

READ-OUT

BATON ROUGE SECTION

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



Non-intrusive Intelligent Electric Actuators

By: John Singleton of Wilson Valve Specialties

Thursday, November 18th, 2004

11:30 - 12:30 pm

**Burden Center of LSU Rural Life Museum,
Baton Rouge**

(see map and directions on page 5)

**Cost: \$12 if you RSVP by Noon Tuesday Nov
16th or \$15 at the door**

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READ-OUT
November, 2004
VOLUME 19
NUMBER 3

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

November 2004

President's Corner

This month I would like to highlight the certification programs provided by ISA. They are CAP, CCST, and CIMM. The CCST, or Certified Control Systems Technician program is designed for automation + control technicians and managers looking to document skills and experience. The CAP, or Certified Automation Professional program is for those responsible for the direction, design, and deployment of systems and equipment for manufacturing and control systems. The CIMM, or Certified Industrial Maintenance Mechanic Program is available for those responsible for preventive, predictive, and corrective maintenance. These multi-skilled individuals have expertise that is primarily mechanical in nature as opposed to instrumentation or electrical. ISA also supports the CSE license (A specialized Professional Engineering (PE) license recognized in the US) for engineers in automation + control. More information on these programs is available at www.isa.org/certify. These programs all provide additional certification credentials recognized throughout the automation field. Each month the Newsletter will include sample questions from the study guides for these new programs. Please see the end of the newsletter for these sample questions.

Our Programs Chair/VP, Ed Legenski, has developed a diverse group of topics for the coming year. Thanks in advance for those that have agreed to present topics at our monthly meetings. This year we will continue to alternate between the Burden Center in Baton Rouge and the Holiday Inn in Gonzales for our monthly meetings. If you have any ideas for alternative locations or suggestions for improvement please do not hesitate to contact me. I am looking forward to seeing you all at our November monthly meeting on the 18th at the Burden Center in Baton Rouge.

Sincerely,
Melissa Dotson

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Announcements:

The list of section officers and their contact information has been moved to page 7.

The Baton Rouge chapter of AIChE is having a Pump Seminar on Friday Nov 12th good for 7 PDH credits. For full details see page 5 or visit them at

www.che.lsu.edu/braiche/Pump_Seminar.htm

The announcements section of the READ-OUT can be used by any newsletter sponsor free of charge! If you have a new product line, sales representative, looking to hire a new sales representative, etc., you can place a short announcement here. ISA members can also place an announcement free of charge so if you have something to share just let us know. To place your announcement, simply contact the newsletter editor listed on page 7.

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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Certification Program Sample Questions:

Certified Automation Professional (Question from CAP Domain III - System Design)

To minimize electrical interference when AC power and DC signal wiring meet in a control panel, it is BEST to:

- A. Use a different size wire.
- B. Cross the wires at 90 degrees.
- C. Run the wires parallel to each other.
- D. Twist the AC wires around the DC wires.

Answer: B

Crossing the wires at 90 degrees will minimize the exposure of the wire to each other and therefore minimize the effects of interface. Using a different size wire will have no effect on the electrical interference. Running the wires parallel to each other will increase the exposure of the wires to each other and increase the effects of interference. Twisting the AC wires around the DC wires will also increase the effects of interference.

Certified Control Systems Technician (Question from Level I, Domain II - Loop Checking)

A typical process control loop component would be which of the following?

- A. Sensor
- B. Controller
- C. Final control device
- D. All of the above

Answer: D

The parts of a control system include the process, the sensor, the transmitter, the controller, and the final control element. The answer to question is D.

Certified Industrial Maintenance Mechanic (Question from Domain I - Maintenance Practices)

Troubleshooting in a classified hazardous location where the work may be a source of ignition involves the use of a:

- A. Hot work permit.
- B. Special nonflammable suit.
- C. Low-voltage multimeter.
- D. Second maintenance technician.

Answer: A

Mechanics must take special care when utilizing tools or test equipment in a classified hazardous area. All tools must be properly rated for the environment in which they will be used to prevent the chance of causing a fire or explosion. A hot work permit confirms that hazardous materials have been removed and ensures that test equipment will not present a hazard.

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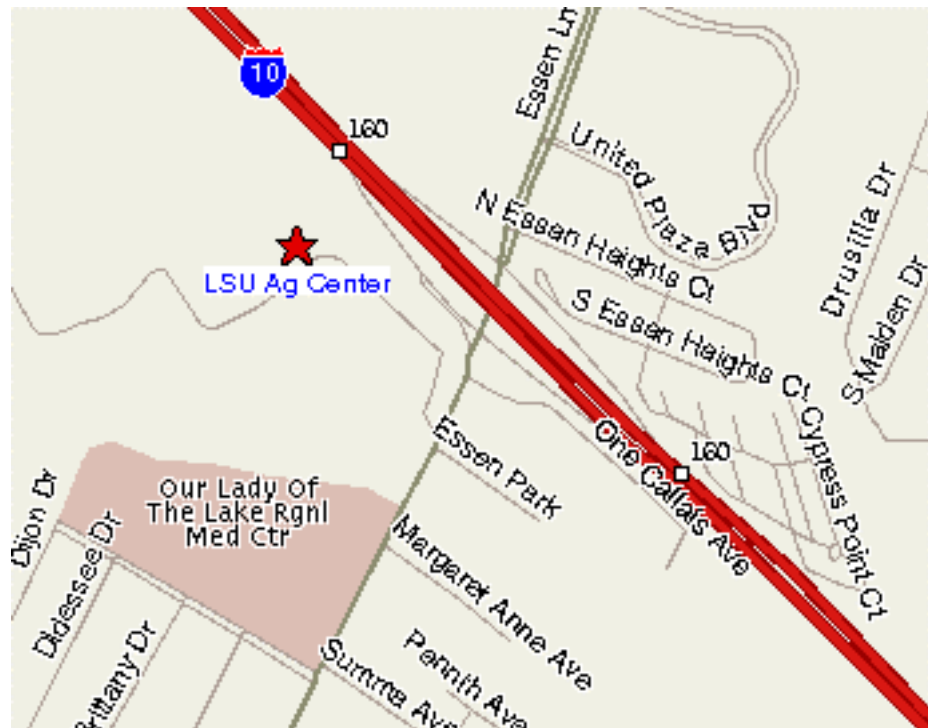
Ione E. Burden Conference Center at The LSU Rural Life Museum

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The LSU Ag (Rural Life) Center is the first right turn that can be made when traveling from I-10 towards the OLOL Hospital.

The Burden Center is the first building on the right after entering the LSU Ag Center (Rural Life) property.



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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SEEKING CANDIDATES FOR 2005 SOCIETY HONORS & AWARDS

The ISA Honors & Awards Committee is dedicated to recognizing individual and group endeavors to advance the instrumentation, systems, and automation profession and the Society at large. The 2005 Honors & Awards Committee is seeking your help to identify deserving individuals who have made outstanding technical contributions or provided long and dedicated service to the Society.

The 2005 award presentations will be made during the Annual ISA Honors & Awards Program, a prestigious black tie dinner, which will be held in conjunction with ISA EXPO 2005 in Chicago, Illinois, USA.

Nominations must be submitted on the appropriate forms. A summary of nomination requirements, deadlines and nomination forms is available on the ISA Network. Login at www.isa.org and follow the left navigation bar: Members & Leaders > Honors & Awards. In the submenus, you will find details about each award and appropriate nomination forms.

Please note the following important submission dates:

- 31 January 2005 - Early deadline. Nominations submitted by this date require basic candidate information only. ISA Staff will request detailed biographical material directly from the candidate.
- 15 March 2005 - Final deadline for all nominations except Section Performance Award. Nominations submitted after January 31 must include basic candidate information AND detailed biographical material for the candidate.
- 1 June 2005 - Deadline for Section Performance Award. Score-sheets must be submitted by this date.

Questions? Call for more information. Debbie Eby - deby@isa.org. (919) 990-9241.

CALL FOR 2005 FELLOW NOMINATIONS

Fellow is the highest grade of membership within ISA. Becoming a candidate for ISA Fellow takes planning, effort and cooperation. First, however, to get past a qualifying requirement, candidates must be Senior Members and must have been an ISA Member for five years prior to being recognized as a Fellow. In 2005, the qualifying date is 24 October, the day of the Honors & Awards Program in Chicago, where those elected will be recognized and receive a plaque and pin. Election to this prestigious grade is based on significant engineering or scientific achievements within industry and recognition of those achievements by peers. It is an honor to be accepted as a Fellow and adds another accolade to a sterling career.

To be considered for this grade of membership, another ISA member must nominate a candidate and oversee the completion of the necessary paperwork. While self-nominations are not allowed, the candidate will work closely with the nominator to provide the required background information.

Visit the ISA Network at www.isa.org for more information and forms. Here is the path: From the left navigation bar, select Members & Leaders > Honors & Awards > Fellow Grade. Full candidate information is due 15 March 2005 to the ISA Admissions Committee. You are encouraged to be a nominator for a deserving candidate.

If you need assistance identifying a nominator for yourself, please contact your local Section or Division Honors & Awards Chair. General questions about the process may be directed to Laura Crumpler at ISA: (919) 990-9232 or lcrumpler@isa.org.

ISA Baton Rouge Section Officers & Chairpersons 2004-2005

President	Melissa Dotson Shell Chemicals	Phone: 225-201-6480 Fax: 225-201-	e-mail: melissa.dotson@shell.com
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Arrangements & Honors & Awards	Position open. If interested, contact Melissa Dotson		
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Baton Rouge Section Web Site	www.isa.org/~bator/		

Upcoming Calendar of Events...

November 18th 11:30am - 12:30pm	Topic: Non-intrusive Intelligent Electric Actuators Location: LSU Burden Center, Baton Rouge
December 16th 11:30am - 12:30pm	Topic: A Better Understanding of Temperature Sensors Location: Holiday Inn, Gonzales
January 20th 11:30am - 12:30pm	Topic: Advances in Water Treatment Analyzer Technology Location: LSU Burden Center, Baton Rouge
January 25-27th, 2005	60th Annual Instrumentation Symposium for the Process Industry See Page 8 for full details....

60th Annual Instrumentation Symposium for the Process Industries



**January 25-27, 2005
Texas A&M University
College Station, Texas USA**

The Texas A&M University Department of Chemical Engineering is pleased to announce the 60th Annual Instrumentation Symposium for the Process Industries. This three day educational event focuses on new technologies and trends in instrumentation and process control that can improve facility performance in areas such as safety, reliability, maintainability and cost performance. The format includes presentations, workshops, roundtable discussions and exhibits hosted and presented by end user, contractor and supplier leaders in the process industries.

The symposium includes:

- Welcome Session and Keynote Speaker
- Presentations (paper and panel) on topics related to upstream and downstream emerging technologies
- Workshops on Safety Instrumented Systems, Foundation Fieldbus, Best Practices, and more
- Engineering Ethics Roundtable - fulfill PE ethics requirement
- Exhibits
- Social event

Who Should Attend:

- Project Engineers and Managers
- Control System Engineers
- Instrument Engineers and Designers
- Safety Engineers
- Inspectors
- Maintenance & Reliability Technicians and Supervisors

Registration Fees:

	Before Dec. 3	After Dec. 3
Full Registration:	\$90.00	\$100.00
One Day Registration:	\$65.00	

For Further Information:

For information on registration, exhibits, housing, or symposium program, visit: <http://instrumentation-symposium.tamu.edu> or contact the Symposium Coordinator, Mary Cass at: mary-cass@tamu.edu, 979-458-1863, Fax 979-458-0422.

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