



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 Plant Tour  
of AstroPower  
231 Lake Dr.  
Newark, DE**

**5:30 pm Thursday, April 5, 2001**

**I-95 to Rte. 896 South ,  
Turn right into Pencader Industrial Park.**

Please RSVP by Friday, March 30 to  
**[john-w.w.wood@usa.dupont.com](mailto:john-w.w.wood@usa.dupont.com)**  
or leave a message at (302) 774-2380

**ISA SENSOR**

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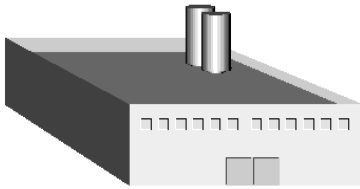
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# The Sensor

March 2001



## Plant Tour - AstroPower

Join us for a tour of AstroPower's Pencader manufacturing facility on April 5th at 5:30 PM, located at 231 Lake Drive.

AstroPower develops, manufactures, markets and sells photovoltaic (PV) solar cells, modules, and panels for generating solar electric power. They are currently the largest US-owned PV manufacturer and one of the world's fastest growing PV companies.

An overview of the company will be presented first, then followed by the tour. Attendees should allow approx. 45 min. to 1 hour from start to finish.

Directions: Take I-95 to Exit 1, Rte. 896 South. Continue for 2 miles, turn right onto Corporate Blvd. Take the 2nd left onto Lake Dr. AstroPower is last bldg. on left.

Please contact John Wood by March 30th, if you're interested in attending via Email :

[john-w.w.wood@usa.dupont.com](mailto:john-w.w.wood@usa.dupont.com)  
or phone: (302) 774-2380

## February 2001 Section Meeting

The February Section meeting was held at Del Tech & Community college, Stanton Campus. Jim Keaveney and Frank Rottier of Honeywell provided the table top demo and Frank Rottier briefly discussed their network security capabilities.

## CALENDAR OF EVENTS

April 5, 2001  
Plant Tour - AstroPower  
Pencader Ind. Park  
Newark, DE

Executive Committee Mtg  
April 10, 2001

April 24, 2001  
Shrimp Boil  
Wilmington Valve & Fitting

The speaker, Tom Good, from DuPont, recently participated in a corporate initiative to develop security guidance for the process control systems used throughout DuPont. He discussed the issues concerning security for process control systems, the risks involved and key learnings from this study. His presentation was entitled "Protecting Process Control Systems and Networks".

The new open Information Technology architectures for process control system offer an unprecedented potential for business information integration. However, the same open technologies make our processes vulnerable to misuse or theft of confidential information and susceptible to tampering with the potential of compromised process safety, lost production capacity, or environmental releases.

Tom compared the architecture of plant networks of the 80's and early 90's to those of the late 90's to present day. They've gone from closed architectures and proprietary systems with point to point communications to open

systems with communications using Ethernet connections. He also presented an alarming statistic of the growth of the number of incidents (attacks on computer systems) increasing exponentially during the past three years. The three major types of attacks are: Information theft, systems hacked (sabotage) and attacks resulting in access denial of valid users. The impact of security breaches may be significant resulting in loss of production capability, equipment & facility damage, personal injury, and possible environmental release.

Tom introduced a security analysis methodology that can be applied to assess the potential security risks to a manufacturing process. What are we trying to protect? Confidentiality of information, System Integrity and System Availability. Realizing that manufacturing systems are at risk and that there are assets worth protecting, what should be done? The steps of the security analysis methodology include: Review the security risks of data, applications, equipment and harm to people. Design/Select mitigation strategies to address the risks; considering firewalls, encryption, authentication or network alternatives. Implementation of security technologies and Support and Maintenance efforts addressing site security issues as time goes on.

There is technology available to address security risks and it can be inexpensive and robust if properly implemented. Many Thanks go to Tom for taking the time to speak at our meeting.

### President's Message:

I would like to thank Tom Good for his presentation on Internet security at our last section meeting. This appears to be a topic of interest to many of our members due to the good turn out. While the Internet access makes our lives easier, it also puts us at risk of having our lively hood destroyed by some hacker or prankster spreading a virus or stealing data. Thank you to Jim Keaveney and Honeywell for helping with the meeting expenses, whose table top demonstration focused on what Honeywell can offer to help you with your LAN and WAN systems. Due to a scheduling problem, our March event will be delayed until the 5th of April. This will be our tour of Astro power and is worth the wait. I hope the date change will not prevent anyone from being able to attend.

The annual "Shrimp Boil" is scheduled for April 24 so mark your calendars. So, be sure to attend and partake in eating some of Dan's skillfully prepared culinary delight.

ISA District 2 will be conducting a two day leadership training conference in Baltimore on April 27 and 28. If any one has any interest in attending, you can find more information on ISA national the web page: [www.isa.org](http://www.isa.org).

Merlynn Wegter

### Celebration Dinner at Cafe Belissimo

An appreciation dinner was held at Cafe Belissimo in evening of February 24th for those members of Wilmington ISA who volunteered their time to work on the Year 2000 Exhibition and Technical Seminars event. In the seclu-

sion of separate room the attendees enjoyed the menu that included chicken parmesan, stuffed shells, eggplant parmesan, sauteed potatoes and vegetable medley.

After dinner, Gopal and past presidents addressed the attendees. Gopal expressed his appreciation of the hard work performed by the volunteers. The Exhibit and Technical Seminars were attended by over 200 people. The Wilmington Section also gained a few new members as a result. The revenues from the event was also an indication of the success of the event. A common thread expressed by those who talked was the need to increase the membership from young professionals. However, due to the recent employment climate, they seem to have to focus on stabilizing their careers. This is much different than what it was twenty years ago.

Also, many are in a dual career family environment with minimal leisure time: not much time available to devote toward activities such as professional societies. The need to encourage the young members to undertake leadership roles was also a common theme. It also seems that more users than vendors are active members. Jim Keaveney, former District-2 V.P., stated that ISA Headquarters has experienced a decline in membership world-wide. To counter this trend, last fall ISA Headquarters conducted a membership recruitment program where each section would get a rebate for every new member enrolled during the promotion period. Jim also mentioned other membership incentives involving dues and that there were some educational opportunities being sponsored by ISA Head-

quarters. Jim said with strong conviction that in his opinion Wilmington Section was the best run and made the most progress during the past few years. He specifically praised our past two Exhibit and Technical Seminars events and said the Wilmington Section conducts the best meetings of District-2.

Everyone seemed to enjoy the dinner and the conversations engaged.

### Masters Degrees in Instrumentation, Systems, and Automation

Jim Keaveney, former District-2 V.P., shared the following information regarding the new Masters Degree Program supported by ISA.

A set of post-graduate programs relevant to ISA members is currently being offered by Oklahoma State University and Indiana State University.

The Master's Degree Program will be conducted as a distance education program to allow for broad participation by the universities and prospective students. It is designed both for practicing engineers and scientists as well as full time graduate students. Compressed video, tape, and Internet delivery from on-campus classes provide time and schedule flexibility to match busy work requirements.

An ISA task force is being led by Dr. Gerald W. Cockrell. ISA will provide degree criteria and marketing via web pages on the [ISA.org](http://ISA.org) site, links to the schools program web sites, announcements in Division Newsletters, etc.

ISA's Marketing implementation is expected in the summer of 2001. Watch for it on ISA Online : [www.isa.org](http://www.isa.org)

## CCST Certification Renewal

The certification period is three years. A total of 120 Professional Development (PD) points is required for recertification.

Professional Development (PD) activities must be completed before the certification expires. Certification expires on the date printed on the certificate.

Recertification requires submitting completed forms 60 days prior to the expiration date of the certification.

A \$150 renewal fee should be mailed with the renewal application to ISA 60 days prior to the CCSTs expiration date.

Failure to accumulate the required PD points before the end of the certification period will cause the certification to expire. If certification expires, the certificant's listing of that certification will be deleted.

If a certification expires, it can be returned to Active Status only by reapplying as a first time applicant and meeting the work, education, and exam requirements for that certification level PD Points can be achieved in the following ways:

- Work experience
- Educational training
- Extra professional activities or
- By taking the written exam for (to receive all 120 points)

For details visit ISA's website at: [www.isa.org/certify/ccst](http://www.isa.org/certify/ccst)

## 2001 Wilmington ISA Directory

The upcoming 2001 WISA vendor sponsor and represented manufacturers is a work in progress. We are currently using the 1999 mailing list as a base. If you are aware of any changes, please contact Vince Brady via email: [vbrady9981@aol.com](mailto:vbrady9981@aol.com)



## Its Time to Boil the Shrimp Again

Mark your calendars, The 9<sup>th</sup> Annual Wilmington Section ISA Shrimp Boil is scheduled for April 24<sup>th</sup>. The event will be held at Wilmington Valve and Fitting, located on Century Blvd. off of Churchmans Rd., behind the New Castle County Airport. It will start around 5 PM, prouing of the shrimp at 6. There won't be a guest speaker this year.

We are sending out the call to our local vendors to help sponsor this event.

## Looking for Friends of the Shrimp

We need your help to make it happen. As you know every year several sponsors help us out in defraying the cost of the shrimp and refreshments. We are now asking for your help. We have two levels of sponsorship:

### Friends of the Shrimp : \$125

This provides you, in addition to your company name listed in two issues of the Sensor closest to the event, a table top at the boil is available for you to display your company's products.

### Boil Buddy : \$50

As a boil buddy we will list your company name in two issues of the sensor the Sensor. In addition your company name will be prominently displayed at the boil itself.

Without the sponsors, this yearly event would not take place.

Please consider being a sponsor for this year's biggest Wilmington ISA social event

To indicate your interest and become an integral a part of this great outing, please send an email to Dan Roarty at:

[droarty@scottbacharach.com](mailto:droarty@scottbacharach.com)

Also, See our website for the shrimp boil recipe : <http://www.isa.org/~wilmdel/calev>

This event is a good way to expose someone you might think would like to join ISA. So bring a friend.

## Ralph L. Moore Scholarship

Our Section is once again accepting applications for our scholarship named in honor of one of our favorite and most esteemed members. The application is open to any person who is currently a senior in high school and planning on attending further education in any form. The applicant must be sponsored by a member of the Wilmington Section. Send all requests for an application to Dan Roarty, Scholarship Chairman, at by sending an e-mail to [droarty@scottbacharach.com](mailto:droarty@scottbacharach.com)

All applications must be submitted by mid-May.

## New Wilmington ISA Members

We welcome the new members to the Wilmington Section ISA :

Mr. Wayne P Brio  
Del Tech  
400 Stanton-Christiana Rd  
Newark, DE

Ms. Joanne Weldin  
Dupont Instrumentation Center  
Beech St. faciility  
Wilmington, DE