



Monthly Meeting February 2nd, 2012

Central Location: Pelazzio Banquet Hall, Houston (Social Hour at 6 PM, Dinner at 7 PM)

Satellite Location: Rico's Mexican Grill, (Sawdust Rd location in The Woodlands) Social Hour at 6 PM; Dinner at 7 PM, Technical program at 7:45 PM

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Impact of Shale Gas Development on NGL Supplies and Petrochemical Feedstocks

Dinner Speaker: Walt Hart

Abstract: Development of shale gas and oil resources in the United States has resulted in significant byproduct production of natural gas liquids, which has reversed the declining trend in US NGL production experienced at the turn of the century. A wide gap in natural gas and oil prices has supported the prices of natural gas liquids and has encouraged their recovery from wet natural gas. New production of NGLs in areas far from existing fields has prompted investment in NGL infrastructure. Increasing supplies of NGLs have also changed the dynamics of NGL demand patterns. U.S. petrochemical companies are taking advantage of the newly abundant supplies with capacity expansions and lighter feed slates.

Bio: Walt Hart is a Managing Consultant in the Houston office of IHS Purvin & Gertz. Having joined Purvin & Gertz in 2006, Walt's proprietary studies have involved business analysis and strategy, market studies, forecasting, valuations, and legal support. He works primarily in the area of natural gas liquids and light naphtha, but also has experience in alternative fuels. He has authored portions of worldwide multiclient studies, taught workshops, given seminars, and conducted training courses while at Purvin & Gertz.

Prior to joining Purvin & Gertz, Walt spent 14 years at Union Carbide Corp. and Dow Chemical Co., as well as 2 years at Owens Corning Fiberglas. He has held positions in process engineering, technical sales, research & development, finance, and strategic planning. He has also taught at the undergraduate level.

Walt holds a BS (1986) in chemical engineering from Notre Dame, an MBA from the University of Charleston, and a Ph.D. in chemical engineering from West Virginia University. He is a registered professional engineer and a member of the GPA and the AIChE. Walt has served as the Chair of the Charleston WV Section of the AIChE as well as in other officer positions.



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.

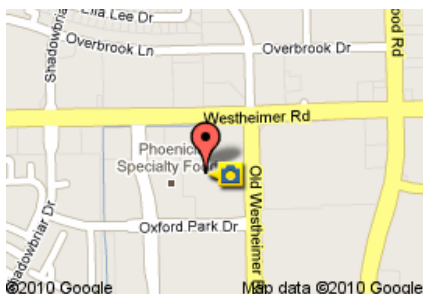
	Pre-Registration Members	Pre-Registration Non-Members	At the door Members	At the door Non-Members
Regular/Retired	\$25	\$30	\$35	\$40
Student/Unemployed	\$15	\$20	\$25	\$30
North Houston satellite meeting location	\$18	\$18	\$20	\$20

NOTE: You have until 4 PM CST on February 1st to pre-register online. After that, you will be required to pay the higher cost at the door.

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

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

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. The satellite meeting will be held at [Rico'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.

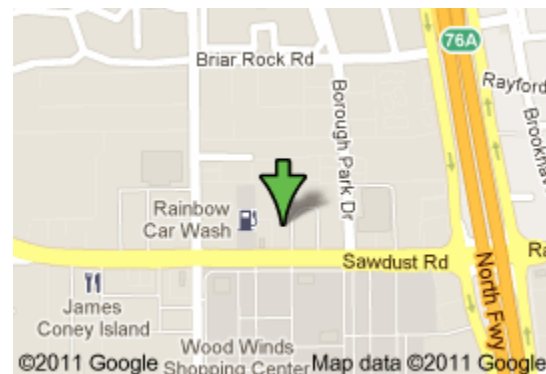
North Houston Satellite Meeting Information—Rico's Mexican Grill @ Sawdust Road

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. This month's meeting will once again be at Rico's Mexican Grill at 314 Sawdust Rd, The Woodlands, TX, 77380 (<http://ricosgrill.com/locations.php>). On-line pre-registration is available but not required. Order your dinner off the restaurant menu. Contact Ken Walter or Chris Tagoe (kk.walter@comcast.net or cctagoe@yahoo.com) with questions or special needs. Guests are welcome!

Schedule:

- ♦ 6:00 PM Social hour with live music downstairs and \$2.00 margaritas
- ♦ 7:00 PM Dinner. Order off the menu
- ♦ 7:45 PM Remote tie-in with STS-AIChE technical program
- ♦ \$18.00 in advance/ \$20.00 at the door

All guests are welcome!



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

Process Engineering / Plant Operations workshop

Speaker: John H. Litschert II JLS International, Inc.

Title: Debottlenecking with Optimized Flow Path and Decreased Pressure Drop using Strahman Piston Type Diverter Valves

Abstract: This Case History demonstrates how a team approach between a customer, an engineering company, a valve supplier, and the existing equipment manufacturer led to a very successful upgrade in production output. A major producer of PET desired to achieve a significant increase in production output without upgrading its final filter system. Utilizing Strahman Valves' engineering expertise, the goal was accomplished by designing an inlet and outlet valve to fit in the existing physical envelope, achieving the output requirements desired by the customer.

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Letter From the Chair

In my first "Chair's Corner" letter, I would like to start by thanking the outgoing Executive Committee members who completed the following terms in December: Ken Cox – Chair, Alan Rossiter – Past Chair, Carol Schmidt – Secretary, and John Super – Position 4 (Human Resources). Ramanan Krishnamoorti also completed his 2 year term in Position 2 (Outreach), and was re-elected to another 2 year term. Their service has been a huge benefit to the South Texas Section and to practicing Chemical Engineers in the region. For this year, I will particularly rely on the guidance and counsel of Ken Cox and Alan Rossiter – I am sure they will keep me headed in the right direction!

I would also like to welcome the new officers: Gary Gildert – Chair-Elect, Ken Cox – Past Chair, Kelly Richardson – Secretary, and Teresa Jurgens-Kowal – Position 4. I know that their dedication will serve the South Texas Section well.

Officers continuing in their current term are Katherine Leskin – Treasurer, Heather Gilligan – Position 1 (Education), and Jay Chandrasekaran – Position 3 (Communications).

I am sure everyone that attended the dinner meeting on January 12th will agree that Mike Watts from Halliburton gave us an excellent presentation on Hydraulic Fracturing. It is really great to get a world class expert that is also a great speaker, talking on an interesting and important topic. We have several more excellent speakers planned, including Walt Hart from Purvin & Gertz this month.

We have many other exciting things planned for this year, including the 4th Regional Process Technology Conference in October, which will be at South Shore Harbor this year, and the AIChE Spring National Meeting at GRB in Houston in April.

A former Chair suggested that I find one item to focus on during my year as Chair. I thought about it, and if I could describe what I would like to accomplish in one word, it would be "outreach" to practicing Chemical Engineers in the region. AIChE and the South Texas Section have a lot of activities and member benefits that are of interest to practicing engineers. As one of my outreach initiatives, some of the leadership of the South Texas Section (including me) has agreed to meet with groups of chemical engineers at local companies to present what AIChE has to offer, both from the National organization and the local South Texas Section. If you or someone at your company is interested in having one of us talk at your company, please contact me at sts-chair@aiche.org.

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. Together, we can continue to make the South Texas Section of AIChE a place of community, fellowship and education for us all.

Best Regards,

James Turner

Join the Upstream Engineering and Flow Assurance (UEFA) Forum

Perhaps some STS members have not heard about the newest entity that AIChE has chartered. Increasing interest in the upstream sector of chemical engineering applications and practice led to the UEFA Forum being established this year (2011).

The Upstream Engineering and Flow Assurance Forum has its main focus on the promotion of educational opportunities and events that will promote the use of chemical engineering principles and practices in the upstream realm and in the special area of flow assurance engineering. As chemical engineers, we know that thermodynamics, phase behavior, solution theory, fluid dynamics, and interfacial tension applications are not limited to downstream projects.

Indeed, many STS members work for companies that have interests in energy resource development, ranging from advanced petroleum reservoir technology to design of the most difficult and technologically challenging production systems, to be installed in the Jules Verne realm, in ultra deepwater, and also in extreme environments, such as Arctic regions. The work is challenging and chemical engineering problems abound in all aspects of upstream engineering.

During 2011, the UEFA Forum members were the major driving force in developing the very successful 6th AIChE/SPE Joint Workshop on "Challenges in Flow Assurance". Many of your colleagues may have participated in that event.

At present, we have developed the technical sessions for The 1st International Conference on Upstream Engineering and Flow Assurance, which is a feature part of the 2012 AIChE Spring Meeting, to be held in Houston, at the George R. Brown Convention Center, April 1-4, 2012. For this "upstream" conference, we have 16 sessions, including five sessions on flow assurance topics, hydrates, multiphase flow, waxes, asphaltenes, scale, corrosion, emulsions, and equation of state applications, etc. For the "upstream" reservoir and petroleum production themes, we have sessions dealing with advances in drilling fluids, completion fluids, and remediation fluids, enhanced oil recovery, shale gas technology, unconventional energy resources, nanotechnology in upstream applications, Risk in FEED design for Flow Assurance projects, subsea separation and processing, etc. These sessions include nearly 100 presentations from well-known subject matter experts in the fields of flow assurance and upstream engineering.

If you share our interest in this topic area, please consider this your special invitation to join the Upstream Engineering and Flow Assurance Forum. We solicit your membership and help in getting this new entity going. Frankly, we need you.

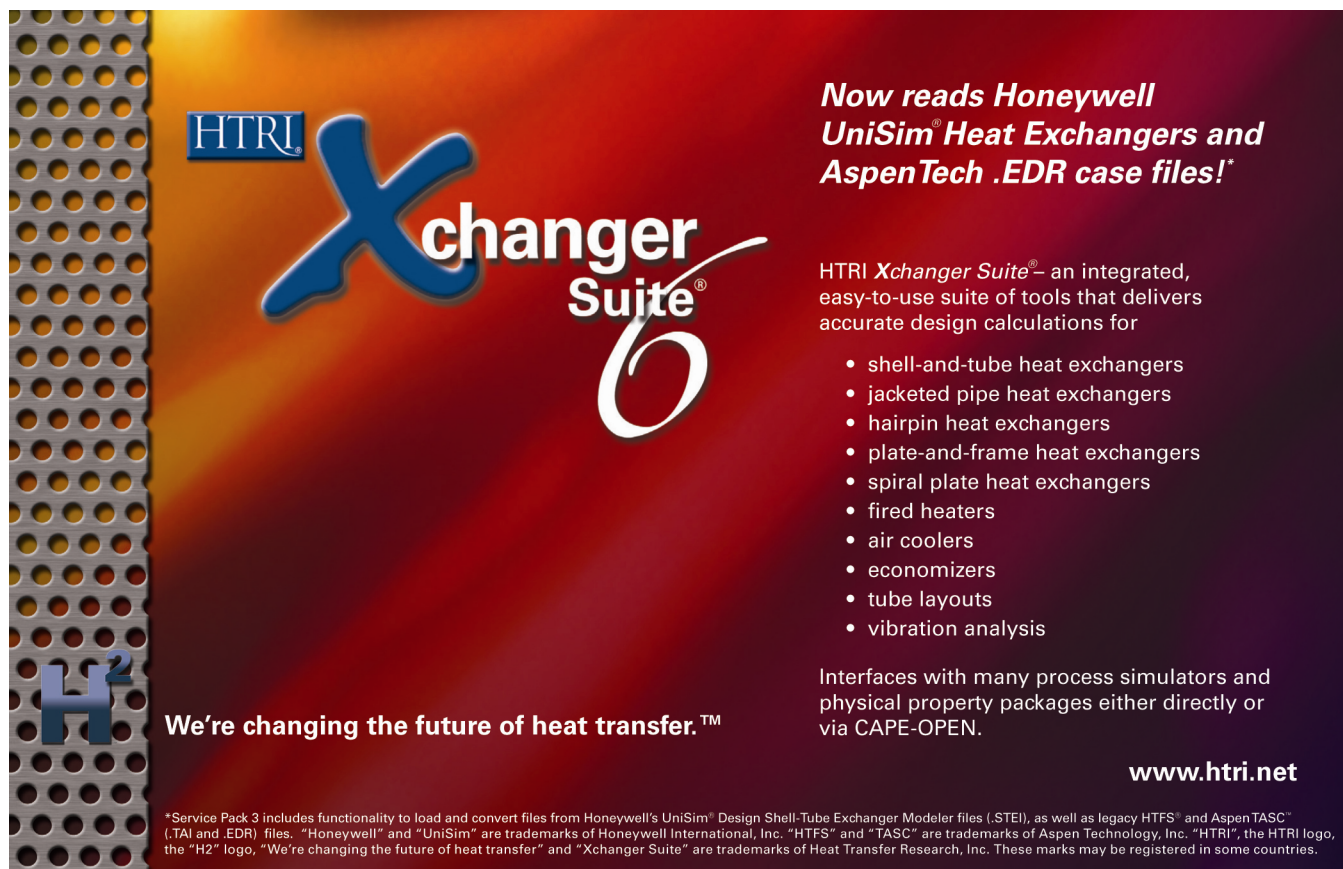
To join us, simply call 1-800-242-4363 and tell the AIChE Customer Service representative to enroll you as a member of the UEFA Forum for 2012. Do it today!

Best Regards and Welcome!

Norman F. Carnahan

Chair, UEFA Forum

carnahan@ccteq.com



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It's Awards Time!

It is once again time to nominate an STS member for our annual awards for 2011:

- 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.aiiche.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.aiiche.org/webform/award-nominations>.

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

South Texas Section – AIChE - 2011 Annual Awards Nomination Form (Page 1 of 2)

THIS NOMINATION FORM MUST BE RECEIVED BY MAY 1, 2012 TO BE ACCEPTED! E-mail the completed form to:

Thomas E. Menn	or	Anand Nilekar, PhD	or	Saurabh S. Chaugule, PhD
P. O. Box 458		Shell Global Solutions (US) Inc.		Shell Global Solutions (US) Inc.
Pearland, Texas 77588-0548		Westhollow Technology Center		Westhollow Technology Center
Tel: 281-485-3719		3333 Highway 6 South		3333 Highway 6 South
ThomasMenn@SBCGlobal.net		Houston, Texas 77082		Houston, Texas 77082
		Tel: 281-544-6298		Tel: 281-544-6644
		Anand.Nilekar@Shell.com		Saurabh.Chaugule@Shell.com

Following receipt of the nomination that you submit, you will receive an email from the STS Awards Committee confirming receipt of your nomination.

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

NOMINATOR'S NAME: _____

ADDRESS:

STREET: _____

CITY: _____ STATE: _____ ZIP CODE: _____

TELEPHONE NUMBER: (_____) _____

EMAIL ADDRESS: _____

I wish to nominate _____

(Enter Name of Nominee or Title of Paper on the above line.)

ENTER CONTACT INFORMATION FOR NOMINEE OR AUTHOR:

NOMINEE or AUTHOR'S NAME: _____

ADDRESS:

STREET: _____

CITY: _____ STATE: _____ ZIP CODE: _____

TELEPHONE NUMBER: (_____) _____

EMAIL ADDRESS: _____

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

_____ 2011 STS Outstanding Young Professional Award (Under age 35)*

_____ 2011 STS Distinguished Service Award (Over age 35)*

_____ 2011 STS Best Fundamental Paper Award (Please complete page 2)

_____ 2011 STS Best Applied Paper Award (Please complete Page 2)

*For STS Outstanding Young Member or Distinguished Service Awards, please state the reason you feel that this person is deserving of this award and attach it to the back of this form along with any supporting documentation, if available. (You can ignore the rest of the form.)

For 2011 Best Paper Nominations, continue and complete page 2 of this form.

South Texas Section – AIChE - 2011 Annual Awards Nomination Form (Page 2 of 2)

Please enter the name of the 2011 Best Paper again: _____

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

Enter the contact Author's name again: _____

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

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

MEMBERSHIP

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

AIChE

STS

Co-Author #1: _____

Co-Author #2: _____

Co-Author #3: _____

Co-Author #4: _____

Co-Author #5: _____

Co-Author #6: _____

Co-Author #7: _____

Co-Author #8: _____

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

For Best Paper nominations, please provide following information:

NAME OF PUBLICATION: _____

DATE OF PUBLICATION: _____

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

PLEASE ATTACH 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 nomination that you submit, you will receive an email from the STS Awards Committee confirming receipt of the nomination.



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- Create, review, and/or track quality control packages
- Assist in resolving customer inquiries
- Identify, track, and validate corrections to software defects; document resolution or workarounds for end-users
- Confirm documentation for all modifications to software code and user interfaces
- Coordinate development of internal and end-user documentation
- Review and contribute to online help

Qualifications

- BS in chemical or mechanical engineering OR in computer science
- Three years' experience in quality assurance in software applications using Microsoft® Windows-based application development
- Strong organizational and multi-tasking skills
- Good communication and presentation skills (oral and written)

Individual must possess authorization to work in the United States without visa sponsorship.

Submit résumé and letter of application detailing relevancy of work experience to

EOE/m/f/h/v

Ms. S. Breaux Daniel, Vice President, Human Resources

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Volunteers Needed for the 2012 Spring National Meeting

The AIChE 2012 Spring National Meeting will be held in Houston on April 2nd – 5th (Monday – Thursday) at the Hilton Americas and George R. Brown Convention Center. Volunteers are needed to track session attendance and for general help during the day. A parking pass and admission for the day worked will be provided. An organizational meeting will be held the weekend before the meeting.

Volunteers are needed for the following times:

Monday, April 2	7:30 am – 4 pm
Tuesday, April 3	7:30 am – 4 pm
Wednesday, April 4	7:30 am – 4 pm
Thursday, April 5	7:30 am – noon

For more information and to volunteer contact John Middleton via email Mr45John@Yahoo.com, or call him at 713-861-6418 (evenings) or 713-350-1143 (work).

Volunteers Needed—2012 OTC

The 2012 Offshore Technology Conference will be held April 30 - May 3 at Reliant Park. Volunteers will receive a complimentary OTC registration and a free parking pass (good for the entire OTC) for attending an orientation meeting the week before (to pick up badges and parking passes) and for contributing about five hours of the volunteer's time to either the Arrangements, Registration, or Student Tours Conduct Committees during the OTC.

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

AICHE South Texas Section 2012 Meetings & Speakers

Meeting Date	Location	Speaker	Topic	Sponsor/Comment
3/1/2012	Brady's Landing	Barry Cohen & Will Thurmond	Energy from Algae	Multiple Sponsors in conjunction with Energy Forum
4/5/2012	TBD	TBD	TBD	N/A
5/3/2012	TBD	TBD	TBD	N/A

Ken Cox Honored At January 12 STS Monthly Dinner Meeting

The South Texas Section's Chair's Appreciation Plaque to Ken Cox at the January 12 STS Monthly Dinner Meeting in recognition of his completion of a year of service as the 2011 Chair of the South Texas Section – AIChE. In the photo below, Ken is presented the Chair Appreciation Plaque by 2012 STS Chair James Turner.



2011 STS Chair Ken Cox (R) receives the STS Chair Appreciation Award from 2012 STS Chair James Turner (L).

South Texas Section Recognizes 50 Year AIChE Member

The January 12 (Thursday) South Texas Section Monthly Dinner Meeting served as a venue to recognize one STS Members who, in the year 2012, will have enjoyed 50 years of AIChE Membership. STS Chair James Turner presented the 50 Year AIChE Membership Certificate while the recipients were introduced by Tom Menn, STS Awards Chair.

Joseph T. Ramey – Joe received his Bachelor of Chemical Engineering from the University of Virginia in January 1962 and his Master of Science in Chemical Engineering from Georgia Tech in 1965. He is a registered Professional Engineer in Texas and New Jersey. Joe is a Senior Member of AIChE and served our country as a 1st Lieutenant in the United States Air Force.

Joe has worked for firms such as Commonwealth Engineering & Construction, ABB Lummus, Flour Daniel, Foster Wheeler, Exxon, and Hercules Incorporated. He currently is a Process Consultant and Member/Manager for Westchase Design LLC.



STS Chair James Turner (L) presents Joseph T. Ramey (R) with his 50 Year AIChE Membership Certificate

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

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

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

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

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



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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)

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South Texas Section AIChE

STS AIChE
P. O. Box 2160
Sugar Land, TX 77487-2160

2012 Officers and Contact Information

Officers

Chair James Turner
sts-chair@aiche.org

Chair Elect Gary Gildert
sts-chairelect@aiche.org

Past Chair Ken Cox
sts-pastchair@aiche.org

Secretary Kelly Richardson
sts-secretary@aiche.org

Treasurer Katherine Leskin
sts-treasurer@aiche.org

Executive Committee

Position 1: Education
Heather Gilligan
sts-position1@aiche.org

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

Position 3: Communications
Jay Chandrasekaran
sts-position3@aiche.org

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

Volunteers

Arrangements: Richard Newman,
David Silarski

Membership: David Silarski

Young Professionals: Lisa Swanson
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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Our newsletter subscription list is by invitation only.

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

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

MAINTAIN YOUR CONTACT INFORMATION WITH STS




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

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

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

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

Contact the New York office for PERMANENT ADDRESS CORRECTIONS:

 xpress@aiche.org
 1-800-AIChemE (1-800-242-4363)
 AIChExpress Service Center
3 Park Avenue
New York, New York 10016-5991

The South Texan Newsletter Crew

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

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

Newsletter Editors

Jay Chandrasekaran	Maxine Madison
KBR	ConocoPhillips
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Houston, TX 77002	Houston, TX 77079
(281) 795-0768	(281) 293-3314
jayachandranc@gmail.com	Maxine.J.Madison@conocophillips.com

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TCEQ	Global NP Solutions, LLC
5425 Polk Avenue, Suite H	2323 Clear Lake City Blvd., #180
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mkolodne@tceq.state.tx.us	

