



Monthly Meeting November 7th, 2013

Central Location: Brady's Landing 8505 Cypress St. Houston (Water Forum 4 to 6 PM-register at <http://texasiof.ceer.utexas.edu/tiof/1172013WaterForum.asp>, Social Hour at 6PM, Dinner at 7 PM; pre-register at <http://sts.aiche.org/>)

Satellite Location: Cilantro's Mexican Grill, (Sawdust Rd location in The Woodlands) Social Hour at 6 PM; Dinner at 7 PM, Technical program at 7:45 PM; pre-register at <http://sts.aiche.org/>

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November Meeting is sponsored by



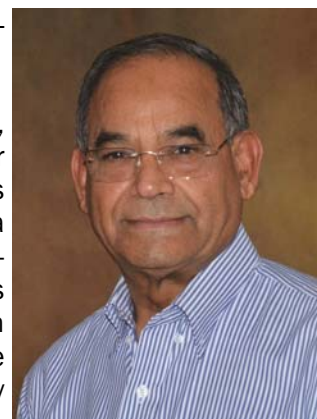
Topic: SAGD Produced Water Treating

Dinner Speaker: Rafique Janjua, Fluor

Abstract:

Oil fields produced water recovery; its treatment can be challenging and expensive depending on its intended reuse. Produced water treatment required for overboard outfall from offshore platforms, verses water flooding for enhanced oil recovery, verses steam flooding requires different technologies and is progressively more capital intensive. My presentation today is about how the prevailing technologies used in steam assisted gravity drain (SAGD) produced water treatment can be improved, either by combining or outright replacing some operating units with innovative yet valid chemical processes which can deliver an optimum water treatment system resulting in lower capital cost, lower operating cost, lower green house gases (GHG) and lower waste production.

Bio: Rafique Janjua is Director, Process Technology, and Senior Technical Fellow, for Water and Wastewater Processing Systems for Fluor Enterprises, Inc. He has a BS in Civil-Environmental Engineering from Arizona State University, and an MS in Environmental Engineering from University of Virginia. He has forty one years experience in the Engineering Industry, specializing in water treatment and wastewater treatment systems. He has presented several technical papers, and currently has four patents pending.





Texas Industries of the Future

“Industrial Water Reuse and Desalination” Texas Industrial Water Management Forum

Thursday, Nov. 7, 2013

Brady's Landing

8505 Cypress St.

Houston, Texas 77012

4 to 6 pm

To register, go to <http://texasiof.ceer.utexas.edu/tiof/1172013WaterForum.asp>

3:30 to 4:00 pm	Forum Registration and Visit with Exhibitors
4:00 to 6:00 pm	Industrial Water Management Forum See program below.
6:00 to 7:00 pm	Networking and Exhibition (sponsored by AIChE-STS – information below)
7:00 to 9:00 pm	Optional AIChE-STS Dinner and Speaker (non-members are welcome – information below)

Many regions of the US and world face water resource constraints in terms of quantity and/or quality. Current solutions to address this constraint at chemical plants and refineries can incur a significant energy penalty. A common concern of the process industries with Texas locations is that “water is cheap until it’s not there”, which makes it challenging to engage management and secure capital for technology investment before there is a crisis. Some plants are already seeing restrictions on water quantity, although for others, this remains a distant threat. Water reuse and accessing un-conventional sources holds promise. This Forum will explore the interaction between water and energy use in the process industries and the potential of new water management strategies and treatment technologies.

Forum Moderator

Frank Roberto, ExxonMobil Chemical
Chair, Texas IOF Chemicals and Refining Advisory Committee

Presentations

Technology Forum—Laying the Groundwork

Frank Roberto, Chair, Texas IOF Chemicals and Refining Advisory Committee

The speaker will be presenting the results from the *Technology Forum: Sustaining Industrial Energy Efficiency in Process Cooling in a Potentially Water-Short Future* held June 19, 2013 in Houston.

Innovative Water Technology in Texas: Meeting Current and Future Water Needs

Brenner Brown, Management Analyst, Texas Water Development Board

The speaker will present an overview of the TWDB’s Innovative Water Technologies’ programs and the growing trend of using innovative technologies identified as strategies in the State Water Plan to meet water supply shortages due to drought.



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To register, go to <http://texasiof.ceer.utexas.edu/tiof/1172013WaterForum.asp>

Water Fit for Use

Ronald Tebbetts, Nalco Champion

The speaker will address the implementation of water reuse/recycle projects in an industrial setting and the potential pitfalls and problems that may be encountered. At the end of the discussion, the user will have a firm understanding of what needs to be considered during the design phase of a reuse/recycle project. Examples of successfully implemented reuse/recycle projects will also be presented. The speaker will also address how reuse recycle projects can be expected to impact plant energy systems.

Water Reuse and Desalination – Challenges and Enabling Technologies

Christian Frye, GE Water and Process Technologies

An overview of the technical and regulatory challenges associated with water reuse and desalination in Texas. Technologies typically used in water reuse and desalination will be reviewed including Membrane BioReactors (MBR), Reverse Osmosis (RO), Ultra-filtration (UF), ElectroDialysis Reversal (EDR), and Zero Liquid Discharge (ZLD).

Questions & Answers

There is no cost for attending the Water Forum; however, pre-registration is requested so that we can provide adequate facilities. To register, go to <http://texasiof.ceer.utexas.edu/tiof/1172013WaterForum.asp>

If you are interested in exhibiting at the event, contact Alan Rossiter, STS-AIChE, at alan@rossiters.org or 713 -660-9503.

Funding for the Water Management Forum is provided by the State Energy Conservation Office of the Texas Comptroller of Public Accounts.

Networking and Exhibition Session, 6 – 7 pm

A number of companies who bring value to water management 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.

STS AIChE Dinner with Speaker—7 pm

Following the Networking event, you are invited to attend the South Texas Section of AIChE's dinner meeting and speaker at Brady's Landing. Register and pay for the dinner separately at <http://sts.aiche.org/>

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.

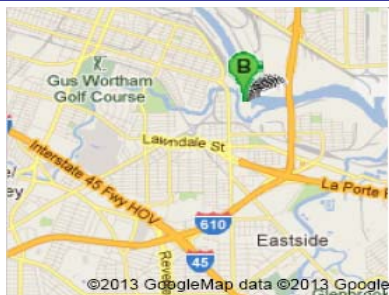
	Pre-Registration Members	Pre-Registration Non-Members	At the door Members	At the door Non-Members
Regular/Retired	\$15	\$25	\$25	\$30
Student/unemployed	\$10	\$15	\$20	\$25
North Houston satellite meeting location	\$12	\$12	\$15	\$15

NOTE: You have until 4 PM CST on November 6th 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— Brady's Landing



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 left for directions from your location. The satellite meeting will be held at [Cilantro's Mexican Grill](#), (Sawdust location) at 314 Sawdust Rd, The Woodlands, TX, 77380 . Double click on the map below for directions. This location provides a quiet, private room upstairs for meeting. More details are included in the next section below.

North Houston Satellite Meeting Information—Cilantro's Mexican Grill @ Sawdust Road.

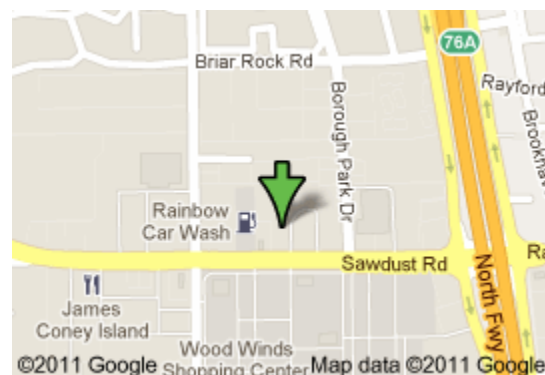
Join us without driving too far for some local networking at The Woodlands/North Houston satellite meeting! We have our own social/networking program.

Due to the wonders of modern technology we have access to the great speakers provided by STS at the main meeting. This month's meeting Thurs., November 7, will once again be at Cilantro's (**formerly Rico's**) Mexican Grill at 314 Sawdust Rd, The Woodlands, TX, 77380. On-line pre-registration is available but not required. Order your dinner off the restaurant menu. Contact Chris Tagoe (cctagoe@yahoo.com) with questions or special needs. Guests are welcome, please spread the word!

Schedule :

- ♦ 6:00 PM Social hour
- ♦ 7:00 PM Dinner. Order off the menu
- ♦ 7:45 PM Remote tie-in with STS-AIChE technical program
- ♦ \$12.00 in advance / \$15.00 at the door

All guests are welcome!



November 2013 STS-AIChE Chair's Letter – Gary Gildert

The SouthWest Process Technology Conference, held October 3-4, 2013 in Galveston, was our best ever. Many thanks go out to Alan Rossiter, Jayce Mathews, Ian Glasgow, Richard Newman, all of the other dedicated STS volunteers, and the AIChE staff from NYC for making this a great event. And thank you to our sponsors and exhibitors who add value and make the event financially possible.

How often in a conference do you have to make a difficult decision choosing which paper to go to when two good potentially good ones are on at the same time? There were so many outstanding papers it was hard to choose. This year, I had the privilege of the session chairs picking the best ones for me to see! It was not because I am the section chair or a fellow session chair, but I volunteered to be a "Best Presentation" judge. This is a nice privilege open to all STS members. Please consider being a volunteer next year. Most of this year's presentations slides are available via the AIChE website and many of the presentations will be available via ChemE on Demand.

Our dinner speaker was Dr. Bonnie Dunbar, Leader of The University of Houston's newly created STEM Center and Former NASA Astronaut. Her talk: "Exploring Space and Investing in the Future: Perceptions and Experiences of a NASA Astronaut" was both informative and inspirational. If you missed it, the presentation slides are available here: <http://www.aiche.org/sites/default/files/docs/embedded-pdf/sts-october-meeting.pdf> and the presentation recording will be available via ChemE on Demand.

Next month is going to sound familiar, but it is a new event – the Water Forum. The afternoon program has been organized by Kathey Ferland, the same person who brings us the Energy Forum in the spring. Please look for the details of this program later on in this newsletter. Our dinner speaker is Rafique Janjua from Fluor. The title of his talk is "SAGD Produced Water Treating".

If you cannot make it down to Brady's Landing for the dinner, please consider our satellite meeting in the Woodlands <http://sts.aiche.org/event/sts-aiche-november-2013-north-houston-satellite-meeting> or join us on-line by dropping me an email at sts-chair@aiche.org.

We have a good number of volunteer opportunities available for our members from half day commitments through multi-year opportunities. Please see the section entitled "Call for Volunteers" later in this newsletter.

Please feel free to forward this newsletter and e-mails that you get from me to others that may be interested in our programs and activities. While attendance at our meetings has been good relative to historical standards, I know that there are many more professionals in the region that would benefit greatly from our events, which are open to everyone, not just Chemical Engineers or STS members.

I would also like to encourage everyone to share your ideas and suggestions with me and other members of the Executive Committee. In most cases, we can help you turn a good idea into action. Together, we can continue to make the South Texas Section of AIChE a place of community, fellowship and education for us all.

Sincerely,

Gary Gildert
Johnson Matthey

2013 AIChE Southwest Process Technology Conference Wrap Up

This year the Southwest Process Technology Conference (SPTC) returned to the Moody Gardens in Galveston, TX, in the first week of October. It was a record-setting event with just under 500 attendees.

The keynote speaker for the conference was Lynne M. Lachenmyer, Senior VP at ExxonMobil Chemical Company, who spoke about “U.S. Chemical Industry Revitalization: Impact of Abundant Shale Gas Supplies.” She spoke about the background of Shale Gas and Tight Oil, and all of the price advantages and opportunities they are creating through low cost chemical feedstock, low cost energy, reduced GHG emissions (mainly by replacing coal with natural gas in power generation), and the improved economics for U.S. industry as a result of the increased exports of finished products. Lynne also highlighted a major concern for the future: the potential shortage of suitably qualified personnel. She encouraged us as chemical engineers to become more active in mentoring and to improve the education that our children receive.

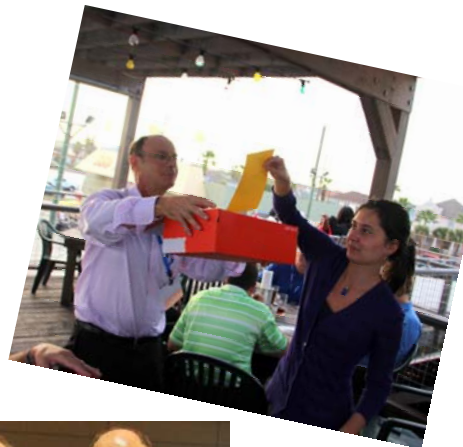
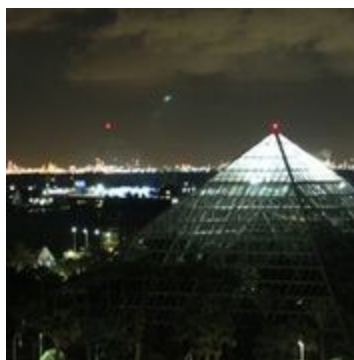
Bonnie Dunbar, retired NASA astronaut and now leader of the STEM center at the University of Houston, was the dinner keynote speaker. Bonnie continued the discussion about the need to improve technical education. She showed how in the US we have not been expanding our engineering base for the last 20 years, while developing nations like India and China have been increasing theirs. We need to improve and increase our engineering talent pool to support the expanding opportunities in our industry.

This year SPTC added a Best Presentation Competition to the Technical Program. The competition was a great success, and the conference produced a large number of excellent presentations. The winner was Damo Vedapuri of Tridiagonal Solutions Inc., for his presentation on “Improving Process Performance of Ethylene Crackers.” We would like to thank all the Session Chairs and Co-Chairs for tracking down the excellent technical presentations that provided great value to all attendees.

The SPTC also added a Student Program and a Career Fair this year. Seventy students attended the program and ten companies participated in the Career Fair. Both were very successful, and we anticipate continuing them next year. In addition, we continued our annual exhibition, and this this year we had thirty exhibitors – not a record, but a very healthy number.

The conference would not have been possible financially without the generous financial support of our many sponsors and the tireless efforts of conference leadership team: Program Chair Jayce Mathews put together an excellent technical program that provided the backbone of the conference. Conference Co-Chair Ian Glasgow organized the Student Program. AIChE Technical Programming Project Associate Stephanie Orvoine-Courvette worked behind the scenes in a variety of capacities to ensure the success of the conference, and Richard Newman managed on-site arrangements. Alan Rossiter once again served as Conference Chair.

Next year's SPTC is scheduled for Thursday and Friday October 9-10, 2014. Don't miss it!



The SPTC Would Like to Thank Our Sponsors!

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The SPTC Would Like to Thank Our Sponsors! (Continued)

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Young Professionals Sections

YP October Southwest Process Technology Conference



STS members and the YPs had a great time at Post-Conference Mixer organized by Emily Jackson and the Young Professionals once the 5th Southwest Process Technology Conference presentations were finished. Above pictures were taken at the Mixer.

December Meeting

The Young Professionals will organize our end of the year meeting. Please save the date for December 5th. Dinner will be at The Spaghetti Warehouse. We will be entertained by the Celebrity Mystery Theater.

Young Professionals Sections (Continued)

YP Giving—Vanessa Jasso

1. Tell us about yourself

My name is Vanessa Jasso and I have been working for Cameron for approximately two years now as a Project Engineer. I graduated in 2011 with a bachelor's degree in Chemical Engineering from the University of Houston. I am a Mexican-American born and raised in Houston, TX. Some of my hobbies I take pleasure in is mountain biking, playing foosball, interior design, arts and crafts and spending time with my family.



2. What do you like most about your current job and what are your responsibilities?

Currently I am a Project Engineer for Seawater Treatment in Custom Process Systems division. Some of my responsibilities include reading specifications, talking to vendors for subcontracting packages, creating technical requisitions, checking and approving drawings and P&IDs. What I like most about my job is that I have the opportunity to get exposed to the different Cameron technologies. I also enjoy having the opportunity to interact with other functional groups such as logistics, procurement, management, design, valves and instrumentation. This broadens my opportunity to learn different aspects in this type of industry.

3. How has STS and AIChE benefited you?

I was part of the undergrad AIChE organization at the University of Houston and had the opportunity to attend the Salt Lake City National Conference along with a couple of regional conferences. Attending these meetings was beneficial to me because it gave me a chance to network with students all over the country and companies from all over the world. It was such a motivational experience to see such knowledgeable people reaching for the same success. From these conferences I was able to learn all the options chemical engineers had in the real world by hearing guest speakers' experiences and this also lead me to choose the path I'm in today.

4. Any advice for the ChE students who will graduate soon?

My advice for ChE students soon to graduate or even students just starting is to never give up. To try the best you can because every class and every subject is important. Getting internships can help students gain experience and learn more about the industry. To join AIChE and become an active member because you don't just form study groups but you also gain long term friendships. The STS-YP chapter also welcomes undergrad students that can give you advice and perhaps even host a general meeting for Q&A's, this would be helpful for students because it would give them more insight to the life after college.

5. Was there an STS-YP project that you worked on that you found valuable?

I am happy to say that I was able to help guide STS-YP AIChE into having a plant tour at Cameron's R&D Center for the month of August. It was brought up when the STS chapter hosted a happy hour social event where I spoke to the AIChE STS president, Carlos Salamanca, and he mentioned that a tour for the company I work for would be appealing. It was a great turnout because the audience consisted of both enthusiastic YP's and undergraduates; in fact I attended this tour for the first time. It was a great experience to see where the technology I work with originally came from. I found this valuable because not only did I stay connected with AIChE STS but I was able to cooperate in making this tour possible. I plan to continue giving back so that others can enjoy and benefit from events like this.

6. Was there an AIChE webinar or e-learning course that you have or would find valuable?

There are a few webinar courses I find would be valuable to take for the industry I'm in. The *Quality Assurance and Quality Control of Pressure Relief Studies* is one of the courses, almost all plants can benefit from this as pressure relief systems must be used in all processes. I find *From Wet Algae to Liquid Fuels* course very interesting since it's a new and relatively simple process that can possibly go commercial in the near future.

We want to continue with our YP giving initiative, where the YP's sponsor one young member - including ChE students - at each of our monthly dinner meetings. To qualify, the recipient will have to be involved or share new ideas about YP activities that will be beneficial to the group. If you are interested email 3-4 sentences to sts-yp@aiche.org and we will let you know if you are considered the winner. Please share this message with your young colleagues and encourage them to participate with us.

Young Professionals Sections (Continued)

Featured YP of the Month – Katherine Leskin

1. Tell us about yourself

I am a native Houstonian who left to attend MIT. After graduation, I worked at the Chemical Safety Board for two years before returning to Texas to work for Fluor. I am a member of the Fort Bend Symphony Orchestra cello section, the Greater Houston Rowing Club, my neighborhood's home-owner association, and an avid fiction reader. My 2012 trip to Tanzania where I summited Mount Kilimanjaro during a six-day hike with the help of strong porters carrying most of the gear is my most adventurous travel experience to date.



2. What do you like most about your current job and what are your responsibilities?

I am a process engineer at Fluor. My responsibilities vary with the project and phase of project I'm assigned to, but the more common tasks are preparing simulations, heat and material balances, equipment data sheets, process flow diagrams, and piping and instrumentation diagrams. Also, as a carry over from a previous role, I still manage a few software licenses for the process department. Although not one of those tasks is awful, I enjoy running simulations and learning new uses of software— at least when I'm not faced with mysterious error messages that aren't resolved by reading support materials. Also, attending review meetings with plant personnel can be a treat. Listening to people talk about a system they know well can clear up a lot of confusion quickly; it can also make you humble.

Although it might seem a little grandiose, even though not all the projects I work on are built and most have design lives of less than 50 years, I like that when you think about it, the work that Fluor does as a company has similarities to grand engineering projects of history, like the water duct systems of the Incas or Romans, the pyramids, and the manufacturing of medicines.

3. How has STS and AIChE benefited you?

STS and AIChE help me not forget about the other kinds of chemical engineering that go on. It's easy to focus on just what you are working on, but maintaining some perspective of how what you're doing fits in with the larger industry is beneficial when talking with colleagues or clients. I think if I were to look for a new job, the contacts I've met through AIChE may be helpful. For example, after a conversation about tourism in Alaska (mixed in with some work talk) at a recent monthly meeting, I received a business card and hint that if I ever wanted to move there to work, his company would like to speak with me. Also, I contacted Fluor for the first time while at an AIChE conference in Houston. Visiting Fluor's booth led to a short interview with the department manager during the conference that turned into an invitation for a regular interview.

4. Any advice for the ChE students who will graduate soon?

Strengthen your friendships with your classmates. College is a special environment that you should enjoy— just not so much that you have to stay longer. Completing an internship is beneficial when it comes to getting a full-time job. The closer it can be to the kind of work you want to do, the better, but try to make sure that it's something you can relate to a full-time job without over-stretching the link.

5. Was there an STS-YP project that you worked on that you found valuable?

I think that serving as the STS YP Treasurer caused me to be nominated for the role of section Treasurer. The YP position was a gentle introduction to the finances of the section. I've enjoyed going on YP plant tours and was happy to connect the YP group with a tour at Watson Valve, where attendees saw how severe service valves are made.

6. Was there an AIChE webinar or e-learning course that you have or would find valuable?

In the past, I've watched a few recorded webinars from the AIChE website to complete my continuing education requirements for my PE license renewal. I especially enjoyed one that discussed the chemistry of cooking.

Young Professionals Sections (Continued)

YP University Visits

Prairie View A&M University

The YPs would like to thank PVAMU, especially to Paola Flores and Dr. Irvin W. Osborne-Lee for hosting the meeting for us. Carol Mak and Carlos A Salamanca enjoyed their company and had a great time.



Rice University

On October 8th, Marianne Braun and Carol Mak gave a comprehensive presentation to junior and senior students over at Rice University. We want to thank Jenny An Deugheyeong for all the preparation.



Young Professionals Sections (Continued)

YP Plant Tour

On September 27th, we visited three different facilities: Watson Grinding, Watson valve and Watson Lab. Watson Grinding & Mtg. is a full-scale machine shop, offering specialty carbide and ceramic thermal spray coatings via HVOF and Plasma application. Watson Valve Services specializes in the custom design, repair and modification of severe service ball valves. We want to give our appreciation to Kelly Watson, and Omer Cloutier for their hospitality. The group learned valuable information about coatings, valves, machining processes, and metallurgy.



Sally Ride Science Festival

The Young Professionals volunteered at the Sally Ride Science Festival once again. This festival is held at Rice University every October. This event is geared towards students in 4th through 8th grade who are looking for Math and Science-oriented careers. Our volunteers performed Chemical Engineering related science experiment with the kids. Special thanks to Carol Mak, Daniel Moeller, Mojdeh Mirzareza, Laura Mahany, Carlos Mesta, Trevor Rice and our activity leader Lisa Swanson.



Young Professionals Sections (Continued)

YP recognition

Young Professionals recognized ExxonMobil for allowing the group to visit the Baytown Refinery earlier in the year.



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PE Refresher Course Offered Spring 2014

The STS-AIChE & the University of Houston will sponsor a Chemical Engineering Professional Engineering Review Course, Spring of 2014.

The course will be held at UH from 4:00 to 7:00pm on Friday afternoons beginning January 17 through April 4. The cost for the course (not including books) is \$875 for non-members, \$650 for members of both National AIChE and STS-AIChE.

We have continued to update the curriculum based upon feedback from the students over the past three course offerings.

Registration is open until December 20. Contact Dale Embry at dale.l.embry@member.aiche.org or 832-815-1552 for more information.

Preliminary Schedule - Spring 2014 PE Exam Review Course for Chemical Engineering

Dates 2014	Topic	Instructor
17-Jan	Introduction; Mass/Energy Balances & Thermo I	Dale Embry
24-Jan	Mass/Energy Balances & Thermodynamics II (3)	Gary Gildert/Dale Embry
31-Jan	Thermodynamics III (1); Fluid Mechanics I (2)	Dale Embry; Todd Willman/Carol Schmidt
7-Feb	Fluid Mechanics II (3)	Todd Willman/Carol Schmidt
14-Feb	Heat Transfer I (3)	Dennis Glascock
21-Feb	Heat Transfer II (1); Separations Processes (2)	Dennis Glascock; Jose Bravo
28-Feb	Separations Processes II (3)	Jose Bravo or Carlos Trompiz
7-Mar	Kinetics I (3)	Gary Gildert
14-Mar	Spring Break	
21-Mar	Kinetics I (1); Plant Design & Economics (2)	Gary Gildert; Dale Embry
28-Mar	Plant Design & Operations (3)	Katherine Leskin
4-Apr	Sample Test Exam (3)	

All classes will meet on Fridays from 4:00 - 7:00 P.M.

Important Dates:

PE Exam: Friday, April 11, 2014

Application Deadline: Monday, December 13, 2013

PE Review Course Registration Deadline: Friday, December 20, 2013, 5:00pm

PE Exam Registration Deadline: Thursday, February 20, 2014

UH Contact: Nicolette Solano

Phone: 713-743-4304

Email: nsolano2@Central.UH.EDU

AIChE Contact: Dale Embry

832-815-1552

dale.l.embry@member.aiche.org

Texas Board of Professional Engineers (TBPE) www.tbpe.state.tx.us

National Council of Examiners for Engineering and Surveying (NCEES) www.ncees.org

Books used in the course: Study Materials can be found at <http://ppi2pass.com/> & www.ncees.org

✦ Chemical Engineering Reference Manual for the PE Exam ISBN-10:1-59126-007-8

✦ NCEES PE Exam Chemical Sample Questions and Solutions ISBN:978-1-932613-52-0

2014 Chemical Engineering PE Exam Review Course Registration Form

Books used in the course: Study Materials can be found at <http://ppi2pass.com/> & www.ncees.org

- Chemical Engineering Reference Manual for the PE Exam ISBN-10:1-59126-007-8
- NCEES PE Exam Chemical Sample Questions and Solutions ISBN:978-1-932613-52-0

Name (First Last) _____

Preferred Email Address _____

Phone Number (must accept text messages) _____

Shipping Address

Address _____

City _____ State/Province _____ Postal Code _____

Billing Address check if same as shipping address ☐

Address _____

City _____ State/Province _____ Postal Code _____

Drivers Licence (#,State): _____ Birthdate (mm/dd/yy): _____

Gender ☐ M ☐ F

Payment Type Visa Mastercard Discover Check (enclosed)

Card # _____ Expiration Date _____ Security Code _____

AICHE Membership Number (for discounted membership price) _____

I authorize STS-AIChE to charge \$ _____ for payment of the PE Exam Review Course using the above credit card information provided.

For National AIChE & STS members - \$650

For non-members - \$875

Signature _____ Date _____

Please send this registration form to:

e-mail: dale.embry@member.aiche.org

Mail checks to:

STS-AIChE
P.O. Box 421373
Houston, TX 77242

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

Limited space - reserve your space now (cut-off for class registration - December 20th)

Cancellation Policy - by 12/15 - full refund, 12/20 - ½ refund, after 12/20 - no refund

South Texas Section 2012 Annual Awards Presented At October 3 Dinner Meeting

The Thursday, October 3, Monthly South Texas Section Dinner Meeting served as the venue for the presentation of the Annual South Texas Section Awards for 2012. The awards presented were the Best Applied Paper, Best Fundamental Paper, Outstanding Young Professional, and Distinguished Service.

2012 STS Best Paper Awards Judging Committee

The 2012 South Texas Section - AIChE Best Papers Competition had a total of eight papers submitted with four in the Applied category and four in the Fundamental category. The papers were judged by a Committee chaired by Anand Nilekar and Ryan Stephens of Shell (Westhollow Research Center) and composed of the following judges:

Anand Nilekar, Chair
Flavia Cassiola
David Denley
Luis Filobelo
Amrit Kalra
Rama Vaidyanathan

Ryan Stephens, Co-Chair
Sue Degaleesan
Smita Edulji
Zhongxin Huo
Mike Reynolds

The South Texas Section – AIChE wishes to thank all those who participated in the completion and all those who worked to make the completion a success.

2012 STS Best Applied Paper Award

The STS 2012 Best Applied Paper is "*Inexpensive Method for Producing Macroporous Silicon Particulates (MPSPs) with Pyrolyzed Polyacrylonitrile for Lithium Ion Batteries*" published in **Nature/Scientific Reports**, 2:795 by Madhuri Thakur, Steven L. Sinsabaugh, Mark J. Isaacson, Michael S. Wong, and Sibani Lisa Biswal.



Dr. Sibani Lisa Biswal (R) poses with the 2012 Best Applied Paper which was presented to her by 2013 STS Chair Gary Gildert (L).

South Texas Section 2012 Annual Awards Presented At October 3 Dinner Meeting (Continued)

2012 STS Best Fundamental Paper Award

The STS 2012 Best Fundamental Paper is "Surface Wrinkling in Liquid Crystal Elastomers" published in The Royal Society of Chemistry's **Soft Matter**, 2012, 8, pp. 7138–7142 by Aditya Agrawal, Paul Luchette, Peter Palffy-Muhoray, Sibani Lisa Biswal, Walter G. Chapman, and Rafael Verduzco.



Shown with the 2012 STS Best Fundamental Paper Awards are: (L to R) Sibani Lisa Biswal, Rafael Verduzco, and Aditya Agrawal. 2013 STS Chair Gary Gildert (2nd Row) presented Awards.

Katherine Leskin Receives the 2012 STS Outstanding Young Professional Award



Katherine Leskin (C) holds her 2012 STS Outstanding Young Professional Award which was presented by 2013 STS Chair Gary Gildert (R). Also pictured is Former STS Chair and 2012 Distinguished Service Award Recipient Alan Rossiter (L)

The STS 2012 Outstanding Young Professional Award recipient was Ms. Katherine Leskin. Katherine served as the South Texas Section YP Treasurer in 2010 and then as the STS Treasurer in 2011 and 2012. She also taught the Plant Design class for the 2013 PE Review course. During her tenure as Treasurer, she was the menu magnate who decided what the group would eat.

South Texas Section 2012 Annual Awards Presented At October 3 Dinner Meeting (Continued)

Katherine graduated from MIT in 2005 with a Bachelors of Science in Chemical Engineering and minors in Psychology and Applied International Studies. After graduation, she worked at the US Chemical Safety and Hazard Investigation Board in Washington DC for two years. She then found a position with Fluor in Sugar Land and has served as a process engineer, process software licenses manager, and served as a central point for process software concerns. In 2010, while working at Fluor, she earned a Masters of Civil Engineering (*Project and Construction Management*) from the University of Houston. At Fluor, she is on the Employee Giving Campaign Steering Committee and active in an Emerging Leaders Group subcommittee.

Katherine is a member of the Fort Bend Symphony Orchestra, the Greater Houston Rowing Club, her neighborhood's home-owner association, and an avid fiction reader.

Alan Rossiter Receives the 2012 STS Distinguished Service Award



Alan Rossiter holds his 2012 STS Distinguished Service Award which was presented by 2013 STS Chair Gary Gildert (R). Pictured (L to R) are: Gary Gildert, Alan Rossiter, AIChE Past President David Rosenthal, and AIChE Treasurer-Elect Dennis Griffith.

Dr. Alan P. Rossiter was honored with the STS 2012 Distinguished Service Award. He is President of Rossiter & Associates a consulting company based in Bellaire, TX, specializing in industrial energy efficiency.

Alan was born in Southern Rhodesia (now Zimbabwe), and was educated there through high school. He then moved to England to attend the University of Cambridge, where received his BA, MA, MEng and PhD, all in Chemical Engineering.

After graduation Alan worked with ICI (*Imperial Chemical Industries*) for nine years and Linnhoff March (*energy efficiency consultants*) for eight years before striking out on his own when he founded Rossiter and Associates in 1997.

Alan has more than 70 publications including three books, and he is a chartered engineer (*UK*) and a registered professional engineer (*Texas*). He was the person who sold a lot of advertising in *The South Texan* and served as a member of the STS Executive Committee in Position 4. In 2009, he became the STS Chair Elect and was the 2010 Chair of the South Texas Section of the American Institute of Chemical Engineers, was one of the more unpredictable Chairs when hosting STS Monthly Dinner Meetings, and currently serves as the Chair of the AIChE Southwest Process Technology Conference.

He also is the person who came up with the idea of net casting the STS Dinner Meetings to Satellite Meetings and told the Executive Committee that it was a challenge but doable. Alan has spent a lot of time and effort on making net casting of STS Monthly Meetings a reality. In addition, he has been an after dinner speaker for other AIChE Local Sections.

Alan and his wife live in Bellaire and have two grown sons. Outside of work Alan enjoys cycling (sometimes with another former STS Chair, Dave Karesh), theater, and astronomy. He is also a deacon in his church.

Jack Chosnek Elected Fellow of AIChE



Pictured (L to R) are Gary Gildert (2013 STS Chair), Vic Edwards (Nomination Initiator), Jack Chosnek (Newly elected Fellow with Fellow Certificate), David Rosenthal (AIChE Past President), and Dennis Griffith (AIChE Treasurer Elect).

At the October 3 South Texas Section Monthly Dinner Meeting, Dr. Jack Chosnek, Ph.D., PE was presented with his AIChE Fellow Certificate and Fellow's pin by Dr. Vic Edwards.

In recognition of Dr. Jack Chosnek's to AIChE and the chemical engineering profession, he was elected a Fellow of the American Institute of Chemical Engineers. Jack's contributions to AIChE include serving as:

- South Texas Section Process Safety Workshops Chair for the past ten years.

- AIChE Regional Process Technology Conference Process Safety Session Chair for the past four years.

- AIChE Process Plant Safety Symposium Technical Sessions Chair.

- 10th (2008) Process Plant Safety Symposium Chair.

- Mary Kay O'Connor Process Safety Center Technical Advisory Committee Chair from 2011 to the present as well as serving on the Technical Advisory Committee since 2006.

- AIChE/CCPS SACHE Education Workshops Presenter.

- CCPS conferences and teaching short courses in South America participant.

- Chair of the Costal Bend Local Section of AIChE (*Corpus Christi*)

Since 2001 Jack has served as President, Principal, and Founder of **KnowledgeOne**, a process safety management consultancy which provides services to companies of all sizes including projects in the billion dollar range. He has more than ten presentations and publications in process safety.

From 1975 to 2011, Jack held various management, staff, and technical positions in Celanese Corporation. He holds three patents.

Jack received his Bachelors of Science from Technion-Israel Institute of Technology, Haifa, Israel in 1967 and his Master of Science in Chemical Engineering from Technion in 1969. He received his Ph. D. in Chemical Engineering from the University of Missouri-Rolla in 1975.

Lisa Swanson was Recognized as the 2013 STS's Young Chemical Engineer of the Year



Lisa Swanson, P.E.

At the Thursday, September 6, STS Local Section Meeting Lisa Swanson was recognized as the 2013 South Texas Section's Young Chemical Engineer of the Year. Ms. Swanson was originally presented with STS' 2013 Young Chemical Engineer of the Year Award at the 2013 Young Engineer's Recognition Dinner February 18, 2013.

Lisa Swanson received her B.S. in Chemical Engineering from the University of Wyoming and is a Professional Chemical Engineer registered in the States of Texas and Florida.

Lisa opened Providence's Houston office in 2009 and she now manages the air quality group in the Houston office. She has been involved in multiple federal and state air permitting projects for various states, including multiple air dispersion modeling analyses.

Lisa has been involved in the Young Professionals South Texas Section of AIChE since moving to Houston in 2009. She was the chair of the Young Professionals Group for STS-AIChE for the 2012 calendar year.

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STS AIChE 2014 Officer Elections

Elections are now underway for the South Texas Section, American Institute of Chemical Engineers (STS-AIChE) Executive Committee officers with terms starting in January 2014. The open positions are Chair-Elect, Secretary, Position 2 (Outreach) and Position 4 (Human Resources). The ballot form is at the bottom of this page, and you will find candidate bios on the two following pages.

Voting Options

As in previous years, as a convenience to AIChE STS Members, there are three ways to vote: by e-mail, by regular mail (snail mail) and in person at the November dinner meeting.

The email address to be used for email balloting is: STS_Election@Yahoo.com. An e-mail blast from the Chair will be sent out with information on email balloting. Alternatively, members can vote by sending an email directly to the email address, with the subject as "STS Election", with their name and member number and their election choices. In addition, a ballot box and ballots will be available at our dinner meeting on November 3.

However, you may submit only ONE ballot. Please only vote one time!

Eligibility

In order to vote you must have an AIChE membership grade of "Member" or higher, and also be a member of STS-AIChE. (Currently STS annual dues are \$20, paid in addition to AIChE National dues.)

If you are an eligible member, please vote. Your input is important to STS-AIChE.

Mailing Instructions (secret ballot):

If you wish to vote by mail, please print this ballot, complete it, and mail your completed ballot to:

John Middleton, Chair

Tellers Committee, STS-AIChE

7105 Old Katy Rd. Apt. 2108

Houston, TX 77024-2157

Write your NAME and ADDRESS, as they appear in AIChE records, at the top left side on your envelope. If available, please also write your AIChE Member Number under your address. The Tellers Committee will use this information to validate ballots before opening. Envelopes will be separated from ballots before tallying, allowing for a blind ballot count.

Deadline for Return

Balloting is scheduled to end midnight November 9.

Ballot Form

Please check the box next to ONE candidate for each of the following positions. Alternatively, for any of the positions you may insert the name of a write-in candidate in the space provided after the named candidates, and check the box at the end of that line.

Chair-Elect

- ☐ Lori McDowell
☐ Kelly Richardson
☐ _____

Secretary

- ☐ Katherine Leskin
☐ _____

Position 2 (Outreach)

- ☐ Bill Epling
☐ _____

Position 4 (Human Resources)

- ☐ Dale Embry
☐ Carlos Salamanca
☐ _____

STS AIChE 2014 Officer Elections (Continued)

Candidates for Chair-Elect

Kelly Richardson

Kelly Richardson was born and raised in Detroit, Michigan. She attended Michigan Technological University where she obtained a Bachelors degree in Chemical Engineering in 2003. After college she worked as an Engineer, analyzing groundwater samples, for Practical Environmental Consultants in Schaumburg, Illinois. She later moved to Houston, Texas in 2006. She worked for AMEC Paragon, designing equipment for oil and gas production facilities until 2012. Currently she is employed by Star Engineering Services, Incorporated, and continues to work in the field of oil and gas.

Kelly joined AIChE as a student in college. She has been an active member of the STS-AIChE Chapter. She has served as the Young Professional Chair, a Nominating Committee Member, and Secretary.

As Chair-Elect she would build on the existing foundation of activities and programs to actively energize the local Chemical Engineering Community. She would also like to focus on additional outreach activities geared towards students at the university level to grow the next generation of AIChE members. Expanding virtual communications across the globe with other Engineers to promote education and awareness in the field would also be a priority.

In 2013 Kelly Richardson wed her college sweetheart of many years, David Mathers. She enjoys spending time with her family, mom, dad, six siblings, and cats. In her spare time she also enjoys dancing, skating, running, and tennis.



Lori McDowell

Lori McDowell is running for Chair-Elect position. Picture, bio and statement were not available at press time.

Candidate for Secretary

Katherine Leskin

Katherine served as the Young Professionals Treasurer in 2010 and South Texas Section Treasurer 2011 to 2012. She is a process engineer at Fluor in Sugar Land, where she worked for the last six years. She has a bachelor's in chemical engineering from MIT and a master's in civil engineering (project and construction management) from UH. Her favorite activities with AIChE are touring plants and helping teach the section's PE licensing exam review course. She was recently honored by the section with the 2012 STS AIChE Outstanding YP of the Year Award. She likes taking notes in meetings because writing, along with tea, is a great way for her to stay awake.

Katherine is running for secretary unopposed. It was her way to compromise with the nominations committee and not run for the more time consuming position of chair. She encourages you to write in a candidate with lots of time on his hands. However, she will serve, serve well, and eat free food at the monthly Excom meetings if such an individual stays in hiding.



STS AIChE 2014 Officer Elections (Continued)

Candidate for Position 2 (Outreach)

Bill Epling, Ph.D.

Bill Epling is an Associate Professor in the Department of Chemical and Biomolecular Engineering at the University of Houston, and currently the Associate Chair and Undergraduate Program Director for the department. He joined UH September 1, 2011. Previously he was an Associate Professor in the Department of Chemical Engineering at the University of Waterloo. Bill Epling received his PhD from the University of Florida in 1997 and his BS from Virginia Tech in 1992, both in Chemical Engineering. Prior to joining academia, he followed a relatively unique path that has given him a broad perspective in the field of catalysis, including catalyst design, manufacture, characterization and application. This was accomplished working across a spectrum of locations; a national lab (Pacific Northwest National Lab), in academia (UW and UH), a catalyst manufacturing company (EmeraChem) and an engine manufacturer (Cummins Inc). There was continuity in his path as he consistently maintained a theme in environmental catalysis. He has published >90 manuscripts in peer-reviewed archival journals, and given >100 presentations.



Candidates for Position 4 (Human Resources)

Dale Embry

Dale has Chemical Engineering degrees from the Texas A&M University with emphasis on physical properties and process simulation. He is currently Principal Engineer for ConocoPhillips' LNG Process Engineering. Previously he worked for in the gas processing, petrochemical and refining industries as a physical property and process simulation expert. Dale has also served as a company representative to the API Technical Data Committee and the API Committee on Petroleum Measurement. Dale is a registered Professional Engineer (P.E.) in the State of Oklahoma.

As a member of AIChE, Dale has been active in the South Texas Section by providing workshops for CAST (Computing and Systems Technology) and serving as an instructor in the professional engineering review courses. He hopes to continue to help people fulfill their dreams in Position 4 through educational and networking opportunities. A chemical engineering education is the foundation for many diverse opportunities for individuals willing to take chances and apply their skills in new ways.



Carlos Salamanca

Carlos is located in Houston, Texas being originally from Bogotá, Colombia. He earned a B.S. in Chemical Engineering from the Universidad Nacional de Colombia. He received an MBA from University of Houston. Carlos holds a PMP (Project Management Professional) certificate from the Project Management Institute. He is an active member of STS AIChE YP working as YP Chair.

Carlos started his career with Texaco at the lubricants plant in Bogotá. He has held several positions through different oil and gas projects. Recently, Carlos joined National Oilwell Varco as Offshore Project Coordinator.

His professional interests focus on Oil and Gas Economics, Project Management, Design Engineering, International Business, Latin American Studies and new Engineering technologies. He likes to read major business publications, and enjoys sports events and traveling. He is fluent in English and Spanish. In addition to Engineering, he has been working in Public Education for a while.



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 mklodne@tceq.state.tx.us.

Call for Volunteers

The Career and Education Operating Council (CEOC) of AIChE (National) has studies underway in several areas of interest to AIChE members. Additional volunteers are needed for committees performing the areas listed below. Working on one of these committees teaches you about the operation of AIChE, as well as teamwork, management, and leadership. Lessons from the latter three will spill over into your job, personal life, and other nonprofit organizations. The committee topics include:

A. Leadership development — New options for the training and development of leaders in AIChE. Our current methods are useful, but we're looking at others, too.

B. Fundraising — There is a modest but significant budget gap in AIChE National, and we can better serve our members if we can shrink it. Additionally, the programming of many local sections could benefit by fund raising.

C. Local Section Committee (LSC) Support — Unlike the STS, many local sections are facing difficulties, and the LSC is developing projects to assist "local sections in need."

D. Membership — The AIChE needs to work on increasing membership of National and of local sections. We're looking for additional good ideas. This includes how to explain the benefits of membership, how to encourage more student members to become YPs and how to encourage more first-time attendees at local section meetings to return and get involved.

E. Communication — Many AIChE members don't seem to learn about AIChE events and programs that they later wish they'd heard about. How can we improve communications with members? This could include mailings, websites, e-mail, telephone, etc.

These studies will involve identifying and evaluating alternatives, preparing "best practices" for local sections, and executing developmental projects. If you might be interested in one or more of these areas, please contact Matt Kolodney (mkolodney1@comcast.net or 713-471-8956).

More Volunteer Opportunities

In STS-AIChE, we have an opening for a K-12 co-coordinator, Offering:

- ◆ Advice on how to get started productively
- ◆ The opportunity to attend K-12 events of other organizations, to learn how to conduct an outreach event
- ◆ Networking opportunities to get contacts in local school systems
- ◆ Assistance in recruiting STS volunteers
- ◆ The opportunity of 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 are outgoing, observant & helpful, and would be interested in some of the following:

- ◆ A great opportunity to develop your people skills & leadership skills by helping develop those capabilities in the STS and its members
- ◆ Identify the varied opportunities for STS volunteers
- ◆ Greet first-time attendees—help them feel welcome. Introduce them to other STS members
- ◆ Gradually get to know the first-timers and their interests
- ◆ Contact them periodically—encourage them to come back
- ◆ Encourage them to gradually get involved in STS
- ◆ 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

ECH Volunteer Opportunity: ECH Councilor

Seeking a volunteer who would like to network and learn leadership skills

- ◆ Fill one of STS's two Councilor positions on ECH
- ◆ 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 you can bring some of their ideas back to STS and AIChE
- ◆ Participate in intersociety workshops on technical issues that affect the Greater Houston Area
- ◆ Opportunity to get involved in organization of the regional science fair
- ◆ If you would like to encourage volunteer activity in a particular area, we'll help you organize intersociety activities in that area
- ◆ If you're a YP, we can help you organize intersociety YP events that you would like to happen, but currently don't
- ◆ 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 mklodne@tceq.state.tx.us,

South Texas Section to Initiate Company Liaison Program

The South Texas Section (STS) of AIChE is implementing a Company Liaison Program. James Turner (current STS Past Chair) and Carol Schmidt (current STS Chair Elect) 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.

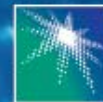
STS-AIChE	Liaison	Company
Responsibilities		
<ul style="list-style-type: none"> ✦ Provide meetings and events ✦ Maintain list of liaisons ✦ Send out special emails to liaisons ✦ Advertise program and recognize liaisons and companies 	<ul style="list-style-type: none"> ✦ Forward STS-prepared emails to 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 interests and comments 	<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 **James Turner** at (281) 263-5584 or sts-pastchair@aiche.org.

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South Texas Section AICHE

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P.O. Box 421373
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2013 Officers and Contact Information

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sts-chair@aiche.org

Chair Elect Carol Schmidt
sts-chairelect@aiche.org

Past Chair James Turner
sts-pastchair@aiche.org

Secretary Kelly Richardson
sts-secretary@aiche.org

Treasurer Ven Pinjala
sts-treasurer@aiche.org

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Shane Tierling
sts-position1@aiche.org

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Bill Epling
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Position 3: Communications
Aiying (Annie) Li
sts-position3@aiche.org

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

Volunteers

Arrangements: Richard Newman,
David Silarski

Membership: David Silarski

Young Professionals: Carlos Salamanca
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 2013

<<To be developed>>



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

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

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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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