



Wilmington Section ISA  
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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

### Section Meeting

Mike Piontek - Pro-Quip, Inc.

"Fugitive Emissions from the Valve's  
Perspective"

5:30 pm Tuesday, March 25, 2003

Applied Control Engineering

The Mill at White Clay Creek

700 Creek View Road

Newark, DE 19711

Directions to ACE at [www.ace-net.com](http://www.ace-net.com)

### ISA SENSOR

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# The Sensor

March 2003

## March Event :

**"Fugitive Emissions from the Valve's Perspective"**

**Tuesday, March 25th - 5:30 PM  
Applied Control Engineering**

The meeting will be held in the ACE Training Room.

### Speaker:

**Mike Piontek - Pro-Quip, Inc.**

### Bio:

Mike Piontek is an outside sales representative for Pro-Quip. They are a leading manufacturer's representative of process control products to chemical, power, refining, pharmaceutical, and food & beverage industries.

Mike has been selling control valves with Pro-Quip for 1.5 years to customers in S. New Jersey, Delaware and Maryland including primary responsibility for DuPont plants within this geographic region. He was formerly inside sales manager (5 years) for a manufacturer's representative specializing in on/off valves (butterfly, ball, gate, etc) and pressure relief valves.

### Background on Fugitive Emissions:

One of the key issues facing users in industry is the environmental challenge, particularly in the petrochemical, chemical and allied fields. It is recognized that industry must reduce its impact on the environment if we are to continue global development for future generations (the so-called "sustainable development" option). A major contributory factor will be through the lowering of industrial emissions, which has been catalyzed by a combination of public pressure, environmental legislation

## FUTUREEVENTs

**March 18, 2003**

**Exec. Committee Mtg  
Applied Control Engineering**

**Mark Your Calendar!**

**April 29, 2003**

**Wilmington ISA Shrimp Boil  
Applied Control Engineering  
700 Creek View Road  
Newark, DE 19711**

and the internal requirement to minimize the loss of valuable feedstocks. A large proportion of the emissions to atmosphere are represented by the by-products of combustion (notably the oxides of carbon, nitrogen and sulphur), along with known losses of volatile hydrocarbons and steam. In general, these are all emissions anticipated from the industrial process, under the control of the plant operator, and will not be considered further here.

However, a proportion of industrial emissions occur through unanticipated or spurious leaks in process systems. These equipment leaks are usually referred to as "fugitive emissions", and in this area the sealing industry is playing a vital role, through the development and application of innovative sealing technology appropriate to low or zero emission requirements. Even the definition has taken some care in agreeing, because there has been a great deal of misunderstanding about the terminology here. After extensive discussion, the ESA has defined a fugitive emission as:

**Any chemical or mixture of chemicals, in any physical form, which represents an unanticipated or spurious leak from**

**anywhere on an industrial site.**

To put the scale of the challenge in perspective, fugitive emissions from leaking valves, pumps and flanges in the USA have been estimated to be in excess of 300,000 metric tonnes per year, accounting for about one third of the total organic emissions from chemical plants, and inevitably mirrored in Europe. Irrespective of any environmental impact, which, it may cause, this is a tremendous financial burden on industry because it represents a huge loss of potentially valuable materials, and cause of plant inefficiency. Yet in most instances, the true costs to industry are not appreciated, since many of the costs associated with fugitive emissions are invisible.

**So come and hear the valve's perspective on this topic!**

### 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 (2nd traffic light)

\*Make a right onto Paper Mill Road

\*Just before the bridge on Paper Mill Road, turn right onto Creek View Road

\*Go straight on Creek View Road to Applied Control Engineering, the last building on your left.

**Directions to ACE (cont.)  
From Route 1 in Pennsylvania:**

\*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 (2nd traffic light)

\*Turn a hard left onto Paper Mill Road

\*Just before the bridge on Paper Mill Road turn right onto Creek View Road

\*Go straight on Creek View Road to Applied Control Engineering, the last building on your left.

**Section Meeting Notes**

**Tues. Feb. 25th**

**Speaker: Nick Sands - DuPont**

**Title:**

**"A DCS User Meets Fieldbus"**

Nick gave a very practical and informative talk on his experience with implementing and supporting a DeltaV fieldbus application.

He discussed the abundant amount of information available to the maintenance technicians on the network / sensors and some of the drawbacks that too much information can bring. This caused some confusion and delays in solving the problems at hand.

Overall he recommends that companies embrace the technology, but be aware of the complexity and training requirements involved for the support team.

Special thanks to the Proconex for sending equipment and representative to introduce the evening topic.

**Section President's Message:**

Hello, my name is Lori Diamond and I am the Wilmington section President. I would like to take the time to thank you for your support. Your support this year has truly been outstanding and it shows with the large attendance at our section meetings and other events. Lets keep up the good work and make our March 25<sup>th</sup> sections meeting the largest showing yet!

Our February meeting focused on Fieldbus and Nick Sands gave a talk on A Users' perspective of Fieldbus. His talk was excellent and timely since many companies are considering this technology. Nick summarized the benefits and problems encountered when a user, who is not overly familiar with Fieldbus, has to start up a new DCS with Fieldbus instrumentation.

Please show your support of the section by attending the monthly meetings and as many activities as possible. Bring a friend to our section meetings and encourage them to join ISA. Our March section meeting will feature a talk on valve emissions by Mike Piontek of Pro-Quip, Inc. Valve emissions are being looked at more closely these days by regulatory agencies and this talk should prove very interesting! And, of course, don't forget our Wilmington Section April event, the Shrimp Boil! The shrimp are ready to go and so is the Shrimpmeister, Dan. Come out and meet friends, eat lots of shrimp and show support for your ISA section!

Your section has made great strides in keeping pace with the progress of communications. All of the local events are listed on our web page as well as published in the sensor. All of the section officers are available by email and we would like to hear from you!

The greatest benefit our section can offer you learning. Whether it is a technical presentation at one of our meetings or shows or networking at fun event like the Shrimp Boil, Picnic or Blue Rocks game, we want to help you increase your skills and help your

**Scholarship Applications:**

Applications are now being accepted for the **Ralph L. Moore Scholarship**. Any senior high school student who is attending a trade school or college/university is eligible. A member of the Wilmington ISA Section must sponsor the applicant.

A \$1000.00 check will be presented at the ISA Annual Picnic held in June.

For more details, contact Dan Roarty, Scholarship Chairperson at: droarty@tycoint.com or 302-292-8866.

**Bring a Friend Drive**

Do you know someone who might be interested in ISA? The Wilmington Section will have a sign in sheet where members can sign in and list the "friends" (non-ISA) members they have brought to the program. In June the person who has brought in the most guests to section meetings (not including the family picnic) will win a prize.

**ISA Meeting to Support NCEES in preparing the 2003 CSE exam:**

Contributed by Kong Nguyen

The national professional engineering (PE) exam committee had a two-day meeting at Fluor office, Houston, Texas Friday-Saturday, 17-18 January 2003. There were 13 ISA members, arriving from different states, to participate in this meeting with the presence of the representative of the National council of Examiners for Engineering and Surveying (NCEES). Wilmington section again participated in the exam design activities this year, with Farshad Amir's support from DuPont Engineering EICS specialist group.

The main purpose of the meeting was to redesign the specifications and to prepare more questions for year 2003 exam. The passing score (percentage) of the past CSE exam was announced by Mr. Thomas Stout, PE, CSE exam committee Co-Chair.

It appears that the percentage of examinees passing the CSE exam was higher for year 2001. The 2003 exam specification will also be changed from 10 down to six (6) categories weighted as below:

Measurement: 24%; Signals and Transmission: 12.5%; Final Control Element: 20%; Control System Analysis: 16%; Control Systems Implementation: 20%; Codes, Standards & Regulations: 7.5%.

Should you plan to take the exam this year, you may check out the website below or contact Kong Nguyen (302- 695-6308) for more information.

<http://www.ncees.org/exams/>

**Standards Report:**

Contributed by Cullen Langford

Fieldbus standards are still circulating for ballot. The Function Block draft is out for ballot The final version of the all inclusive six type data link layer ballot is circulating. A new ISO work item for field Ethernet wiring has been proposed. SP12 is adopting more international concepts and the idea of a World Electric Code begins to be a possibility.

SP84 continues progress towards completing their work and reconciling the IEC standards with ISA versions. This is moving towards World safety Standards. Key players include locals Vic Maggioli, who is now the Vice President for ISA Standards & Practices. And Bill Johnson who now leads SP84. Meetings are frequent.

Control Valve standards for noise prediction and measurements continue to progress. The revised ASME MFC-8M concerning impulse lines for head type flowmeters might be of interest. A new version of IEC 5167 on head type flowmeters is due out shortly. This was delayed to meet the IEC format requirements, which are very specific and difficult to meet.

As a general comment, participation in all but the most popular standards efforts is down as user companies cut back on employees and development times become longer.

My personal view is that standards still provide a very powerful tool to improve communications between users and makers and can help assure quality and safety.

**Shrimp Boil Sponsors:**

Is it time once again to gather around the 80 quart pot and cook up pounds of shrimp! We are still looking for sponsorships to help with this event:

**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 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 Boil festival. Please send an email to Dan Roarty at [droarty@tycoint.com](mailto:droarty@tycoint.com) if you are interested in sponsoring this year's Shrimp Boil Event!

**ISA Process Control Conference:**

**Wednesday, June 4th - Friday  
June 6th 2003  
-Location-  
Radisson Valley Forge  
1160 First Ave  
King of Prussia, PA**

The ISA Process Control Conference is a regionally focused event with a strong concentration on technology to assist food, pharmaceutical, chemical, and petroleum manufacturers.

ISA's Process Control Conference will address vital issues important to process industries located in the dynamic eastern corridor. Featuring a conference program, training series, and exhibition, ISA's Process Control Conference offers you the opportunity to increase your knowledge, expand your resources and source solutions to your current challenges.