



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/community/wilmi>

Wilmington ISA - Section Event

Joint ISA & IEEE Section Meeting "Industrial Networks"

(Fieldbus to Ethernet)

Presented by
Mark Fondl

Industrial Communication Technologies

5:30 pm Tuesday, March 23, 2004
Del Tech Staunton Campus
Rt 7 exit from I95

RSVP to: Joe Baker or Mike Morkun

ISA SENSOR

Published By
WILMINGTON SECTION ISA
PO Box 9254
Newark, DE 19714

2003-2004 Officers

President: Nick Sands
E I DuPont (856) 540-2080
President-Elect: Ken Lawrence
ACE (302) 738-8800
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DuPont (302) 695-0524
Web Editor: Cullen Langford
Cullen G Langford Inc. (610) 255-4164
Program Chair: Joe Baker
Endress + Hauser (215) 712-9050 (x104)
joe.baker@us.endress.com
Program Chair: Mike Morkun
DuPont (302) 774-2563
michael.b.morkun@usa.dupont.com

The Sensor

March 2004

Meeting Event

Tuesday, March 23rd:

Topic: Industrial Networks

"Fieldbus to Ethernet"

A key in the usefulness of any technology in Automation is in the appropriate use of that technology. This is especially important as standard commercial technologies target the industrial environment. This presentation will review the evolution of networks from early serial communications to the latest versions of EtherNet/IP and Foundation Fieldbus. The presentation will cover the use and integration of current Fieldbus technology into and on-to Ethernet. Techniques being deployed to encapsulate protocols over Ethernet, newer protocols EtherNet/IP, and the latest software tools will be covered to review how installed legacy systems are being connected to a common infrastructure. Parallel architectures that enable control and operations personnel to manage and configure equipment remotely. Selection criteria on what the benefits of various networking technologies will be reviewed. Vendor neutral this presentation will cover how most companies are addressing the networking area.

The presentation will review some of the latest Networking software tools for the Industrial applications and why they are required. These tools provide the ability to install Ethernet technologies with the

FUTUREEVENTs

**April 27th, 2004
Shrimp Boil at ACE!**

**May 25th, 2004
Section Meeting**

**June 22nd, 2004
Annual Picnic**

**Please update your email,
we would like to move to an
email Sensor starting in
July.**

same functionalities and characteristics that have been available from proprietary industrial networks.

Presented by:

**Mark Fondl
President, Industrial
Communication Technologies**

Mark Fondl is president of Industrial Communication Technologies Inc. (Newburyport, MA) a company that specializes in software and hardware products that assist both plant floor and networking specialist support the deployment of Ethernet communications. Mark is also founder of Network Vision a company that has developed IntraVUE software assisting controls people with Ethernet applications.

Prior to ICT, Mark was VP and General Manager of the Automation Division of Lantronix. Headquartered in Irvine, California, Lantronix is a leading provider of network-enabling technology that makes it possible

to manage, configure, control and communicate with nearly any intelligent device over the Internet and shared networks.

Mark's career highlights also include his tenure as VP, Worldwide Marketing for Schneider Automation where he developed the product roadmap termed "Transparent Factory" which became a framework for linking plant-floor automation systems with enterprise business systems via Internet and Ethernet technologies. A year after its debut in 1997, Transparent Factory won a ComputerWorld Smithsonian award for its technological contribution to the manufacturing sector.

Mark also served on the Board of Directors of the Fieldbus Foundation between 1996 and 1999, and was a key player to move toward the current FF-HSE technology that moved to an Ethernet based foundation.

**Please RSVP to:
Michael Morkun Or Joe Baker**

**Location:
Del Tech Staunton Campus
Rt 7 exit from I95**

**Sandwich buffet will be served
at 6:00 PM**

**Book Review:
By Nick Sands
The book review for The
Automation Industry in Review
Automation Unplugged by Jim
Pinto - (BBBB) Buy is on our
WISA website.**

February 24th Meeting Notes:

**Wireless Technology
"Cutting the Cord"**

David Gunn, Field Instrument Product Sales Specialist for Honeywell International gave a very informative presentation on wireless technology at our February meeting.

He started with a series of questions to help potential users determine if wireless technology should be considered for their applications.

The leading decision makers for using this technology seem to be cost justification and convenience. A case was made that there can be significant cost savings opportunity using wireless transmitters over wire and installation costs. This means lower installation and maintenance cost, allowing for faster startups.

Like any new technology, wireless is not the fix all for every problem. The customer application and wireless suitability need to be considered during the project design phase. Wireless transmitters are not recommended for critical control applications, but are promoted for monitoring, non-critical, difficult access or dangerous zone situations.

Wireless transmitters operate in the 902-928 Mhz band (spread spectrum) and because of the low radio power do not require FCC licensing. This radio frequency has very high noise immunity and a range of about 2000 feet. They use battery power with a battery life rating of 3 to 5 years.

Honeywell sells a number of transmitters including: temperature, analog interface, and acoustic. The wireless base radio can connect up to 50 transmitters and interfaces to your SCADA or DCS system.

You can contact David Gunn at 215-641-3763 if you would like to discuss Honeywell wireless technology for your applications. We also want to thank John LaReddola from Multi-Measurements, Inc. for sponsoring a tabletop at our meeting. John carries a line of wireless transmitters and can be reached at 800-887-2236.

**President's corner
Nick Sands**

The Instrumentation, Systems, and Automation society represents the interest of its members in several ways. There are three main paths. The member-section-district connection, the member-division-department connection, and the member-standards-department connection. You can influence ISA, or let ISA influence you through each of these paths. I'll explain each in more detail.

Every ISA member is a member of a section. Not every member can take advantage of section meetings, shows, or training, but the majority of members do participate in some section activities. Each section has its officers; a president, president elect, treasurer, program chair and others. Every section is also part of a District, led by a district vice president (DVP).

The Wilmington section is in District 2. Our district VP is Terry Ives.

The DVPs form the Board of District Vice Presidents. The chairman of the DVP board sits on the ISA executive board.

Our very own DVP, Terry Ives, represents all of the ISA sections on the executive board. That is a good connection from each WISA member to the executive board.

Many ISA members join a technical division, like ACOS (Advanced control), Analytical, WWT (waste water treatment) or ChemPID (chemical and petroleum division). Each division has committees and a division chairman. The division chairmen form the department of divisions. The chairman of the department of divisions joins the other department chairmen on the executive board. WISA members that are members of ChemPID or Analytical divisions have a tie through local members involved in those divisions.

There are some members that join ISA just to get discount standards or to participate on a standards team (membership is not required, but it does say you support the organization writing the standard). There are a great many standards and practices (SP) committees working on creating or improving the library of ISA standards. Each standard is very important to a group of users. The S&P directors oversee the SP committees, and form the S&P board. The chairman of the S&P board is the VP of the S&P department, and a member of the Board of Department Vice Presidents. There are a few S&P directors, SP committee chairpersons, and SP committee members in our section, giving members direct access to many standards committees.

WISA member Vic Maggioli is the Department Vice President of Standards & Practices. There are several ways that each member can be represented in ISA.

The way to impact ISA is to participate. You can participate in SP committees, or in Division committees, or in our WISA section. This time of year we begin to look for volunteers for the coming year. If you have an interest in assisting the section with the bi-annual show, the monthly section meetings, or an interest in section leadership, please contact one of the section officers.

ISA Wilmington Annual Shrimp Boil

Tuesday, April 27th - 5:00 PM
at
Applied Control Engineering

It's time again for our ISA Wilmington Section "World Famous Shrimp Boil". For those of you not aware of what a shrimp boil is let me describe it. First a very large pot of water is brought to a boil and sausage, potatoes, corn, onions, carrots and of course lots of shrimp are thrown into it. The cooked contents are then poured onto a table for a grab fest. Wash it all down with ice-cold beer or a soda and you have a shrimp boil.

Guaranteed to be a lot of fun!

This is a great opportunity to socialize with our ISA Wilmington members and meet with the company sponsors that are supporting the event. **Friends of the Shrimp** will have tables setup with literature and products to show.

Please let our Program Chairs Joe Baker at joe.baker@us.endress.com or Michael Morkun at michael.b.morkun@usa.dupont.com know if you plan to come.

Once again the call is going out to our local vendors to help sponsor this event. There is still time to help support this event with one of the following sponsorships:

Friends of the Shrimp: \$125.00

This provides recognition in two issues of the Sensor as well as at the Boil itself. It also entitles the sponsor to setup a table top at the Shrimp Boil to display your company's products.

Boil Buddy: \$50

This level of sponsorship provides recognition in two issues of the Sensor as well as the Shrimp Boil festival.

Without the sponsors this yearly event would not take place. Please consider being a sponsor for this year's biggest Wilmington ISA social event. Please indicate your interest by sending an e-mail to **Dan Roarty at droarty@tycoint.com**.

Ralph L. Moore
\$1000 ISA Scholarship
Application Form
Presented by the Wilmington Section of the International Society of Measurement & Control

Application Requirements:

Applicants must be sponsored by a Wilmington Section ISA member.

Students must be a high school senior and must be attending a 4 year college/university or technical training school.

Applicants pursuing a technical or science degree will receive preferential treatment.

Supporting Information Required:

Short written essay including: Sponsor & Achievements (both scholastic & personal)

- *Extra curricular activities & community service
- *Leadership roles

Recommendations:

- *Teachers (2)
- *Personal (1)

High school transcript including GPA, SAT and class rank.

This information will be reviewed by the Wilmington Section Scholarship Committee. Deadline for receipt of information by the committee is May 15th. Submit information to:

Dan Roarty
Scholarship Chairman
319 Palomino Drive
Newark, DE 19711
Home Telephone # 302-292-8866
e-mail: droarty@tycoint.com

Award & Presentation:

A check will be presented at the ISA Annual Picnic held in June.

The recipient will be presented with a check for \$1000.00 from the ISA Wilmington Section. This presentation will, if possible, be made at the June ISA Family Picnic. All applicants will be notified of the results. In case of tie the award will be evenly divided.