



**Houston**  
Section

# March Newsletter 2006

# ELECTRO *Pneus*

## General Meeting Wednesday—March 1, 2006

### Joint Meeting with Analysis Section

**Topic:** Understanding EPA Boiler MACT III  
Requirements For Fired Equipment


Boiler MACT III requirements go into effect September 13, 2007 and will affect many existing industrial boilers, institution/commercial boilers and process heaters that aren't already covered by an existing MACT rule.

This presentation distills hundreds of pages of EPA emissions limits and monitoring requirements into a format that is somewhat understandable. We will also discuss emission control strategies and monitoring solutions.

**Speaker:** Bart Gossett—Forney Corporation

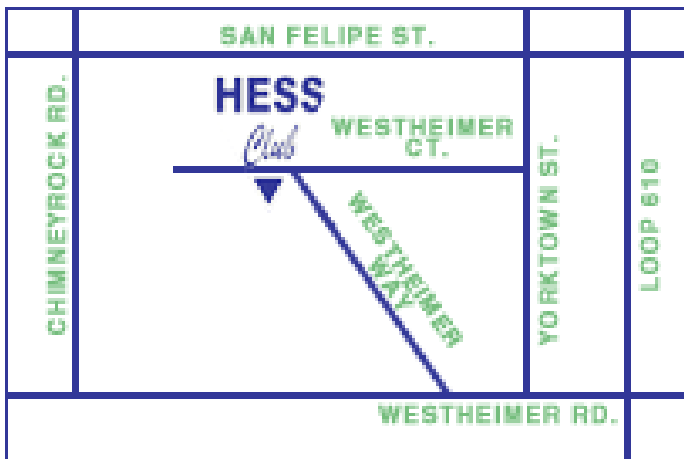
Bart has 18 years experience in the environmental field. His career started with The Midwest Research Institute in the area of compliance and CEM research testing. From there he moved on to Columbia Scientific/Forney where he was responsible for installing and maintaining CEM systems for various utilities in the Midwest United States. He then moved into the engineering department where he designed environmental and control systems. Currently Bart is the Sales Manager for Environmental products for Forney Corporation, which allows him pass on his experiences to end-users.

RSVP On the Houston Section website:  
www.houstonisa.org or call: 713-684-1414 x1104

**Price:** \$20 with RSVP by Feb 28th  
\$25 without RSVP 

**Time:** 5:15 pm – Social  
5:45 pm – Dinner/Meeting

**Place:** HESS Club  
5430 Westheimer Way  
Houston, TX 77056





# Houston Section

## President's Corner



**John Campbell, President  
ISA Houston Section**

I am forever amazed by the number of activities taking place within ISA, sponsored both locally and by the mother (father?) organization. Let's look at a condensed list of coming attractions.

ISAHS is hosting a three-day Safety Instrumented Systems course on March 7-9 at Rawson LP. Paralleling the ISA course (but at a substantially lower cost), you will get an in-depth and hands-on exposure to the wonderful world of SIS design. Registration is through the ISAHS website ([www.houstonisa.org](http://www.houstonisa.org)) and PDH's will be available.

On Wednesday, March 8, the ISA Pipeline Subsection will host its annual TableTop Show and Scholarship Shrimp Boil at St. Arnold's from 5 pm to 8 pm. More information is available at the Subsection internet page, which you can reach through the ISAHS page.

The 39<sup>th</sup> Annual ISA Houston Section Golf Tournament will be held on Monday, March 20 at the Kingwood Country Club in (where else!) Kingwood, TX. For the last several years, the day has been beautiful and the 4-man scramble is forgiving to duffers like me. Again, head to the ISAHS webpage for more information and to register.

Now we move from the local to the Society. For information on the following meetings, go to [www.isa.org](http://www.isa.org).

Coming April 1-6 is the 51<sup>st</sup> ISA Analysis Division Symposium, held this year in sunny Anaheim, CA at the Marriott Anaheim Suites. Training, technical sessions, vendor exhibits and standards committee meetings make for a full schedule and rewarding time.

Next up is the ISA 2006 President's Spring Meeting. The Sheraton World Resort in Orlando, FL will be the place April 22-26. If you want to learn more about how the Society operates, Saturday and Sunday are jammed with sessions. The Technical Division meetings are Saturday through Monday and various standards committees are meeting Monday through Wednesday.

The 2006 ISA Safety Symposium is scheduled for April 23-24 at the Marriott Houston Hobby here in Houston. Training, exhibits, standards updates and technical sessions are the order of the day. The keynote speaker is Gary Vischer, a member of the Chemical Safety Board.

Last, but not least, ISA EXPO 2006 returns to Houston this fall. The EXPO will be held at the Reliant Center on October 17-19. Three full days of technical conference and exhibits, plus a President's meeting preceding the EXPO make it all an event to take part in.

None of this discusses training sessions, web seminars or any of the other myriad of activities that can be found on the ISA website. Take a visit, take a look and take part!

## 52nd International Instrumentation Symposium

7-11 May 2006 • Wyndham Cleveland Hotel • Cleveland, OH • [www.isa.org/ils](http://www.isa.org/ils)

*Presented by:*

ISA Aerospace Industries Division

ISA Process Measurement and Control Division

ISA Test Measurement Division

# Discover all the 52nd International Instrumentation Symposium has to offer

The 52nd International Instrumentation Symposium (IIS) in Cleveland, Ohio has new and exciting opportunities to gain valuable technical information and training in advanced sensors, instrumentation systems, and data and sensor technology. This year's event is sponsored by the ISA Aerospace Industries, Test Measurement, and for the first time, the Process Measurement and Control Divisions. Technical papers will be presented in state-of-the-art areas that provide an unparalleled opportunity for you to propel your career.

The program features industry experts presenting top-notch timely topics, a product exhibition, a tour of the NASA Glen Research Center and Great Lakes Brewery Group Functions and an exciting Guest and Spouse Program. Additionally, you can enjoy the style and elegance of the Wyndham Hotel at Playhouse Square (located in one of the nation's most dynamic entertainment districts.) The 52nd International Instrumentation Symposium will truly be a memorable event.



**Houston**  
Section

# 39<sup>th</sup> Annual Golf Tournament



**\$125/Player – Includes Golf/Cart, Awards  
Banquet, 1 Mulligan, Driving Range**

**Save \$75/Foursome**

when you pay for 4 or more teams by 2/15/06!

*Credit cards are now accepted by the ISA – Houston Section.*

Reserve your foursome now! Contact Stephanie Reese  
(713) 305-2509 or [stephanie.reese@mavtechglobal.com](mailto:stephanie.reese@mavtechglobal.com)

All payments due by March 7, 2006



# Houston Section

## Registration Form

To:	Stephanie Reese	Date:	
Fax:	281-481-3402	From:	
Phone:	713-305-2509	Phone:	
E-Mail:	Stephanie.Reese@Mavtechglobal.com	Fax/E-Mail:	

### ISA Houston Section 2006 Golf Tournament Kingwood Country Club - March 20, 2006

**Price: \$500/Foursome**

**Payment Due: March 7, 2006**

**\*Early Bird Discount: \$425/Foursome for 4 or more teams and when paid by 2/15/06**

	Player Name	Company	Phone	ISA Member (Y/N)
1	<b>Captain:</b>			
2				
3				
4				

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please make check payable to: **ISA Houston Section**

Mail to: **Stephanie Reese, 12000 Aerospace Avenue, Suite 100, Houston, TX 77034**

**If you are paying by Credit Card,**

**Please send me E-mail with following information for card security**

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Name on Card: \_\_\_\_\_ Exp: \_\_\_\_\_

Billing Address: \_\_\_\_\_

Billing Phone No.: \_\_\_\_\_



Registration: 10:30-11:45 AM  
Shotgun Start: Noon

# Education

ISA Houston Section presents

## "Safety Instrumented Systems"

*All you ever wanted to know, and then some*

March 7-9, 2006

3-Day Course

\$350 per person

Where: Rawson LP, 2010 McAllister, Houston, TX 77092

**How to Register: [www.houstonisa.org](http://www.houstonisa.org) - Education Tab**

There are many different ways of designing safety instrumented systems. Questions such as; what level of performance is needed, which technology should be used (electric, electronic, or programmable), what level of redundancy is appropriate (single, dual, or triple), how often should systems be tested (monthly, quarterly, yearly, or once per shutdown), and what about field devices (technology, level of redundancy & test intervals), are being asked by users, engineering firms and integrators alike. Debate continues as to how one even makes these choices (past experience, qualitative judgment, quantitative analysis, etc.).

Current international standards on the design of safety instrumented systems are performance oriented rather than prescriptive. The standards do not mandate performance requirements, technology, level of redundancy, or test intervals. Simply put, different levels of process risk require different levels of safety system performance. For example, legislation and standards state users must 'determine and document that systems are designed and operating in a safe manner' (emphasis added). How is this done? Industry documents outline what must be done, but not how to do it.

This in-depth course will cover the "how" and will include many hands-on exercises.

### Introduction

- § What is a safety instrumented system?
- § Knowledge gained from recent accidents (hindsight vs. foresight)
- § Applicable standards, guidelines, recommended practices, and legislation

### Philosophy of design for safety

- § The safety life cycle
- § Safety control vs. process control and the "separation" issue
- § Independent protection layers
- § Assessing process risk (frequency & severity)
- § Determining Safety Integrity Levels (qualitative and quantitative techniques)

### System implementation issues

- § Failure rates and modes
- § The real impact of redundancy (single, dual, triple)
- § Safety requirements specification
- § Relay systems
- § Solid state systems
- § Software based systems (PLC, TMR, 1oo2D)
- § Impact of field devices on system performance
- § Installation, maintenance, testing & management of change

### Materials provided:

- § Handout including slides and reference list of relevant standards and books
- § Safety Instrumented Systems - Design, Analysis & Justification (ISA textbook)

# Education (continued)

## About Your Instructor

Paul Gruhn, P.E., C.F.S.E.

- § Safety Systems Specialist with ICS-Triplex
- § ISA Fellow
- § Member of the ISA SP84 committee
- § Developer and instructor for ISA's 3-day course EC50, "Safety Instrumented Systems", as well, as 1-day course and shorter web seminars
- § Co-author of ISA book on Safety Instrumented Systems
- § Published numerous papers on various design and evaluation aspects of safety systems
- § Developer of commercial software for modeling control & safety system performance
- § B.S. degree in Mechanical Engineering from Illinois Institute of Technology, in Chicago, Illinois
- § Licensed Professional Engineer in Texas
- § Certified Functional Safety Expert (a TÜV certification)

More information is available on our website at: [http://www.houstonisa.org/Co\\_Sponsored\\_Courses.htm](http://www.houstonisa.org/Co_Sponsored_Courses.htm)  
Or contact ISA by phone (919) 549-8411 or fax (919) 549-8288.

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## Houston Section

# Advertise where it counts!

If you would like to advertise in our newsletter, please contact Ken Belteau at [krbelteau@teppco.com](mailto:krbelteau@teppco.com) or 713-759-3508. **Below are the new 2006 advertising rates:**

- \$200.00 - Single Ad Space (10 Issues)
- \$300.00 - Double Ad Space (10 Issues)
- \$400.00 - Triple Ad Space (10 Issues)
- \$400.00 - Full Page Ad Space 8½ x 11 (1 Issue)
- \$300.00 - For each additional full page (1 Issue)

## Editor's Note

Looking for Work? Wanting to Hire?

Email the information to me and we will include your message in the next newsletter.

[m.carmichael@krohne-oilandgas.com](mailto:m.carmichael@krohne-oilandgas.com)

## Looking for Work

Inside Sales—I have been a product specialist for ABB Automation systems for seven years and have a strong analytical background in flow instrumentation.

*Experience includes:*

- \*Sales, quotations, price evaluations, order entry, and purchasing
- \*Technical specification evaluation
- \*Provide engineering assistance with sizing and pricing
- \*Technical support
- \*Proposals preparation
- \*Sales forecasting reports preparation & analysis
- \*Communicate with outside sales
- \*Strengths—Strong organizational, motivational, problem solving and analyzing skills.
- \*Detail oriented, and goal directed.

Contact: [johnmcelya2003@yahoo.com](mailto:johnmcelya2003@yahoo.com)

# Calendar of Events

## Houston Section

### General Membership Meetings & Events

*At the HESS Club – 5430 Westheimer Way – unless noted*

March 1, 2006	11:30 am	Joint Meeting with Analysis Section
March 20, 2006	12:00 pm	Golf Tournament—Kingwood Country Club
April 5, 2006	11:30 am	General Meeting
May 10, 2006	11:30 am	General Meeting
June 7, 2006	11:30 am	General Meeting

### Analysis Subsection Meetings & Events

*At Ramada Inn, Hwy. 225 @ Richey, Pasadena*

*Contact Daniel Podkulski at (281) 834-2833 or Dan.E.Podkulski@exxonmobil.com*

### ICCS Monthly Meetings

*At the HESS Club – 5430 Westheimer Way – unless noted*

*For Information Contact Greg Smallwood at 713-860-5268 or greg.smallwood@tagsite.com*

March 14, 2006	5:30 pm	General Meeting
		Cost is \$20 and dinner is provided

### Pipeline Subsection

*For Information contact Mike Marzak at 713-215-2789 or michael.l.marczak@williams.com*

## National & International

### Analysis Division Spring Symposium Meeting Schedule

2006	April 02-06	51st Annual, New Orleans, LA
2007	April 15-18	52nd Annual, Houston, TX

### ISA International Fall Conference & Exhibit Schedule

2006	October 17-19	Houston, TX
2007	September 25-27	Chicago, IL

# ISA Houston Section 2005-2006 Officers

## ELECTED POSITIONS

### **PRESIDENT**

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ISA provides its members with unparalleled access to technical information, professional development resources, and opportunities to network with other automation professionals. In addition to these unique benefits, membership supports a not-for-profit organization dedicated to advancement of the state-of-the-art and recognition of the automation profession.

# ISA Houston Section 2005-2006 Officers

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