

READ-OUT

BATON ROUGE SECTION

**ISA—The Instrumentation, Systems,
and Automation Society**



Simple ESD Valves for SIL 2 and SIL 3

By: Dr. Laurence Beckmen
and Larry Lengyel
SafePlex Systems

**Thursday, March 17th, 2005
11:30 - 12:30 pm
Holiday Inn, Gonzales**

**Cost: \$12 if you RSVP by Noon Monday
March 14th or \$15 at the door**

**RSVP To: isareservations@hotmail.com
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READ-OUT
March, 2005
VOLUME 19
NUMBER 7

IN THIS ISSUE...
Society & Section Information, Board listing,
Announcements, Calendar of Events

March 2005

President's Corner

I would like to thank the Baton Rouge Section of ISA for its overwhelming support at the past monthly meetings. Attendance has consistently been up and the topics have been great. This month's topic will be Simple ESD Valves - For SIL 2 and SIL 3 by Dr. Laurence Beckmen, and Larry Lengyel of Safeplex Systems. The meeting will be on Thursday, March 17 at the Holiday Inn in Gonzales. Registration details are inside. We are also looking forward to our April meeting which will be held in Baton Rouge at the Shaw Group. The section leadership would like to extend thanks to the Shaw Group for hosting this meeting.

We are also looking forward to presenting scholarships to students from LSU, Southern University, ITI and BRCC later this spring. In May, Dr. Corripio will present Engineering Ethics at our dinner meeting on May 12. More details to come.

We have received requests regarding updating contact info for receiving the newsletter. The Baton Rouge Section receives information for the Baton Rouge ISA membership from your membership profile on file with ISA in Nationals. Enclosed in the newsletter is information on how to make the update.

Looking forward to seeing you all at this month's meeting!

Sincerely,
Melissa Dotson

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Announcements:

Lafayette ISA Expo

Don't miss the Lafayette Section ISA Expo on March 15th. See page 8 for full details!

APPLICATION DEADLINE FOR ISA CERTIFICATION EXAMS IN JULY

3 June 2005 is the application deadline for the 16 July public test offering of the Certified Automation Professional (CAP), Certified Control Systems Technician (CCST), and Certified Industrial Maintenance Mechanic (CIMM). For a complete listing of exam dates and locations, see: http://www.isa.org/Template.cfm?Section=Certification&Template=/Content/ContentGroups/MultiUse/exam_schedule.htm

YOUR MEMBER PROFILE

YOUR MEMBER PROFILE: Please be sure to update your member profile on the ISA Web site. The Member profile database at ISA headquarters is where the local section gets its contact information. So help us help you by staying accessible.

To edit your Member profile information you must be logged in to the ISA network at www.isa.org. Once logged in, navigate to the MEMBERS & LEADERS tab, select MY ISA, and then choose UPDATE MY RECORD.

**Professional Development Hours:
 Continuing Education Requirements for Registered Professional Engineers**

As of January 1, 1999, the State of Louisiana began requiring Licensed Professional Engineers to participate in a continuing education process as a condition for registration renewal. During each biennial registration renewal period, every engineer registrant, including those registered in two or more disciplines, is required to obtain 30 Professional Development Hours (PDH's) in engineering related activities. The local section can help. Many of our section meetings qualify toward this requirement.

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Sample Certification Questions

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Certified Automation Professional (Question from CAP Domain VI – Operations and Maintenance)

One of your training objectives is to teach the operator to successfully react to a process upset. The MOST effective method to achieve that goal is to:

- A. Review the control system logic with the operator.
- B. Provide a copy of the standard operating procedure manual.
- C. Provide a hands-on session in a virtual plant environment.
- D. Review the system alarm list.

Answer C. Provide a hands-on session in a virtual plant environment. Providing a hands-on session in a virtual plant environment is the ideal method. Hand-on sessions will demonstrate to the operator what they might see during normal conditions as well as during upset conditions. Reviewing the control system logic with the operator would be useful if the operators have a technical background and understand logic. However, this may not be the case. Standard Operating Procedures do not familiarize the operator with the control system interface to the point that he/she will be able to recognize problems. Reviewing the system alarm list is also not a solution. The alarm list tells the operator what is wrong; however, one problem can raise a number of individual alarms. An operator needs to understand how to correlate multiple alarms to quickly identify the cause.

Reference: Blevins, et al. *Advanced Control Unleashed: Plant Performance Management for Optimum Benefit*. ISA, 2003.

Certified Control Systems Technician (Question from Level I, Domain III– Troubleshooting)

One of the most important considerations of the installation of an electromagnetic flowmeter is:

- A. the Reynolds Number of the fluid
- B. the use of a straightening vane
- C. bonding the flowmeter to the piping
- D. observing the correct polarity

Answer C. bonding the flowmeter to the piping
 The principle behind magnetic flowmeters is Faraday's Law. When a conductor (the fluid in the pipe) moves at right angles to a magnetic field, a voltage difference is induced in the conductor that is proportional to the conductor's velocity. Bonding is the electrical connection of the piping system, which includes the flowmeter electronics, to keep them at their designed potential. If proper bonding does not happen, stray voltage in the fluid can affect and alter the measurement by causing a current to take an incorrect path to ground or elsewhere. Bonding helps prevent this.

Questions Continued on Next Page....

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Sample Certification Questions (Cont.)

Certified Industrial Maintenance Mechanic (Question from Domain II – Preventive and Predictive Maintenance)

The main purpose of a water column on a steam boiler is to:

- A. Be able to blow down the gauge glass.
- B. Reduce turbulence in the gauge glass.
- C. Provide a mounting location for high and low alarms.
- D. Provide a mounting location for a gauge glass.

Answer **B**. Reduce turbulence in the gauge glass.

The gauge glass on a boiler is used as a visual display of water level in the boiler drum. The graduated gauge is mounted to a parallel column of boiler water, which is a much larger diameter than the gauge glass. As the water level in the boiler rises and falls, the water level in the water column and the gauging glass rise and fall together. Turbulence inside the boiler is dampened in the water column, so that an accurate water level can be determined on the gauge glass.

Reference: Steingress. *High Pressure Boilers*. Homewood, IL. American Technical Publishing, 1994.

Is Mentoring for You?

By Ellen Fussell

If you think shaping the future of your industry is important, you might be interested in being an ISA mentor for students and young professionals – giving them access to the wisdom and expertise of seasoned ISA members. If you’re a student who needs advice, you might be interested in getting an ISA mentor to help you figure out the direction you’re taking in your career — if a career in instrumentation, systems, and automation is right for you.

An Ohio State University study reported professionals with mentor relationships developed skills that made them 68% more marketable than colleagues who did not benefit from a mentor relationship. So far, about 70 different ISA Members have served as a Mentor at one time or another in the ISA Mentoring Program. Many, once they’ve had the mentoring experience, continue into the next year.

“The most important aspect of mentoring is being able to speak candidly with someone without worrying about whether or not the person is being honest,” said ISA Member James Haw, IEA Engineering Superintendent with Lyondell-Citgo Refinery in Houston. “You get an unbiased opinion — like being able to conduct your own confidential survey. The students I mentor hear the truth, not what I think they need to hear,” he said. Haw’s biggest motive is to be successful by offering his experienced opinions. “The person being mentored knows this and is able to build trust with the mentor faster than they would with someone they are close to in their normal life, like a spouse, co-worker, or boss,” he said. “Mentors offer their opinions, and the person feels free to take their advice or leave it.”

Continued on Next Page....

READ-OUT is the newsletter of ISA Baton Rouge Section and is published 9 times a year. Business card ads by sponsors are \$150 per year, double ads are \$275. If you are interested in an ad, have an announcement, comment, question or suggestion; please contact us. **Deadline for ads, articles, etc. is noon on the last Friday of the month! Please provide the information to the editor by email to william.christopher@shell.com**

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Is Mentoring for You? (Cont. from Page 5)

Senior Member John Stevens, an I&C resident engineer at Bechtel Aberdeen, finds mentoring a valuable experience because he can share his technical knowledge with students. "I try to stick strictly to the questions asked; if the question is specific, I give a specific answer. If it's more general, I may take a few liberties with my answer," Stevens said. "My answers are based on knowledge and experience attained in over 25 years of instrumentation and controls. The one point I will stress to students is instrumentation is not all computers and programming," he said. "Computers, PLCs, and control systems do not run the plants without instrumentation properly selected, installed, and commissioned."

Senior Member Al Pawlowski said his interaction with students in the Civil Environmental Engineering department of Louisiana State University allows him to give I&C technical advice to research projects. He also gives guest I&C lectures in some of the university's lab classes.

Harold Wade, a Senior Life Member and ISA instructor, has maintained his contact with a graduate student from China at Texas A&M University. "We had an interesting conversation about his PhD studies, and I told him about fieldbus. He was unaware of that," Wade said. "Since Texas A&M is only about an hour's drive from our home, we had him down for dinner." Although Wade said he wasn't sure how much technical mentoring he could do, he thinks it's still important to "provide friendship and support for someone who is far from home."

But sharing technical expertise isn't the only way to make a difference in students' careers through mentoring. Haw said he's mentored troubled teens through local schools, and professionals at the college level and above, and he's developed great friendships along the way. And while he's never seen or spoken to one Indian student he mentored through four years of college and one year of graduate studies, he does correspond through e-mail once a month. "What's most rewarding is hearing that he's going through what we've all gone through – life," Haw said. "And being able to feel as though he has benefited from my experiences, mistakes, and successes is a great feeling."

Are you a mentor? Do you need a career mentor? Go to www.isa.org. Select Educators & Students>Mentoring from the left navigation bar. The ISA Mentoring program is a members-only benefit for Student Members and young professionals just getting started.

Choosing the Right Mentor for You

Having someone help guide your professional development will give you an edge over students who might not have such a guide. You'll be able to absorb critical business experience you don't have yet and help you develop a big-picture perspective.

Here are a few questions you might ask when selecting a mentor:

- Does this person have a direct understanding of my work and my stage in life?
- Is this person senior to me in work experience?
- Is this person willing to be my mentor?
- Do I respect this person and want to be more like him or her?
- Does this person inspire me to do my best?
- Is this person trustworthy?
- Is this person genuinely interested in me — or looking for something in return?
- Does this person see potential in me and encourage its development?

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Upcoming Calendar of Events...

| | |
|--|---|
| March 17th 11:30am - 12:30pm | Topic: Simple ESD Valves - For SIL 2 and SIL 3 Location: Holiday Inn, Gonzales |
| April 21st 11:30am - 12:30pm | Topic: Advances in Natural Gas Sampling Technology Location: Holiday Inn, Gonzales |
| May 12th 6:30pm - 8:30pm | Topic: Engineering Ethics Location: Drusilla Seafood Restaurant, Baton Rouge |
| | |

The Lafayette Section of the Instrumentation Systems and Automation Society is pleased to announce

EXPO 2005
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Mr. Jon Unwin, Maintenance & Integrity Manager
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