

READ-OUT

BATON ROUGE SECTION

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



Methods & Instruments for Detecting Oil in Water

By: Karen Morton, P.E.
Albert-Garaudy & Associates Eng.

Thursday, February 17th, 2005

11:30 - 12:30 pm

Holiday Inn, Gonzales

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

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or (225) 201-6480**

READ-OUT
February, 2005
VOLUME 19
NUMBER 6

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

President's Corner

I would like to thank the section for its overwhelming support of the January monthly meeting. We had over 60 participants in attendance. We are looking forward to this month's meeting. This month's speaker will be Karen Morton with the topic of, "Methods and Instruments for Detecting Oil in Water." The meeting will begin at 11:30AM at the Holiday Inn in Gonzales. Reservation information can be found within the newsletter.

One of the Section's goals this year is to have increased participation in our monthly meetings. We would also like to recruit new members to our Board to get fresh ideas and leadership. This time of year we are all setting personal and professional goals for ourselves. Here are a couple tips to help when developing your 2005 goals:

- Identify your goal by writing it down
- Set a deadline for the achievement. Put a date on it.
- List the obstacles to overcome in accomplishing your goal.
- Identify the people and groups you need to work with to reach your goal.
- List the skills and knowledge required reaching your goal. What do you need to know?
- Develop a plan of action to reach your goal.
- Write down the benefits of achieving your goal. ("What is in it for me?")

Throughout the year re-visit your goals and evaluate your progress. For those that would like to become more involved in a professional organization, becoming a leader in the Baton Rouge section is an excellent start. You will develop leadership skills that will help you in the workplace as well.

2005 is off to a great start. We are looking forward to programming and future activities this Spring. If you would like to become more involved, you can contact me at Melissa.Dotson@shell.com

Sincerely,
Melissa Dotson

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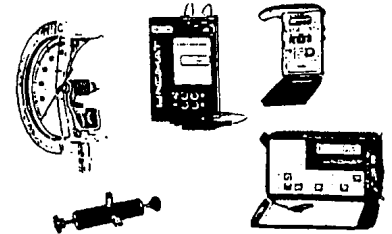
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Announcements:

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

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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Certified Automation Professional (Question from CAP Domain II – Definition)
What is the recommended limitation in meters for the length of a "fast Ethernet" (100 mbs) segment on twisted pair cable?

- A. 10
- B. 100
- C. 300
- D. 350

Answer: B. 100. Because of the high speed of "fast Ethernet," the use of twisted pair cable is limited to 100 meters (330 feet). 10 meters would limit installations unnecessarily. 300 meters and 350 meters would exceed recommendations substantially, which could potentially cause signal errors.

Reference: Berge. *Fieldbuses for Process Control: Engineering, Operation, and Maintenance*. ISA, 2001.

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

Which of the following will have the highest pressure difference between the surface and 6 inches below the surface?

- A. a 12-in-vertical straw filled with water
- B. a 10-ft-diameter open tank filled with water
- C. a 5-ft-diameter vertical pipe filled with water
- D. none of the above, because the pressure difference in each is the same

Answer: D. none of the above, because the pressure difference in each is the same. It doesn't matter the size of the container, its configuration, or from what that container is constructed. It does matter how far below the surface the measurement is taken, and it does matter the density of that material. In this question, in all three cases the distance is 6 inches and the fluid is the same, and therefore, the density is the same. Thus, the pressure is the same.

Certified Industrial Maintenance Mechanic (Question from Domain III – Troubleshooting and Analysis)

What instrument is used to check the quality of an electric motor's insulation resistance?

- A. A megohmmeter
- B. A multimeter
- C. A volt-ohmmeter
- D. A light meter

Answer: A. A megohmmeter. The megohmmeter is a specialized type of ohmmeter designed to measure three properties of motor electrical insulation: resistance of each winding, resistance from each winding into ground, and resistance from winding to winding. A high electric potential is applied to the test points to test the dielectric strength of the insulation. The resistance of each winding should read very low on the ohms scale, while the resistance between windings and from each winding to ground should read very high on the meg ohm scale.

Reference: Mostia. *Troubleshooting: A Technician's Guide*. ISA, 2000.

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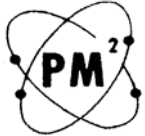
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Standards News -- SP99 ISA's SP99 committee on control system security met this October in Houston, and "a bunch of things happened," said committee chairman Bryan Singer, senior business consultant Rockwell Automation. "We laid out the plan for the first four parts of the standard. We have good architecture and direction for the standard and schedule of completion on different parts." Singer said since the committee has already published guidance and continues to do that, ISA Members from the process industry and critical infrastructure can potentially reduce risk of security incidents on their manufacturing floors. Depending on how the voting goes, Part 1 will come out at the end of next year and Part 2 shortly after that. "Part 1 is our stake in the ground of models, definitions, and terminology to consolidate the confusing terms in the industry," Singer said. "It'll be the basis for the rest of the standard. Singer said the first draft of Part 1 was coming out now.

The committee also announced another effort to start up Part 2, which will be "the meat of tested aspects of creating a security program," Singer said. "We're going through all the steps of the risk and vulnerability analysis -- from assembling your business team to actually adopting security measures and getting a whole handle on your manufacturing systems security environment." There'll be a draft of that in the next few months.

The SP99 committee is looking at Parts 3 and 4 starting in the next couple of years or within the next year, Singer said. "The idea is by the time we're done with Parts 1 and 2, we'll have established a common definition base for consistent terminology in the industry and a standard that lays out the recommended practices and procedures for establishing a program to secure the manufacturing and controls environment," he said.

Some other good things that happened were completing the first public vote on Part 1 in the first quarter of next year -- Part 2 in June time frame. While that is subject to change, Singer said, "we also had groups we're working with, DHS, Idaho National Engineering and Environmental Laboratory, Sandia National Labs, and other international standards bodies through ISO and IEC to continue development of our work."

More on ISA SP99 The ISA-SP99 Committee addresses manufacturing and control systems whose compromise could result in endangerment of public or employee safety, loss of public confidence or confidential information, and the violation of regulatory requirements.

The concept of manufacturing and control systems electronic security encompasses all types of plants, facilities, and systems in all industries. Manufacturing and control systems include hardware and software systems such as DCS, PLC, SCADA, networked electronic sensing, and monitoring and diagnostic systems; associated internal, human, network, or machine interfaces used to provide control, safety, and manufacturing operations functionality to continuous, batch, discrete, and other processes. Find ISA-published documents from the Committee's work at www.isa.org/isatr9900012004 and www.isa.org/isatr9900022004.

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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How Does CAP Compare to the PE License?

The Control Systems Engineer (CSE) Professional Engineer license ISA supports is a valuable and legal license to practice as a professional engineer (PE). State boards of engineering issue the license. Some engineering jobs require a PE license, like CSE, to sign off on certain documents and perform other engineering activities. The Certified Automation Professional (CAP) program, or any other certification program, is not a legal license to practice engineering.

CAP is an international certification program designed to assess knowledge and skills in the broad realm of automation. Control systems is a significant part of automation, but automation covers additional areas like HMI, MES, data communications, networks and information technology. The CSE license focuses on control systems, not automation as a whole, and is available only in the U.S.

Gerald Wilbanks, PE, Vice President of Documentation & Engineering Services, LLC, and a registered professional engineer, explained the distinct eligibility requirements for the CSE professional engineer license and ISA's CAP program.

"Before you can take the test for the Control Systems PE licensure, you have to have a rather high level of qualification to meet the requirements of the state boards. That usually means a degree in engineering," Wilbanks said. Candidates who qualify to take the CSE test include those with an academic background and a concentration in control system engineering. "Yet that represents a fairly small segment of the automation professional community."

The Bureau of Labor Statistics reports in 2002 more than 1.4 million engineers were in the country. By some estimates 15% to 25% of all engineers are licensed professional engineers. Quickly doing the numbers reveals only 220,000 to 370,000 engineers in the U.S. are licensed.

Requirements for qualifying to take the PE exam vary from state to state, but minimal requirements usually cover the widest range of state qualification standards:

- A four-year engineering degree from a school of engineering approved by the Accreditation Board of Engineering (ABET).
- Four years of professional engineering experience under the supervision of a PE or similarly qualified engineer.
- Proof of passing the Fundamentals of Engineering (FE) exam, otherwise known as the Engineering in Training (EIT) exam.
- Experienced references, some of which are from currently licensed PEs.

Wilbanks believes the exam's rigorous criteria is one reason the PE license isn't the only proper vehicle to govern automation practices. "Many people doing industrial automation aren't professional engineers, they're people with a wide variety of backgrounds," he said. "Some have migrated into automation having electrical, chemical, mechanical, or information systems education and experience. While the work they do is extremely important, there's not a requirement to seal and sign construction documents."

The CAP program has a more flexible qualification criteria. The program requires either five years experience in automation and a four-year technical /technology degree or ten years experience in automation for those without a four-year degree. "With the CAP program there is sort of a sliding scale," Wilbanks said. Depending on your level of formal training, "you have to meet certain experience requirements. So if you have a lot of formal education, you don't have to have as much experience." Ultimately the CAP program is opening doors for people in the field who wouldn't otherwise be recognized for their professional achievements

ISA Baton Rouge Section Officers & Chairpersons 2004-2005

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Baton Rouge Section Web Site	www.isa.org/~bator/		

Upcoming Calendar of Events...

February 17th 11:30am - 12:30pm	Topic: Methods & Instruments for Detecting Oil in Water Location: Holiday Inn, Gonzales
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 19th 6:30pm - 8:30pm	Topic: Engineering Ethics Location: Drusilla Seafood Restaurant, Baton Rouge

50th ISA Analysis Division Symposium

April 10, 2005 - April 14, 2005, 8:00 AM - 5:00 PM
Marriott Houston Hobby Airport - Houston, TX US

Join us this year at AD 2005, our 50th Symposium, to be held in Houston, TX, on April 10-14, 2005 at the Marriott Hotel Hobby Airport. We look forward to our best year ever as we celebrate the Golden Anniversary of AD Symposiums! This year's Symposium Chair Person is Dale Merriman.

For more information go to <http://www.isa.org/analysissymp>

51st International Instrumentation Symposium

May 09, 2005 - May 12, 2005

The 51st International Instrumentation Symposium in Knoxville Tennessee will provide an outstanding opportunity to gain valuable technical information and training in the traditional areas of measurements/sensors, instrumentation systems, data and advanced system/sensor technology as well as innovative papers in many other state of the art areas.

The symposium will include for the first time paper sessions and presentation sessions (without papers). Papers will be considered for publication in the ISA technical journal. Prospective authors are invited to submit papers and presentations.

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Goal Setting Builds Life Lessons, Careers By Ellen Fussell

When you think of career seminars for engineers and programmers, you usually don't think of life lessons and motivational speaking. But one ISA Member is combining his technical experience with his own life lessons and sharing them with others in the automation and control field. A chemical engineer who's been in the industry since 1991, working for companies such as ABB, Siemens and Westinghouse, ISA Member Raj Gavurla is now his own boss, specializing in motivational speaking, consulting, and business development. Integrity, imagination, involvement are some of the key characteristics Gavurla brings to his company LiiVEN, based in Atlanta. He has expertise in engineering, sales, project management, management, and speaking, which he shares with participants in seminars to help them discover how to energize and rejuvenate their jobs - and their lives.

"I talk about hospitality and how that really does work because initially many engineers when coming out of school are basically doing task-oriented type work, and to get to those higher positions they have to have to hold meetings and talk to people about business," Gavurla said. "Some people aren't interested in that, and that's fine, but even the most technical person in the world is going to have to increase their networking skills. So I talk about how even if you have a job, you should still be networking so you can understand what's happening in the industry. The employment landscape is going to change in the future, and the focus will be on having diversified goals. People need to learn how to achieve those goals and still maintain a balanced life."

Last month Gavurla spoke at the Layoff Lounge, a networking organization that organizes monthly events to allow those looking for a job or employers looking for people to network with each other. "Sometimes there's another program affiliated with it like mastering executive job change," Gavurla said. "Usually it's one program and it's usually a networking program." But it's "structured networking, not just a group of people going to a room and everybody's on their own," he said. November's session offered a resume review, a networking period, and one of Gavurla's lectures. It's kind of an all-encompassing training and closure, and entertainment and facilitation for them to set and achieve goals," he said.

Life Lessons Gavurla's methods aren't so much like a classroom setting, but an interactive exercise he hopes will be a "defining moment participants will replay in their mind and call on frequently to simplify what they want to get done," he said. "A lot of times we go to training events, and we're not there 100% -- even though we're there physically. Our minds aren't there." Gavurla said one thing that's different about his talk is that he's not just talking about how to get a job. He's talking about strategies, goal setting, and achievement. "In achieving goals, acceptance is an important ability. Everyday in life we have to be accepting. In the seminar I define acceptance." Another theme that doesn't seem to fit the technical seminar bill is finding your calling. "A lot of its common sense but I take it from a different approach," he said. "I talk about how to make time your ally. You don't need to spend hours reading a book."

"Goal setting is a process, and people need to think about goal setting and achievement from a different perspective to give them structure," he said. Of course, the main goal is to get a job. But it's not as simple as saying, 'get a job.' First of all it has to be the right job. Second, it has to meet the requirements for that particular person. Regardless of the time period, getting a job and the selection process is the same. So I encourage people to have diversified goals."

"While it doesn't seem to fit into the typical technical seminar realm, and the goal of living a balanced life is kind of cliché, the big theme is seeing goal setting and achievement as a process," he said. One way to reach your goal is through health and safety. "I talk about how that's the bottom line," he said. "Without that we're not going to achieve any goal."

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