



Wilmington Section ISA
Box 9254
Newark, DE 19714-9254

Wilmington Section ISA

ISA—The Instrumentation, Systems, and Automation Society 

Check out our web page at <http://www.isa.org/~wilmdel/>

Wilmington ISA Section Event

Annual Shrimp Boil
5:00 pm Tuesday, Apr. 30, 2002
Applied Control Engineering
700 Creek View Road
Newark, DE. 19711

Note the Date(30th April) and the New Venue. Details Inside

ISA Wilmington Section Annual Tour
6 PM to 8 PM Wednesday, May 8th 2002
Franklin Institute
222 N. 20th Street
Philadelphia, PA

Please RSVP to Steve Nann at:
snann@attglobal.net

ISASENSOR

Published By
WILMINGTONSECTIONISA

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Newark, DE 19714

2001-2002 Officers

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The Sensor

April 2002

10th Annual Shrimp Boil

Please take special note of the new date and new location. This year's Boil will be held at the brand **new Applied Control Engineering (ACE)** facility behind Timothy's restaurant off Paper Mill Road. The facility looks very nice and, weather permitting, we will enjoy a view of the local creek and fields. It should be the best Boil ever! The snacks and fun start at 5:00 with the official pour to occur at 6:00. Make sure you bring a friend (I am trying to talk my wife Kelly into coming, or a co-worker). You don't have to be a member of ISA to attend and there is no fee.

The entire event is sponsored by our fantastic local vendors including:

Friends of the Shrimp

Paul & Tim & Alex of ACE
Ron Sheldrake of Automation
Joe Baker of Endress + Hauser
Jim Keaveney of Honeywell
Mike Scott & Joe Gunn of NorthEast Technical
Mike Piontek of Pro-Quip
John Neill of Testcom
Brian Maillie of JD Instruments/
McCrometer
Ken Limbert of RVS Controls

Boil Buddies

John Lareddola of Multi-Measurement
If you would like to be a sponsor please contact Dan Roarty at droarty@tycoint.com or call 484-875-1617. A Friend of the Shrimp is \$125 and a Boil Buddy is \$50. A copy of the Boil recipe can be found on the Wilmington Section ISA website.

- Dan Roarty

Directions to ACE From I-95:

Take I-95 to Route 273 (Exit 3); Go West on 273 until you reach Library Road (4.5 miles); Make a right onto Library Road (Sign reads 72 North, 2 East) ; Move to the left going under the train overpass ; Turn left at the next light onto Cleveland Avenue; Go straight on Cleveland Avenue until you reach the Chapel St/Paper Mill Road intersection (2 nd Traffic Light); Make a right onto Paper Mill Road; Just before the bridge on Paper Mill Road, turn right onto Creek View Road (located behind Timothy's Restaurant) ; Go straight on Creek View Road to Applied Control Engineering, the last building on your left

From PA Route 1:

Take PA US Route 1 to Route 796; Go South on Route 796 and merge with Route 896 (New London Road); Follow Route 896 South into Newark DE, you will pass University of Delaware's Clayton Hall on your left (13.5 miles); Turn left at the next light onto Cleveland Avenue; Go straight on Cleveland Avenue until you reach the Chapel St/Paper Mill Road intersection (2 nd Traffic Light); Turn a hard left onto Paper Mill Road; Just before the bridge on Paper Mill Road turn right onto Creek View Road (located behind Timothy's Restaurant); Go straight on Creek View Road to Applied Control Engineering, the last building on your left

For more details visit www.ace-net.com or the wilmington ISA section website

Pro-Quip is pleased to announce their appointment as the exclusive area representative for Fossil Steam Technologies, Inc. Fossil Steam is the manufacturer and now the direct supplier of the "Aquarian" electronic level indication and control product line. For more information about Fossil Steam products, contact Pro-Quip @ (973) 253-0100 or visit our WEB site www.Pro-Quip.com.

Instrumentation Exhibit:

Wilmington Section of ISA is planning an **Instrumentation Exhibit** and several training seminars on **Nov. 14, 2002**. If any members have suggestion of interesting topics for the seminars please forward your ideas to Mwegter@rodel.com. Vendors who have had booths at previous exhibits will be contacted with details soon and any new vendor wishing to reserve a table can contact the above e-mail address or Call Janet Cunningham at Barr Enterprise 301-668-6001.

Tues. Feb 26th, 2002: Section Meeting Notes

ISA Section Meeting

Presentation by

**Vaidee sampathkumar - EDS,
Saturn Car Assembly Plant**

**Title: "Use of Plant Floor Systems
to Acheive the Goal of a Complex
Manufacturing System"**

This presentation, by Vaidee Sampathkumar, EDS, Saturn Car Assembly Plant. was based on his Masters Research done in the GM

plant in Linden, NJ and the subsequent work done by him as systems integrator in EDS, General Motors North American Operations in the past one and a half years in various General Motors assembly plants. The presentation gave an overview of the plant floor systems and their applications in a typical auto plant and related it to the "Goal" of a plant.

The auto assembly plant is a complex continuous flow manufacturing system. They are all becoming leaner every day. Lean initiatives are taken keeping safety and quality as the top priorities and then maximizing throughput and minimizing inventory and cost. Plant floor automation systems are aimed at achieving any of these goals.

Plant floor systems are classified as monitoring systems and PC based control systems. The following are the plant floor data available from monitoring systems: Faults; Warnings; Production Counts, Bank Counts. Monitoring systems help in real-time running of the plant and also in data analysis. HMI based SCADA software are used to collect these data and store it in a database for historical analysis. The data collected are used to identify top issues in the plant and to identify bottlenecks in the plant, to focus resources on the bottlenecks. These data are also used to do "what-if" analysis using computer simulation and hence help in decision-making. The plant-integrated database approach is used to sift information out of the ocean of data.

PC based control systems help in running of the plant and may also be used for monitoring and data collection. The design and maintenance of PC based control

systems is different from that of monitoring systems. The objective of the system should be stated very clearly and the focus should be on NOT jeopardizing this objective. The backup, failover, and maintenance plans should be developed at the design stage.

About SCADA:

SCADA is an acronym for Supervisory Control and Data Acquisition. This technology enables collection of data from one or more distant facilities or send control instructions to those facilities. A SCADA system allows an operator in a location central to a widely distributed process. The technology best applies to processes that are spread over large distances and are relatively simple to control and monitor, and require frequent, regular, or immediate intervention. It can also be used to act as an interface between two hardware devices which cannot communicate with each other.

ISA Wilmington Section Annual Tour

Discussion and Inspection of the Wright Brothers Aeronautical Archives at the Franklin Institute
Presented by John Alviti, Senior Curator of Collections

Wednesday, May 8, 2002

6PM to 8 PM

Franklin Institute

222 N. 20th Street

Philadelphia, PA

Attendance is limited to **30 people**.

About the collection:

Dr. Orville Wright deeded to The Franklin Institute in his will and through the Executors of his Estate all of his and his brother's, Wilbur Wright's, original wind tunnel apparatus, model airfoils, test data and drawings of their early airplanes. The collection also

includes airfoil models tested at McCook Field during 1910, 1920, and 1921 as well as some of Orville Wright's experimental aviation devices with which he worked during his lifetime.

In addition to the intrinsic and irreplaceable value of the many items in the collection there exists within them a record of the logical, step-by-step program of engineering research and development by which the Wright Brothers enabled themselves to achieve success in flying their first powered airplane.

Mr. John Alviti, Senior Curator of Collections will talk about the Wright Brothers' archives, their importance to the development of flight, the dispute between the Brothers and the Smithsonian Institution and US Government. We will have an opportunity to examine closely many of the artifacts after the presentation

Due to the attendance limit of 30 people, anyone who is interested in the tour must RSVP to Steven Nann by Monday, May 6, 2002. Please send e-mail to Steve at snann@attglobal.net.

Visitors may park at the Institute's garage. Entrance to the parking garage is on 21st St. between Winter and Race St. Take the elevator to the 2nd Floor Level - Atrium. The ISA section will gather by ticket window #9. Bring your parking ticket with you to be validated so you will be charged the member rate for parking.

For a preview and some background information on the Wright Brothers, please visit the Institute's website at <http://sln.fi.edu/wright/index.html>

Welcome New Members to our Section

Mr. David A Potter
ICCS Group
162 Green Giant Rd
Townsend, DE 19734

Mr. Anthony Alan Ancarrow
Hough Associates
63 Christiana Rd
New castle DE 19720

Mr. Steven Arnold
1503 N Adams St
Wilmington DE 19806

Mr. Scott Meadows
2114 Oak St
Wilmington DE 19808

Positions Wanted Notice

The recent tightening of the job market is once again affecting the Wilmington ISA Section membership. If you are a member of Wilmington ISA and currently looking for employment the Section will be happy to place your position wanted note in the SENSOR. Please keep your job descriptions to 50 words or less and be sure to include contact information.

New Directory:

The new WISA directory was mailed to members in mid-February. I would like to thank everyone who worked on the directory to make it up-to-date as possible. Upon receiving your directory, please take a minute to review your information. If corrections are needed, please login at www.isa.org and revise your membership information.
-- Vince Brady

ISA News:

Terrence (Terry) G. Ives was elected to the position of District

FUTUREEVENTs
April 30, 2002
Shrimp Boil
Applied Control Engineering
700 Creek View Road
Newark, DE. 19711
Tel: 302-738-8800
Time: 5:00PM

Wednesday, May 8, 2002
ISA Wilmington Section
Annual Tour
Franklin Institute
222 N. 20th Street
Philadelphia, PA
Time: 6 - 8PM
Max: 30 people

Vice President. His term will begin from January 2002. The President's Summer Meeting (PSM) will take place at the ISA headquarters, Research Triangle Park, N.C from 8th June 2002 (Saturday) to 12th June 2002 (Wednesday). It is being considered by to have the District Leadership Conference (DLC) alongwith the PSM from 7th June 2002 to 8th June 2002.

Thanks!!!

The Wilmington section would like to thank Bill Franey for his donation of \$25 to the section.

POSITION WANTED

BSEE with 24-years of sales and international application engineering experience seeking an Engineering/Technical Support position for industrial automation, process control systems, and instrumentation. I have hands-on, and field start-up experience in the chemical, bio-pharmaceutical, refining, and beverage industries. Contact Ray Kruger at (215) 822-1573, or rkruger@fast.net Currently, my preference is to be based in the Philadelphia suburbs, with a 1-hour maximum commute.

Email Distribution EMAIL Change

The Wilmington section will now use the ISA List Server system to manage WISA email to the members. The Section will use this list to broadcast announcements of Wilmington Section activities and information. The present scheme using personal email address lists is neither convenient nor efficient. Use of a List Server allows every user to control their section emails. The user controls the address entry, or non entry. You can add yourself to the list or delete yourself, at any time. You will need to keep the address up to date to continue to receive emails. The simplest way to set up your email address in the system is to log on to the ISA web <www.isa.org>, select Sections, Wilmington. Click on the URL at the top of the page which has ~*Wilmdel* in the name. Then at the bottom of the next page there is a link to <*ISA Email*>. Click on that. This takes you to a selection page where you will pick <*delaware-iowa*>, select <*wilmington*> from the bottom of that list. This will get you to the WISA input form. Enter your email address as indicated.

Scholarship Applications:

Ralph L. Moore Scholarship

The \$1000 scholarship will be awarded within the next couple of months and so far we have not received one application! The scholarship is open to any high school senior who will be attending a technical training institution or a 2/4 year college/university. The candidate must be sponsored by a member of the Wilmington Section. To request an application please contact Dan Roarty at droarty@tycoint.com or call 484-875-1617. All applications must be turned in by May 15th 2002.