

The South Texan



Monthly Meeting: February 5, 2015

Central Location: Pelazzio Banquet Hall, 12121 Westheimer Rd, Houston, Texas 77077; Workshop starts at 5:30 pm, Social Hour at 6:00 pm, Dinner at 7:00 pm; pre-register at <http://sts.aiche.org/>

Meeting Webcast: We plan to webcast the meeting live on our new [YouTube channel](#). More information at <http://sts.aiche.org/>

Dinner Presentation: A Molecular Model for Upstream Engineering Applications: Phase Behavior, Interfacial Properties, and Microstructure

Speaker: Walter G. Chapman, Professor-Chemical & Biomolecular Engr, Rice Univ.

Abstract: Simulation of flow assurance issues, compositional grading, and enhanced oil recovery requires accurate modeling of phase behavior, transport properties, interfacial properties, and molecular level self-assembly of surfactant formulations. Past approaches in the industry have required specialized thermodynamic models for varying conditions and for each separate phase with sometimes unsatisfactory results. Advances in statistical mechanics at Rice University are enabling engineers to predict fluid properties in the hydrocarbon, aqueous, and gaseous phases as well as the interfacial properties between these phases with a single unified model. The approach taken at Rice University is based on our SAFT equation of state. This model is widely applied in industry to describe the phase behavior of complex fluids from high performance polymer solutions to asphaltene phase behavior. The model is also used to predict partitioning of inhibitors between aqueous and hydrocarbon phases. At the extreme high temperatures and pressures of the Deepwater where cubic equations of state fail, SAFT produces accurate results for the densities of hydrocarbon components.

In this presentation, the molecular basis of the SAFT approach will be described. Applications of the SAFT model to asphaltene phase behavior and deposition as well as compositional grading of asphaltenes will be presented. Successes in predicting water content in hydrocarbons using SAFT will also be discussed. Further extension of the model in the form of a classical density functional theory to predict interfacial properties such as surfactant behavior will be presented.

Bio: Professor Walter G. Chapman is the William W. Akers Chair Professor of Chemical and Biomolecular Engineering and the Associate Dean of Engineering for Energy Research at Rice University. His research focuses on flow assurance issues in the energy industry and phase behavior and interfacial properties for the chemical and polymer industries. He is internationally recognized in industry and academia for his molecular models to predict properties of complex fluids in the energy and performance polymer industries. One of his models, the SAFT equation of state, has been the subject of a series of four international conferences sponsored by industry and academia in Europe. The SAFT 2015 conference will take place at Rice University, May 17-19, 2015. Among Walter's recognitions are multiple university wide teaching awards, the Donald L. Katz award from the GPSA and an outstanding Young Alumni Award from Clenson Univ. where he received his BS degree in Chemical Engr. He received his PhD in Chemical Engr. From Cornell Univ. After a brief career with Shell Development Company, Walter joined the Rice faculty in 1990. His wife, Cindy, and two sons are also engineers.

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Workshops begin at 5:30 pm (Workshops are free and open to public)**UEFA Workshop****Speaker: Doris Gonzalez****Asphaltene Issues in Deepwater Production Part I**

Abstract: In deepwater production systems, pressure and temperature conditions, complex reservoir characteristics, and various fluid phases flowing from the reservoir rock to the surface could defer production due to the formation and deposition of asphaltenes anywhere in the production system. This key risk factor can create significant impact on field development plan. Several approaches can be used in a tried to identify, mitigate and remediate this potential risk. The first of these series of presentations will summarized several critical aspects observed in the field related to the asphaltene precipitation and deposition phenomena. The current state of the art of asphaltene understanding , prevention and remediation doesn't provide clear solutions to the problem. Operator companies should closely work with service companies and academia to mitigate the risk.

Bio: Doris Gonzalez holds BSc in Chemical Engineering from the National University of Colombia. MSc in Chemical Engineering from the University of Oklahoma and a PhD in Chemical Engineering from Rice University in Houston on asphaltene simulation. Currently, she holds a Fluid Specialist position at BP America. Previously, Doris worked for Schlumberger as Flow Assurance Project Engineer and then she worked as the Data Quality Manager for the Reservoir Fluids Lab in Houston. She is the author of several technical papers related to flow assurance fluid characterization and modeling.

PSM Workshop**Speaker: Sandra L. Sewell****Fire Water Systems and Process Usage**

Abstract: Fire water systems are provided for chemical plants, refineries, terminals, and other industrial facilities for the purpose of supplying fire water to fire protection systems, hydrants, monitors, etc. Frequently, fire water systems are also used to supply non-fire protection related users. In such cases, it is important for owners to be aware of code requirements and regulations that may apply. This presentation will include a review of code requirements and industry standard practices relating to fire zones and estimated fire demands; fire water reserve supplies; restrictions for non-emergency usage; and other factors that should be considered.

Bio: Sandra L. Sewell, PE is a fire protection engineer with more than 25 years of experience in providing engineering and consulting services for the chemical process industry. She is the founder and principal of Fire Risk & Safety Technologies, LLC, an engineering firm that specializes in fire protection and safety consulting services. Sandra has a B.S. in Fire Protection Engineering from the University of Maryland.

Meeting Registration Information

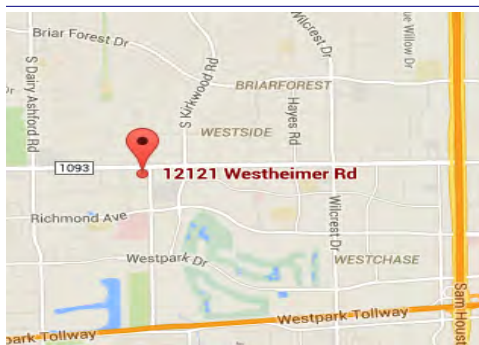
Membership in STS-AIChE is a bargain at \$20/year. If you wish to become a member, you may join at the registration desk at the meeting.

	Pre-Registration	Pre-Registration	At the door	At the door
	STS Members	STS Non-	STS	STS Non-
Regular/Retired	\$25	\$35	\$35	\$40
Student/unemployed	\$15	\$20	\$25	\$30

NOTE: You have until 4 PM CST on February 4th, 2015 to pre-register online. After that, you will be required to pay the higher cost at the door.

Pre-registration for the main and Satellite meeting is now open through our website at: <http://sts.aiche.org/>

Meeting Location— Pelazzio Banquet Hall



This month's meeting will be held at Pelazzio Banquet Hall (12121 Westheimer Rd, Houston, Texas 77077). Double click on the map to the left for directions from your location. There is no Satellite meeting this month. We plan to webcast the meeting live on our new [YouTube channel](#). For more detail information, please check our website <http://sts.aiche.org>.

STS AIChE November 2014 North Satellite Monthly Online Webcast

There will be no satellite dinner meeting this month. Instead there will be a LIVE webcast of the main meeting via our [Youtube channel](#). The webcast will start with announcements and awards at 7:30 pm with the main presentation at 8:00 pm.

The North Houston group is looking for a new venue for the simulcast meeting. The ideal venue should have;

- A capacity of 10-20 persons
- Ability to provide meals and drinks (including alcoholic beverages)
- A project and screen
- Easy access from major roads and freeways

Please contact Chris Tagoe at cctagoe@gmail.com for any suggestions.

February 2015 STS-AIChE Chair's Letter – Kelly Richardson

Dear Members of the South Texas Section- American Institute of Chemical Engineers:

The New Year has begun with a great start for STS-AIChE! I hope that everyone in attendance at the January 8, 2015 Monthly Dinner Meeting enjoyed the presentation on Hydraulic Fracturing given by George E. King. Diana Mollicone discussed Double Containment Piping Systems during the Workshop. We had a productive Winter Planning Meeting. The Young Professionals also held a successful Planning Meeting. Planning for the Southwest Process Technology Conference (SPTC) has continued. The Professional Engineering Review Course begun this month with 24 attendees.

You are probably wondering what STS-AIChE has planned for February. This month's meeting will be held on Thursday, February 5, 2015 at Pelazzio (12121 Westheimer Road, Houston, TX 77077). Walter G. Chapman, Associate Dean of Engineering for Energy Research at Rice University, will be our speaker. The title of his presentation is *A Molecular Model for Upstream Engineering Applications: Phase Behavior, Interfacial Properties, and Microstructure*. Doris Gonzales, Fluid Specialist at BP America will present a workshop on *Asphaltene Issues in Deepwater Production*. Sandra L. Sewell, Founder and Principal of Fire Risk & Safety Technologies, LLC, will present a workshop on *Fire Water Systems and Process Usage*.

National Engineers Week is February 22-28, 2015. Matthew Johnson will receive the 2014 Young Chemical Engineer of the Year award at the annual banquet. Congratulations Matthew! The PE Review course will continue through April. Planning for SPTC will continue throughout the year as well. We will have judges present at the Science and Engineering Fair of Houston in February.

We have a lot more planned for the year! Please consider volunteering so that you can make a difference in our profession as well as in the community. If you are interested in Leadership Development, Fundraising, Local Section Committee Support, Membership, and Communication volunteer activities please contact our Volunteer Coordinator Matt Kolodney at mklodney@tceq.state.tx.us.

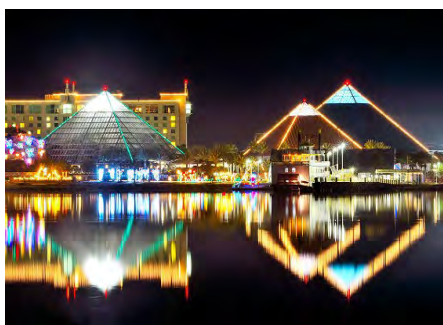
Thank you to all the volunteers that support the organization so that we can continue to serve our community! I look forward to seeing you at the upcoming monthly dinner meeting.

Sincerely,



Kelly Richardson
Chair, STS-AIChE

2015 AIChE Southwest Process Technology Conference



Save the Date: October 1-2, 2015

Venue: Moody Gardens Hotel & Convention Center

- October STS Dinner
- Openings for Sponsors, Exhibitors, Career Fair
- Speakers Needed

Preliminary information on the conference website: <http://www.aiche.org/conferences/southwest-process-technology-conference/2015>

Contact: Alan Rossiter at alan@rossiters.org or 713-823-3890

2015 Offshore Technology Conference “Heads Up”

The 2015 Offshore Technology Conference will be held again at NRG Park (*Formerly Reliant Park – Same Location, Different Name!*) in Houston, Texas on the May 4 - 7, 2015 with a special “5th” day on May 8. The OTC Staff has promised to issue a call for volunteers in late January. As soon as the request for volunteers has been made, it will be posted in a future issue of The South Texan. Each volunteer will receive a Free OTC Registration and Reserved Parking with in/out privileges for entire OTC. Each volunteer is required to attend the OTC Staff’s Mandatory Orientation Meeting that will be held on the morning of May 1st at 10:00 AM in Room 600 of NRG Center and serve as an OTC Volunteer for 4 to 5 hours in either the Arrangements, Registration, and Student Tours Committees.

For any questions contact Tom Menn (thomasmenn@SBCGlobal.net)

Houston Engineers Weeks Run-The Run of π



Over the years, The Houston Engineers’ Week Committee has organized several events for the benefit of the engineering community and the advancement of careers of young talented students in the greater Houston area. This year the committee is putting on a fun run (5K run, 1K walk), **The Run of π** to support Houston area Science, Technology, Engineering, and Mathematic (STEM) programs. The proceeds from The Run of

π will fund formal and informal programs at local Houston elementary, middle, and high school programs that support STEM programs. The fun run will take place on February 21st at 8:00 am at the University of Houston main campus, east of Lynn Eusan Park. If you are interested in running or volunteering please visit the website (www.theraceofpi.org) for details.

STS-AIChE Honors

South Texas Section-AIChE Honors 2014 Chair



2014 STS Chair Carol Schmidt (3rd from left) displays her STS Chair Appreciation Plaque. In the photo are (L to R) Nathan Schmidt (Carol's Husband), 2015 STS Chair Kelly Richardson, 2014 STS Chair Carol Schmidt, and 2013 STS Chair Gary Gildert.

2014 STS Young Professional Chair Honored by South Texas Section-AIChE

STS Chair Kelly Richardson (L) presents 2014 STS Young Professionals Chair Matt Johnson (C) with the STS YP Chair Appreciation Plaque while 2012 AIChE President David Rosenthal (R) looks on.



Matt Johnson (L) and his fiancé Amanda Kleiman ® display Matt's 2014 South Texas Young Professional Chair Appreciation Plaque

50 Year AIChE Member Honored at January 2015 Meeting at Brady's Landing



Doug White (C) displays his 2015 AIChE 50 Year Membership Certificate after receiving the Certificate from 2015 STS Chair Kelly Richardson (L) and 2012 AIChE President David Rosenthal (R) .

Doug received his BSChE from the University of Florida in 1965. In 1966 he received his MSChE from the California Institute of Technology (Caltech). Doug continued his studies at Princeton University receiving his PhD in Chemical Engineering in 1976 plus a Master of Arts. He is a Member of AIChE.

Doug joined Caltex Petroleum Corp from Caltech in their central engineering office in New York City. He was relocated to Australia at Caltex's oil refinery there and soon was a Group Leader in the Refining Technical Services Department. After five years, he rejoined Caltex Petroleum Corp. as a Corporate Process Specialist in New York. He then returned to university for his PhD and shifted careers to real time application software development and implementation with a focus on advanced control and optimization. In 1976 he was employed as Manager of Refinery Applications with Metromation, Inc. From 1979 through 1995, Doug held various positions with Setpoint Inc. with his last position being President and Chairman of the Board. After Setpoint Inc. was acquired by Aspen Technology Inc., Doug became Senior Vice President of Automation Technology for Aspen Tech where he remained thru 1996. In 1997, he founded Profitpoint Solutions Inc. where he remained thru 1998. In 1999 Doug became President of MDC Technology (USA) Inc after it merged with Profitpoint. In 2001 he moved to Emerson Process Management as Vice President of APC Services after Emerson purchased MDC. In 2009 he was named Director of Refining Industry Solutions for Emerson and is now a Principal Consultant with them. His career has involved extensive international travel and he has worked in or visited more than 60 countries – most multiple times. This has allowed Doug to work with chemical engineers from countries around the world which has been both very interesting and a source of professional satisfaction. Chemical engineers are a special breed!

Doug was an AIChE Student Chapter Member in college and is a member of the American Chemical Society, Instrument Society of America, and Institute of Electrical and Electronic Engineers - Control System Society. He has published more than 50 papers on a variety of technical subjects. In 2009, Doug received the AIChE Fuels & Petrochemicals Division of Annual Division Award. Another recent highlight was presenting an invited lecture to the Department of Mathematics at the University of Toronto under the auspices of the Fields Institute with the title "Industrial Applications of Optimization." It's not often that chemical engineers get to lecture to mathematicians.

During his personal time, Doug enjoys cycling as well as a variety of other sports and recently completed the MS150 ride from Houston to Austin. He and his wife are proud parents of three sons and a daughter and are positively beaming over their four grandsons. Doug serves as an Election Judge in Harris County – which incidentally has more registered voters than 14 states – and is responsible for administering federal, state and local elections in his section of the county. Doug stated that he has always been proud of his chemical engineering background and felt it prepared him well for his career and furthermore that the chemical engineering field is and has been a positive contributor to society. The AIChE has been instrumental in the development of this profession and he is pleased to have been associated with it through these 50 years.

Young Professionals Section



Young Professionals Board Members 2015

Please welcome the following are the YP Section board members for 2015.

YP Chair – Chaitanya Gottimukkala;

YP Vice Chair – Emily Jackson Crosby;

YP Treasurer – Carlos Mesta;

YP Secretary – Sumedh Warudkar;

YP Communication – Phuc Nguyen; Trevor Rice;

YP University Coordinator – Muhammad Murtaza;



YP Winter Planning Meeting

The YPs had a successful Winter Planning Meeting at Olive Garden on January 22. They planned for the upcoming year, had delicious food and elected new Board members. Above is a picture of the YPs at the meeting.

Young Professionals Section (Continued)

YP of the Month – Sumedh Warudkar



1. Tell us about yourself.

I'm originally from India. I graduated with a Bachelors in Chemical Engineering from National Institute of Technology Karnataka – a Govt of India. University in 2007. Following this, I joined the doctoral program in Chemical and Biomolecular Engineering at Rice University in Houston, TX. At Rice, I worked with Dr. George Hirasaki and Dr. Michael Wong on CO₂ separation technology for Carbon Capture and Storage. Along the way, I picked up a few things about Enhanced Oil Recovery, Catalysis and Nanotechnology – areas in which both my advisors were active. I received my doctorate in 2013 and joined Shell Oil Company in July, which is where I have been since.

I'm a borderline workaholic – I try to enjoy whatever work I'm involved in. Outside of work, however, I enjoy spending time with my wife, my two cats and doing endurance cycling. Thus far, I have completed FOUR 2-day/200 miler, 4 century rides and am scheduled to ride from Houston to New Orleans – 540 miles over 6 days in May 2015.

2. What do I like about my current job and what are your responsibilities?

I'm an "Energy Efficiency, CO₂ and Utilities Engineer" at Shell. Part of my responsibility is to help out assets improve their energy efficiency performance and design utility systems. The other part involves research in new EE technologies, CO₂ capture systems and related areas. It's a lot of fun since I get to learn about a broad spectrum of Shell businesses and do impactful research while doing so.

3. How has STS and AIChE benefited you?

I've been an AIChE member since 2006 – a student member for the longest time as I wrapped up my PhD. I have presented at AIChE conferences and always found them not just good technical forums to present research but great places to network. Academic networks is one part of the story but AIChE meetings are more than that. My first ever full-time job offer after finishing my PhD was received after a first-round interview at the AIChE Pittsburgh meeting in 2012. My involvement in the STS chapter is relatively new but I'm sure it will help me branch out, widen my network in the chemical engineering community and help me become a better chemical engineer.

Young Professionals Section (Continued)

4. Any advice for soon-to-graduate ChE students?


- a. If you are finishing up a Bachelors – think about graduate school. Making money is easy, what matters is how you make it. Don't decide on starting work because you will make more money. Graduate school (in my case PhD) gave me tools that are worth the extra time spent in school.
- b. If you are already in graduate school – don't get comfortable and procrastinate. The more you educated you become, the narrower your job opportunities get. So, start early, build a network, polish your communication skills. It's important to know what you bring to the table and even more important – how to sell these skills to a broad range of prospective employers. Take risks – always remember; in most cases, you need a job more than a company needs you.
- c. Finally, if you are an international student here in the US; engage with people beyond your home country. It's a rare opportunity to know someone from the world over and you'll benefit immensely from making these new friends than staying in your cocoon.

Support Houston Engineers Week Committee

WIN A SUITE FOR 14 PEOPLE AT A ROCKETS GAME!

Raffle Tickets are **\$20 each** or 6 for \$100. The drawing will be held Friday, **February 27, 2015** at the Engineer of the Year Gala. You don't have to be present to win! All proceeds benefit scholarships provided by the Houston Engineers Week Committee. To purchase tickets please contact Lisa Swanson (lisamswanson@hotmail.com) or Emily Jackson (e.jackson.ut@gmail.com).



The advertisement features a background with a gradient of red, orange, and yellow, with a large, stylized 'X' in the upper left. The HTRI logo is in the top left corner. The main title 'Xchanger Suite 7' is prominently displayed. Below the title, several key features are listed in white text. At the bottom, the HTRI logo is repeated on the right, and the tagline 'We're changing the future of heat transfer™' is on the left, with the website 'www.htri.net' on the right.

HTRI

Xchanger Suite 7

New module for plate-fin exchangers: *Xpfe*®

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Many new and improved features in *Xist*® including

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- X 3D visualization of exchangers**

HTRI

We're changing the future of heat transfer™

www.htri.net

It's Awards Time!

It is once again time to nominate an STS member for the 2014 South Texan Section Annual Awards:

- 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/content/award-nominations>

If you prefer the printed form, print out the forms from the next two pages.

AIChE 2014 Annual Awards

South Texas Section – AIChE 2014 Annual Awards Nomination Form

THIS NOMINATION FORM MUST BE RECEIVED BY MAY 1, 2015 TO BE ACCEPTED!

Mail the completed form to:

Thomas E. Menn
P. O. Box 458
Pearland, Texas 77588-0548

Or

Ryan Stephens, PhD
Shell Global Solutions (US) Inc.
Westhollow Technology Center
3333 Highway 6 South
Houston, Texas 77082
Tel: 281-544-8447
Ryan.Stephens@Shell.com

Tel.: 281-485-3719

ThomasMenn@SBCGlobal.net

Following receipt of the submitted nomination, you will receive an e-mail from the STS Awards Committee confirming receipt of the nomination after AIChE & STS Membership is verified. All Best Paper Nominees not Members of AIChE or STS will be allowed to join either or both until May 31, 2015 in order to be eligible for the recognition due a STS – AIChE Member Best Paper Award Recipient.

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

NOMINATOR'S NAME: _____
ADDRESS: _____
STREET: _____
CITY: _____ STATE: _____
ZIP CODE: _____
TELEPHONE NUMBER: AC: _____ NO: _____
E-MAIL 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: AC: _____ NO: _____
E-MAIL ADDRESS: _____

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

2014 STS Outstanding Young Professional Award (*Under age 35*) _____
2014 STS Distinguished Service Award (*Over age 35*) _____
2014 STS Best Fundamental Paper Award _____
2014 STS Best Applied Paper Award _____

For STS Outstanding Young Member or Distinguished Service Awards, please state the reason you feel that this person is deserving of this award back of this form and ignore the rest of the form. You may attach any supporting documentation to this form.

For Best Paper Nominations, continue and complete page 2 of this form.

AIChE 2014 Annual Awards

Please enter the name of the 2014 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	
	<u>AICHE</u>	<u>STS</u>
<i>Note: Only one author must be an STS Member.</i>		
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 addition Authors on an attached sheet as necessary.]

For Best Paper Nominations, please provide following information:

NAME OF PUBLICATION: _____

DATE OF PUBLICATION: _____

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

PLEASE ATTACH A COPY OF THE ARTICLE FROM THE PUBLICATION TO THIS FORM OR IF THIS IS NOMINATION IS TENDERED BY E-MAIL, PLEASE ATTACH AN ELECTRONIC VERSION OF THE PUBLISHED ARTICLE.

Following receipt of the submitted nomination, you will receive an e-mail from the STS Awards Committee confirming receipt of the nomination after AIChE & STS Membership is verified. All Best Paper Nominees not Members of AIChE or STS will be allowed to join either or both until May 31, 2015 in order to be eligible for the recognition due a STS – AIChE Member Best Paper Award Recipient.

STS-AIChE 2015 Monthly Dinner Meeting Schedule

Date	Location	Meeting Details (Speaker/Company/Topic)
January 8, 2015	Brady's Landing 8505 Cypress St Houston, Texas 77012	George E. King Apache Corporation Hydraulic Fracturing
February 5, 2015	Pelazzio Banquet Hall 12121 Westheimer Road Houston, Texas 77077	Walter G. Chapman, Professor-Chemical & Biomolecular Engr, Rice University
March 5, 2015	Brady's Landing 8505 Cypress St Houston, Texas 77012	Energy Forum
April 9, 2015	Pelazzio Banquet Hall 12121 Westheimer Road Houston, Texas 77077	George Hartmann Texas Board of Professional Engr Ethics-Joint Meeting with IEEE
May 7, 2015	To be determined	To be determined
September 10, 2015	Pelazzio Banquet Hall 12121 Westheimer Road Houston, Texas 77077	To be determined
October 1 & 2, 2015	Moody Gardens One Hope Blvd. Galveston, Texas 77554	Southwest Process Technology Conference
November 5, 2015	Brady's Landing 8505 Cypress St Houston, Texas 77012	Water Forum
December 3, 2015	To be determined	December Social

* Meeting details are subjected to change.

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.

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.

PE PDH Hours Qualified!!

The Texas Board of Professional Engineers (TBPE) will allow up to 3 continuing education hours per year for K-12 outreach activities, but only under certain circumstances. The STS K-12 coordinator checked this with the TBPE staff in Austin. STS-AIChE sponsors K-12 outreach presentations to high school classes (career day for example), science fair judging, explaining engineering careers to teachers (who will pass the information on to students), sponsored tours for students and teachers at OTC, and one-on-one counseling of students. TBPE prefers a certificate from the sponsoring organization (such as STS) explaining what was done, stating the number of PDH hours, and certifying that the engineer actually participated. If you participate in an STS-AIChE K-12 outreach event and want PE PDH credit, the STS will provide the certificate.

Call for Volunteers Official Greeters

The STS is looking for two volunteer official greeters, one a young professional and one chronologically mature. Their goal is to greet first-time attendees (or members who haven't attended for a while) of monthly meetings, to help them feel comfortable and welcome, tell them a little about the STS and the meeting, and to introduce them, as needed, to our regular attendees. We are looking for volunteers who:

- Frequently attend monthly meetings (arriving by would help)
- Get along with most people
- Are reasonably acquainted with the STS-AIChE and its members, though we can help with that
- will briefly point out a potential benefit or two of active involvement in STS-AIChE

Our monthly meetings occur on a Thursday after work, and may already have put in a 40+-hour week. An ideal volunteer would enjoy dealing with new attendees and would become energized rather than tired out by dealing with people they don't already know well.

More Volunteer Opportunities

In STS-AIChE, we have an opening for a K-12 volunteer. Instead of you having to reinvent the wheel, we can help you with any of the following:

- Advice on how to get started productively;
- The opportunity to attend K-12 events of other organizations, in order to learn how to conduct an AIChE K-12 outreach event;
- Networking opportunities to get contacts in local school systems;
- Assistance in recruiting STS volunteers;
- Conducting intersociety activities to help your programs reach critical mass;
- Help in conceiving and developing a K-12 outreach program suitable for STS-AIChE to lead.
- Opportunities to develop and practice your interpersonal skills and to learn and practice leadership

STS Membership Committee Members seeking members who would be interested in some or all of the following:

- Identify the varied opportunities for STS volunteers
- Greet first-time attendees—help them feel welcome introduce them to other STS members
- Contact them periodically—encourage them to come back
- Encourage them to gradually get involved in STS
- Gradually get to know the new members first-timers and their interests
- Suggest STS volunteer activities that interest them & help them grow
- Encourage them to practice their leadership and their project management skills in service to the STS
- A great opportunity to develop your people skills & leadership skills by helping develop those capabilities in the STS and its members

Volunteer opportunity helping represent STS-AIChE at ECH (Engineering, Science, and Technology Council of Houston): Seeking a volunteer who would like to network with and learn from members of other professional societies, develop leadership skills, and help provide broader volunteer opportunities for STS members, Options include:

- Work with ECH councilors from other local engineering and science, societies, as well as officers of
- the other member societies;
- Learn how they run their organizations, and bring some of their ideas back to STS-AIChE
- Participate in intersociety workshops on technical issues that affect the Greater Houston Area
- Get involved in the organization of the regional science fair;
- If you are interested in a particular type of volunteer activity, we'll help you organize intersociety activities in that area
- If you're a YP, we can help you organize intersociety YP events that STS-AIChE doesn't have the critical mass to conduct on our own;
- Your learnings from ECH could be very helpful to you as a future manager at work or as a future leader in STS and AIChE

If you are interested, or would like further information, contact: Matt Kolodney, STS Volunteer Recruiter at 713-471-8956 or matthew.kolodney@tceq.state.tx.us

Volunteer for the 2015 Regional MathCounts Competition

Volunteer for the 2015 Regional MathCounts Competition being held on Saturday, February 14, 2015 from 8:00 am to 1:00 pm. The competition will be located at Fluor Enterprises, Inc. Sugar Land Complex (1 Fluor Daniel Drive, Sugar Land, Texas 77478). All interested volunteers should RSVP by 02/06/15 to Patricia Frayre (pfrayre@frayre-ec.com).

South Texas Section to Initiate Company Liaison Program

The South Texas Section (STS) of AIChE is implementing a Company Liaison Program. Gary Gildert (STS Past Chair) and Carol Schmidt (STS Chair) are heading up the initiative.

The intent of the program is to have a liaison contact at companies in the region that employ a large group of Chemical Engineers, so that the liaison can pass on information on upcoming events, and encourage attendance at STS-AIChE Events.

This program will make it easier for Chemical Engineers to learn about meetings and events that may interest them, and by providing a “personal touch” and intra-company networking opportunity, overcome potential fears or objections to participating. The program will also provide a potential opportunity for employees to be recognized as leaders within their company.

Responsibilities and benefits are listed in the table below.

STS-AIChE	Liaison	Company
Responsibilities		
<ul style="list-style-type: none"> ✦ Provide meetings and events ✦ Maintain list of liaisons ✦ Send out special emails to liaisons ✦ Advertise program and recognize liaisons and companies 	<ul style="list-style-type: none"> ✦ Forward STS-prepared emails to department/group ✦ Create meeting invitations for coworkers ✦ Try to set up carpools where able ✦ Attend meetings where possible ✦ Interface with Company Management on STS activities and sponsorship opportunities (as applicable) ✦ Provide feedback to STS Officers on company 	<ul style="list-style-type: none"> ✦ Support the liaison ✦ Advertise where applicable
Benefits		
<ul style="list-style-type: none"> ✦ Higher attendance ✦ Better corporate relations 	<ul style="list-style-type: none"> ✦ Personalized Nametag for meetings ✦ Demonstrated leadership within company ✦ Increased networking ability within corporation ✦ PDH credits/technical education 	<ul style="list-style-type: none"> ✦ Recognition at meetings ✦ PDHs / education for employees ✦ Networking/team building opportunities

There is no cost for liaisons or companies to participate. Participation as a liaison is completely voluntary, and companies can transition to a new liaison or end their participation at any time.

The intent is for the Past Chair to maintain the program on an ongoing basis.

For more information, or to sign up as your company's STS-AIChE liaison, contact **Gary Gildert** at (281) 433-4283 or sts-pastchair@aiche.org.



South Texas Section AIChE

STS AIChE Primary Business Address
Address Line 2
Address Line 3

2013 Officers and Contact Information

Officers

Chair Kelly Richardson
sts-chair@aiche.org

Chair Elect Sysmal Poddar
sts-chairelect@aiche.org

Past Chair Carol Schmidt
sts-pastchair@aiche.org

Secretary Katherine Leskin
sts-secretary@aiche.org

Treasurer Carlos Salamanca
sts-treasurer@aiche.org

Executive Committee

Position 1: Education
Shane Tierling
sts-position1@aiche.org

Position 2: Outreach
Bill Epling
sts-position2@aiche.org

Position 3: Communications
Linton Wong
sts-position3@aiche.org

Position 4: Human Resources
Dale Embry
sts-position4@aiche.org

Volunteers

Arrangements: Paul Tripathi
John Middleton

Membership: David Silarski

Young Professionals: Chaitanya Gottimulakala
(sts-yp@aiche.org)

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 2014

We will become an organization with strong and active membership. We will accomplish this through:

1. Increasing awareness
2. Improving relevancy of our programs
3. Improving our governance
4. Hospitality/Welcome/Social

— 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)



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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.

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