



HOUSTON SECTION ELECTRO^Pnews

Meeting Notice NOVEMBER 6, 2002

Please RSVP by phone
to Ellsworth Young
at (281) 238-4974
or email
isaely44@msn.com
by November 4th

RSVP and get a
\$3 meal discount!

Location:
KBR TOWER
601 Jefferson Avenue
Houston, Tx 77001

Room Location:
Texas Room (in The Basement)

Parking Address:
KBR Tower Parking Garage
701 Jefferson Avenue
Houston, Tx 77001

Your Parking Permit Will Be Validated By KBR
Directions To Texas Room From Parking Garage:

- Take The Elevators To Concourse Level
- Take The Escalators Down To Basement
(you Have To Go Down Two Stories)
- We Will Put Signs Up For The Texas Room

Social Time: 11:15 am
Noon/Meeting: 11:45 am

*Complimentary meal
for new members*

*Spouses & family members are
welcome to the section meetings.*

ISA Houston Section General Meeting

Wednesday, November 6, 2002

**NOTE DIFFERENT LOCATION: KELLOGG BROWN & ROOT
(SEE SIDEBAR FOR DIRECTIONS)**

**Topic:
IT IS 10:00 P.M**

DO YOU KNOW WHERE YOUR CONTROL VALVE IS?

The point of this presentation is two fold:

- 1) To bring into the open the mis-match between what people perceive control valve movement to be and what real control movement is.
- 2) What DCSs ask of control valves and what control valves can actually do means there is ample opportunity right here to make impressive gains in our ability to control processes if only we could make some changes in that last link between the DCS and the control valve/positioner.

Discussion seeks to identify modifications to the DCS to bring it into a workable partnership with the control valves.

Our speaker, Peter Ginn, is a chemical engineering graduate of Imperial College, London. His investigative work on valve movement in real manufacturing processes led to his writing a book and obtaining a U.S. patent. During his career he has been able to contribute directly to the bottom line of both Dow Chemical and Solutia by creating control algorithms that truly improve a process's economics in a measurable way and at relatively low expense.

Ginn believes many manufacturing plants can improve their operating margins if proper attention is paid to the action, under process conditions, of one or two key control valves in the process. Determining if a process is a candidate for such an improvement can be done quickly, at low cost, and virtually zero risk.

He has taught process control courses for ISA at its headquarters in Raleigh and has published an article on MicroMotion mass flow meters in InTech.

His book, *An Introduction to Process Control and Minicomputers*, was made "book of the month" by McGraw-Hill's Chemical Engineer's Book Club.



ISO 9002 Certified

The EADS Company

P.O. Box 36448 (800) THE EADS
8020 Westglen 713/781-3000
Houston, TX 77236 FAX: 713/781-7902
www.eadslink.com

Instrumentation Products

Chessell
Enardo
ITT Conoflow
L & J Engineering
Marsh/Bellofram
Palmer
Penberthy
SOR
WIKA
Yamatake

Valves and Accessories

ABB
Bettis
Fulflo Specialties
ITT Engineered Valves
Kerotest
Matryx
Xomox/Tuffline
Westlock
Worcester Controls
Yamatake

Mechanical Products

Shand & Jurs
Spirax Sarco

PRESIDENT'S Corner

Are you taking advantage of all the benefits of being a member of the Instrumentation, Systems and Automation Society? Besides getting the opportunity to read these fine articles in your *Electro-Pneus*, the ISA offers countless opportunities for your membership dues.



Doug Zimmerman

Technical Information

You can view all of ISA's standards on the website for free. Or, you can buy the rights to download the standards for an additional \$25 per year. The ISA has over 140 committees working on standards in all areas of industry and is recognized as a leading standards-writing organization for control valves, fieldbus, electrical safety, environmental conditions, measurement, process safety, and symbols. ISA specification forms are now available on CD ROM in Microsoft Word format. And the popular ISA Process Safety Standards are now available on CD. You also receive professional publications like *InTech* and *Motion Control* Magazines.

Networking

As a member, you also have access to other ISA members through the website. You can network through the ISA annual conferences scheduled for Houston in 2003 and 2004. And you can join one of the 21 technical divisions, giving you global access to other ISA members who share your technical interest.

Professional Development

The ISA can help in your professional development in many ways but one of the first is through ISAjobs.org. Our website allows free resume posting and job placement opportunities in the instrumentation, control systems and automation fields. You can post job opportunities in the Houston area free in this newsletter (call Les). The ISA offers many instructor-led and web-based training courses. And you can hone your leadership skills by serving on the ISA Houston Section board. Board member positions change in June.

Personal Privileges

Some of the best kept secrets of the society are the personal privileges you receive as an ISA member. You can get discounted auto insurance through GEICO, long term care insurance through LTPC and group health and dental insurance through Seabury & Smith. The ISA offers a VISA card and members get special discounts on rental cars through Alamo and Avis.

What a bargain for you. If you are reading this newsletter and are not a member, consider joining on-line at isa.org. The cost per year is only \$72. And if you do, mention my name on the form. The ISA gives recruiting rewards, too!



- PROCESS CONTROLS & ANALYZERS
- FIRE & GAS DETECTION
- FLOW INSTRUMENTS
- LEVEL CONTROLS
- TEMPERATURE & PRESSURE INSTRUMENTS

Allesco

The Process
Specialty
Company

(713) 462-6200
P.O. BOX 40130 (800) 231-6460
HOUSTON, TX 77240 FAX: (713) 462-6249

IMPORTANT NOTICES

Including pass-along readership, this newsletter is read by nearly 5,000 instrument professionals. We welcome articles, letters, commentary, questions, (Got a control problem or question, one of our many readers probably has a solution.), etc.

Would you like to receive this newsletter sooner via e-mail or put it on your company's intranet?

DEADLINES: All submissions should be sent or emailed to the editor by the first of the month to be published in the following month's issue. All advertising inserts must be approved by the editor prior to publication.

Les Kane, Editor,

e-mail: les.kane@gulfpub.com,

tel: (713) 520-4485.



Density - Specific Gravity
Percent Solids - Percent Concentration - Viscosity
Solids Level - Liquid Level

Automation Products, Inc.

3030 Max Roy Street, Houston, TX 77008-9981 USA
Toll Free 800-231-2062 Fax 713-869-7332

FM

TALON Technical Sales

CE

Industrial Instrumentation for Physical Measurements

Temperature - Pressure - Flow - Force/Weight
RH - Moisture - Position - Vibration
Sensor - Transmitter - Indicator - Data Acquisition

Phone: 281-999-8588 Fax: 281-999-6179

Web Site: www.tintech.com

CENELEC

DNV



CRANIAL GAS

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

D*mned if you do, d*mned if you don't

How do you entice people to your website? How do you incorporate "stickiness" that makes people want to return? Technical material is one way (albeit possibly boring), humor can be another.

An associate is responsible for an intranet site. Like most internal sites, it's packed with information. The problem is, most people are already so overwhelmed with all of their other responsibilities and activities that they don't even have time to check it out, even if they've got a question that's answered online. This is naturally frustrating; people want material, you provide it, and then they don't use it. I used to maintain an internal site too, but I guess my quips of "Look dipsh*t, did you check online before you bothered to hassle me?" convinced my boss to curtail my involvement. Anyhow, my friend tried humor to see what impact, if any, it would have. He posted some rather humorous photos on his pages that indirectly related to the material posted.

It had impact all right. Instead of around 30 hits a month, he got over 200 the first day. People enjoyed it so much they told their coworkers about it. Considering that it was an internal site, one wouldn't think this would be so bad. Managers felt otherwise. The "unprofessionalism," combined with the distraction from peoples' other duties, only earned my friend a "cease and desist" order along with an official reprimand letter. Needless to say, viewership dropped back to 30 a month after that.

Oh well, it never hurts to try.

Disclaimer: This article does not represent the opinion of ISA, the Houston Section Board, or any person (living or deceased) that we know of.

Authors note: If you don't understand the humor, drink a bottle of tequila and read it again.

TURBULENT PLC MARKET POISED TO REGAIN LOST GROUND

According to ARC Advisory Group, PLC suppliers are worried. Rapid changes in computing and communication technologies, a strong user acceptance of open systems, the global economic slowdown, impact of events in 2001, and a small but growing threat from industrial PCs are combining to create turbulent market conditions and the threat of an uncertain future.

Turning the Tide. The PLC market will revive despite the global economic slowdown. Users need automation to improve productivity, reduce costs, and increase flexibility to meet varying demands. Seeds of revival are also present in the high pace of technological change as fears of obsolescence drive upgrade plans. In addition, the potential of reduced total cost of ownership with open connectivity and programming platforms stimulates demand for higher levels of automation.

The industrial PC is not yet a threat. Suppliers also need to view it as an ally, providing the hardware and software components to upgrade "traditional" PLCs out of the "outdated" label. Intelligent sensors and actuators are also not yet a threat, though increasing processing power at that level does make it possible to create complex automation systems with less PLCs that were required earlier.

Clients, on the other hand, need assurance that components have a proven history of having worked together, and that service support is available in case they do not. They are more comfortable in dealing with a single point of responsibility as it eases implementation, reduces downtime, and simplifies stocking, ordering and paying for spares.

The Product Mix Will Undergo Rapid Change. Decreasing costs of higher processing power, communications capabilities, and acceptance of open systems, go hand in hand with increasingly networked distributed automation systems.

As nano-PLCs (with up to 32 I/O) gain networking capability and micro-PLCs (up to 129 I/O) gain more sophisticated functionality, the tendency to replace larger PLCs by networked configurations of smaller PLCs will gain ground due to a number of advantages including reliability, simplified wiring, and scalability.

PLC suppliers also need to take note of advances in software, particularly the component-based, object-oriented concepts that allow clients to easily configure and use special functions that make PLCs do much more than logic control. A major resultant trend is toward including sophisticated motion and position control software, while another is toward providing web-enabled functionality such as web-based HMI, on-line upgrades, and remote troubleshooting. Different types of PLCs, software and services, will therefore rapidly grow or decline even though the overall market exhibits slow growth.

Further information can be found in ARC's study, "PLC Worldwide Outlook, Market Analysis & Forecast Through 2006." For information about the study visit: <http://www.arcweb.com/research/auto/plc-ww.asp>.

SECTION/DIVISION REPORT

NOVEMBER 2002



L.M. "Dutch" Keen

I guess that by the time this report is finally published the activities at **ISA/2002 in Chicago** will be history. And, might I add, that little bit of history will be great. The conference and exhibit should have been well worth everyone's attendance, and even though I realize that not all of you could make it, I hope that a lot of you attended, learned, and, because of that experience, will put ISA on the proverbial "**front burner**" and plan to attend next year's event in Houston.

What's that you say? "Next year is so far away! How can I even plan that when I don't know what will be what in my future?" Easy, you can decide now that you will want to participate. And then when the time comes for the ISA's **Call For Papers**, you will be ready, willing, and, since we already know that you are able, you will have it made! Yes, you will be ready to become one of hundreds of potential authors who will be planning to write and present a paper, a tutorial, or be part of a panel during next fall's conference. And what an exciting time will be had by all. The **Reliant Center** convention hall is new and a marvelous place for the venue, and I think that there will be a record-sized attendance. Now, it won't be entirely because you might have decided to spend your hard-earned time to research and write that paper, but with your talent and the talented contributions of others like you, success is just waiting to happen. So think about it and give yourself the opportunity to show just what you can do.

By the way, the technical opportunities presented this year in Chicago were part of the new awareness that exists in today's ISA. That illumination, that **star in the East**, so to speak, has brought a new clarity to just what sort of technical Society this is. You see, for a couple of years there was a trend toward the technical side of the exposition business and as a result, the historic contributions made by the more than **20 Divisions of the Society** were overlooked to say the least and consequently, the membership lost its recognition of the benefits of membership in a technical Division. That trend has been reversed now and most of the Divisions are enjoying new successes in membership.

If you're not a member of at least one Division in the **Automation & Technology Department** and one or two in the **Industries & Sciences Department**, now is the time to consider that step. It is probably close to the date of your Society dues renewal, so you should give a lot of thought to the advantages of complete membership by joining two or more Divisions. If you need more information about the I&S Divisions, contact **Larry Wells** at lewells@gapac.com. If you would like to be a part of one of the A&T Divisions, let me know at dutch.keen@att.net.

Till next month

L.M. "Dutch" Keen, P.E.

Section/Division Liaison



TRAINING CHALK TALK

On December 6th, the Houston ISA Section and the ISA headquarters are co-sponsoring a course in Houston, which should be of great interest in this area. The course is "ADVANCES IN CONTINUOUS EMISSION MONITORING (CEM) TECHNIQUES."

The course will identify regulations that mandate use of CEM systems. It will explain the applicability of analytical techniques and sampling of various components. In addition, technical and regulatory problems associated with monitoring emissions present at low concentrations will be addressed. Selecting equipment and quality assurance will be discussed.

You can get more data on this course and register at:
www.isa.org/training or visit our website: www.houstonisa.org.

Be sure to check our website for other classes being held.

I am looking for vendors who would like to partner with the Section in sponsoring some technical seminars. These seminars would normally take place at the vendor's selected location.

Call me and let's talk about the opportunity.

Conrad DeGrace 281-493-2002, cdegracesr@att.net

Rebecca Peterson 832-444-4037, rpeterson@horizonconsultants.com

UPCOMING LOCAL HOUSTON ISA COURSES

TI25, Installing, Calibrating and Maintaining Electronic Instruments, Oct 28 - Nov 1

For more information and registration details, visit: <http://www.houstonisa.org/education.htm#Houston%20Courses>

STUDENTS AND YOUNG PROFESSIONALS MENTORING PROGRAM

ISA has introduced a program - EACH ONE TEACH ONE.

Through this ISA program, students and young professionals can access the wisdom and expertise of seasoned ISA members. A mentor can help a student determine if a career in measurement and control is right for him or her.

Young professionals can connect with mentors for guidance in career and professional development.

Students and Young Professionals can select a mentor based on industry or technology expertise.

A complete list of current mentors can be found on our website www.houstonisa.org by selecting "Mentors" on the home page.

ISA—The Instrumentation, Systems,
and Automation Society 

Our October Meeting Featured a Presentation by Barry E. Baker with Industrial Networking Solutions, Inc. entitled, "Homeland Security: How Industrial Plants are Using Video Over IP to Monitor Plants and Equipment."



JOB POSTING

Work for a well-known Houston Company that stands out for its quality services and process control equipment products. Experience the best of both worlds as you apply your educational background and work experience to developing technical sales skills. No travel is required. Position requires a chem. E/EE with 1-3 years experience in a plant or E & C firm with exposure to instrumentation and automation with good people skills. Contact Sandy Martin tel: (800) 291-4710, email: smartin@rwr.com

MARKETING PROFESSIONAL AVAILABLE FOR WORK

As a sales and marketing professional, I have a 25-year track record for designing focused product marketing strategies that develop bottom-line results and drive some of America's largest industrial automation companies. My unique business value is the knowledge and experience that I bring to the partnership of promoting products and services in the power, hydrocarbon processing and oil & gas markets. I separate myself from the pack by applying Six Sigma techniques in the development of results-driven metrics, and providing feedback and enhancing my employer's marketing investment. If you are ready to take your company growth to the next level please contact me (Chuck Miller) at cmille2@houston.rr.com. Full-time/part-time/contract – OK.

EDITOR'S NOTE:

Are you looking for work? Are you an employer looking for people?
Email me (Les.Kane@gulfpub.com) and we will try
to include your message in the next newsletter.

Standard & Practices

Public review is currently underway for the following ISA Draft Standards:

- ANSI/ISA-75.11-1985 (R1997), "Inherent Flow Characteristic and Rangeability of Control Valves"

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

Please contact Mike Cannon at 713-928-3181 with any questions or write to: mcannon@indecotx.com.

CALENDAR OF EVENTS

Houston ISA Pipeline Subsection Meetings Calendar At the HESS Club – 5430 Westheimer – unless noted

November 13, 2002

Variable Speed Power Transmission • Speaker: David Attwood

December 4, 2002

Pipeline Integrity & Process Safety
DOT Operations Guidelines and Regulations
Speaker: Richard Huriaux

January 8, 2003

6th Annual Measurement Seminar
Keynote Speaker: Kenneth Elliott
Individual Seminars to follow Speaker

February 12, 2003

Terminal Automation with Integration to Tank Gauging
& Product Accounting • Speaker: Milton Page

March 12, 2003

Annual Scholarship Shrimp Boil &
Tabletop Show at Saint Arnold Brewing Company

April 9, 2003

Plant Tour – Reliant Park

May 21, 2003

Scholarship Awards • Speaker – NASA Representative

For the latest information please visit our website at:
www.isa.org/~pipeL

ISA Houston Section General Membership Meetings At the HESS Club – 5430 Westheimer – unless noted

November 6, 2002 (lunch) at Kellogg Brown & Root

December 4, 2002 (lunch)

Joint Meeting With Pipeline Subsection
Topic: DOT Operations Guidelines & Regulations,
Including Article 49CFR
Speaker: Richard Huriaux

February 5, 2003 (evening) Management (Bosses) Night

Topic: Project Development: Conception to Startup
Speaker: Mohssine Rhazi,
Senior Process Control Systems Engineer, Bayer Corp.

March 5, 2003 (lunch)

March 3, 2003 Golf Tournament at Kingwood Country Club

April 2, 2003 (lunch)

May 7, 2003 (lunch)

June 4, 2003 (lunch)

ISA Houston Analysis Subsection Meetings At Ramada Inn, Hwy. 225 @ Richey, Pasadena

December 18, 2002

5:30 p.m.

February 19, 2003

5:30 p.m.

April 16, 2003

5:30 p.m.

June 18, 2003

5:30 p.m.

ICCS monthly meetings are generally held on the
2nd Tuesday of each month at the HESS Building
from 5:00 pm to 7:00 pm.

Place and time subject to change.
Contact Jeannie Byford or Billy Adney
at (979)265-5556 ext. 100 or automation@manganinc.com

Visit ISA Headquarters Website www.isa.org

For More Meetings And Information. Also, By The Time You
Get This Our Online-Only District 7 Newsletter Should Be
Available. For Articles And To Learn More About The
Activities Of Our District Visit:
www.isa.org/MSTemplate.cfm?MicrositeID=553&CommitteeID=5245 and click on "District Newsletter, Fall 2002."

Miscellaneous Dates of Interest

2003 – May 04-08 Aerospace Industries, Test Measurements Divisions' 49th International Instrumentation Symposium Orlando, FL

2004 – May 02-06 Aerospace Industries, Test Measurements Divisions' 50th International Instrumentation Symposium Dallas, TX

2005 – May 01-05 Aerospace Industries, Test Measurements Divisions' 51st International Instrumentation Symposium Las Vegas, NV

Analysis Division Spring Symposium Meeting Schedule

2003 - Apr 06-10 - 48th Annual Calgary, AB, Canada
2004 - Apr 18-22 - 49th Annual Cincinnati, OH/Lexington, KY
2005 - Apr 10-14 - 50th Annual Research Triangle Park, NC
2006 - Apr 02-06 - 51st Annual New Orleans, LA
2007 - Apr 15-18 - 52nd Annual Houston, TX
2008 - Apr 2008 - 53rd Annual Newark, DE
2009 - Apr 2009 - 54th Annual Baton Rouge, LA
2010 - Apr 2010 - 55th Annual San Antonio, TX

ISA International Fall Conference & Exhibit Schedule

2003 - Oct 20-23 ISA/2003 Conference & Exhibit Reliant Hall Houston, TX
2004 - Sep 20-23 ISA/2004 Conference & Exhibit Morial Convention Center New Orleans, LA
2005 - Nov 07-10 ISA/2005 Conference & Exhibit McCormick Place North Chicago, IL
2006 - Oct 16-19 ISA/2006 Conference & Exhibit George R. Brown Houston, TX
2007 - ISA/2007 Conference & Exhibit McCormick Place Chicago, IL
2008 - ISA/2008 Conference & Exhibit Brown or Reliant Houston, TX
2009 - Oct 05-08 ISA/2009 Conference & Exhibit McCormick Place North Chicago, IL
2010 - Oct 13-16 ISA/2010 Conference & Exhibit Morial Convention Center New Orleans, LA



INDUSTRIAL EQUIPMENT Co. of HOUSTON

ELECTRICAL * INSTRUMENT * COMBUSTION

713-928-3181

FAX 713-928-9964

ASCO
FIREYE
FORNEY
HONEYWELL
MAXON

LaMARCHE MFG.
MARSH/BELLOFRAM
MERCROID/DWYER
MICRO SWITCH
POWER FLAME

www.indeco-tx.com

1-800-275-3181

sales@indeco-tx.com



ANALYZER SALES & RENTALS

10410 Rockley Road Houston, Texas 77099
281-498-5855 Fax: 281-498-2134 1-800-323-6527

Barton INSTRUMENT SYSTEMS, LLC

PROVIDING INSTRUMENT SYSTEMS SOLUTIONS

Barton Instrument Systems Fairchild Corp.
ITT Neo-Dyn McCrometer
Oilgear Ball PGI International
Rohrbach/Cosasco
PH: 713/682-1291 FAX: 713/682-2018

PANAMETRICS

221 Crescent Street, Suite 1, Waltham, Massachusetts 02453-3497
Tel: 781-899-2719 | Toll Free: 800-833-9438 | Fax: 781-894-8582 | www.panametrics.com

MOISTURE ANALYZERS

- Aluminum Oxide Hygrometers for trace moisture in gases and liquids

OXYGEN ANALYZERS

- Paramagnetic, electrochemical, and zirconium oxide technologies for ppb to percent measurement

TRANSIT-TIME ULTRASONIC FLOWMETERS

- clamp-on and wetted transducers
- liquids, gas and steam applications

TRH METERS

Southwest Sales Office: 7255 Langtry Street, Suite 100, Houston, Texas 77040
Tel: 713-464-7641 | Toll Free: 800-388-2096 | Fax: 713-464-1472

PSA, INC. 7800 BISSONNET, SUITE 330
CALIBRATION SPECIALIST HOUSTON, TEXAS 77074

ALTEK - Process Calibrators

MERIAM - Pressure Calibrators

TRANSCAT - Testing & Calibration, ISO 9002

Certified, Mobile, On-Site, In Shop

SMART SENSORS - RTD's, Thermocouples,

Thermowells

(Same day service available)

PRECISION FLANGE - Orifice Flanges, Plates,

Venturis, Flow Nozzles

(Same day service available)

(713) 541-2584 or (800) 856-2586 Fax (713) 541-0009

HOUSTON-FREEPORT-BEAUMONT-DALLAS-FT. WORTH



Flow Computers/Controllers
for Measurement and SCADA

Measure the Difference!™

Omni Flow Computers, Inc.
Phone: 281-240-6161 Fax: 281-240-6162



P.O. BOX 218309
HOUSTON, TEXAS 77218
PHONE (713) 464-8587
FAX (713) 468-8810

Hazardous Location
Air Conditioners, Vent Fans,
Pressurizers
● CSA Certified ●

MARTIN COMPANY
ELECTRONICS ENGINEERS & PRODUCTION
HARDWARE-SOFTWARE-ANALOG-DIGITAL
281-342-7431

From Design to Manufacturing

email@martincomp.com <http://www.martincomp.com/>



Just PLCs.
Just Programming.
Just Right.

Connell and Associates
281-494-4PLC



Engineering & Construction www.Contech.net

The second Sensors for Industry Conference and Exhibition (SIcon/02) will explore the same key sensor and transducer technologies as the popular SIcon/01.

Share your experience with and knowledge of sensors by presenting
at SIcon/02 in Houston, Texas, November 19-21.

Presentations can relate to any of the following:

- transducer theory and design
- multi-sensor fusion and hybridization
- smart sensors and systems
- innovative and unique sensors
- sensor systems interface/networking
- calibration systems
- sensor/systems applications
- techniques for proper use (tuning)

For complete details on SIcon/02 (co-sponsored by ISA and IEEE)
including presentation submission guidelines visit
<http://www.isa.org/rd.cfm?id=247>

Advertising Rates for Houston Section Electro Pneus

Advertising Rates for 2002
ISA Houston Section
Electro Pneus
are as follows:

\$390.00 - Single Ad Space
\$700.00 - Double Ad Space
\$995.00 - Triple Ad Space

\$500.00/monthly insertion -
(8 1/2 x 11" format)
\$700.00/monthly insertion -
(11 x 17" format)

For more information,
contact Paul Dougherty at
713-845-5410



Specializing in the Design and Manufacturing of:

- Control Buildings
- PLC Panels
- Marshalling Bldgs.
- Marshalling Panels
- MCC Buildings
- Relay Panels
- DCS Buildings
- Junction Boxes

1760 Stebbins Dr.
Houston, TX 77043

Ph. (713) 465-7591
Fax (713) 465-7664

WILSON-MOHR

Controls Solutions

Pressure, Level, Temperature, Flow, Analytical,
Valves, Automation, Design, Engineering
800/324-8850 • www.WilsonMohr.com

Scaleable Safety Systems, Critical Control High Availability

Using standard off-the-shelf PLC hardware



90/70 GMR (TMR), and CIMPLICITY† HMI
GE Supply Automation • Phone: (713) 939-5102

ANALYZERS H₂S CO₂ SULFUR

MONITORS H₂S LEL CO SO₂ O₂

ANALYTICAL SYSTEMS INTL.
www.ASIWebPage.com

E Mail: Sales@ASIWebPage.com
Fax 281-351-8925 P: 281-255-6537

Thermo-Temp INCORPORATED

813-A Woodcrest (713) 695-1939
Houston, TX 77018 Fax (713) 695-3001

SALES, SERVICE,
INSTALLATION & REPAIR
for over 20 years

FIELD & LAB CALIBRATIONS

- Recorders & Controllers
- Calibrators & Potentiometers
- Thermocouples & RTDs
- Thermometers
- Multimeters
- Non-Contact Temperature Devices
- Pressure Gauges & Recorders
& Transducers
- Temperature Uniformity Surveys
- Control Panels
(Design, Assembly & Retrofit)

We Measure Up To Your Success!



INCORPORATED

INSTRUMENTATION AUTOMATION VALVES & SPECIALTIES

"QUALITY BEYOND SATISFACTION"

4940 Timber Creek, P.O. Box 12777, Houston, TX 77217
(713) 944-2100 • TX WATS (800) AWC-INFO • Fax (713) 944-8212

Process Measuring Solutions

For measuring level, flow, pressure, moisture, & liquid analysis,
and a complete line of process recorders & indicators.

Endress+Hauser Houston

2901 West Sam Houston Parkway North
Suite C-250
Houston, TX 77043
phone: 832-590-6200
fax: 832-590-6202

Endress+Hauser

Nothing beats know-how



The Transmitter Shop
www.xmittershop.com

Factory New:

Omnex Wireless Radio Transmitters
for Process, WIK A
Reconditioned & New Surplus:
Fisher-Rosemount, Foxboro,
Honeywell

Phone: 281-487-3115 * Fax: 281-487-3478



BUTLER & LAND, Inc.

ELECTRICAL TEST EQUIPMENT
PROCESS CONTROL INSTRUMENTATION
SENSORS

DALLAS HOUSTON NEW ORLEANS TULSA

(713) 896-0808

BOX 40996
HOUSTON, TX 77240
1-800-392-9837

10900-J BRITTMORE PARK DR.
HOUSTON, TX 77041
FAX # (713) 896-8380

EMAIL: houstonales@butlerandland.com

VISIT OUR WEBSITE AT www.butlerandland.com



ANDERSON GREENWOOD CROSBY

tyco low control

Pressure Relief Valves - Section I, II, & VIII
Tank Valves & Blanketing Regulators
Instrument Manifolds & Valves - Thermowells

A-G Safety Sales & Service

10151 Harwin, Suite 120 • Houston, Tx 77036
Phone: 713-773-3565 • Fax: 713-773-3553



P. O. BOX 2003 SUGAR LAND, TEXAS 77487

AMTEK/PANALARM DIVISION

Annunciators

BADGER METER/RESEARCH
1/4" thru 2" Control Valves

DATA INSTRUMENTS
Pressure Sensors

FIKE METAL PRODUCTS
Rupture Disks

IBOCO-WIRE DUCT

INTEK
Flowmeter

OPTECH

Laser Level Systems

PEPPERL+FUCHS
Purge Systems & Barriers

RITTAL

Enclosures

TN TECHNOLOGIES
Level and Density

TRU-TECH INDUSTRIES
Diaphragm Valves

WEIDMULLER
Terminals

OFFICE (281) 240-4505 • FAX (281) 240-7659

HIMA-AMERICAS INC.

10801 Hamerly
Suite 130
Houston
Texas 77043

HIMA-AMERICAS INC.

Tel: 713/464-3277

Fax: 713/464-8140 Safety & Industrial Automation

TYCO VALVE AUTOMATION, INC.

The Quarter-Turn Solution
For Valves, Actuators & Controls

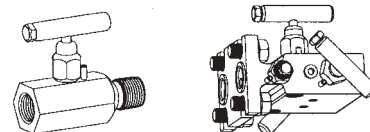
1102 Howard Avenue
Deer Park, Texas 77536

Phone: (281) 930-9355 Fax: (281) 930-0166
Deer Park • Houston • Freeport

Rawson

INSTRUMENTATION,
CONTROLS, VALVES,
AND SPECIALTY
PRODUCTS

713 684-1400 Tel
713 694-1409 Fax



- Instrument Manifolds
- Direct-Mount™ Systems
- Instrument Hand Valves
- Instrument Gauge Valves
- ANSI B31.1 2500# Class
Valves and Manifolds



PGI International
Excellence Through Innovation

713-744-9713

GOYEN

EMISSION MONITORING

Opacity & Triboelectric Particulate Monitors

Complete Systems Solutions

Oxygen Analyzers

H₂S Analyzers

Portable Gas Analyzers

SO_x Analyzers

NO_x Analyzers

Combustion Efficiency Monitors

CO & CO₂ Analyzers

Hydrocarbon Analyzers

Tyco Environmental Systems Tel: (818) 713-2514 Fax: (818) 713-2554

ISA Houston Section 2002-2003 Officers

PRESIDENT

Doug Zimmerman
Envalco Corp.
281-447-4200
dzimmerman@envalco.com

VICE PRESIDENT

Rick Williams
Rawson, Inc.
713-684-1448
rickwilliams@rawsoninc.net

TREASURER

Dennis Kunz
Shell Pipeline Co.
713-241-3933
dckunz@equilon.com

ASSISTANT TREASURER

Dale Merriman, CSAT
MerTech
713-978-7765
dmerrmti@aol.com

SECRETARY

John Campbell, P.E.
Conoco
281-293-1465
john.r.campbell@usa.conoco.com

PROGRAM DIRECTOR

Doug Berry
Flow Solutions, Inc.
713-939-7000
dberry@flowsolutionsinc.com

ASSISTANT PROGRAM DIRECTOR

C K Patel
Kellogg, Brown & Root
713-753-3827
chandrakant.patel@halliburton.com

MEMBER/VENDOR DIRECTOR

Don Kincaid
TEPPCO
713-759-3638
dkincaid@teppco.com

EDUCATION DIRECTOR

Conrad DeGrace
Training Professionals Ltd.
281-493-2002
csds@flash.net

ASSISTANT EDUCATION DIRECTOR

Rebecca Peterson
Horizon Consultants
832-444-8353
rpeterson@horizonconsultants.com

MEMBERSHIP DIRECTOR

Jonathan Pollet
Plant Data Technologies
832-496-9432
jgp@plantdata.com

PUBLICITY DIRECTOR

Paul Dougharty
S&B Engineering
713-845-5410
rpdougharty@sbec.com

NEWSLETTER EDITOR

Lester Kane
Hydrocarbon Processing
713-520-4485
kaneles@gulfpub.com

PAST PRESIDENT

Dale Merriman
MerTech
713-978-7765
dmerrmti@aol.com

NATIONAL DELEGATE

Gwen Syzdek
Fisher-Rosemount
281-274-0572
gwen.syzdek@emersonprocess.com

WEB MASTER

Paul Gruhn, P.E.
Siemens
713-666-7686
paul.gruhn@sea.siemens.com

APPOINTED POSITIONS

PARLIAMENTARIAN

Lester Kane
Hydrocarbon Processing
713-520-4485
Kaneles@gulfpub.com

STANDARDS & PRACTICES

Michael D. Cannon
Industrial Equipment Co.
713-928-3181
macannon@indico-tx.com

SECTION-DIVISION LIAISON

L.M. "Dutch" Keen
Retired
713-436-9777
dutch.keen@worldnet.att.net

STUDENT SECTION LIAISON

Mary Cousins
Tyco Valve & Controls
281-274-4533
mcousins@tycovavles.com

ANALYSIS SUBSECTION LIAISON

Dale Merriman, CSAT
MerTech
713-978-7765
dmerrmti@aol.com

ICCS SUBSECTION LIAISON

Nigel D. James
James-Mangan Automation
979-265-5556
Njames@manganinc.com

PIPELINE SUBSECTION LIAISON

Charles H. Heywood III
Heywood & Associates, Inc.
281-440-1246
cheywoodiii@usa.net

SPRING PROGRAM CHAIR

Mary Carmichael
Rawson, Inc.
713-684-1450
MaryCarmichael@rawsoninc.net

FALL PROGRAM CHAIR

Robyn McRae
TALON Technical Sales
281-999-8588 x 207
robbyn@talon.biz

COMMUNICATION LIAISON

Mary Cousins
Tyco Valve and Controls
281-274-4533
mcousins@tycoepg.com

PHOTOGRAPHER

Open

ASST WEBMASTER

Marty Martin
Air Liquide
arnold.martin@airliquide.com

ASST NEWSLETTER EDITOR

Dean Sylvia
Controlotron Corporation
832-721-2528
dsylvia@controlotron.com

ASST MEMBERSHIP DIRECTOR

Stacey Waldkirch
Toromont Process Systems
281-345-5011
Swaldkirch@toromontprocess.com

ASST VENDOR MEMBER DIRECTOR

Monica L. Hamlin
Duke Energy
281-424-6826
mlhamlin@duke-energy.com

ADMINISTRATIVE ASSISTANT

Ellsworth Young
Retired
281-238-4974
E.L.Y.-Young@worldnet.att.net

MULTIMEDIA CHAIR

Grant Duffin
KBR, "We Deliver"
713-753-6267
grant.duffin@halliburton.com

> **Point of Pain:**

"I can't get my sales force all working off the same page."

> **The Selltis Solution:**

"Selltis creates one common database for your entire sales team."



1-888-578-7874
www.selltis.com



The best selling software.



**ISA—The Instrumentation, Systems,
and Automation Society**

Houston Section
1919 Mistyvale Ct.
Richmond, Texas 77469

TIME VALUED MATERIAL

STANDARD
PRESORT
U.S. POSTAGE
PAID
HOUSTON, TX
PERMIT NO. 8254