



Editor: Madanjit Singh



Title: A letter from the President

**Jim Merz
President
Savannah River Section**



Savannah River Section ISA Members:

After a quick 3 years as president of the Savannah River Section, it is time for a new face to take over leadership! It is with great pleasure that I announce Madanjit Singh as the incoming president beginning July 1. Madanjit is a life ISA member, and has been a great contributor over the past 6 yrs as a board member in our local section. Please give a congratulatory pat on the back to Madanjit next time you see him!

Looking back over the past 3 years, I think its safe to say we have done some positive work with our section! Each year seems to build off the previous, and as long as things stay in the positive direction, I see the Savannah River Section continuing to grow and evolve into a strong, productive section.

(Continued in the next column)

Title: A letter from the President (conti)

The greatest factors affecting the Section's success is solid leadership from the board and active participation from the members; with communication being the key between them. Some of our accomplishments that I am most proud of: Planning and organizing a full calendar of events and activities prior to the start of the year, revamping of the website, implementation of the PayPal system, the growth of our board with quality individuals, the monthly Newsletter, and the renewed focus on membership. The complete list of other wonderful things going on with our section is too long for this letter!

I wish the new board and president much success in the years to come and ask that you stay as active as possible with section activities and consider volunteering some of your time to this great organization.

With Warmest Regards,
Jim Merz

Savannah River Section Members:
Attached, you will find progress of 2007-2008 of all the activities, where the board has contributed to make this year, a successful and productive year. This was all possible due to your involvement , contribution and urge to learn more. We will try our best to bring to you the information regarding latest technology in the field of instrumentation , control system & automation.

On behalf of Board
Madjit Singh



SAVANNAH RIVER SECTION

SAVANNAH RIVER SECTION 2007-2008 CALENDAR:

- Sept: Kick off meeting. Honeywell wireless
- Oct: Control Room consolidation, Rich Izard, SRS
- Nov: Plant tour: DSM Chemicals
- Dec: Digital Buses: Control Southern
- Jan: Control Loop variability : Larry Hammett, international Paper
- Feb: Object Oriented Programming
- Mar: PEN Show
- Apr: Variable Frequency Drives

May: Designing Fieldbuses for Control System

Savannah River Section Membership Drive

Our section is taking part in National Membership Drive & we have active 203 members, 5 new members & 11 members on active grace. Jim Lawrence and our section board is making special effort for enrollment. If you help enrolling any new member, we will like to honor you.



Raymond Center, CEDT Vice President Economic Development Message

It is our pleasure to host an event of this quality on our campus, the partnership between education, business, industry and agencies like ISA provide us with

the ability to compete in the world market. In order to maintain our competitive edge in quality, productivity and responsiveness to our customer needs, it is essential that we continue to build on this relationship.

Augusta Technical College provides high quality, accessible and attendable workforce training to area businesses, individuals and organizations as our part in fulfilling this objective.

Savannah River Section Members:
Our May 16th, one day course was quite a success. The whole day session was attended by 40 engineers. The training course was supported by laptop based slides, lecture notes and demo equipment. The success of this training is due to an experienced lecturer, Augusta Technical College, and financial support of your local section.
The following are some of the membership pictures and messages for the training course:



Dan Daugherty of Emerson with 25 year experience



Jim Mitchell & Justin Weaver at the registration desk



Dan Daugherty with Board Members

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SAVANNAH RIVER SECTION

VARIABLE FREQUENCY DRIVES

The April 21st presentation on Variable Frequency Drives was very impressive and full of information. The session was jointly sponsored by ISA & IEEE. 31 engineers attended. Chris Carroll of Rockwell Automation started from fundamentals and carried the audience to deeper power quality issues. Chris was judged as the **most effective presenter** of this term. A number of attendees were lavished by door prizes.



Chris Carroll
Sr. Drives & Power
Area Manager,
Rockwell

LOOP CONTROL VARIABILITY

The January presentation was on Loop Control Variability.

. Savannah River Section monthly meeting was attended by 27 members; Mr. Larry Hammett, International Paper, discussed Control loop variability and its importance to the paper mill. He was honored by Jim Merz, President of the section on conclusion of Presentation

DSM CHEMICAL PLANT TOUR

Our November 13th DSM Chemicals Plant Tour was as popular as could be. Savannah River Section was allowed 28 members; 25 members attended with 3 additional members, who were plant Engineers. Mr. Harold Pitchford, Manager of Quality & training, gave a presentation of plant process and instrumentation, followed by presentation & tour of Control rooms. The unique feature of these control rooms are, SIL 3 based controls as well as pneumatic controls. The efficiency of plant, productivity and economics of final product makes the production good for export.

PRODUCT EDUCATION NIGHT SHOW

The March 11th PEN Show was a great success. There were 360 attendees including 120 vendors; 71 table tops, 51 plus distributors, manufacturers representatives and experts were the high light of the program. The exhibitions and the show was arranged at Savannah Rapid Pavilion.



Harry Kelly
Vice President,
R.E..Mason.

B.T. SORREL'S MEMORIAL SCHOLARSHIP GOLF TOURNAMENT

Despite light rain and cool temperatures, our Oct. 24th Golf Tournament was wonderfully successful! 27 sponsorships by manufacturers representatives and distributors were sold. 32 teams were represented by 124 folks ranging from plant engineers, managers, project engineers, maintenance technicians to distributor representatives, students, and teaching staff at Augusta Tech. A team of CH2MHill-Lockwood Greene engineers led by our Special Events coordinator, James Hyder, were instrumental in making it a great success. The goal of our scholarship fund for 2007-2008 has been reached, with a net of \$4,500. Our special thanks and gratitude for making it a success.

OBJECT ORIENTED PROGRAMMING

Savannah River Section February 12th meeting was attended by 25 members; Mr. **Patrick W. Hunter** Regional Manager, Wonderware SOUTHEAST discussed Object based programming and data management. The discussion was developed into history and evolution of IT systems and HMI's, and what engineers are facing today.

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SAVANNAH RIVER SECTION

• **Using DeltaV to Consolidate Control Room Operations at a Nuclear Waste Processing Facility**

The October 9 presentation was attended by 20+ engineers. Richard Izard, manager of process engineering at Washington Group Savannah River co., was the speaker. The following is the abstract of presentation: Controls equipment obsolescence, compounded by shrinking budgets & staffing plans, has finally necessitated a radical change in the command & control infrastructure for a nuclear waste processing facility at the US Department of Energy's Savannah River Site. Starting in 2004 with a retrofit-installation of a DeltaV for a single process area, SRS is now well underway with a multi-phase controls modernization & consolidation program spanning ten control rooms with instrumentation ranging from panel-mounted pneumatics to 1980's vintage DCSs. In its final configuration, the controls network will encompass over 8000 field points using conventional, DeviceNet, AS-i, Foundation Fieldbus, & serial/wireless I/O; permitting operational command & control from a single, centralized control room. This presentation will address the planning, phased scope, technical challenges/solutions, schedule & current status of the initiative. Learn how one company is achieving "control from chaos" with DeltaV.

• **Honeywell's ISA SP-100 Standard Industrial Wireless Solutions**

We had a fantastic "kick off" meeting on September 11th, with almost 50 people coming for the Honeywell presentation on Wireless Solutions, along with great food and prizes!! Honeywell and AC Controls Company Inc presented Honeywell's ISA SP-100 Standard Industrial Wireless Solutions to the ISA Savannah River Chapter and the IEEE August Chapter. Richard Miller & Dave Gunn of Honeywell and Mike Kerwin of AC Controls were speakers.

Honeywell's wireless offerings include: **XYR 6000** and **XYR 5000 Wireless Transmitters** enable automated monitoring in areas where hard-wired transmitters are too costly, difficult or time-consuming to implement.

IntelaTrac PKS automates field data collection, integrating field data and asset management functions with control room operations.

Mobile Station provides access to control system information to remote users where and when needed.

Honeywell OneWireless solutions is a universal mesh network that supports multiple wireless-enabled applications

and devices within a single environment. OneWireless supports multiple industrial protocols and applications simultaneously, providing a single wireless network that is simple to manage and efficient to operate.

Honeywell is committed to ensuring that current products integrate into the second-generation wireless network enabling a seamless migration. XYR 5000 can coexist with Honeywell's second-generation system using the mesh backbone to transport XYR 5000 messages (by connecting the XYR 5000 base radio to the iNode). Honeywell is also committed to ensuring that various protocols, such as Modbus, OPC, HART, Fieldbus, Profibus and others can communicate and interface with this network.



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