



**ISA MONTHLY MEETING,**  
**February 8, 2011**  
**Augusta, GA**

**Price :** \$5 for members-RSVP by Monday noon Feb, 7  
\$7 for non-members

**Time :** 6:15 pm - Registration  
6:30 pm - Dinner

**Place :** Americas Best Value Inn  
(I-20 - EXIT 199)  
3023 Washington Road  
Augusta

**Subject:** **Wireless Field Network Technology**

**Speaker :** **Larry Wolfe**  
**Director of Technology Deployment**  
**REM Services, Inc – Charlotte, NC**

**RSVP:** by sending email: **isaga@isaga.org**

**Wireless Field Network Technology**

**ABSTRACT:**

**An overview of the Emerson Wireless Mesh Field Network, along with a review of the available Emerson Wireless HART Devices, and a live demonstration showing the functionality of these systems will be presented.**

**Process information and process equipment diagnostics can be gathered easily using familiar sensing equipment. These field devices are powered by batteries which have life expectancies of 5 to 10 years in many applications. The networks are simple to install and manage and provide connectivity using familiar industry standards.**

**The presentation will be followed by Questions and Answers session.**

**PRESENTER:**

**Mr. Wolfe earned a BS in Aerospace Engineering in 1968 and an MS in Mechanical Engineering in 1974 from the University of Oklahoma. Between his times at University he served four years in the Air Force. He started his career in 1975 at Fiber Industries in Salisbury, NC. Larry has been with R. E. Mason Company since 1985.**

**Larry has worked with the integration of process control systems and field devices for most of his career. He has worked with Fieldbus Foundation host and device products from Emerson since their introduction in 1996, to help customers implement the benefits the systems provide and familiarize users with system and device capabilities.**

SAVANNAH RIVER SECTION



**CALENDAR**

- Aug 25: Kick off Meeting - AC Drives**
- Sept 21: Hybrid DCS Installation in Chemical Plant**
- Oct 19: Latest in Instrumentation**
- Oct 25: Golf Tournament & vendor interaction**
- Nov 9: Hydrogen Fuel Cell**
- Dec 14: Fire Alarm System & Computer Rooms**
- Jan 11: Safety Systems**
- Feb 8: Wireless– Emerson**
- Mar 8: PEN Show ,Presentations & Seminars**
- Apr19: Automation at Firestone Plant-tentative**
- May: Plant Tour**

**To all ISA Savannah River Section Members & Coastal Empire Section Members:**

Our **Product Education Night** is approaching very fast. Jim Mitchell has taken a big responsibility to make it a success. The entire board is committed to support this task to the best of their ability. The table reservation response this year is better than last year. We expect between 80 to 100 table top exhibits. At least \$1500 worth of door prizes will be given away. **Special prizes will be awarded to ISA members.** Please mark your calendar for March 8th at the Savannah Rapids Pavilion for Product Education Night. We have arranged two seminars in the conference rooms. Please note attachments for details

Our **Nov 9th monthly meeting** was on research topic. It was an ISA/IEEE joint meeting and 24 attendees participated. The Speaker, Dr. Hector Colon-Mercado of SRNL, explained the latest research in Hydrogen Fuel Cells. He explained by Hybrid circuits, how Hydrogen fuel cells be integrated with solar and regular power.

Our **Dec 14<sup>th</sup> monthly meeting** was on Fire Alarm System Architecture. 32 Attendees participated. John Lavigne, Engineering lead Instrumentation and Controls for Fire Protection design, SRNS, started from fundamentals to all the way to various code applications.

Our **Jan 11<sup>th</sup> monthly meeting** was on Safety Instrumented Systems-Overlooked Elements. It was an ISA/IEEE joint meeting and 19 attendees participated. Denise Chastain-Knight & Jim Lawrence of CH2MHILL explained, what is Functional Safety? Why use a SIS?, Functional Safety Lifecycle, Risk Identification and LOPA, Safety Requirements Specification and selecting the Design Tools. Component reliability, Failure modes, SIL requirements, Proof Test frequency and coverage, Architectural requirements and Redundancy, Installation, Validation, Operation & Maintenance were also addressed during the presentation.

Let me assure you again the benefits of your membership that will enrich you with latest knowledge, latest ISA standards information and professional advancement.

**SAVANNAH RIVER SECTION MEMBERSHIP STATUS**

- Members in good standing - 133
- Members on grace period - 12
- New Members - 1

**COASTAL EMPIRE SECTION MEMBERSHIP STATUS**

- Members in good standing - 35
- Members on grace period - 5

**Appeal to members on grace period**

**Please renew your membership to enrich your knowledge and career.**

**ISA DIVISIONS Appeal**

ISA members are encouraged to join at least one division in their industry. The list of various divisions is as following:

**Represent your technical industry.**

**Industries and Sciences**

**Divisions**

- Aerospace Industries Division
- Chemical and Petroleum Industries Division
- Construction and Design Division
- Food and Pharmaceutical Industries Division
- Mining and Metals Industries Division
- Power Industry Division
- \*Pulp and Paper Industry Division
- \*Textile Division
- Water and Wastewater Industries Division

**Declare your technical specialty.**

**Automation and Technology**

**Divisions**

- Analysis Division
- Automatic Control Systems Division
- Computer Technology Division
- Management Division
- Process Measurement and Control Division
- Robotics and Expert Systems Division
- Safety Division
- Telemetry and Communication Division
- Test Measurement Division

## ISA FUTURE CITY SPONSORSHIP

ISA Savannah River Section sponsored a Special Award for FUTURE CITY competition, in the “Best Automation / Computer Application Category”. The competition was part of National Engineer’s Week. Raj Patel served as special award judge on January 22, 2011.

The mission of the National Engineer’s Week Future City Competition is to provide a fun and creating educational engineering program for sixth-, seventh-, and eighth- grade students that combines a stimulating engineering challenge with “hands-on” application to present their vision of City Of the Future.

Competition required-

- Problem solving
- Team work
- Research and Presentation Skills
- Practical Math and Science Application
- Computer Skills

36 schools from the local area participated in the competition.

Kennedy Middle School was the winner of ISA’s Best Automation / Computer Application special award.

Name of the city was “Edenopolis”.

### **Narrative EDENOPOLIS, 2160**

In the year 2067 the world suffered a terrible war. Life was unbearable in many places, forcing them to evacuate. Many places became overcrowded forcing people to leave the safety of Earth and search for new beginnings on other planets. They left the solar system and approached an unknown galaxy housing 5 planets resembling planets of the Milky Way. They approached the planet that resembled Earth and found air, water, and mineral-rich meteors made of silver and diamonds. The crew settled colonies and named the planet Z-JEC.

Finally in the year 2150 the planet was settled. Every colony was Earth-like. The animals were like they were on Earth. Seasons, rivers, and seas looked like Earth. There was a disease though, caused by poison from a native spider, that made limbs fall off and created hearing loss in some victims. Our healthcare centers took care of it with their highly successful, high-tech programs and care units.

Edenopolis is a city founded by Americans on our planet, one of two. The heath district in the northeast houses the planets very best hospitals, including our many disease recovery centers. More to the center, there is the high-tech housing zone. Recreation and parks are where you will find many of our citizens after a hard day at work. In some of our beautiful parks, we have dome covered microalgae ponds housing hydrogen-producing algae. Trucks drive by to bring it to our more industrial side of town where it will be processed to a biodiesel.

Our industrial side of town is relatively clean. Most factories are powered by geothermal, wind, or solar power and plastic bottles and paper bags are all biodegradable by law. The soil is fit to grow almost any Earth crop and the river bottoms are silt rich. The meteors are a big source of materials for silver-infused medical beds and our heath centers’ tiny robots. Materials are mined from the masses of mineral treasures and brought to our factories to be processed into life saving materials. Our factories trucks depart to our commercial district where our citizens sell it to other citizens.

Our southeast commercial district houses our small shops and Solar-Malls. Solar-Malls are one-story buildings covered with solar panels or solar paint. The malls are really many locally owned small businesses in one large building. This solves many problems involving big business and gives many people the opportunity to build the business they wished they could on Earth but couldn’t. Our city will be enjoyed by anyone who values their education. Our schools are envied by other colonies of Z-JEC. The rising generation will be a very bright one and we will be finding even newer ways to do what we do now in our rising city of Edenopolis.



**Kennedy Middle School winners of ISA’s Best Automation / Computer Application special award with Judge Raj Patel**



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# INVITATION TO PRODUCT EDUCATION NIGHT

The 2011 PEN Show is your best chance to network with regional Managers, Engineers, Scientists, Designers, Consultants, and Operations/Maintenance personnel. This event is the largest product show in the area and caters to various professionals and industries, including:

## **Regional Suppliers & Manufacturers**

**Approx. 250 engineers representing Savannah River Site (i.e., SRR, SRNL, SRNS, etc.)**

**Chemical Plants, Paper manufactures, City & County Waste Treatment Plants**

**Engineering Contractors (e.g., Fluor, Parsons, Bechtel, Shah, Lockwood Greene, etc.)**

**Many Contracting Engineers & Consultants (e.g., Augusta Tech, Aiken Tech, etc.)**

In addition, the PEN Show is expected to attract ISA members from both South Carolina and Georgia, representing Atlanta, Augusta, Aiken, Statesboro, Savannah, Columbia, and including Charlotte, etc. (Ref: ISA Membership Roster.)

## **Benefits**

The Savannah Rapids Pavilion can accommodate up to 100 tables (i.e., 2.5 ft x 8.0 ft).

The Vendor displays will be recognized for best exhibition, best working models, etc.

Two Seminars with three hours of Continued Education Credits.

More than \$1500 door prizes with Special Prizes to ISA Members

Free Catered Food & Drinks for Engineers, Technicians and Attendees.

Big prizes to encourage attendees to visit all parts of the show (exhibitors are not eligible).

## **SEMINARS**

**4:30 PM -5:30 PM      Pumps & Motors , VFDs & control Integration**

### **SPEAKER**

Ken Fussel is a Graduate of Ga Tech with over 40 years experience in varied industries and recently retiring from Parsons. He is now providing consulting services and teaching. He is a PE in SC and GA. He has been a long time member of ISA and having been an officer in a Section also.

**6:00 PM -7:00 PM      MIMIC OPERATIONS & APPLICATIONS (TO BE CONFIRMED)**

### **SPEAKER**

TO BE CONFIRMED



# Savannah River Section

The International Society of Automation

*presents*

## Product Education Night 2011

We invite you to attend a FREE exhibit of the latest on Industrial Instrumentation and Controls. Over 50 exhibitors will be on hand to show their products and answer your questions.

**Mark your Calendar Now and Plan to Attend!**

**ADMISSION IS FREE!**

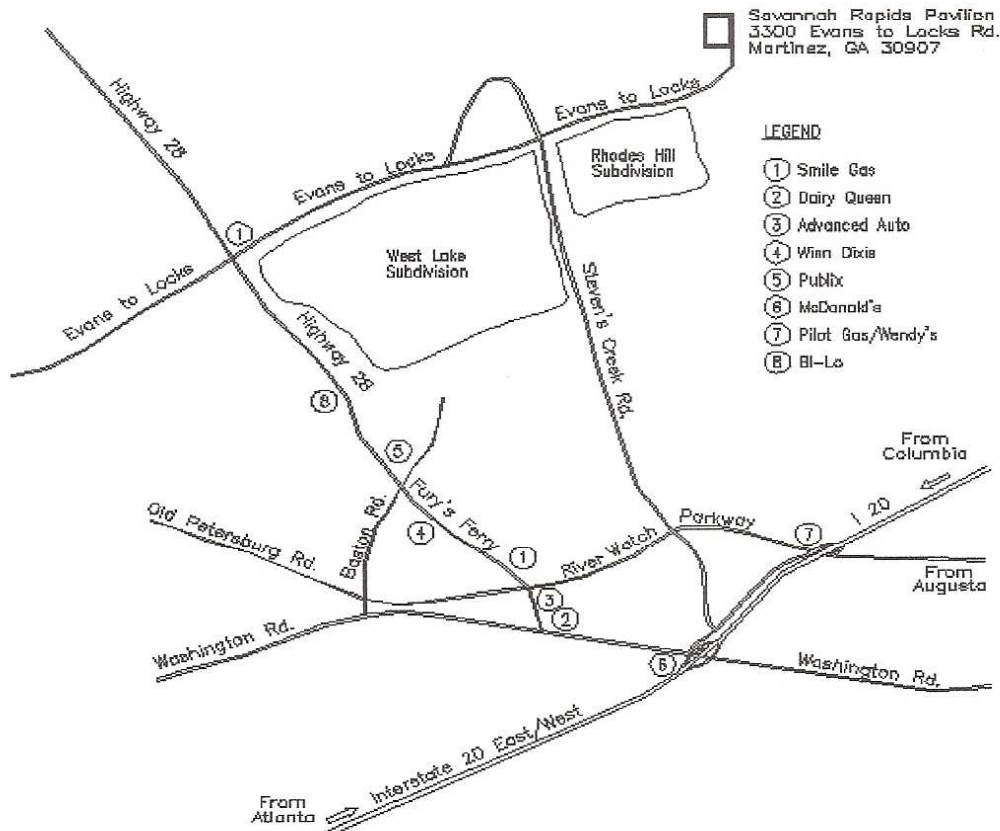
**\*\*\*\* At Least \$1500 in Door Prizes \*\*\*\***

Date: Tuesday, March 8, 2010

Time: 4:00 - 8:00 p.m.

Place: Savannah Rapids Pavilion  
3300 Evans to Locks Rd.  
Martinez, GA 30907

All information on PEN Show available at [www.isaga.org](http://www.isaga.org)



For additional information, contact Jim Mitchell, Product Education Night Chairperson at (803) 648-6931 ([isasection@gforcecable.com](mailto:isasection@gforcecable.com))