




**Houston**  
Section

# February Newsletter 2006

# ELECTRO *Pneus*

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

Price: \$20 with RSVP by Jan 30th  
\$25 without RSVP 

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

Place: HESS Club  
5430 Westheimer Way  
Houston, TX 77056

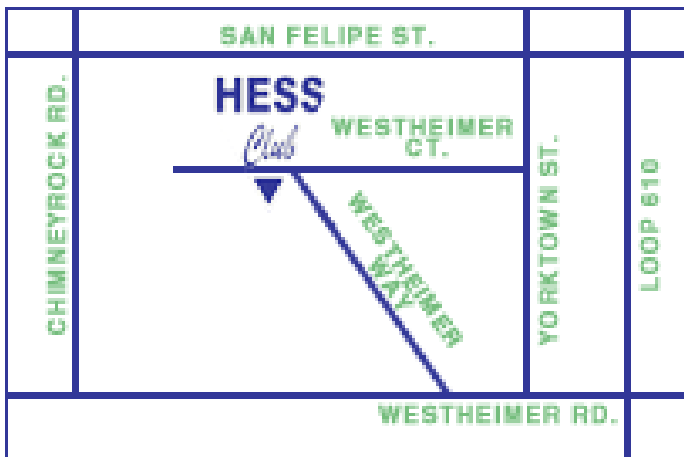
## General Meeting Wednesday—February 1, 2006

### Bosses Night!

**Bring your Boss and he/she gets to eat FREE!**

Topic: 2006 Scholarship Awards & ISA Update  
ISA Golf Tournament *Early Bird* Registration

Speakers: Chan Miller, Technip-Coflexip  
John Campbell, ConocoPhillips  
Mary Cannon, TYCO



Complimentary meal for new members

**Bring a new or potential member to the next meeting and they will receive a free gift**

Spouses & family members are welcome to the section meetings

Sign up for email notices of meetings & events at



# Houston Section

## President's Corner



**John Campbell, President  
ISA Houston Section**

## Happy “*Belated*” New Year!

New Year's Day marks the official halfway point for the ISA Houston Section operating year. Half of the meetings, half of the programs, half of the newsletters and half of the special events. As you read this, our nominating committee is putting together the slate of officers for the 2006-2007 operating year. Paul Gruhn is taking nominations for ISA Honors and Awards. Stephanie Reese has the Golf Tournament rolling. Doug Zimmerman has meetings of the 2006 Host Committee scheduled. The activity just never seems to stop.

I was reminded recently that I have been an ISA member for nearly 27 years. (I know. That's longer than some of you have been alive.) For a long time, I was a member of the Tulsa Section but lived and worked in Ponca City, Oklahoma. The Tulsa Section held an occasional meeting in Ponca City because of all the members there – Conoco employed about 30 instrument engineers at peak in PC – but most of the time we had to go to Tulsa. The 2+ hour drive to Tulsa wasn't so bad. It was the thought of the 2+ hour drive home afterwards that kept most of us from attending more than 1 or 2 meetings a year.

Once I was transferred to Houston (and was actually working in Houston instead of Lake Charles), attending Section meetings was a breeze. The programs have been varied, the meals have been at least edible and I have gotten to meet a lot of people from the Houston area. After attending for a year or two, I was asked to take on an appointed “assistant” position and have continued on from there.

I bring all of this up for two reasons. The first is that, while it may seem a pain to attend the monthly section meetings, the pain is relative. It's not likely to be a 4 hour round trip. For those who can't make lunch meetings, we do offer some dinner meetings. Come join us. The membership is as varied as the programs. The second reason is that we can always find a place for someone who would like to “test the water” as an officer. A number of the elected and appointed officers would love to have an assistant to help with planning and execution. If you find that you enjoy it, we can find something bigger and better for you to try. Give me a call or drop me a note if you are interested.

# Standards & Practices

Public review is currently underway for the following:

\*ISA-67.04.01, Setpoints for Nuclear Safety-Related Instrumentation.

The above documents (ZIP) and comment sheets are available for download and review from the ISA web site at <http://www.isa.org/standards/isareview>

Please return any comments on or before **FEBRUARY 24, 2006**. You may send comments via e-mail, postal mail, or fax your comments back to the address below:

Loanna Overcash  
Standards Administrator  
Tel: 919-990-9234  
LOvercash@isa.org  
ISA-The Instrumentation, Systems, and Automation Society  
67 Alexander Drive, Research Triangle Park, NC 27709  
Fax: 919-549-8288

Please feel free to forward the file to others who might have an interest.

Please contact Mike Cannon of the Houston Section at 713-928-3181 with any questions or write to: [mcannon@indecotx.com](mailto:mcannon@indecotx.com)



**Kudos to our new newsletter**

**Sponsors**

<b>THE B</b>	<b>Wendy K.B. Buskop</b> Managing Patent Attorney
<b>USKOP LAW GROUP, P.C.</b>	
Patents & Trademarks	
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**Houston**  
Section

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



**Monday, March 20, 2006**  
**Shotgun Start at Noon**  
**Kingwood Country Club**



**\$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				

#### ADVERTISE YOUR COMPANY WITH A HOLE SPONSOR SIGN!

\_\_\_\_\_ **Yes, I would like \_\_\_\_\_ Hole Sponsorships: \$125/Hole (\$100 with foursome)**

**Name on Sign:** \_\_\_\_\_

**If you are paying by check,**

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**

Credit Card Type (select one): *Mastercard, VISA, American Express*

Credit Card No.: \_\_\_\_\_

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.

**ISA** Connecting People and Ideas  
in Automation + Controls



**Kudos to our new newsletter**

**Sponsors**





## Houston Section

# Advertise where it counts!

If you would like to advertise in our newsletter, please contact Ken Belteau at [kbelteau@teppco.com](mailto:kbelteau@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*

February 1, 2006	5:30 pm	General Meeting / Bosses' Night
March 1, 2006	11:30 am	General Meeting
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*

February 10, 2006    5:30 pm    General Meeting

### 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**

John Campbell  
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### **PROGRAM DIRECTOR**

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### **VICE PRESIDENT**

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### **PUBLICITY DIRECTOR**

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### **PAST PRESIDENT**

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### **SECRETARY**

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### **ASSISTANT MEMBERSHIP DIRECTOR**

Michelle Blackburn  
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### **2006 HOST COMMITTEE CHAIR**

Doug Zimmerman  
Envalco Corporation  
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dzimmerman@mcjunkin.com

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

## APPOINTED POSITIONS

### PARLIAMENTARIAN

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### PIPELINE SUBSECTION LIAISON

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### ASSISTANT SPRING PROGRAM CHAIR

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### FALL PROGRAM CHAIR

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### MULTIMEDIA CHAIR

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Please feel free to call or email the officers listed above with any questions you may have, or for any assistance you need, or wish to offer. You can also send us an email through our website: [www.houstonisa.org](http://www.houstonisa.org). Bookmark us in your browser and check our site monthly for the latest updates and announcements!