

The South Texan

2003 Marx Isaacs Award for Outstanding Large Section Newsletter

Voted "Best Newsletter" at 2009 AIChE Leadership Development Conference



Meeting Sponsor



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Monthly Meeting February 04, 2010

Location: Westchase Marriott, 2900 Briarpark Drive

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

Dinner registration at this month's meeting includes a complimentary drink ticket courtesy of our sponsor, Shaw Group.

Electric Power Production Efficiency Improvements and Discussion of Carbon Dioxide Capture & Storage for Fossil-Fired Power Plants

Speakers: Stan Knez, Executive Vice President of Technology, Shaw's Energy & Chemicals Group and Christopher Wedig, Senior Technology Specialist, Shaw's Power Group

Abstract: The Shaw Group is involved in most energy production facilities and linked carbon capture and sequestration/storage. Stan's introductory presentation will discuss key energy-related increases/improvements. Stan will also provide reference information for various nuclear energy expansions/improvements and the expanding renewable energy resources. Political energy and emission anticipations will be cited, as well.

Chris, in his presentation, will describe electric power production efficiency improvements and carbon dioxide capture and storage (CCS) for fossil-fired power plants. In addition, he will discuss techniques for recovery of carbon dioxide (CO₂) from flue gas of fossil-fired power plants as well as improvements in energy use within these technologies. Chris's presentation will provide a review of permit issues related to CCS systems and presents possible methods to dispose or reuse the CO₂. Lastly he will discuss air quality control systems (AQCS) associated with carbon dioxide capture ready (CCR) coal-fired power plants.

Bio: Stan Knez serves as Executive Vice President of Technology for Shaw's Energy & Chemicals Group, which provides engineering, procurement and construction services, as well as proprietary technologies to the process industries. Stan has more than 20 years of experience in the energy and chemicals industries, with leadership positions in business development, technology, and consulting. He earned his bachelor's degree at Case Western Reserve University, his master's degree in Engineering at Cleveland State University, and his Master of Business Administration in Finance and International Business from the University of St. Thomas.

Chris Wedig is a senior technology specialist for Shaw's Power Group in air quality control system (AQCS) equipment and carbon dioxide capture. He has more than 30 years of chemical engineering experience related to flue gas cleaning systems for fossil-fired power plants. He has participated in more than 50 actual AQCS equipment projects and more than 250 studies and has visited approximately 230 power plant installations worldwide. He is working on carbon dioxide capture and storage (CCS) assignments associated with fossil-fired projects. Chris holds a bachelor's degree and master's degree in Chemical Engineering from the Massachusetts Institute of Technology (MIT).



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

PEPO/Environmental workshop

Speaker: Harvey McQuiston, P.E., Shaw's Energy & Chemicals Group

FCC Enhancements to Improve Financial Production and Environmental Emissions

Increasing financial incentives to enhance refinery profit margins have led refiners to process heavier feedstocks while at the same time producing higher value products such as polymer grade propylene. Furthermore, the global concern for carbon capture will shift some refinery products from fuel into petrochemicals. This presentation examines the evolution of advanced FCC technology for the processing of heavy resid feedstocks and the economic driver strategies for producing more propylene with this process. The Shaw/Axens R2R resid FCC process has been well-proven during more than 25 years of processing resid feedstocks into traditional refinery products. The process is being employed to produce higher yields of propylene. This involves a much greater operating severity, enhanced catalyst selection and improved yield selectivity. A further enhanced FCC type process converts similar heavy feedstocks to much higher ethylene and propylene yields, which is of increasing interest. Special requirements for polymer grade low-olefin recovery, purity and contaminant removal also are addressed.

Bio: Harvey McQuiston serves as FCC program manager for Shaw's Energy & Chemicals Group, which provides engineering, procurement, construction services and proprietary technologies to the process industry. Harvey has 36 years of experience in the petroleum and petrochemical industry, with the past 25 years focusing in the startup, operation, design, licensing and project development of FCC units. Harvey has been involved in major turnkey revamps of FCC units with the International Alliance Group, as well as licensing of FCC technology with Shaw, Lummus, and UOP. Harvey holds a bachelor's degree in Chemical Engineering from the University of Oklahoma, is a registered professional engineer and a member of American Institute of Chemical Engineers.



PEPO Workshop

Speaker: Vance Ham, P.E., Shaw's Energy & Chemicals Group

Trays Without Downcomers for Distillation and Absorption Towers

There is a wide variety of tower internal devices available to accomplish fractionation (rectification and stripping), gas absorption (with and without reactions), and direct contacting for general heat and mass transfer. In the category of trays, less well-known and specified are trays with no downcomers, wherein the vapor and liquid traffic of the tower is contacted in true countercurrent flow through the tray openings. In the class of trays without downcomers, there are angle iron decks, dualflow trays, Ripple Trays™, and Turbogrid Trays. During this workshop, the basic performance and operating characteristics of trays without downcomers will be discussed. The discussion will include the application possibilities for anticipated capacity and efficiency of those trays, along with a consideration of key advantages of trays in fouling services without downcomers. The workshop material also will review important aspects of associated internals of column feed distributors and the impact feed distribution can have on the performance of trays.

Bio: Vance Ham, P.E., is a process engineer with Shaw's Energy and Chemicals Group, which provides engineering, procurement and construction services, as well as proprietary technologies to the process industry. He is based in Shaw's Houston office, where he is the Process coordinator in the Separations Technology Design Group of Shaw's Process Equipment Technology department. The first seven years of his career were spent with two other operating petrochemical companies dealing in the manufacture of butylenes and butadiene, neoprene rubber, maleic anhydride and tetrahydrophthalic anhydride. Vance has spent the past 28 years with Shaw where he has performed process engineering and design work associated with petroleum refining and petrochemical processes. Vance holds a bachelor's degree in Chemical Engineering from the University of Houston and is a registered professional engineer in Texas.



New STS Website

Pre-registration for the February 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)

PSM workshop

Speaker: Doug Ferguson, Primatech Inc.

Operational Discipline – Necessary Ingredient for PSM

The OSHA and EPA regulations require that industrial facilities that handle regulated chemicals and flammables that exceed specified threshold quantities develop a Process Safety Management (PSM) program that addresses the fourteen elements of Process Safety Management. To comply with these regulations, most companies create a PSM program with guideline documents, standards, or procedures that address each of these elements individually. Operational Discipline is the necessary ingredient that provides the "glue" to bind the individual elements into an effective PSM program. This paper defines what is generally meant by operational discipline, explains how existing management systems may need to be modified to address it, provides guidance on implementation, and discusses the human factors aspects that are important for operational discipline.

Bio: Douglas (Doug) Ferguson is a Principal Engineer for Primatech and Manager of Houston Operations. Doug is a Primatech training instructor for the PHA for Team Leaders course, as well as many other Primatech training courses for a variety of process safety management topics. Prior to joining Primatech Inc., Doug worked for the DuPont Company in a variety of assignments for 40 years. His work experience includes 7 years of operating plant experience, 14 years of project engineering and project management experience, and 20 years in the process safety field. He holds a B.S. Degree in Mechanical Engineering from the University of Texas at Austin and is a licensed professional engineer in Delaware. He is also a member of AIChE and has presented several proceedings articles for engineering conferences in the last four years. He has been actively involved with the Process Plant Safety Symposium for the last three years.

PD Workshop

Speaker: GiGi Lewis

Business Etiquette

PD 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.

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

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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 February meeting. Dinner registration at this month's meeting includes a complimentary drink ticket (one per person) courtesy of our sponsor, Shaw Group

	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

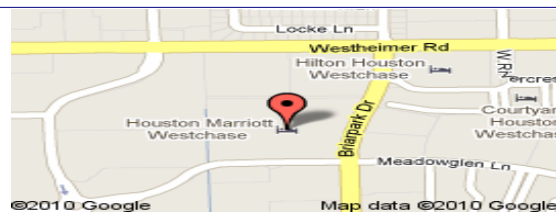
NOTE: You have until 4 PM CST on Feb 3rd to pre-register online. After that, you will be required to pay the higher cost at the door.

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

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

Meeting Location—Westchase Marriott

This month's meeting will be held at [Westchase Marriott](#) (2900 Briar-park Drive, Houston, TX—77042) Double click on the map to the right for directions from your location.



Future Meetings

Date	Sponsor	Location	Dinner Speaker Topic	Speaker	Workshops
March 4, 2010	Multiple	Brady's Landing	Fuel Cells and the Hydrogen Economy	Brian Weeks, Gas Technology Institute	Energy Forum
April 8, 2010	tbd	Pelazzio	tbd	tbd	yes

News from Other Professional Societies

ASME Global Engineering Management Conference (GEMC)

The **GEMC** will provide hands-on, experiential learning from best-in-class organizations. Programming consists of technical sessions, continuing education unit (CEU) accreditation tutorials, networking events and professional exchange forums. GEMC will be held **April 11—14, 2010** at **The Fairmont, Dallas, Texas**. Visit the ASME conference website at <http://www.asmeconferences.org/GEMC10/> for more details.

2010 ASME Plant Engineering Trade Show

ASME is having it's Sixth Annual Engineering, Inspection and Maintenance Trade Show at **Pasadena Convention Center – 7902 Fairmont Parkway** on **Thursday Apr 22, 2010 10 am – 6 pm**: **FREE TO ATTEND**, Lunch Included. For booth or Event Sponsor, contact Clint Britt, clint.britt@stress.com. Visit <http://www.southtexasseminars.com> for more details.

TAEP's Fourth Annual Environmental Challenges and Innovations Conference

TAEP is having it's Fourth Annual Environmental Challenges and Innovations Conference on **Thursday, Feb 11, 2010**, at the **Crowne Plaza Houston – Medical Center** in Houston, Texas. Please visit <http://www.taep.org/ECIC10/> for further details.

Becoming a Professional Engineer

By Dale Embry

Are you considering applying to become a registered professional engineer? If you are, you will be glad to know that there are resources within the South Texas Section of AIChE to help you with this process. The Young Professionals of the STS-AIChE are working to make these resources more accessible. First, the section will be publishing some short articles on what it takes to become a professional engineer in Texas, and is looking at holding a workshop on applying for licensure at one of our upcoming meetings. Secondly, the STS-AIChE will be offering a Chemical Engineering PE exam review course for people planning to sit for the exam in October. More details to come. If you are interested in taking the course please contact Jay Chandrasekaran at jayachandran.chandrasekaran@kbr.com or Jayce Mathews at jayce.mathews@kbr.com to get more information. If you are interested in helping teach the course or develop course materials, please contact Dale Embry at dale.l.embry@ConocoPhillips.com.

So how does one become a professional engineer in Texas? The ultimate arbitrator of licensure is the Texas Board of Professional Engineers, TBPE. The three basic requirements for registration are Education, Examinations and Experience which are outlined on their [web page](#). Once you believe you have met the requirements, you will need to apply to the TBPE for a license ([click here](#)).

Education

As a member of AIChE you probably meet all of the education requirements. You must have the equivalent of a bachelors degree in engineering or related sciences. If your degree is not from an ABET certified program, there are some additional requirements to show the equivalence of your degree to the TBPE. You will also be required to provide the TBPE certified copies of your transcripts sent directly from the educational institutions.

Examinations

All applicants for licensure will be required to take an open-book ethics exam. Most applicants must also take and pass the National Council of Examiners for Engineering & Surveying (NCEES) Fundamentals of Engineering (FE) examination and the NCEES Principles and Practice of Engineering (PE) examination. There are some situations in Texas where one or both tests may be waived ([click here](#)). You should take the exams if you are interested in applying to other states, since other jurisdictions may or may not have the same waiver requirements.

The FE exam may be taken any time after degree requirements have been met. A person must apply to take the PE exam and will not be eligible to take the exam until they have met all of the experience requirements outlined in the next section. In most cases, this means that a person will take the PE exam 4 or more years after graduating with their bachelors degree. That is plenty of time to lose your test taking skills and for many parts of your chemical engineering education to fade.

Experience

In order to apply for a PE license, you will have to have at least 4 years of active engineering work that demonstrates your engineering skills, knowledge and judgment. The board may allow experience credit for advanced degrees. They may also require additional experience due to your degree program or request for exam waivers. You should check the TBPE web site for specifics.

There are many questions about what work experience will be deemed acceptable for licensure and how to document that experience. The most common acceptable experience is for design and analysis of engineering systems. Your experience should show increased capability and responsibility over the years. You will also have to have references to each work period you document. I will provide additional information about this the next newsletter.



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Sponsor Recognition



2010 STS Chair Alan Rossiter (right) presents an Appreciation Award Plaque to Mark Lockhart (left) of URS Corporation in appreciation for URS sponsorship of the January, 2010 STS Monthly Dinner Meeting. Mark and URS Vice President Ron Crum shared duties as after dinner speakers.

Business Etiquette Tip of the Month

"Business Etiquette Tip of the Month" by <http://clubetiquette.com/>

It is unacceptable for a woman to remain seated as she is introduced to a gentleman in the workplace. Remember that gender equity is the new protocol in the workplace, and the rules are a bit different for business etiquette than social etiquette. Men and women are now on an equal playing field in the business world. This also means that a woman can help a man take his jacket off.

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, Please print out the forms from next two pages.

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.

From the STS-AIChE Chair

What a great start to the New Year! The official attendance at our dinner meeting on January 14 was 180 – one of the highest in recent years. The presentation on “Cap & Trade” by Mark Lockhart and Ron Crum of URS was fascinating and challenging, as they explored the ramifications of proposed new legislation on the economics of the industries we serve. And earlier in the evening our two workshops were filled with enthusiastic participants. Both the professional ethics session and the process safety session were literally standing room only. However it wasn't the numbers that impressed me as much as the human energy in the building. This is going to be a tremendous year in STS-AIChE!

AIChE – and especially its local sections – depends heavily on volunteers to keep the organization moving. Last month I profiled two people, Todd Willman and Susan Cannon, who have elevated STS through their vision and commitment to excellence over the past few years. This month I'd like to talk about some newer volunteers who are already making a big difference.

As you know we have a new website. STS served as a beta site for AIChE's national initiative to provide easily-maintained websites for all local sections. The new websites are based on a content-management system and supported centrally by the AIChE's National IT group. It has been a lengthy process as our volunteer team has tested and stretched the limits of the new system. Linton Wong, one of our Young Professionals, has been one of the key players in this project. Our new website is now fully functional, and most of the teething problems are resolved. This is not only a lasting asset for STS; it is also a foundation that other sections can build on in the years ahead. Thank you, Linton, for helping to turn this vision into reality.

Susan Cannon left big shoes to fill when she ended her term as newsletter editor – so big that it has taken two people to fill them. Another of our Young Professionals, Jay Chandrasekaran, rose to the challenge and volunteered to take on the job of editor; and Holly Rountree, a newcomer to our group with a background in marketing and communications, has come on board as executive editor. Their first edition, published last month, set a very high standard, and I predict more awards for The South Texan in the years ahead. Thank you, Jay and Holly!

There is much ahead for STS this year, and many opportunities for all of us to make a difference for the good of our profession and our community. Why not look around, and see what roles you can play as the year unfolds?

With all best wishes,

Alan Rossiter

K-12 Outreach

The Engineering, Science, and Technical Council of Houston (ECH) will be holding its annual leadership development meeting on Saturday morning, February 27, 2010, from 8:00 - 12:00 at the Houston Museum of Natural Science branch in Sugar Land (13016 University Boulevard). The primary topic will be the how to work effectively with Young Professionals in your professional society. There will be speakers and attendees from numerous engineering and science societies in Greater Houston. They will provide speakers to share their successes and challenges. Registration will be \$10 per attendee to cover breakfast and materials. STS-AIChE YPs will encourage multiple attendees and pay their registration fee.

Young Professionals (YPs) 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 and Website Design. If you are interested in volunteering please visit the Young Professionals website at <http://www.yp.sts-aiche.org/> for additional details.

Volunteers Needed—2010 OTC

The 2010 Offshore Technology Conference will be held May 3-6 at Reliant Park. Volunteers will receive a complimentary OTC registration and a free parking pass (good for the entire OTC) for attending orientation meeting the week before (to pick up badges and parking passes) and for contributing about four hours time to an OTC Conduct Committee during the OTC. For information contact: Thomas E. Menn, P.O. Box 458, Pearland, Texas 77588-0458. Tom's e-mail address is thomasmenn@SBCglobal.net and his phone number is 281-485-3719.

Engineering, Science, and Technical Council of Houston (ECH) - Annual retreat

The Engineering, Science, and Technical Council of Houston (ECH) will be holding its annual retreat on Saturday morning, February 6, 2010, from 8:00 - 12:00 at the Houston Museum of Natural Science branch in Sugar Land (13016 University Boulevard). The primary topic will be K-12 Outreach. We will review the needs of local schools and some of the resources that the local educational community can provide to the K-12 outreach programs of societies such as STS-AIChE. Registration is free, and free breakfast will be provided. STS-AIChE traditionally sends multiple representatives to this retreat. Aspiring K-12 outreach volunteers are particularly welcome.



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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 something new, 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 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

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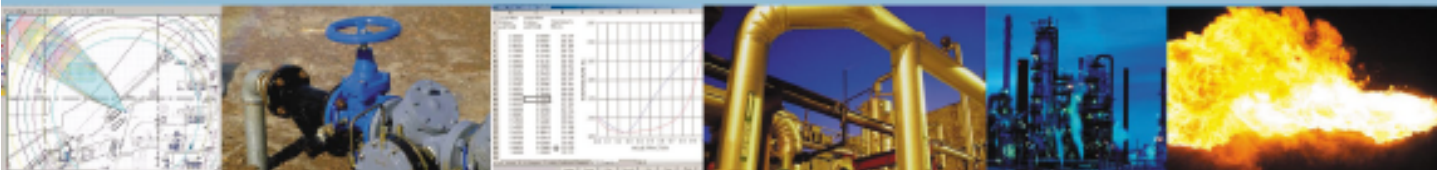
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SUPER=CHEMS

Join us and receive a **FREE COPY** of our newly developed SuperChems User's Guide!

ioMosaic



Learn what SuperChems can do for you!

4th Annual SuperChems User's Group Meeting

January 11-12, 2010 in Houston, Texas

Featured topics will include: relief and flare systems evaluation, facility siting, and process piping fatigue risk assessment. This meeting is provided free of charge and offers comprehensive educational sessions, practical case studies, and indication of future SuperChems developments.

SuperChems Hands-On Training

January 13-15, 2010 right after the user's meeting and at the same location.

For a small fee (\$995), you can master SuperChems basics and be able to design relief systems, evaluate common headers, and perform consequence modeling.

Contact us for more information:

URL: www.iomosaic.com

Email: sales@iomosaic.com

Tel: 713.490.5220

South Texas Section AIChE

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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

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