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Regional Training & Events
April 13
Machine Monitoring Seminar “Back to the Basics”
www.isaoc.org

May 16-17
Golf Tournament & Tabletop
ISA Central Calif Section
www.isacencal.org

“Whether you think that you can, or that you can’t, you are usually right.”
- Henry Ford (1863-1947)

Cyber security concerns and securing critical control systems

This presentation will address the growing concerns of cyber threats to critical municipal and industrial control systems (SCADA systems). Topics discussed will be examples of threats, explanations of types of threats, (like flooding and spoofing), examples of various ISA, ANSI and AWWA standards and best practices for addressing cyber security concerns, as well as some examples of Network infrastructure devices that be used in protection strategies in conjunction with security practices to be enforced.

Zrinko Vuk brings over fifteen years of industry sales experience and eighteen years working in the process industry. Prior to joining Phoenix Contact Zrinko was a Sales Engineer in Arizona specializing in process instrumentation and signal conditioning products. In 2010 Zrinko joined Phoenix Contact as a Project Sales Engineer based in Southern California.

Zrinko’s main focus now is helping with specification for projects and presenting Phoenix Contact Industrial Solutions to A&E Firms and Corporate Engineering centers in California, Arizona, New Mexico and Nevada. Zrinko holds Associates in Chemical Engineering from British Columbia Institute of Technology, and a Bachelors of Science in E-Business from University of Phoenix.

Meeting Details
Date: Wednesday, April 10, 2013
Time: 5:00 PM Networking; 6:00PM Program
Location: Lutron Electronics, 2458 Dupont Dr, Irvine
RSVP: Manny Martinez (562) 334-5057 or Manny.E.Martinez@fluor.com

Member Spotlight
ISA Orange County Section President-Elect Edward Naranjo of General Monitors gave two presentations at Instrumentation 2013 Expo and Oil & Gas Symposium on March 15.

His first presentation, Ultrasonic Gas Leak Detection (UGLD) described its use in the oil and gas industry as a means for detecting combustible gas leaks. UGLD responds to high pressure leaks by measuring the airborne ultrasound emitted.

Continued on page 2

ISAOC Seminar, Saturday, April 13

Back to the Basics: Machine Monitoring

On April 13, ISAOC is presenting this seminar from 8-12 noon at Marie Callender’s, which will highlight transducer and temperature and vibration sensor fundamentals. Details on page 2.
President’s Message
By Rafael Agraz Sanchez, Section President

Member Spotlight
Continued from front page

which when detected by the sensor, provides a measure that is proportional to the leak rate.

Introduction to Functional Safety, his second presentation, focused on international standards for functional safety like ANSI/ISA 84.01-1996 and IEC 61508 use the concept of the safety life cycle as a tool for managing the application of safety instrumented systems. This seminar imparted basic knowledge on the selection of safety integrity levels (SILs) and the definition of requirements according to a chosen SIL.

Edward Naranjo is a global technical product manager for General Monitors. Since joining the company in 2004, he has published over 20 papers on process safety, with particular interest on infrared gas imaging and ultrasonic gas leak detection. A chemical engineer by training, Mr. Naranjo received a BS degree from Caltech and a Ph.D. from the University of California, Santa Barbara. He is Associate Director for ISA’s Process Measurement and Control Division (PMCD) and President-elect of the ISA Orange County Section.

The monthly ISA Section Newsletters and annual Regional Membership Directory and Buyers’ Guide are mailed to all ISA section members in Southern California and Southern Nevada and to ISA student affiliates at Cal Poly Pomona, Long Beach State University and Bakersfield College. Newsletters include the Central California Alarm, Los Angeles Annunciator, Orange County Chart, San Diego Signal and Las Vegas Experience. Changes of address can only be processed by ISA at (919) 549-8411 or www.isa.org. For editorial submissions and feedback, please contact the newsletter editor. Advertising rates, circulation and style guide is posted at www.TechPubs.net. Billing and publishing correspondence may be addressed to TechPubs Communications, PO Box 1605, Costa Mesa, CA 92628. Submissions are copyright by the authors with all rights reserved. Copyright (C) 2013 TechPubs Communications. All Rights Reserved.
Regional ISA Classroom Training

Burbank to host ISA training

The following courses are scheduled by ISA. For information or to sign up, please call ISA at (919) 549-8411. If you would like to see courses held at a location near you or at your facility, please contact Matt Rothkops at ISA. These classes are scheduled for Burbank:

April 22-26 (5 days)
Advanced Industrial Cybersecurity-NEW! (TS13)

May 22-23 (2 days)
Using the ANSI/ISA99 Standard to Secure Your Control System (IC32)

June 3 (1 day)
Process Safety Fundamentals-NEW! (EC50CT)

Continued on page 7

Message from the DVP

District 11 is the Best

by Gary Campbell

District 11 has the most active sections, mainly due to the best volunteer section leaders in ISA. We also represent about 10% of the entire ISA membership. If you are a member interested in tuning up your leadership skills with support from great people, contact your local leadership; get involved. All sections need fresh input and new talent to maintain section success.

As you know the District VP Board worked hard to reinstate the 2013 SLM. I took this personally to the Executive board because of the importance of face-to-face meetings. I greatly appreciate Terry and Peggy’s guidance to assure the SLM is efficient and strategic. My hopes include much less ‘group-think’ with many more ‘email discussions’ leading up to, and condensed out in the SLM meetings. As a voting member of the executive board pursuing due-diligence, I communicated to the board my concerns about the 2013 budget prior to approval; identified disparities between our Strategic Plan and

Continued on page 13

Students Scholarships

ISALA scholarship application deadline May 18th

The ISALA scholarship deadline is approaching, and applications are invited. The application form for the 2013 Scholarship Program is posted at www.isala.org/scholarship. For more information, please send an email to scholarship@isala.org with any questions.

California CSE PE license exam application deadline May 1st

See page 4 for more info about the exam and the PE Review Course.
Application Deadline for Calif CSE PE License Exam is May 1

For information about the 2013 CSE PE Exam Review Course held by the Los Angeles Section, please contact Chuck Bagby at (714) 248-6496 or ChuckBagby@gmail.com or John Prince at (714) 968-5501 or jprince@calcems.com.

Please verify the exam deadline at the California Board for Professional Engineers, Land Surveyors, and Geologist website www.bpelsg.ca.gov. This year the application deadline is May 1st.

For all questions regarding the PE exam... including cost, location, confirming dates, learning if you qualify to take any of the state license exams... you will need to contact the State PE Board at (916) 263-2222 or BPELS.Applications@dca.ca.gov. From the State website:

- May 1 - Deadline for new PE exam applications, all disciplines
- July 30 - Deadline for all “re-file” PE exam applications in all disciplines
- Oct 25 (Friday) - PE Exam for Control System Engineer license and most (but not all) other disciplines. EIT/FE exam is held Oct 26.

Career Advancement

ISA Cal Poly Student Night

The annual ISA Cal Poly Student Night is being planned for late May or early June. Check the May issue of the newsletter for more information. This is THE big networking event of the year where representatives from local companies looking for the top engineering talent can talk with upcoming graduates in an informal setting.

ISA members and company representatives are invited to attend the Student Night program and dinner at no cost.

For the date, more information and to RSVP, please contact ISA Cal Poly Section advisor, Dr. Salomon Oldak at soldak@csupomona.edu.

Engineering Project Symposium

Greetings from the College of Engineering at Cal Poly Pomona! We would like to encourage you to save the date for the 2013 Engineering Project Symposium & Showcase on Friday, May 31, 2013.

Approximately 400 Engineering Students will present their Senior Design Projects. Symposium registration will open in May and more information, including a schedule of events.

Industry attendance is crucial to the success of our Engineering Project Symposium & Showcase. It is a chance for future engineers to get vital feedback from you based on your industry experience.

For more information please contact one of the following at (909) 869-2513 or engrevents@csupomona.edu or check the website at www.csupomona.edu/engineering.

Submitted by Mahyar Amouzegar, Ph.D., Dean, College of Engineering; Cordelia Ontiveros, Ph.D., P.E., Associate Dean for Academic Programs & Student Services, College of Engineering; Ben Bahr, Ph.D., Associate Dean for Research & Graduate Studies, College of Engineering.

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\text{EMRC... Flow Monitors}
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\text{Matheson... Calibration Gases/Regulators}
\]

Ambient Analyzers: NO/NO2/NOx, SO2, CO, CO2, O2, O3, NH3, TRS, H2S, NOy, N2O (for ambient monitoring, research, regulatory agency use)

NEW: PM2.5/PM10 Particulate Monitor

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Exhibitions & Training

Over 700 participate in Instrumentation Expo 2013 and So Calif Oil & Gas Symposium

A record 515 pre-registered plus another 185 others manning the exhibits and giving 52 presentations and hands-on workshops made this the largest event dedicated to process instrumentation and controls products and training on the west coast.
For high resolution photos, please send an email to photos@instrumentation2013.com.
Jack Ryan of NASA’s Dryden Flight Research Center presented a number of technologies being developed at the NASA Dryden Flight Research Center at the ISA CENCAL monthly section meeting held Wednesday, February 27 at the Petroleum Club “Sky Bar” in Bakersfield. Thanks to Program Chair Seth Olson for arranging this excellent program.

Among the technologies discussed are peak-seeking control and its application to formation-flight-for-fuel-savings; fiber optic sensors capable of producing measurements of a variety of parameters including shape, stress, temperature, pressure, strength, and operational load; and collision avoidance technologies and their application to F-16 aircraft and UAVs.

ISA Central California Section
Automation technologies in development at NASA Dryden Flight Research Center

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Local section meetings

For more details about any of the section meetings, please contact the section president, website or read each section’s complete newsletter online at www.instrument-news.com.

Orange Co Section - Machine Monitoring Seminar  Sat, Apr 13
Rafael Agraz Sanchez, rafael.agrazsanchez@gmail.com
Website: www.isao.org.

Los Angeles Section -- H2S in Gas Processing Plants  April 16
Paul Franklin, (818) 692-6669, paul.franklin@isala.org
Website: www.isala.org.

San Diego Section -- Flame Sensor Fundamentals  April 24
Mike Wallace, (858) 522-6866, mwallace@sweetwater.com
Website: www.isasd.org.

Las Vegas Section -- See Website  4th Thursday
Stan Spence, Stan.spence@wmeng.com
Website: www.isalv.org.

Central California Section -- Golf Tourn & Tabletop  May 16-17
Bud Van Wie, (661) 587-9322, blvanwie@elect-systems.com
Website: www.isacencal.org.

Bakersfield College Student Section  Contact Advisor
Sean Caras, (661) 395-4393, scaras@bakersfieldcollege.edu
Please contact advisor Sean Caras for the latest section information.

Cal State Long Beach Student Committee  Contact Advisor
Walter Martinez (562) 577-3605 wmartinz@csulb.edu
Section website: www.isacsulb.org.

Cal Poly Pomona Student Section - Student Night  May or June
Salomon Oldak, Advisor, soldak@csupomona.edu
Website: www.isacalpoly.org.

Instrumentation 2013 Expo, continued
For high resolution photos, please send an email to photos@instrumentation2013.com.

Continued on page 10
Job Shop and Business Opportunities (more on page 13)

Circulation is 1300-1500 ISA members and other industry personnel in California and Nevada. To place a Job Shop ad, call (714) 968-5501. The standard cost to place a job ad is $25 per block of 25 words. Position Wanted ads no charge for ISA members.

Wilmington Instrument Company

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CALIBRATION TECHNICIAN. Wilmington Instruments is looking for a technician to add to our calibration team at our Wilmington, CA, facility. The ideal candidate should have at least 5 years experience in the metrology field. Experience in an armed services PMEL program is a big plus. A list of the types of equipment we calibrate can be found at www.calcert.com/calibration.html. Contact Doug Larson at (310) 834-1133 or doug@calcert.com. Wilmington Instruments is an ISO 17025 certified provider of physical, mechanical, electrical, and frequency calibration services dedicated to providing the highest quality instrument support services available.

OUTSIDE SALES. Industrial Automation Group, a manufacturers representative for 20 years, is looking for an experienced sales person to sell measurement products, variable frequency drives, SCADA and related equipment in Central & Southern California and Southern Nevada. Markets: Alternative Energy, Oil & Gas, Power, Water/Wastewater and other Industrial. Please see our website www.iag-sw.com for the products and manufacturers that we represent. Contact Ron Henson of Industrial Automation Group at (909) 399-5234 or ron@iag-sw.com.

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eSolar’s novel technology concentrates sunlight for utility-scale electricity production, industrial heat and other uses. Our unique approach utilizes high volume production methods, leading edge controls software and agile design methods to achieve great reliability, lowest cost, and global supply. eSolar’s partnerships with GE and others around the world enable complete project capabilities, from technology development and component manufacturing to solar power plant construction and operation. eSolar has the following opportunities in Burbank for experienced power generation and/or industrial process automation professionals:

**Control Software Engineer:** Software engineer experienced with C++, C#, and control software development for industrial automation or power generation.

**Software Engineer in Test:** Software engineer experienced with software test automation using C++, C#, and PowerShell.

**Software Project Manager:** Experienced software project manager with strong engineering background and experience with embedded systems.

**Control Engineer:** I&C professional with extensive experience in designing and implementing control automation for power generation and industrial process automation with thermal systems like burners, boilers, and turbines.

Experience with I&C for power generation or process automation and/or development experience with DCS and/or SCADA products highly desirable for all positions.

See our full job listings and apply here: [http://www.facebook.com/esolarinc/app_62371051216](http://www.facebook.com/esolarinc/app_62371051216)

**Instrumentation 2013 Expo, continued on page 14**

For high resolution photos, email [photos@instrumentation2013.com](mailto:photos@instrumentation2013.com).
Business Development Manager, Lifecycle Services

A leader in the compliance and process control industry is seeking a qualified individual to join our management team in the position of Business Development Manager, Lifecycle Services. The position will be expected to increase and manage revenue and customer satisfaction through the entire sales process. Qualified candidate will manage and oversee the daily aftermarket service operations of the business, including business development for field service, parts and upgrades. The candidate will be responsible for recruiting, training and retention of the service and aftermarket team. In addition, the candidate will be responsible for Quality Assurance in project delivery and after sale support.

The individual will be tasked to develop, plan and implement sound business strategies for growing parts, service and upgrades sales. The individual will have the ability to budget and manage department expenses, interface with other departments to achieve business goals and integrate quality assurance, while maintaining and complying with all safety and environmental requirements. The position will be responsible for monitoring service and parts operations to ensure that schedules and customer expectations are met, while optimizing productivity, quality, and efficiency. The position will lead the company Quality Management System, with a hands-on role developing a culture of continuous improvement.

Experience and Skills Required:

- 5 – 10 years management experience and/or assignments that demonstrate leadership ability
- Excellent customer service skills
- 4 year college degree preferred – Technical/Science degree
- Have or be able to acquire quickly knowledge of company products.
- Have or be able to acquire quickly knowledge of the ACT database.
- Good working ability with Outlook, Word and Excel.
- Excellent interpersonal skills to work effectively with subordinates, peers, managers.
- Must have a clear background check and drug test
- Must have a valid CA driver’s license with no major violations

About the Company

For over a period of fifteen years, we have built a reputation of excellence in our industry with our outstanding technology, quality, and customer service. We are a growing company headquartered in California, with service and sales offices located across the USA. We are continually looking for energetic, motivated, and dedicated individuals interested in a fast paced, multi-tasking position in a professional office environment. We offer an exceptional salary and benefits package and the opportunity to grow with a great company.

Please email your resume with salary history & references to hrmng3041@gmail.com or call 949-283-0305.

Field Service Technician (CEMS)

Cemtek Environmental, the leader in the Emissions Monitoring Industry, is seeking experienced and trainee level field service technicians. If you are a great troubleshooter, good with computers, have excellent customer service skills and are willing to travel throughout California and the U.S, this may be the position for you.

Responsibilities:

Under the direction of the Service Manager and/or Site Supervisor, and at various locations including oil refineries, chemical plants, power generation facility and industrial work locations, the technician will:

- Perform calibration, maintenance, testing, troubleshooting, and repair on a variety of gas analyzers and analytical instrumentation for continuous emission monitoring systems (CEMS).
- Maintain all logs and required documentation for repairs and preventative maintenance performed.
- Work to logic diagrams, electrical and mechanical drawings and sketches, and other written instructions.
- Complete preventive and corrective and scheduled maintenance to improve operation of systems, instruments, and controls for metering and electrical equipment installed at customer facilities & plants.

Experience and Skills Required:

- Familiarity with/ability to use various test equipment (multi meters, flow meters, and electronic test equipment)
- Have or possess the ability to acquire knowledge of environmental compliance requirements such as 40 CFR Part 75, 40 CFR Part 60, SCAQMD RELCAIM, and various State or Local rules related to CEMS Maintenance and Quality Control and Quality assurance.
- Good working knowledge of Word, Excel and Outlook.
- Excellent interpersonal skills
- Possess a high degree of initiative, judgment, and ability to work independently
- Have a flexible schedule and ability to work both over-time and be on call for emergencies for one weekend per month. Out of town travel is required.
- Ability to lift 50+ pounds, climb ladders, and work in various (sometimes hazardous) physical environments
- Possess a valid driver’s license and be insurable by company’s vehicle insurance carrier.
- Ability to work in a drug free work environment for an Equal Opportunity Employer.
- Verifiable technical training & coursework, 2 or 4 year degree preferred.
- CEMS experience preferred but not required.

We offer a competitive compensation package including salary commensurate with experience, health and 401k benefits and generous PTO. Send resume complete with salary history and references to ingrid@cemteks.com.
**Sales Engineer – SCADA/RTU & Distributed I/O Products**

We are a young and dynamic company specializing in innovative RTU, PLC and I/O products for automation, asset management, and SCADA system applications in industries ranging from Water/Wastewater Infrastructure, Remote Tank Level Monitoring, and Utility Scale Solar Farm monitoring. We are currently in need of skilled people that can help move us to the next level of growth and customer identification and support.

**Responsibilities:**
- Identify and Develop New Customer Accounts.
- Provide Technical Support for both Existing and New Customers.
- Responsible for achieving sales and margin targets on a monthly basis.
- Presentations to prospective Customers/Systems Integrators

**Requirements:**
- At least 3-5 years Systems Engineering or Sales of control and automation system.
- Good Technical knowledge of Industrial Measurement & Control products
- Excellent verbal, written and presentation skills.
- Regional travel as required.

Applicants must possess the willingness and ability to do what it takes on a day-to-day basis to get the job done in a small ‘start-up’ environment (we all wear many hats). If you think you can help us, please send resume, salary history and requirements, and a brief introduction.

Respond in confidence to SCADAD1304@techpubs.net.

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District 11 is Number One! continued from page 3

financial line items, questioned forecasted revenues, etc. The board was later informed about reductions in 2013 forecast revenue. ISA is facing many challenges.

I encourage section leaders to attend the ISA Spring Leaders Meeting in June, especially long-term ISA members who know ISA workings and will speak up for membership concerns. There is no restriction on who can attend the SLM, but more of a ‘don’t bother to come if you’re not here for business message’.

My efforts are in getting ISA leaders to give more attention to member benefits has not been received well, but I will continue my rants, because I care about ISA members.

I believe there are others who also believe members should be a primary focus of ISA leadership.

Thanks for all your feedback and shared concern. I am working on how to be an observer to many of the “open meetings” that will be conducted using phone and/or computer interface. I will send to our section leaders when I get the connection info.

Here is a list of upcoming symposiums, for those interested in Division events:
- Analysis Division Symposium, Galveston, TX, April 14
- International Instrumentation Symposium, Cleveland, OH, May 13
- Communications Div Symposium, Washington, DC, May 21-23
- Power Division Symposium, Orlando, FL, June 2
- Water/Wastewater Division Symposium, Orlando, FL, Aug 6

As DVP, I am enabled to nominate the “Section Excellence”, and presently plan to nominate our LA Section, due to their great and successful show/training event with significant increase in show attendance, as well as a recent surge in new members. I am proud of all our sections, including Hawaii, (recently re-chartered) who has a small membership, but always interesting technical meetings and fantastic tours with great member attendance.

It is my great honor and privilege to serve as your District 11 Vice President.

-- Gary

HORIBA
Product Manager, Water Quality. Horiba Instruments, Inc., a major U.S. supplier of environmental and process gas and liquid monitoring instrumentation and systems in Irvine seeks a qualified Product Manager for its Water Quality product line. This individual manages sales network throughout North, Central and South America for water quality products to promote and increase sales and maintains an effective and efficient operation to support internal and external customers; develops sales support materials, training materials and conducts training as required; and other duties. Requires working knowledge of selling and marketing technical products; bachelor’s degree in chemistry or other water/environmental related discipline; strong problem solving and analytical skills; verbal and written communication skills; good computer skills and customer satisfaction skills. Supervisory experience preferred. Full benefit package of benefits including medical, dental, vision, vacation, 401(k). Email resume to Horiba.Jobs@horiba.com. EOE

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- **E-INSTRUMENTS INTERNATIONAL**
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  - Hexcam
    - Solid State H, specific sensors for process analysis and ambient monitoring
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  - On-line distillation analyzer
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  - Sample conditioning components for continuous, on-line process gas analyzers and CEMS

### Liquid Instruments
- **AQUAMETRIX by WATER ANALYTICS**
  - PH/Conductivity/ORP/Dissolved Oxygen
- **ENTECH DESIGN, INC.**
  - Sludge Level and Effluent Turbidity Analyzers and Filter Backwash Expansion Analyzers
- **GREYLINE INSTRUMENTS, INC.**
  - Non-Contacting Ultrasonic Level and Flow/Doppler and Transit Time Flow Meters
- **HF SCIENTIFIC, INC.**
  - Process On-line and laboratory: Turbidity/Residual Chlorine/Streaming Current
- **INSITE**
  - Dissolved Oxygen/Suspended Solids
- **KAYDEN INSTRUMENTS**
  - Thermal Dow, level, temperature and interface switches/Radar level/Ultrasonic level
- **K-PATENTS**
  - On-line Process Refractometer for liquid measurements of concentration, liquid density, Refractive Index and First...
- **NASEC**
  - North American Science and Engineering Company (formerly BRB)
  - On-line laser based water particle counting system
- **siscan**
  - Streaming Systems LLC
  - Process On-line Optical Sensors

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