



○ YEAR: 2008 | ○ ISSUE: 4



# ISA Baton Rouge *December*

Newsletter

## Wireless SCADA

By  
Stan Prutz, QDS Systems

December 18 , 2008  
Time: 11:30 pm—12:30 pm

Location:  
Holiday Inn Gonzales  
1500 HWY 30  
Gonzales, LA 70737

RSPV: [isareservations@hotmail.com](mailto:isareservations@hotmail.com)

## President's Message

Fellow ISA Baton Rouge Section Members & Guests:

I would like to personally thank Mr. Dennis Meyers for stepping in on late notice to deliver an excellent presentation on Coriolis Measurement and Best Practices for our November Meeting.. It is good to know that you have quality professionals, like Dennis, to count on in a pinch – THANKS MUCH Dennis!

I trust that you and your families had an enjoyable and BLESSED Thanksgiving Holiday. As we move into the Christmas Holiday Season, our minds filled with everything that must be done (before year end), it is sometimes difficult to remember to focus on what is really important. Don't lose sight of the fact that while work and career are important objectives, fellowship, family and remembering the 'life spirit' inside each of us are equally important (definitely more so for 'life spirit' part).

I hope and pray that your Christmas Season is filled with of joy and happiness with and for all of those that are most important to you.

Our monthly meeting for December 18<sup>th</sup> is – Wireless SCADA. The meeting will be held at Holiday Inn @ Gonzales. Stan Prutz of QDS Systems will lead the presentation. Please remember to RSVP via [ISAReservations@hotmail.com](mailto:ISAReservations@hotmail.com).

Remember to pay close attention to the newsletters for December, January and February. There will be important information regarding our Section activities for March, April, May and June. You may want to plan ahead for these activities.

Hoping you have a BLESSED Christmas Season!

Brent Haydell  
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## Upcoming ISA Events...

*TRIED OF WRITING CHECKS, PLEASE  
VISIT OUR NEW PAY ONLINE OPTION.  
Click on each event and get redirected to  
PAYPAL*

<http://www.isa.org/~bator/meeting.html>

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**ATTENTION MEMBERS!**  
Please see our new website  
<http://www.isa.org/~bator/index.html>

### 2008-2009 ISA Baton Rouge Calendar

December 18th

Wireless SCADA by Stan Prutz, QDS Systems - Holiday Inn, Gonzales

January 15th

Asset Management - Ralph & Kacoo's, Baton Rouge

February 19th

Concepts of FDT/DTM protocol - Holiday Inn, Gonzales

March 19th

FieldBus Technology Seminar (Full Day)  
Venue to be determined

April 16th

ISA BR/NO Expo 2009 - Lamar Dixon Expo Center

May 21st

Annual Section Banquet and Awards Dinner  
Ralph & Kacoo's on Bluebonnet

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November Presentation

December 2008

### Solar tubes have advantage over panels

A California company's sun-based electricity producing technology uses a novel thin film coating and does not use silicon. The company, Solyndra, is a startup with a pile of money in Fremont that has developed a novel type of solar panel that is cheaper to install and produces more power than conventional panels.

MIT's *Technology Review* reported unlike conventional solar panels, which are made of flat solar cells, the new panels comprise rows of cylindrical solar cells made of a thin film of semiconductor material. The material is made of copper, indium, gallium, and selenium. To make the cells, the company deposits the semiconductor material on a glass tube. That is then encapsulated within another glass tube with electrical connections that resemble those on fluorescent light bulbs.

The new shape allows the system to absorb more light over the course of a day than conventional solar panels do, and therefore generate more power. What is more, arrays of these tubes offer less wind resistance than conventional flat solar panels, which makes them easier and cheaper to mount on roofs.

The cylindrical solar-cell design has a number of advantages for generating solar power on the flat rooftops of big-box stores, warehouses, and other commercial buildings.

Ordinary flat solar panels can catch the wind, so one must bolt or weigh them down with ballast. Solyndra's panels consist of rows of cylindrical tubes with spaces between them that allow the wind to pass through, decreasing wind loads and making it unnecessary to bolt or weigh down the panels, even with winds up to 130 miles per hour.

The cylindrical design also allows the solar panels to absorb more light. Solar panels work best when light hits them directly, such as when the sun is directly overhead.

To get more power from solar panels, we mount them on tracking systems that keep each panel pointed at the sun all day. However, these tracking systems do not work in high winds, add cost, and take up space that other solar panels could occupy.

The cylindrical solar cells provide another way to increase the power from a solar panel. At any point in the day, some part of the curved surface is facing the sun more or less directly, and therefore absorbing a large share of that light.

The company said within a few years, it plans to produce solar systems that generate electricity competitive with the average cost of electricity in the U.S., which is 10 cents per kilowatt-hour.

This solar solution is Tubular man!

### 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 towards this requirements.*

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Sponsors

Dear Past ISA Baton Rouge Section Sponsors,

In the past, we have offered the following:
(we will still offer these items individually for those that want to write multiple checks throughout the year)

- Traditional ways to support the section:
Business Card placed in Newsletter and on website \$150
Shrimp Boil Tickets \$25/ea
One Day Technical Seminar Ticket \$120/ea

This year we are offering new ways to support the section through advertising your company and/or products and services:

- 1/4 page advertisement in the Monthly Newsletter \$100 each occurrence
1/2 page advertisement in the Monthly Newsletter \$200 each occurrence
Full page advertisement in the Monthly Newsletter \$300 each occurrence
Corporate Logo on Section Signage displayed at ALL section events \$150



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## Value Driven Automation

### Process Automation – Safety Instrumented Systems (SIS) - System Integration

AE Solutions specializes in the implementation of process automation systems. We are a comprehensive engineering resource for Basic Process Control Systems (BPCS). We also offer expertise in the execution of the Safety Life Cycle (SLC) and critical systems such as Safety Instrumented Systems (SIS), Fire & Gas Systems (FGS), Burner Management Systems (BMS). We have immediate openings for:

#### CONTROL SYSTEMS ENGINEER

Control Systems Engineer with at least 5 years of experience in Basic Process Control Systems (BPCS) specification, design, configuration and testing including field support, implementation and startup assistance. BS Engineering required. PE registration is a plus.

#### SENIOR DESIGNER

Control Systems Designer with at least 5 years of experience in design of automation systems including system architecture, control panel, field wiring, instrumentation installation and electrical systems. CAD design proficiency required.

#### PROCESS SAFETY SPECIALIST

Process Safety Specialists with at least 5 years of experience in the analysis, design, configuration, and testing of safety systems per ANSI/ISA 84.01, IEC 61508 and IEC 61511 including field support, implementation and startup assistance. BS Engineering required. PE registration and/or CFSE certification is a plus.

AE Solutions is a fast growing company with a need for automation talent and is willing to train extremely motivated professionals with control system and process safety experience toward becoming a Certified Functional Safety Expert (CFSE).

We offer a comprehensive benefit package including: medical, dental, and life insurances; a flexible work schedule, both company sponsored time off and optional purchased time off, and multiple bonus programs.

### READ-OUT

If you are interested in an ad for newsletter, 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 [aparna.subramanian@exxonmobil.com](mailto:aparna.subramanian@exxonmobil.com)**

Positions are currently available in our  
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