your current day-to-day application questions. Discuss all aspects of instrumentation, controls and automation will experts in the industry, and make career contacts.

1:00

West Exhibit Hall

Safety System Design and Design Requirements

Joe Hohn, Dynalectric

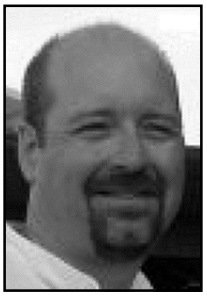
A review of codes, standards and best practices for safety systems. Includes a thorough discussion of the several classification (SIL) levels and methods for mitigating the risk associated with each classification. Addresses fault tolerance, redundancy, separation, equipment selection, documentation and overall circuit design. Intended for control systems engineers with responsibility for system design or equipment selection. Will have value and be largely comprehensible to technicians who are actively engaged in installation, maintenance or validation of safety systems. Probably too detailed to be of interest to sales engineers.

2:30

Room 107-A

Integration Projects for Solutions in Gas and Flame Detection

Brent Kleven, Scott Safety



Brent Kleven is Regional Sales Manager for Fixed Gas & Flame Detection for Scott Safety. B.Sc. in Chemical Engineering from Oregon State University in 1984. Over 25 years of experience with gas and flame detection. He can be reached at BKleven@tycoint.com or (503) 612-7836.

Sometimes we approach jobs by pulling items off of a list and using them to fit the need, similar to building something with premade blocks. But what happens when we can only find a square peg to fit in that round hole? How can we proceed if the sample has too much water in it for the detection device, or if there is no wiring available to the detection site? Sometimes the 'off the shelf' solutions don't work. When this happens we need to explore specialty integration solutions to fulfill these needs. This presentation presents some of these interesting problems and the solutions that were provided to fit them. Question and Answer time will also be used to assist attendees with their own problematic situations.

2:30

Room 107-C

MicroDistillation for Optimization in Gasoline and Diesel Production

Susan P. Harris, PAC, L.P.

Susan Philyaw Harris has a B.S. Biochemistry Texas A&M; MBA University of Houston. Worked for several on-line analyzer manufacturers in sales, applications, and product management. Currently work at Petroleum Analyzer Company as Director of Business Development in the Process Analytics Group for North America.

The boiling range distribution of petroleum fractions provides an insight into the composition of feedstocks and products related to petroleum refining processes. Different physical distillation and GC test methods are discussed in this presentation.

A summary of ASTM methods (D86, D2887 and D3710) will be discussed illustrating results from a variety of instruments including physical distillation, microdistillation, and simulated distillation techniques. Data will show microdistillation precision comparison to the D86 lab method and simulated distillation method on the 50% recovery point in gasoline blenders. The application of the smaller volume microdistillation technology can result in cost savings and increased throughput by optimization of cut points in gasoline and diesel production.

2:30

Room 111

CEMS Design and Configuration for Industrial and Utility Applications

Joanne Randall, Cemtek Environmental

Joanne Randall is CEMS Specialist for Cemtek Environmental and has over 25 years experience in the environmental arena. Joanne has a BA in Business Administration. In 1988, she moved from the accounting department at KVB to manage the field service division and then into technical sales and marketing in 1993. By teaming with the engineering, operations and field experience at CEMTEK, Joanne can help you find the most economical yet effective system to meet your environmental monitoring needs. Projects include coal and gas fired power plants and all types of industrial applications. As an active member in the ISA and AEE, and regular attendance to EPRI, EPA, EUEC, AWMA and regulatory agency meetings, she keeps abreast of the current regulations and technical issues.

Continuous Emissions Monitoring Systems (CEMS) maintenance procedures are critical for ensuring high levels of CEMS availability to meet permit and regulatory mandates. It's important to identify and establish a series of maintenance activities that will provide a high level of confidence in the data reported by the CEMS and will ensure that emission-monitoring data is complete, representative, and of known precision and accuracy.

2:30

Room 132

Advancements in Extractive TDLAS Technology - Refinery Applications

Sam Milller and Greg Lankford, SpectraSensors

Greg Lankford is Business Development Manager Natural Gas Processing, LNG, & Process. He has over thirty years experience in the On-line Process Analytical Industry and seven years experience with Analytical Systems Integration Project Management.

This paper will discuss advancements in extractive TDLAS analyzers for refinery applications including validation techniques and specific application driven requirements. TDLAS analyzers have been developed for very low (sub ppmv) measurements with built in validation hardware. Included in this presentation: moisture (H2O), hydrogen sulfide (H2S) and trace ammonia (NH3).

2:30

Room 209

Hacking 103: Discussion: Industrial Networking and Cyber Security Topics

Victor Wegelin, ISA - Harbor College Training

Sponsor Harbor College in partnership with ISA has an excellent five day class for tech savvy IT/Operations professional. We can also provide useful links to detailed information on how to begin the process of hardening your facility to unauthorized access.

2:30

East Exhibit Hall

Roundtable: Control Systems Engineer PE License

Open Discussion, Industry Users Group

Industry roundtable discussion. Bring your current day-to-day application questions. Discuss all aspects of instrumentation, controls and automation will experts in the industry, and make career contacts.

2:30

West Exhibit Hall

Which Fieldbus Should I Select?

Joe Hohn, Dynalectric

An introduction to the most common fieldbus technologies used in process control. Includes a thorough discussion of the strengths and limitations of both the protocol and the physical layer. Addresses speed, distance, reliability, segment loading, equipment selection, design document recommendations and test requirements. Intended for control systems engineers with responsibility for system design or equipment selection. Will have value and be largely comprehensible to technicians who are actively engaged in installation, maintenance or testing of fieldbuses. Probably too detailed to be of interest to sales engineers.

4:00

Room 107-A

Oxygen Sensors: Manufacture & Application

Daniel Gomez, Advanced Instruments

Daniel Gomez holds a BS degree in Mechanical Engineering, He is a sales engineer for Advanced Instruments overseeing all analyzer system integration within various industrial applications. Mr. Gomez also manages all sales and installations in the central and western United States, India and the Middle East. He can be reached at (909) 392-6900 or gomezd@aii1.com at Advanced Instruments, 2855 Metropolitan Place, Pomona, CA 91767.

This presentation will explain the science behind oxygen sensors, how the signal is generated and conditioned to give a meaning output as ppm or percentage oxygen in various industrial applications.

4:00

Room 107-C

Roundtable: Water / Wastewater Topics

Open Discussion, Industry Users Group

Industry roundtable discussion. Bring your current day-to-day application questions. Discuss all aspects of instrumentation, controls and automation will experts in the industry, and make career contacts.

4:00

Room 111

Alarm Management Standards - Control System Engineer's Perspective

Hiten Dalal, Kinder~Morgan Pipeline LLC

Hiten A Dalal PE PMP has 23 years of experience in Instrumentation & Control Engineering. He has

worked at Major Engineering Contractorsfor most of his career. He is contributing author in prestigious Instrumentation Engineers Handbook Fourth Edition. He has made presentations on ANSI/ISA 18.2 at ISA OC Expo. Presently he is Automation Engineer Sr. at Kinder Morgan EP, LLC in Orange, CA supporting SCADA Team efforts of Pacific Region. In this presentation he plans to introduce basics of Alarm Management and cover practical aspects such as Priority Definition, Top 20 Analysis & Flood Analysis. Hiten is SCADA Engineer Sr at Kinder~Morgan Pipeline LLC.

Since Oct 2009, for every Control System Engineer, Alarm Management has become very important as a result of ANSI ISA 18.2. Several regulations are going in effect this year that makes normative reference of this standard. To add to comprehension of this for operations, below are highlights, first key word in Alarm Management standards is - MANAGEMENT; second key word is in Alarm definition - REQUIRING OPERATOR RESPONSE. This is quaint essence of Alarm Management. There has to be operator response defined for every alarm. The standard talks about what Alarm does - first Line of Defense in LOPA to bring process back to its normal. (LOPA - Layer of Protection Analysis). So we need to think what are your alarms doing for the process? What are you trying to defend? Obviously Pipeline/ Process Integrity, Personnel & Equipment safety, etc. Perform brain storm exercise for your process. Standard goes-on in putting numbers to operator response as a guideline (10 Alarms per hour), define this number for your proce

4:00

Room 132

Flow Measurement 101

Dave Schmitt, S. C. Controls

Dave Schmitt has been selling flow meters for over 30 years.

Flow measurement basics will be discussed using a Powerpoint presentation. Discussion will include all types of flow measurement devices.

4:00

East Exhibit Hall

Roundtable: Current I&C Issues in Refinery Operation

Open Discussion, Industry Users Group

Industry roundtable discussion. Bring your current day-to-day application questions. Discuss all aspects of instrumentation, controls and automation will experts in the industry, and make career contacts.

4:00

West Exhibit Hall

Automated Demand Response

Jack Rosenthal, Honeywell Smart Grid Solutions

Jack Rosenthal is a registered professional electrical engineer, certified energy manager and LEED AP. He has worked on the implementation and engineering associated with "Automated Demand Response" in large industrial plants. He has over 25 years experience in Energy Management in Metals, Chemicals and Processing industries. Jack has been working closely with the Honeywell Process Solutions division.

Honeywell Process Solutions will present case studies on implementations of "Automated Demand Response" in large industrial and process plants. They will share case studies of how Automated Demand Response can save money, provide systems expandable in the future and explain the Open Architecture. We suggest that Plant Engineer, Facility Engineer, Process Engineer, Plant Manager and Energy Manager attend this program.

Exhibiting Companies, Alphabetical

Companies, By Exhibit Number