

The South Texan

2003 Marx Isaacs Award for Outstanding Large Section Newsletter

Voted "Best Newsletter" at 2009 AIChE Leadership Development Conference



Meeting Sponsor



Inside this issue:

Workshop Details	2
Meeting Details	3
It's Awards Time!	4
Nomination Form-Page1	5
Nomination Form-Page2	6
Process Development Workshop	7
Volunteers Needed — 2010 OTC	7
From the Incoming STS-AIChE Chair	9
December Meeting (Pics)	11
Letter From YP Chair	11
YP Board and Events	12
Volunteer Opportunities	13
Chemical / Engineering Opportunities (C/EO)	14
Contact Information	15
Subscribe/Unsubscribe	15

Monthly Meeting January 14, 2010

Location: Brady's Landing Restaurant

Meeting Time: 7.00 pm (Social Hour starts at 6.00 pm)

This month's meeting is sponsored by URS Corporation. Thanks for your sponsorship!

Cap & Trade – Welcome To The Coming Carbon-Constrained World

Speakers: Mark Lockhart and Ron Crum, URS Corporation

This presentation will begin with a broad overview of the status of current Greenhouse Gas (GHG) legislation, 2010 Monitoring, Recordkeeping and Reporting rule (MRR) requirements, Cap and Trade credit markets and the implications to Refinery and Petrochemical operating facilities. In this presentation, a practical overview will be provided for the steps the operator can take to reduce allowance costs and/or CO₂ emissions. A comparative analysis will be provided for replacing an aging, low efficiency boiler with a Cogeneration unit. This presentation will conclude with an overview of the steps that are imperative for an industrial facility to take now to prepare for the future.

Bio

Mark W. Lockhart, P.E - Mr. Lockhart is Technology Director for URS Corporation and has over 30 years of experience in the refining and petrochemical industry. He started his career as a plant process engineer before moving to engineering and licensing companies. Mr. Lockhart has extensive experience in process engineering including plant operations, process engineering design, process development and working in the process licensing industry. Mr. Lockhart is a graduate of the Colorado School of Mines with a degree in Chemical and Petroleum Refining Engineering.



Ron B. Crum - Mr. Crum is V.P. Louisiana Operations for the environmental group in URS Corporation. He is a member of the National Petrochemical and Refinery Association (NPRA) Environmental Committee. Mr. Crum has over 30 years of experience and has worked in all aspects of the environmental industry.



New STS Website

The New Year brings with it a new STS website. Pre-registration for the January meeting is now open through the new site at: <http://sts.aiche.org/>. You will find a link for dinner meeting pre-registration from the home page, together with additional details of the meeting program. After you have pre-registered, take a look around the new website. You will find lots of interesting features, including information from both STS-AIChE and the AIChE national organization.

Workshops begin at 5:30 PM (Workshops are free and open to public)

Engineering Ethics workshop

Speaker: Alan Rossiter

Professional Ethics: They Did What??

Professional Engineers in Texas require a minimum of 1 professional development hour (PDH) of study per year "in the area of professional ethics, roles and responsibilities of professional engineering, or review of the Texas Engineering Practice Act and Board Rules." This workshop is designed to meet this requirement. *They Did What??* examines reported violations of the Texas Engineering Practice Act and Board Rules, and associated enforcement actions, in 2009. This includes examples related to failure to register an engineering firm, action in another jurisdiction, lack of care & diligence, unlawful representation as a professional engineer, failure to act as a faithful agent, inappropriate use of an engineering seal, fraud, and felony conviction.

Bio: Alan Rossiter is President of Rossiter & Associates (4421 Darsey Street Bellaire, TX 77401, USA, Tel: 713-660-9503; Fax: 713-669-1987; E-mail: alan@rossiters.org), an industrial process improvement consulting company working primarily in the field of energy efficiency. In addition to consulting projects for companies such as ExxonMobil, ConocoPhillips and Sasol, he provides training courses in pinch analysis and energy management. He also runs courses in communication skills, engineering ethics and professional excellence, and he is the 2010 Chair of STS-AIChE.

Dr. Rossiter was born and raised in Rhodesia (now Zimbabwe), and received his B.A., M.Eng. and Ph.D., all in chemical engineering, from the University of Cambridge, England. He has more than 30 years of process engineering and management experience and more than 50 publications, including the recent book *Professional Excellence: Beyond Technical Competence* (AIChE-Wiley).

PSM Workshop

Speaker: Vic Edwards, PhD, PE from Aker Solutions

DESIGNING INHERENTLY SAFER PROCESS PLANTS

By designing and building plants that are inherently safer (IS), failure of controls and human error will have much less impact. But when designing for IS, a brief survey indicates that only a few of the IS principles are applied. It will be shown that opportunities exist as there are at least three often overlooked possibilities for inherently safer processes.

Methods will also be proposed to ensure integration of inherently safer principles beginning with process conception and continuing through process plant engineering design. Particular emphasis is given to matching the inherently safer principles with the state of the project. For example, substitution is best applied during product and process research while limitation of effects is best done during plot plan layout and equipment arrangement.

Bio: Vic Edwards, PhD, PE, is Director of Process Safety for Aker Solutions US, Inc. (Houston, TX) where has worked for 27 years. He is responsible for health, safety, and environment in design. His project assignments have included biochemical and chemical processes, biomass energy resources, liquefied natural gas, chemical weapons demilitarization, hazardous waste disposal, and offshore hydrocarbons facilities.

Dr. Edwards has received three DuPont awards for safety and environmental engineering excellence and two DuPont awards for health, safety, and environmental excellence during 26 years as an alliance engineering contractor. He was named employee of the year by his company and his Houston HSE team was recognized with the Process and Construction Excellence Award for HSE in Design.

Vic has contributed more than sixty publications to the engineering literature, including several book chapters. He chaired the 1992 Process Plant Safety Symposium and the 1997 International Plant Operations and Design Conference. Vic chairs the Technical Advisory Committee at the Mary Kay O'Connor Process Safety Center. He also serves on the Editorial Advisory Board of *CHEMICAL PROCESSING* magazine. Edwards earned his B. A. from Rice University and his Ph. D. from the University of California at Berkeley; both degrees in chemical engineering. A registered professional engineer in Texas, he is an AIChE Fellow, and a member of ACS, AAAS, NFPA, NSPE, and the New York Academy of Sciences.

Meeting Registration Information

Membership in STS-AIChE is a bargain at \$20/year. If you wish to become a member, you may join at the registration desk at the January meeting.

	Pre-Registration Members	Pre-Registration Non-Members	At the door Members	At the door Non-Members
Regular/Retired	\$15	\$20	\$25	\$30
Student/Unemployed	\$10	\$15	\$20	\$25

NOTE: You have until 4 PM CST on Jan 13th to pre-register online. After that, you will be required to pay the higher cost at the door.

Pre-registration for the meeting is now open through our new website at:

<http://sts.aiche.org/content/meeting-pre-registration>

Meeting Location—Brady's Landing Restaurant

This month's meeting will be held at [Brady's Landing Restaurant](#) (8505 Cypress St, Houston, TX - 77012) Double click on the map to the right for directions from your location.



Future Meetings

Date	Sponsor	Location	Dinner Speaker Topic	Speaker	Workshops
January 14, 2010	URS	Brady's Landing	Cap & Trade – Welcome To The Coming Carbon-Constrained World	Mark Lockhart	yes
February 4, 2010	Shaw Energy & Chemicals	Marriott West-chase	New Energy Technologies to Reduce Emissions	Stan Knez	yes
March 4, 2010	Multiple	Brady's Landing	Fuel Cells and the Hydrogen Economy	tbd	Energy Forum
April 8, 2010	tbd	Pelazzio	tbd	tbd	yes

News from Other Professional Societies

Interested in more information on greenhouse gas emissions? The Air & Waste Management Association is holding its **13th Annual A&WMA Hot Air Topics Conference** at **Brady's Landing** from **8:00 – 4:30** on **Thursday, January 14, 2010**. Visit the A&WMA Gulf Coast Chapter's website at <http://www.awma-gcc.org/> for more details.

It's Awards Time!

It is once again time to nominate an STS member for our annual awards for 2009:

- Outstanding Young Professional Award
- Distinguished Service Award
- Best Fundamental Paper
- Best Applied Paper Award

For requirements of each award, visit the web page: <http://sts.aiche.org/content/awards>. The page provides a summary of the awards, and contains links to more detailed descriptions of each award.

To nominate a member for an award, complete the online form at the web page

<http://sts.aiche.org/webform/award-nominations>.

If you do not have web access or prefer the printed form, print out the forms from next two pages.

What can CHEMCAD do for you?

More than you might think.

Process simulation of two-phase pipe flow in networks:

- Rigorous phase equilibrium and thermophysical properties
- Rigorous pressure drop and heat exchange
- Steady-state or dynamic systems
- Relief calculation using DIERS

All using CHEMCAD's single graphical interface! Try it free* at chemstations.com or call 1.800.CHEMCAD for details.

*Certain restrictions apply.



Engineering advanced



- Environmental Evaluation/Planning and Greenhouse Gas Benchmarking
- Technical Services
 - Energy reduction
 - Plant optimization and debottlenecking
 - Safety and relief systems
 - Maintenance assessment
- Refinery Planning
 - Configuration optimization
 - Economic analysis
 - Objective technology selection and licensor evaluation
- Regulatory Permitting
- Project Development
- Feasibility and Scoping Studies
- Process Design Packages
- Detailed Engineering
- Procurement
- Construction/Construction Management
- Commissioning and Start-up
- Decommissioning and Removal
- Operations and Maintenance (including Small Capital Construction)
- Turnaround
- Site Remittance/Remediation

REFINING AND PETROCHEMICALS

With more than 80 years of continuous participation in the oil, gas, and chemicals industries, URS provides the talent, innovation, and proven performance to deliver tailored solutions that enhance client capital investments.

URS

ogcinfo@urscorp.com • 1.877.278.3127
www.urscorp.com

South Texas Section – AIChE - 2009 Annual Awards Nomination Form (Page 1 of 2)

THIS NOMINATION FORM MUST BE RECEIVED BY APRIL 17, 2010 TO BE ACCEPTED!

E-mail the completed form to:

Thomas E. Menn	or	Easwar S. Ranganathan, Ph.D.	or	Anand Nilekar, PhD
P. O. Box 458		Shell Global Solutions (US) Inc.		Research Engineer, Catalytic Cracking.
Pearland, Texas 77588-0548		Westhollow Technology Center, MP-116		Shell Global Solutions (US) Inc.
Tel: 281-485-3719		3333 Highway 6 South		Westhollow Technology Center
ThomasMenn@SBCGlobal.net		Houston, Texas 77082		3333 Highway 6 South
		Tel: 281-544-8002		Houston, Texas 77082
		Fax: 281-544-6218		Tel: 281-544-6289
		Easwar.Ranganathan@shell.com		Anand.Nilekar@Shell.com

Once the nomination is submitted, you will receive an email from the STS Awards Committee confirming receipt of the nomination.

NOTE: ONLY ONE PERSON OR PAPER MAY BE NOMINATED PER FORM!

NOMINATOR'S NAME: _____
ADDRESS: STREET: _____
CITY: _____ STATE: _____ ZIP CODE: _____
TELEPHONE NUMBER: (_____) _____
EMAIL ADDRESS: _____

I wish to nominate _____
(Enter Name of Nominee or Title of Paper on the above line.)

ENTER CONTACT INFORMATION FOR NOMINEE OR AUTHOR:

NOMINEE or AUTHOR'S NAME: _____
ADDRESS: STREET: _____
CITY: _____ STATE: _____ ZIP CODE: _____
TELEPHONE NUMBER: (_____) _____
EMAIL ADDRESS: _____

TYPE OF NOMINATION: (PLEASE CHECK ONLY ONE SPACE BELOW.)

_____ 2009 STS Outstanding Young Professional Award (Under age 35)*
_____ 2009 STS Distinguished Service Award (Over age 35)*
_____ 2009 STS Best Fundamental Paper Award (Please complete page 2)
_____ 2009 STS Best Applied Paper Award (Please complete Page 2)

*For STS Outstanding Young Member or Distinguished Service Awards, please provide a supporting document stating the reason you feel that this person is deserving of this award. E-mail the completed form and recommendation to one of the addresses above.

South Texas Section – AIChE - 2009 Annual Awards Nomination Form (Page 2 of 2)

Please enter the name of the Best Paper again: _____

(Sorry to trouble you but this is in case the sheets get separated.)

Enter the contact Author's name again: _____

(Sorry to trouble you but this is in case the sheets get separated.)

FOR BEST PAPER NOMINATIONS, LIST THE NAMES OF THE AUTHORS AND CHECK ALL BLANKS THAT APPLY:

MEMBERSHIP

Note: At least one author must be an STS Member. AIChE STS

Co-Author #1: _____

Co-Author #2: _____

Co-Author #3: _____

Co-Author #4: _____

Co-Author #5: _____

Co-Author #6: _____

Co-Author #7: _____

Co-Author #8: _____

[Add additional authors on an attached sheet if necessary.]

For Best Paper nominations, please provide following information:

NAME OF PUBLICATION: _____

DATE OF PUBLICATION: _____

VOLUME NO. (if known): _____ PAGES: _____ to _____

PLEASE ATTACH AN ELECTRONIC VERSION (*.PDF) OF THE PUBLISHED ARTICLE.

Once the nomination is submitted, you will receive an email from the STS Awards Committee confirming receipt of the nomination.

Coming Up in February! Professional Development Workshop

The Professional Development Workshop on Business Etiquette by Ms. GiGi Lewis is designed to benefit both senior executives and young professionals (YPs).

This interactive and laughter-filled presentation will cover essential etiquette dos and don'ts, including common faux pas when on the subjects of formal introductions, business cards, dressing for success, client meetings, awkward moments, company parties and meals, etc.

Ms. Lewis is the National Founding Director of [Club Etiquette](#) and has been teaching social and business etiquette since 1995. Please join us on February 4, 2010 and don't forget to bring in your business cards for your chance to win a free Dining Etiquette session sponsored by Club Etiquette.

Volunteers Needed—2010 OTC

The 2010 Offshore Technology Conference will be held 3-6 May at Reliant Park. The South Texas Section is scheduled to chair the 2010 OTC Arrangements Conduct Committee.

Volunteers will receive a complimentary OTC registration and a free parking pass (good for the entire OTC) for attending an orientation meeting the week before (to pick up badges and parking passes) and for contributing about four hours time to the Arrangements Conduct Committee during the OTC.

For information contact: Thomas E. Menn, P.O. Box 458, Pearland, Texas 77588-0458. Tom's phone number is 281-485-3719 and his e-mail address is thomasmenn@SBCglobal.net.

HTRI **Xchanger Suite®**

CAPE-OPEN Compliant!

HTRI *Xchanger Suite®* – an integrated, easy-to-use suite of tools that delivers accurate design calculations for

- shell-and-tube heat exchangers
- jacketed-pipe heat exchangers
- hairpin heat exchangers
- plate-and-frame heat exchangers
- spiral plate heat exchangers
- fired heaters
- air coolers
- economizers
- tube layouts
- vibration analysis

Interfaces with many process simulator and physical property packages either directly or via CAPE-OPEN.

Heat Transfer Research, Inc.
150 Venture Drive
College Station, Texas 77845, USA

HTRI@HTRI.net
www.HTRI.net

Heat Transfer Research, Inc. (HTRI), a global engineering research and development consortium—with over 1000 members and affiliates—conducts application-oriented research and uses this proprietary research data to develop methods and software for the thermal design and analysis of heat exchangers and fired heaters.

**—IMMEDIATE FULL-TIME OPENING—
PROJECT ENGINEER,
ENGINEERING SERVICES**

Principal Responsibilities

- Perform engineering analyses, including analyzing root cause of industrial heat transfer equipment operating problems, as well as reviewing proprietary prototype heat transfer product designs
- Develop workshops, short course materials, web-based tutorials, and other training products
- Respond to technical inquiries related to HTRI software and methods; prepare technical documentation to assist members in using/interpreting HTRI technology
- Identify and solicit experimental, analytical, software development, and consulting work
- Respond to requests for contract and consulting quotations; prepare proposals
- Identify potential products to complement and leverage HTRI's existing technology

Minimum Qualifications

- BS in Chemical or Mechanical Engineering and 5 years' industrial or consulting experience
 - Professional Engineer (P.E.) license (individual will be expected to obtain Texas P.E.)
 - Excellent communication skills (oral and written), including proven ability to write technical reports and develop/deliver formal presentations
 - Strong organizational and multi-tasking skills
 - Willingness to travel domestically and internationally
- Prefer candidates with experience using HTRI software. Individuals with less experience will be considered for a position as a technical support engineer.

**—IMMEDIATE FULL-TIME OPENING—
INSTRUMENTATION TECHNICIAN—
EXPERIENCED**

Principal Responsibilities

- Construct, operate, and maintain pilot-scale research units
- Diagnose and troubleshoot unit malfunctions
- Install, calibrate, maintain, and test instrumentation and control systems
- Set up and operate gas chromatograph and other laboratory test equipment
- Perform industrial safety, environmental, and hygiene activities to ensure regulatory compliance

Qualifications

- High school education
- Five years' experience installing and calibrating valves, flow meters, thermocouples, pressure/flow transmitters in a plant (chemical, petroleum, petrochemical, power)
- At least one additional trade skills: industrial electrical installation/troubleshooting, use of machining tools, and process equipment operation/maintenance
- Working knowledge of data acquisition systems
- Proven ability to read process flow diagrams and detailed drawings of mechanical equipment

This physically demanding job requires strength, stamina, and the ability to work on multistory platforms, as well as in "close spaces."

Individual must have authorization to work in the United States.

Submit résumés and letters of application detailing relevancy of work experience to

Ms. S. Breaux-Daniel
Vice President, Human Resources & Corporate Services
Heat Transfer Research, Inc.
150 Venture Drive • College Station, TX 77845
SBD@HTRI.net • www.HTRI.net



Engineering Research

From the Incoming STS-AIChE Chair

The past two years have been an exciting time for STS-AIChE. Several highlights stand out:

- Attendance at our monthly dinner meetings has doubled.
- Communication within the section has improved and we have greater support from sponsors, who not only underwrite many of our costs but also provide high caliber speakers.
- Our Young Professionals (YP) group continues to grow, organizing special events for the younger members of the section, and breathing life and excitement into every aspect of what we do.
- The Regional Process Technology Conference in Galveston in October 2009 was a huge success, attracting more than 400 participants from across Texas and surrounding states.
- Despite current economic conditions, we successfully maintained our financial health while increasing our funding of student scholarships by 50%.

Space doesn't permit me to acknowledge everyone who has helped to achieve these results, but I would like to mention two whose contributions have been outstanding:

Todd Willman is the source of many of the recent innovations in STS-AIChE. It has been a great privilege to work with him during his term as Chair-Elect in 2008 and Chair in 2009, and to see his vision of expanding the reach and impact of STS-AIChE start to become a reality.

Susan Cannon has been our newsletter editor since the April 2005 edition, and for much of that time she also served as our webmaster. Her outstanding editorial work earned *The South Texan* the "Best Newsletter" award at the AIChE Leadership Development Conference in June 2009, and her dedication as a volunteer has been recognized by AIChE nationally through a *Shining Star Award*. Susan is moving on to new things, but we will always be grateful for her hard work and commitment to excellence.

And so, ready or not, we enter a new year. We face many uncertainties, but STS-AIChE will continue to provide a "professional home" for our members. As Chair my priority is to build on our strengths, which include our stimulating monthly technical programs and lively social events, and the newly revived Regional Process Technology Conference. Please join us as you are able, and above all take the opportunity to enjoy the great professional camaraderie. It will be good for your career, and you might make a few good friends, too. Lastly, communication is a two-way process, and I am always delighted to receive feedback and suggestions from you – so let me know your ideas on how we can make STS-AIChE even better. Please feel free to contact me anytime at alan@rossiters.org.

With all best wishes,

Alan Rossiter.



Now Hiring Chemical Engineers!

Be a part of the most vigorous expansion in hydrocarbon production and processing history.

Join the leader in the industry!

Saudi Aramco is a world leader in crude oil production and exports, and is among the leading producers of natural gas. Our multinational workforce consists of more than 51,000 employees from over 50 different nationalities. Every Saudi Aramco employee is an important part of the company's commitment to remain a reliable supplier of energy to the world.

Learn more or apply online: www.aramco.jobs/ce

أرامكو السعودية
Saudi Aramco



TM

"Holiday Special" December Dinner meeting & murder mystery

Thank you to all who attended the December Meeting at the Spaghetti Warehouse. The Celebrity Mystery Theatre did a wonderful job acting out "The Legend of the Sabrina" a mystery written specifically for the STS-AIChE members in attendance. Several of our members joined the cast and entertained us as Mr. Carry (the victim), the shop keeper, captain, manager, liquor store owner, and boyfriend (the killer). All attendees were encouraged to participate by identifying the murderer and his motive.

The YP crew did a great job in making all the arrangements.



Letter from the YP Chair

Dear Young Professionals,

I am pleased to serve as the Chair for the South Texas Section- AIChE Young Professionals in 2010. Over the past year our Young Professionals were very active! Young Professionals visited various local Universities and presented professional development seminars, judged science fair projects at the Houston Science Fair, managed hands-on science activities booths at the Children's Museum, and helped to oversee various functions at the local Process Technology Conference. Young Professionals also enjoyed rock climbing, game nights, and dinner socials. As our membership has grown over the year so has our outreach in the local community! Thank you to all who have helped to make 2009 a wonderful year!

This year we will continue to strive to bridge the gap between students, young professionals, and experienced professionals. Young Professionals will be encouraged to attend and actively participate in academic, technical, social, and volunteer events. Young Professionals will also continue to work closely with the STS-AIChE Board of experienced professionals to offer additional educational development seminars in 2010.

If you would like to get more involved, please join us for bowling during our Membership Drive on Wednesday, January 20th, from 6-8pm. You are also invited to join us during our Bi-annual Planning Meeting which will be held on Thursday, January 28th from 6-8pm. Additional information regarding upcoming events may be found at our website, <http://www.yip.sts-aiche.org/>. We look forward to seeing you at our upcoming events.

Sincerely,

Kelly Richardson

2010 STS-AIChE YP Chair

yp@sts-aiche.org

STS-AICHe Young Professionals (YPs)

2010 YP Board Members

Chair	: Kelly Richardson
Vice-Chair	: Yoojung Kim
Treasurer	: Katherine Leskin
Secretary	: Carlos Salamanca
Communications	: Nemoy Rau
Webmaster	: Gabriel Garcia
Membership	: Jay Chandrasekaran
Academic Events	: Brian Daly
Technical Events	: Jayce Mathews



YP Events

Upcoming Events:

Membership Drive: **Wednesday, January 20th from 6-8pm** at 300 Houston located at 925 Bunker Hill Road, Houston, TX 77024

Make new friends and business contacts while you join us for free bowling and pizza!



Volunteer Event: **Saturday, January 23rd from 9-11am** at The Beacon located at 1212 Prairie Street, Houston, TX 77002

The Beacon provides meals, clothing, lavatory facilities, and laundry services for the homeless. Volunteers will help prepare food, serve meals, hand out clothing, and input computer data.

January Planning Meeting: **Thursday, January 28th from 6-8pm** at Little Napoli located at 6445 Westheimer Road, Houston, TX 77057

We will be discussing our upcoming events for the year. If you would like to find out more about STS-AICHe Young Professionals and how you can get involved this is the meeting to attend!!!



Past Events:

On **November 14th, 2009** the Young Professionals held their Third Annual Picnic at Cottage Grove Park. Attendees socialized, enjoyed a barbeque lunch, and participated in picnic games.

Volunteer Opportunities:

We are looking for volunteers in various areas including:

Academic Events Planning, Social Events Planning, Technical Events Planning, Technical Event Presenters, Volunteer Events Planning, Advertising, Website Design



Please visit the Young Professionals website at <http://www.yp.sts-aiche.org/> for additional details.

STS Volunteer Opportunities

General considerations. It would be great if AIChE had an implantable chip to distribute to members giving them instant chemical engineering expertise. Unfortunately, AIChE National says that's a long way off. Additionally, thinking back to engineering school, if we wanted to learn to be an engineer, we had to go to class and do homework. As STS members, we can benefit from attending meetings, from networking, and from reading CEP, but even greater benefits are the experience and the contacts that come from being an active volunteer.

At STS, we have a number of opportunities to volunteer and grow. You can exercise your current skills or learn new skills. You can ask for and choose a job you want (would enjoy doing). Your volunteer job can help prepare you for a paid job. Others will be happy to assist you in learning and performing it. We want you to succeed and grow. We have found that if you do something you enjoy, you'll do well. It's a win-win situation, for you and for us. This is also an opportunity to try a new opportunity, to see if you like it, and to do so without risking your current job.

PEPO Chair – Our current PEPO Chair is about to be promoted (to Section Chair), and would be happy to train his PEPO successor. An excellent opportunity for a technically oriented person. Keep up with what's hot in your field. You can develop a focus group of colleagues to help you identify the "hot topics" in your field, and the meeting topics that will yield a good turnout. This is also a good job growth opportunity, as you will meet & impress the speakers by good preparations for the talk, and most speakers are managers with hiring authority.

K-12 Outreach Committee. An excellent opportunity for engineers who want to work with others. You can experience different ideas and methods in educational outreach, and help AIChE plan the upcoming STS K-12 outreach program. Interface with AIChE (national) SIOC, work with other technical people, with other local societies, with students and parents, and with teachers. Other people have already developed the outreach activities. We can provide contacts in school systems, contacts with various local outreach programs, pre-developed activities, and examples of outreach in other local sections. For now, you get to show up for a day, get the experience, and report back to us at AIChE. If and when you like, you can try out some of your own ideas. The contacts, experience, and understanding you have developed will help your own program to succeed.

Custom-Designed Opportunities. If you'd like to get involved, but none of these opportunities is close enough to what you want, contact the STS Volunteer Recruiter (me), and we'll try to design an opportunity to meet your individual needs. It has been done successfully in the past.

If you're interested contact our STS Volunteer Recruiter, Matt Kolodney, mkolodne@tceq.state.tx.us.

K12 Volunteer Opportunities

AIChE and STS are working to start up K12 outreach programs. We are encouraging STS members to attend various local outreach events and report back to STS and AIChE on their experience. We are encouraging STS members to report back to Matt Kolodney (mkolodne@tceq.state.tx.us) with one-page descriptions of their K12 outreach experiences, what worked well and what didn't. These will be reviewed locally and passed on to the AIChE National K12 program. Some local K12 opportunities are listed below.

HUNCON – Feb 20-21, 2009 (Fri/Sat) – @ UH Downtown. For the Greater Houston area. HUNCon includes teachers, administrators, students, parents, and technical professionals. Organized by HUNSTEM (Houston Urban Network for Science, Technical, Engineering, and Math Education). A DOD-funded consortium. Preregistration encouraged. The HUNCon web site <http://hunstem.uhd.edu/HUNCon> has extensive information on the conference, including a schedule and abstracts and speaker bios.

HUNSTEM web site: <http://hunstem.uhd.edu/> Already has a wide range of educational resources for use by interested teachers and volunteers. AIChE (national) is encouraging cooperation with organizations such as HUNSTEM.

IEEE [http://www.ieee-houston.org/Committees/SAC/Brochure IEEE%20Houston 7 Oct 2007.pdf](http://www.ieee-houston.org/Committees/SAC/Brochure%20Houston%207%20Oct%202007.pdf) This ongoing Houston Area program assists local schools with teacher training demonstrations.

SEFH <http://hunstem.uhd.edu/SEFH/> Science and Engineering Fair of Houston

Houston Museum of Natural Science (<http://www.hmns.org>) has ongoing outreach programs and could use more volunteers.

The Houston Children's Museum (<http://www.cmhouston.org>) also has outreach programs.

For more information, contact Matt Kolodney (713-471-8956) or mkolodne@tceq.state.tx.us.

Chemical / Engineering Opportunities (C/EO)

Are you unemployed and looking for work? The STS provides a service that finds engineers work.

Since it began in 1983, Chemical/Engineering Opportunities (C/EO) has provided more than 1,000 chemical engineers and chemists to chemical manufacturing companies, analytical chemical laboratories, environmental firms and process design firms seeking such individuals to meet their technical needs.

C/EO is sponsored by South Texas Section of the American Institute of Chemical Engineers. The charter of the committee is to facilitate the re-employment of chemical engineers in the Houston area.

Chemical engineers wanting to participate in C/EO must meet the following criteria:

- * You are unemployed.
- * You are a member of **both** the National AIChE and the STS Local Section. When you visit our office, have your membership card available.
- * You must volunteer a minimum of 3 hours per week in the C/EO office, helping answer the phones, indoctrinate new Volunteers and, most importantly, help in the mailing of the Profiles.
- * Volunteers must reside in the Houston Metropolitan area. Volunteers who fail to show are delisted.
- * Provide addresses, phone numbers and contact names of 14 companies which typically employ chemical engineers or chemists. This ensures our database remains current.

For more information, please contact the C/EO Director, Jim Murphy, at jrmurphy2@aol.com. The C/EO page on the STS website is: <http://sts.aiche.org/content/ceo-chemical-engineering-opportunities>.

The C/EO Office is located at:

c/o Halliburton Co. USA

10200 Bellaire Blvd., Suite BNW 3

Houston, Texas 77210

Telephone: (281) 575-4348

Fax: (281) 575-5258

ioMosaic Presents....

Effective Emergency Relief Systems Design Training

ioMosaic has developed an Effective ERS Design course with the objective of offering operating companies, engineering firms and regulatory agencies with a structured and comprehensive training program for a wide range of ERS design, risk management and compliance issues. This program offers core modules plus a wide choice of electives directed towards more complex ERS design challenges and methodologies.

Practical Emergency Relief Systems Training

October 19 - 21, 2009 | ioMosaic Houston Office

Overview

The Practical ERS Design module serves as an ERS primer and focuses on industry codes / standards, regulatory requirements, ERS contingencies, calculation methodologies, and long-term ERS data management.

This two and a half day course will help process / safety engineers and managers better understand, plan and execute future ERS design work for plant projects such as PHAs, unit expansions, debottlenecking studies, etc.

Auditing Emergency Relief Systems Training

October 21, 2009 | ioMosaic Houston Office

Overview

The Auditing ERS module provides guidance on how to conduct efficient and effective ERS design audits to ensure compliance safety, and reliability. Special emphasis is placed on how operating companies can leverage past efforts to bring their existing ERS documentation into compliance.

This half day module will help process / safety engineers and managers achieve compliance and address potential discrepancies in their ERS documentation.

Contact us for more information:

ioMosaic Corporation

2401 Fountain View Drive, Suite 850

Houston, Texas 77057

Tel: 713.490.5220 Fax: 832.553.7283

www.ioMosaic.com | sales@iomosaic.com

South Texas Section AICHE

South Texas Section
P. O. Box 73174
Houston, TX 77273

2010 Officers and Contact Information

Officers

Chair Alan Rossiter, Rossiter & Assoc.
sts-chair@aiche.org

Chair Elect Kenneth R. Cox
sts-chairelect@aiche.org

Past Chair Todd Willman, Epcon International
sts-pastchair@aiche.org

Secretary Carol Schmidt
sts-secretary@aiche.org

Treasurer Hiren Patani, Mustang Eng.
sts-treasurer@aiche.org

Executive Committee

Position 1: Education
Gary Gildert
sts-position1@aiche.org

Position 2: Outreach
Ramanan Krishnamoorti
sts-position2@aiche.org

Position 3: Communications
Daniel Shiosaki
sts-position3@aiche.org

Position 4: Human Resources
Shilpa Dubey
sts-position4@aiche.org

Volunteers

Arrangements: Richard Newman,
David Silarski

Membership: David Silarski

Young Professionals: Kelly Richardson

Awards: Tom Menn

SOUTH TEXAS SECTION MISSION STATEMENT

As a section of AIChE, we serve chemical engineering professionals in the South Texas region through education, professional development, and networking.

Vision 2013

<<To be developed>>



SUBSCRIBE/UNSUBSCRIBE INFORMATION

Our newsletter subscription list is by invitation only.

Subscribe: Click on the following link: [Subscribe](#).

Unsubscribe: Click on the following link: [Unsubscribe](#). Your email address will be removed from the subscriber list.

MAINTAIN YOUR CONTACT INFORMATION WITH STS

Maintain your contact information with the South Texas Section using the online community:

<https://www.memberconnections.com/olc/pub/CHM/>

To update your information, log in, then select [Member Directory](#).

Select the link to [View/Update Your Online Directory Listing](#).

Contact the New York office for PERMANENT ADDRESS CORRECTIONS:



xpress@aiche.org



1-800-AIChemE (1-800-242-4363)



AIChExpress Service Center
3 Park Avenue
New York, New York 10016-5991

The South Texan Newsletter Crew

WHAT DO YOU THINK OF THE NEWSLETTER? We want to know!

Contact us at sts-newsletter@aiche.org with comments, questions, suggestions, and ideas for next month.

Newsletter Editors

Jay Chandrasekaran
KBR
601 Jefferson Avenue
Houston, TX 77002
(713) 753-7474
jayachandranc@gmail.com

Holly Rountree
Chemical Engineering
11000 Richmond Avenue
Suite 500 Houston, TX
77042
(713) 343-1906
HRountree@chemweek.com

Submit an article! Contact:

Matt Kolodney
TCEQ
5425 Polk Avenue, Suite H
Houston, TX 77023-1486
(713) 767-3752
mkolodne@tceq.state.tx.us

Reserve your ad space! Contact:

Daniel Shiosaki
LyondellBasell Industries
Channelview South
(256) 682-1729
Daniel.Shiosaki@LyondellBasell.com

