



Wilmington Section ISA
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Wilmington Section ISA

ISA, the international society for measurement and control, advances the technology and the competence and careers of practitioners for the benefit of industry and humanity.

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

**Wilmington ISA Section Meeting
"Protecting Process Control Systems and
Networks"**

by Tom Good, Dupont

**6pm Tuesday, February 27, 2001
Del Tech & Community College,
Stanton, DE**

**I-95 to Rte. 7 North (exit 4B),
to Chruchmans Rd.
use the main entrance**

Please RSVP by Friday, February 23 to
john-w.w.wood@usa.dupont.com
or leave a message at (302) 774-2380

ISA SENSOR

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WILMINGTON SECTION ISA

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The Sensor

February 2001



Tom Good, Dupont

Tom is a Project Engineer with the DuPont Corporation. He is a graduate of Lehigh University with a BS in Chemical Engineering. In his early career years he worked as a product development research engineer for Johns Manville Corporation in Colorado. Later he transferred to one of their manufacturing sites and became involved with computer based process control systems. In 1981 he joined the DuPont Engineering Control Systems Group as a project engineer providing systems integration services in support of manufacturing computer system projects.

As a member of DuPont's Process Control Network Workgroup, Tom participated in a corporate initiative to develop security guidance for the process control systems used throughout DuPont. This workgroup is being awarded DuPont's 11th annual Charles T. Welsh, Jr. Information Security Award, for the most significant accomplishments in Information Security during 2000. Tom will discuss the learnings from this study.

CALENDAR OF EVENTS

February 27, 2001
Section Meeting
"Protecting Process Control
Systems and Networks"

March 27, 2001
Plant Tour
TBA

April 24, 2001
Shrimp Boil
Wilmington Valve & Fitting

Protecting Process Control Systems and Network

The new more open Information Technology architectures being supplied by the process control vendors offer information integration with an unprecedented potential for business 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.

This presentation exposes process control engineers to the very real security risks to process control systems. The talk will present a security analysis methodology that can be applied to assess the potential security risk to a manufacturing process. The methodology yields guidance recommendations for implementing more secure process control environments.

President's Message:

Our Jan. Section meeting was a joint meeting hosted by the IEEE at Trabant Center, University of Delaware. The social exchange between the organizations before the speaker was very stimulating and the number of younger people in attendance gives me hope that there are young engineers becoming interested in our professional organization. With a couple of years of coaching these young engineers could become a driving force in ISA.

Dr. Michael McCann's presentation "Playing With Models" demonstrated that by investing time in simulation it is possible to engineer cost savings before actually going to the factory floor and experimenting. Modeling and running simulation can also help prove a projects success probability before large amounts of capital are invested in real estate and equipment. At least one of the examples that Dr. McCann discussed, probably gave each of us a possible project in our own companies that might be improved by running a simulation to see what could be done to maximize performance.

I would like to thank Dr. McCann for his presentation and wish that more ISA members had taken the time to attend this meeting.

ISA national is offering scholarships (\$1000 to \$5000) for outstanding graduate or undergraduate college students who are studying instrumentation, systems, automation or closely

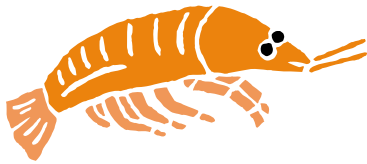
President's Message Cont'd

related discipline. If you are thinking about continuing your education or have children in school, you can get more information and application forms through ISA Online:

<http://www.isa.org/educationalfoundation/>

See you at the Feb. section meeting on the 27th.

Merlynn Wegter.



The Shrimp Are Running Scared!

Can it be? Is it time once again to gather around the 80 quart pot and cook up pounds of shrimp?

YOU BET IT IS!

Mark your calendars, The 9th Annual Wilmington Section ISA Shrimp Boil is scheduled for April 24th. Once again the call is going out 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

Also, See our website for the shrimp boil recipe :

<http://www.isa.org/~wilmdel/calev>

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

All applications must be submitted by mid-May.



National Engineers Week turns 50 Feb. 18- 24, 2001

This year's National Engineers Week 2001 is February 18-24, with a special focus on **Introducing a Girl to Engineering Day**.

Scheduled for Thurs., February 22, IBM leads the way of this cooperative forum for corporations, government agencies, and engineering societies aims to increase the number of girls reached through National Engineers Week programs, target and encourage women engineers to serve as mentors for those programs, bring to public attention the need for more engineers and more opportunities for women in the field.

National Engineers Week 2001 is continuing its **Future City Competition**. The competition asks seventh- and eighth-graders to design first on computer and then in a large three-dimensional model a city of the future. The students work with their teacher and a volunteer engineer mentor. Students must take into account real city problems such as pollution, crime, traffic, and unemployment and then solve them and defend their solutions to a panel of engineers. Winners from 26 regional competitions held across the country in January will compete in the national finals at the Hyatt Regency Capitol Hill in Washington on February 20 and 21. For more info see: <http://www.futurecity.org>.

National Engineers Week cont'd

The National Engineering Design Challenge

A hands-on program in which teams of high school students, with the advice of a teacher-coach and engineer mentor, design, build, and demonstrate a working model of a new product aimed at solving a public need. NEDC conducts its national finals for regional winners during National Engineers Week on February 20 and 21 at the Hyatt Regency. This year's NEDC problem statement is to design and fabricate a product that will help make life easier for people with disabilities, in areas such as computer/user interface, food preparation and eating, personal hygiene, transportation, or clothing. The design needs to appeal to as wide a market as possible, including those without disabilities, so that if it would ever go into production, it would be financially viable. NEDC is coordinated by JETS (Junior Engineering Technical Society) and more information can be found at www.jets.org. <http://www.discoverengineering.org>, a Web site developed, sponsored, and launched during National Engineers Week 1999 by that year's co-chair, Eastman Chemical Company, educates middle school students with information about what engineers do and how to become one.

Discover "E," a program that lets 40,000 engineers nationwide work with more than five million elementary, junior and senior high school students to help them discover practical applications of math, science and technology

through hands-on activities in the classroom and in extracurricular programs.

The National Technological University sponsors the 12th annual "**Discover Engineering**" telecast during National Engineers Week, a live satellite telecast for junior and senior high school students to learn about engineering careers. More information can be found at <http://www.ntu.edu>.

This year's presentation is :
How to Think Like Leonardo da Vinci: Liberating Creativity and Igniting Innovation in the Workplace

Featuring Mr. Michael Gelb

Thursday, February 22, 2001
1 - 3:30 pm ET

Delaware's Engineers' Week® Celebration - Thursday, February 22, 2001

DuPont will sponsor The National Engineers Week banquet to be held at the DuPont Country Club on Thursday February 22, starting with a cocktail hour at 5:30 pm. This event brings together engineers from around the state to honor a profession that has been a significant contributor to the success of DuPont for nearly 100 years. Please plan to attend. Tickets are \$35 per person and are available through Keith Pfaff (302) 695-0253 or Lorraine Horner (302) 695-0042. The banquet cost for students is \$16.

DuPont's Pres. & CEO, Chad Holliday, P.E., has been named the *Delaware Executive All-Star* for E-week 2001. In 2002 Chad will be the honorary chairperson

for National Engineers week, and will serve on the E-week Steering committee.

New Wilmington ISA Members

We welcome the new members to the Wilmington Section ISA :

Ms Dana Buker
Dupont Pharmaceuticals
Wilmington, DE

Mr John G Bryon
EAR Specialty Composites
Newark, DE

Mr John Warfield
Indoor Environmental Tech
Wilmington DE

Mr Charles Cobil
Sargent & Lundy LLC
Wilmington, DE

Mr Mike Flenniken
Tru Tec Services
Newark, DE

Mr Bob Belair
Agilent Tech
Wilmington, DE

Mr Kenneth D Jackson
Hockessin, DE

Mr Matthew Kopay
Univ Of Del
Newark, DE

Mr George E Pease
Hough Assoc
New Castle, DE

ISA's Bonus Membership Recruitment Program

More than 200 new members world-wide enrolled during the promotion held from Sept - Dec, 2000. Sections will be awarded a \$5.00 rebate for every new regular member enrolled during this recruitment period.