

The South Texan

2003 Marx Isaacs Award for Outstanding Large Section Newsletter

Voted "Best Newsletter" at 2009 AIChE Leadership Development Conference



Highlights

- ♦ March 4 Meeting at Brady's Landing
- ♦ Energy Forum, 4-6 PM
- ♦ PE Exam Review Course Information
- ♦ 2009 Annual Awards Nomination
- ♦ Volunteer Opportunities

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Monthly Meeting March 04, 2010

Location: Brady's Landing 8505 Cypress St. Houston

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

The March meeting is sponsored by URS, Soteica, ConocoPhillips, HTRI & Analytical Systems Int'l/KECO

Fueling the Emerging Hydrogen Economy

Speakers: Brian Weeks, Associate Director, Technology Institute's Advanced Energy Systems group

Abstract: Hydrogen is emerging as an important fuel for a new generation of vehicles and power generation technologies. It represents a zero-emissions fuel when used in a fuel cell and is an ultra-low emissions fuel when used blended with compressed natural gas (HCNG) or alone in an internal combustion engine. While hydrogen is a very clean fuel, it is difficult to store and transport, making it a relatively high-cost fuel for vehicle applications. Recently, there have been a number of advances in the commercial viability of hydrogen-fueled vehicles, but little progress has been made in expanding the fueling infrastructure that can support broad deployment of these vehicles.

This presentation will review existing projects that are underway in Texas and elsewhere, showing that on-site hydrogen generation is an excellent fueling system solution for emerging hydrogen vehicle applications. Generating hydrogen on-site using the existing natural gas supply network, or using renewable biogas is relatively inexpensive, has a low carbon footprint, and avoids many of the logistical issues involved in delivering hydrogen from a central location.

The primary focus of the discussion will be the first publicly accessible hydrogen fueling station in the State of Texas and the first fuel cell vehicle that is licensed in Texas. The station was designed and built by Gas Technology Institute and Dallas-based GreenField Compression, a Division of Atlas-Copco, using an innovative skid-mounted design. Project sponsors include the U.S. Department of Energy, the Federal Transit Agency, the Texas Commission on Environmental Quality, the Texas State Energy Conservation Office, the University of Texas, and Gas Technology Institute.

Bio: Brian Weeks is the Associate Director for Gas Technology Institute's Advanced Energy Systems group. GTI is a not-for-profit, independent research and development organization focused on advanced, environmentally responsive energy technologies to meet the nation's energy needs.



Brian leads technology deployment projects relating to advanced fuels and power generation infrastructure. He installed one of the first grid-connected fuel cell systems in Texas, and led initiatives resulting in the first hydrogen fueling stations in Missouri, South Carolina, and Texas. He has authored papers on hydrogen infrastructure technologies as well as CNG and LNG fueling systems.

Brian served on the Executive Board of the U.S. Fuel Cell Council, and currently sits on the Board of the Texas Energy Center and on the Board of the Texas H2 Coalition. He is a P.E. with an engineering degree from Vanderbilt University and an MBA from the University of Mississippi.

Energy Forum— 4:00— 6:00 PM. Pre-Registration required. Sign up today!

Texas Industrial Energy Management Forum ENERGY OUTLOOK AND EVALUATING ENERGY PROJECT INVESTMENTS

Thursday, March 4, 2010

Brady's Landing

8505 Cypress St.

Houston, Texas 77012

To register, go to <http://texasiof.ces.utexas.edu/tiof/energyforum030410.asp>

Forum Moderator
TBD



Texas Industries of the Future

Presentations

Natural Gas Outlook 2010 – New Era or Same Old Story?

Anne Keller, President, Mid-Stream Energy Group, Inc.

There is renewed optimism for the future of natural gas as a preferred fuel in the United States due to improved technology for increasing our domestic gas supply through development of gas shale reserves as well as its potential to be a transition fuel as a low carbon bridge between the "black oil" era and renewables. This presentation will examine the current supply and demand outlook for natural gas and discuss opportunities and challenges for end users looking to capitalize on its potential.

Benefiting from ERCOT's Newest Demand Side Management Program

Jeff Hackworth

An overview of ERCOT's Emergency Interruptible Load Service (EILS) Program will be presented. Emphasis will be placed on consumer participation in the program. Specific items to be covered include program requirements, potential economic benefits, risks and contracting.

LyondellBasell's Energy Journey

Sumit Chatterjee, Houston Refinery Energy Management, LyondellBasell

The presentation will describe the journey towards energy efficiency improvements within LyondellBasell starting in 2006. This will be an overview of the systems developed to create a sustainable energy management program which could ride through the recent economic downturn. The speaker will also present the methodology to assess current performance and identify focus areas of performance to close gaps. Attention will be given to topics such as data analysis, key performance indicators, energy assessments, opportunity identification, and cap-ex prioritization. Tools that are being used for institutionalizing energy management systems and practices will be touched upon. Finally, efforts undertaken to promote cultural shift towards energy efficiency where ideal behaviors and practices become a part of normal business

DuPont's "Bold Energy Plan": Changing the Way Investments Get Made

Ian Bickford, DuPont

DuPont's total energy use has declined about 7% since 1990 while total production has increased more than 40%. However, unprecedented increases in natural gas and crude oil prices in November 2007 prompted DuPont executives to call for a strategic energy plan that would accelerate the rate of improvement in energy efficiency for the years 2008-2010. The resulting "Bold Energy Plan" instituted principles and practices that resulted in a 3.2% reduction in energy use and CO2 emissions and a 5% reduction in energy costs compared to 2007. These reductions came on top of significant reductions that were made as part of DuPont's "Energy Breakout" program between the years 2005-2007. The program had seven major elements that contributed to its success in 2008. DuPont will be addressing three elements of the program: 1) Expansion of an "Energy Capital Set Aside" program to fund all energy efficiency projects down to 25% IRR; 2) Provision of resources to implement improvement projects if the value exceeds the fixed cost by at least 2X; and 3) Engineering energy efficiency into all new projects by changing the way capital projects are scoped and front-end loaded so energy improvements are considered earlier in the design process. This award winning project resulted in annualized 2008 energy savings of 4,545,757 MM Btu, with associated CO2 emissions reductions of 299,000 tons.

Questions & Answers

There is **no cost** for attending the Energy Forum; however, pre-registration is requested so that we can provide adequate facilities. To register, go to <http://texasiof.ces.utexas.edu/tiof/energyforum030410.asp>

If you are interested in exhibiting at the event, contact Daniel Shiosaki, STS-AICHe, at Daniel.Shiosaki@gmail.com or at 256-682-1729.

Funding for the Energy Management Forum is provided by the US Department of Energy, under a contract with the State Energy Conservation Office of the Texas Comptroller of Public Accounts.

Workshop, Networking & Exhibition 6.00 – 7.00 PM (Free and open to public)

PD workshop (6.00 – 6.30 PM) Five Immutable Steps To Superior Performance

Speaker: Stephen Blakesley, CEO GMS Talent Inc. and Managing Partner GMS Talent L P

Abstract: Most of us would like to be a Star at work. But, unfortunately, most of us aren't. An Engineering study a few years ago found that less than 10 percent of the workforce could be considered superior performers. Nearly 80 percent are mediocre. Considering the cognitive ability required to become an engineer, it does seem that a greater number of would be identified as Stars at work. We have found a 5 step solution to the problem of mediocre performance. We call it "The Target-The Secret to Superior Performance." In this 30 minute workshop, we will share with you those five steps.

It's the bottom of the 9th, the bases are loaded and you are at bat. Be a Star!

Bio: Stephen Blakesley, CEO GMS Talent Inc. and Managing Partner GMS Talent L P

Stephen graduated from the University of Oklahoma, with a B.S. degree in Chemistry. He received two graduate degrees from the prestigious American College in Bryn Mawr, PA.: M.S. in Management and M.S. in Financial Services. Stephen founded and served as CEO of the Flagship Group, Inc for 27 years. He is currently CEO of GMS Talent Inc. and Managing Partner of GMS Talent L P. GMS Talent L P is a Human Resources Consulting firm specializing in Recruiting, Staffing and Human Resources Consulting. He has over 35 years experience in the hiring and developing talented people at all levels and is the author of "The Target-The Secret of Superior Performance" and "Strategic Hiring-Tomorrow's Benefits Today." "Strategic Hiring" was recognized by Business Book Review as one of the TOP 50 Business Books of 2006. Stephen is a premier Executive Coach having coached CEOs and other Executive level individuals for over 30 years. He and his wife Lillian live in Houston, TX and have 6 children and 21 grandchildren. Stephen may be contacted at: 14550 Torrey Chase, Ste.255, Houston TX., 281-444-5050 and info@gmstalent.com

Networking & Exhibition Sessions (6.00 – 7.00 PM)

A number of companies who bring value to energy efficiency in the process industries will have tabletop exhibits set up as a focal point for a networking session. A cash bar will also be available.

Business Etiquette Tip of the Month

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

If there is no bread and butter plate for your bread, you should place it on your dinner plate. In my many years of teaching formal dining etiquette, I have seen children and adults making the mistake of placing food directly on the dining table. It is never acceptable to place food directly on the table.



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*Must be used within a year of purchase. **Certain restrictions apply.



Engineering advanced

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 March 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 March 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>

*Attendees of the meeting will earn 1 PDH
for the Texas Professional Engineer
Continuing Education Programs.
Remember to track your hours!*

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

April 8, 2010

Topic: National Corrosion Center (Speakers: Andreas Lüttge, Director of National Corrosion Center and Emilio Peña, Executive Director of National Corrosion Center)

Location: Pelazzio Banquets, 12121 Westheimer, Houston, TX

May 6, 2010

Topic: TBD

Location: Brady's Landing Restaurant, 8505 Cypress st, Houston, TX

News from Other Professional Societies

INTERSOCIETY WORKSHOP: RECRUIT, ENGAGE & RETAIN YOUNG PROFESSIONALS

The Engineering, Science, and Technical Council of Houston (ECH) will be holding its annual leadership development meeting on Saturday morning, **February 27, 2010, from 8:30 - 12:30** at the **Houston Museum of Natural Science branch in Sugar Land (13016 University Boulevard)**. Registration will be \$10 per attendee to cover breakfast and materials. Reservations Appreciated, Contact Matt Kolodney at mkolodne@tceq.state.tx.us for more information.

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.

Meeting Sponsors - We thank you!

A mighty thank you to all of our meeting sponsors!



Presentation Files from February Meeting

The following Shaw group's workshop and dinner meeting presentation slides from February meeting can be accessed from the following link

<http://sts.aiche.org/content/meetingspresentations>

- ♦ "Electric Power Production Efficiency Improvements and Discussion of Carbon Dioxide Capture & Storage for Fossil-Fired Power Plants" by Chris Wedig
 - ♦ "Recent Energy Overview" by Colin Bowen
 - ♦ "FCC Enhancements to Improve Financial Production and Environmental Emissions, by Harvey McQuiston
 - ♦ "TRAYS WITHOUT DOWNCOMERS FOR DISTILLATION & ABSORPTION TOWERS", by Vance Ham
-

AIChE South Texas Section – PE Exam Review



Become a
Licensed
Professional
Engineer!



UNIVERSITY of HOUSTON

PE Exam Review Course for passing the PE Exam in Chemical Engineering

August 13, 2010 – October 23, 2010. 33 hours of expert instruction from STS/AIChE lecturers at the University of Houston.

| Date | Subject | Hours |
|--------|---|-------|
| 13-Aug | Mass/Energy Balances & Thermodynamics I | 3 |
| 20-Aug | Mass/Energy Balances & Thermodynamics II | 3 |
| 27-Aug | Mass/Energy Balances & Thermodynamics III | 1 |
| 27-Aug | Fluid Mechanics I | 2 |
| 10-Sep | Fluid Mechanics II | 3 |
| 17-Sep | Heat Transfer I | 3 |
| 24-Sep | Heat Transfer II | 1 |
| 24-Sep | Mass Transfer I | 2 |
| 1-Oct | Mass Transfer II | 3 |
| 8-Oct | Mass Transfer III | 1 |
| 8-Oct | Kinetics I | 2 |
| 15-Oct | Kinetics II | 2 |
| 15-Oct | Economics | 1 |
| 22-Oct | Plant Design & Operations | 3 |
| 23-Oct | Sample Test Exam | 3 |

- ◆ Prepare for the October 29th, 2010 PE Exam for Chemical Engineering
- ◆ Includes all recommended course books and materials (*a \$300 value*)
- ◆ Review all major test subject areas on a weekly basis
- ◆ Convenient 3-hour class each Friday afternoon at the University of Houston
- ◆ Sample test exam on October 23rd
- ◆ Taught by experienced instructors familiar with the PE exam requirements
- ◆ Comprehensive PE exam review course designed for Chemical Engineers
- ◆ Co-sponsored by the American Institute of Chemical Engineers & UH
- ◆ Blackboard instructional based curriculum allows review of any lecture

Course Fees: (limited class size – does not include exam registration fees)

AIChE Discount Fee - **\$595** (requires AIChE National membership & STS local section membership), Non-AIChE members - **\$795**

Included Course Materials - a \$300 value!

1. Chemical Engineering Reference Manual, Lindenburg
2. PE Chemical Engineering Sample Questions and Solutions Book
3. Six-Minute Solutions for Chemical PE Exam Problems

Online Registration (click the link below):

<http://sts.aiche.org/content/pe-examen-review-course>

See Next page for Mail-in Registration Form Information

PE Exam Review - Mail-in Registration Form

First Name _____ Last Name _____

Company _____ Email Address _____

Phone _____ Fax _____

Shipping Address

Address _____

City _____ State/Province _____ Postal Code _____

Billing Address ☐ check if same as shipping address

Address _____

City _____ State/Province _____ Postal Code _____

Payment Type ☐ Visa ☐ Mastercard ☐ Discover ☐ Check (enclosed)

Card # _____ Expiration Date _____ Security Code _____

I authorize STS-AIChE to charge \$_____ for payment of the PE Exam Review Course using the above credit card information provided. For AIChE/STS members - \$595, non-members - \$795

(if you are an AIChE National member, STS membership is only \$20 extra).

Signature _____ **Date** _____

Please mail your registration form to:

STS-AIChE, P.O. Box # 820252, Houston, TX 77282

You will receive a confirmation by email within several days of receipt.

Limited space - reserve your space now (cut-off for class registration - July 16th)

Cancellation Policy -by 7/16 - full refund, 8/13 - ½ refund, after 8/13 - no refund



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Sponsor Recognition



2010 STS Chair Alan Rossiter (second from left) presents an Appreciation Award Plaque to Colin Bowen (left), Stan Knez (second from right) and Chris Wedig (right) of Shaw Group in appreciation for Shaw's Sponsorship of the February, 2010 STS Monthly Dinner Meeting.

Past Chair Appreciation Award



2010 STS Chair Alan Rossiter (right) presents Chair Appreciation Award to Todd Willman, 2009 STS Chair (left)

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.

Young Professionals (YPs) Volunteer Opportunities

STS-AICHe YP would like to welcome the following new YP members.

Wilson Carrillo

Donald Forgie

Jieni Li

Ranganath Venkataraman

Thank you for your membership. We encourage you to participate in our member events!

STS-AICHe YP is looking for volunteers. Volunteering is a great way to develop a new skill or to discover a new talent. Volunteering also offers an incredible networking opportunity. To learn about how you may get involved please visit our webpage (<http://www.yp.sts-aiche.org/>).

Join the Young Professionals on **March 19th** for dinner, go-carts, bumper boats, and miniature golf at **Zuma Fun Center**. For additional details please visit our events section on our website.

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.



The advertisement features a vibrant background with diagonal streaks of green, yellow, orange, and red. In the top left, the HTRI logo is displayed in a blue box. Next to it is a large, stylized blue 'X' followed by the text 'changer Suite®'. In the top right, a yellow starburst graphic contains the text 'CAPE-OPEN Compliant!'. The main body of the ad contains a descriptive sentence about the software suite, followed by two columns of bullet points listing various heat exchanger types and analysis tools. At the bottom, there is a line of text about interfaces with process simulators, and contact information for Heat Transfer Research, Inc. on the left and email/web address on the right.

HTRI Xchanger Suite®

CAPE-OPEN Compliant!

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- 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

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

10200 Bellaire Blvd., Suite BNW 3

Houston, Texas 77210

Telephone: (281) 575-4348

Fax: (281) 575-5258



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April 19-21, 2010 (Houston, TX)

Practical ERS Design was developed with the objective of offering operating companies, engineering firms, and regulatory authorities with a structured training program for a wide range of ERS design, risk management, and compliance issues.

Auditing ERS Design

April 21, 2010 (Houston, TX)

The Auditing Emergency Relief Systems 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.

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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

<<To be developed>>



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