



Monthly Meeting May 3rd, 2012

Central Location: Brady's Landing (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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Topic: Chemical Characteristics and Treatment of Flow Back and Produced Waters at Oil and Gas Exploration Sites

Abstract: Flow back and produced water contain very high TDS from its contact with underground geologic formation. These include salts of various metals e.g. barium, arsenic, vanadium, iron, calcium, magnesium, etc., and also naturally occurring radioactive materials (NORM) at some sites. In addition, various organic chemicals originating from the hydrofracturing liquids and condensates return with the flowback water. Therefore, the flow back and produced water need proper treatment before disposal, or reuse. Because of the complex matrix of organic and inorganic contaminants it is necessary to thoroughly characterize this water. This presentation is aimed at providing a brief overview of hydrofracturing technology for the exploration of oil and gas from unconventional resources, a comprehensive review of water characteristics at various gas drilling locations and the appropriate treatment technologies, which vary from site to site based upon the water characteristics.

Bio: Somnath Basu leads the water management services business of AECOM for the Oil & Gas and Mining industrial sectors. He has a total 28 years of experience in the design, R&D and operations management of municipal and industrial water and wastewater treatment plants internationally. He holds B.E. and M. Tech degrees in Chemical Engineering and a PhD in Environmental Engineering. He is a Registered Professional Engineer (PE) of the State of Massachusetts, a senior member of the American Institute of Chemical Engineers (AIChE), a member of the Water Environment Federation (WEF), and a Board Certified Environmental Engineer of the American Academy of Environmental Engineers (AAEE). Dr. Basu published several technical papers in international journals and presented at numerous international conferences.



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

CAST workshop

Speaker: Mr. Frank Joop

Improving Engineering Integrity and HAZOP Reviews Through the Use of Intelligent P&IDs

Abstract: It is important for both EPCs and Owner Operators to be able to verify that process systems have documented designs complying to both company and industry standards and requirements. For example, an Owner must verify that all tanks have a pressure relief device with a set point below the design pressure, and that all valves have been appropriately labeled on the P&ID. Intelligent P&ID's, such as Intergraph's SmartPlant solutions, enable automatic conformance verification. During HAZOP reviews, intelligent P&ID's can further ensure the safety of a system through the automated identification of hazards and consequences, and the tracking of issues through resolutions. Automation of these processes ensures that process systems are consistently engineered to the same standards for documentation and safety, and reduces the time needed to accomplish these types of task.

Bio: Frank Joop is Executive Director of Global Business Development at Intergraph Process, Power & Marine. He is responsible for identifying worldwide sales opportunities, analyzing market needs, determining service/product requirements, and developing strategic alliances with industry vendors. Industry coverage includes the biopharmaceutical, petrochemical, and food and beverage segments.

Joop joined Intergraph in 1988 and has also served as marketing manager of Plant Design System and AEC products, Europe. Joop previously worked at Fluor Daniel as a control system engineer and project manager. His areas of expertise include control system engineering, electrical engineering, front-end engineering and design, and project management.

Joop holds a master's degree in Electrical Engineering from Amsterdam University.



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 May 2nd 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—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 [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 below.

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, please spread the word! Previous issues with audio have been addressed.

Schedule:

- ♦ 6:00 PM Social hour with live music downstairs and \$2.00 margaritas
- ♦ 7:00 PM Dinner. (order from Rico's menu) served in private room upstairs
- ♦ 7:45 PM Remote tie-in with STS-AIChE technical program at Brady's Landing
- ♦ \$18.00 in advance/ \$20.00 at the door.

All guests are welcome!



AIChE Regional Process Technology Conference



The South Texas Section of the AIChE, in partnership with AIChE HQ, is hosting its 4th Regional Process Technology Conference at the South Shore Harbour Resort and Conference Center, on the shores of Clear Lake in League City, Texas, October 4 & 5, 2012. The conference provides technical sessions, industry solutions in process technology, and networking opportunities. In its first three years the conference has established a solid reputation within the process engineering community, attracting between 340 and 400 participants each year. This year, with a more accessible the venue on the mainland, the conference is expected to be even bigger and better, with more regional participation from the largest concentration of petroleum refining, chemical processing, engineering and technology firms in the U.S. You don't want to miss it!

You will find the preliminary program on the conference website at: <http://www.aiche.org/conferences/2012Regional/rptc.aspx>.

This year, in addition to established tracks such as oil refining, chemical process technology, energy efficiency, process safety, catalysis and simulation, we are adding a new session on upstream oil and gas. This is intended as a primer for process engineers, and builds on the very successful recent dinner meetings on upstream topics. In addition, we will continue our tradition of running a YP technical session, and closing the conference with a mixer sponsored by our YP group.



The conference includes an exhibition and sponsorship opportunities, and you will also find these details the website. Alternatively, you may contact the conference Chair, Alan Rossiter (alan@rossiters.org) for information.

General registration for the conference will open soon. Also, if you'd like to stay at South Shore Harbour during the conference, we have negotiated some rooms at preferred rates – see the website for details.



**Focus on
the Future**



ATPM 2012

Automation Technology in Process Manufacturing

ATPM 2012 is a new conference that will focus on four important issues in applying automation and control technology in process manufacturing.

- 1)Procedural Automation for Continuous Processes 2)Alarm Management
- 3)Advanced HMI Design Standard 4)Control System Security & Performance

ATPM 2012 will be held at Lone Star College Conference Center in The Woodlands, Texas, on May 21 - 23, 2012. Go to www.ATPM2012.org to register - use AIChE in promotion code and get a 10% discount

2012 ANNUAL STS - AIChE HOUSTON SHIP CHANNEL TRIP

(6:00 PM to 8:00 PM, SATURDAY, JUNE 2)

The annual South Texas Section Houston Ship Channel Trip will be on Saturday evening, June 2, this year. Members of the STS - AIChE will tour the Houston Ship Channel from 6:00 PM to 8:00 PM aboard the M/V Sam Houston while feasting on barbecue and beverages, compliments of the Port of Houston Authority.

Advanced reservations are required to take the trip because we must provide a passenger list to the Port of Houston Authority before sailing.

For additional information and to make a reservation for the trip, please go to the STS - AIChE website after the May dinner meeting on Thursday, May 3.



2012 Gulf Coast Process Technology Leadership Conference



Join us at the Hyatt Regency in downtown Austin, Texas on August 27th to 29th

- Learn practical, innovative ways for integrating and leveraging equipment risk, reliability and process safety management
- Participate in free interactive workshops in process safety, reliability and technology
- Find out how to avoid catastrophic failures caused by vibration in process and relief valve piping
- Network and exchange ideas with key industry professionals
- Take advantage of this opportunity to satisfy PDH requirements

Visit www.processtech2012 to register or call 361-894-8930.

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Letter from the Chair - James Turner

Those of us involved in the Spring National Meeting certainly had a busy and exciting time. There was a Local Section Leaders Workshop on Saturday and Sunday, Division and Programming Meetings on Sunday, Division and Conference Lunches and Dinners on Monday and Tuesday, and our own STS Dinner Meeting on Wednesday.

At the STS Dinner Meeting, we got to hear Paul Frison from the Houston Technology Center, and Allison Sawyer, CEO of Rebellion Photonics. Paul spoke about the startup companies that the Houston Technology Center has supported, and Allison spoke about how her company got started, and about their products, one of which shows great promise for detecting leaks in production facilities, refining and chemical plants.

The Local Section Leadership Workshop was very interesting, and it was nice to meet the enthusiastic leaders from all over the country, plus a few from Saudi Arabia! There are several events that have been tried by other local sections that may be good ideas for us to try at some point. There are some strong local sections in other parts of the country, and I encourage you to investigate them if you happen to be traveling to another part of the country and want to see if there are any events you want to attend. But the overwhelming impression from the workshop was a profound sense of gratitude for the number of incredible volunteers that the South Texas Section has, and the passion and leadership that has been provided by the past leaders of our Section. There is no other Section in the country that can pull off what we do on a regular basis in terms of programming, workshops, conferences, communications, student section support, K-12 volunteering and social events. I thank all of our current and past leaders, and know that, with the recently elected leaders and active volunteers, we will continue to be the preeminent AIChE Local Section.

For May, we plan to be back at Brady's Landing for a presentation on Water Treating by Samnath Basu from AECOM North America. We are back to our regular day and schedule, with the meeting on Thursday, May 3. We will have free workshops before the meeting as well. This will be our last regular dinner meeting before our summer break. However, there are still exciting STS activities planned for June and July. In June, we are planning another Ship Channel Tour, which has proved popular in past years. Tickets are limited, so please sign up early if you plan to attend.

In July, we are planning a special "AIChE Night" at the Astros Game at Minute Maid Park on July 26th. Tickets are reasonably priced, and include dinner at the ball park. STS Members are encouraged to bring their family and friends to the game! Look for more details on our website for how to buy your tickets for this fun event.

After May, our next dinner meeting will be September 13th. We will have our meeting on the 2nd Thursday in September, so we can avoid having a meeting Labor Day week, which is a very busy time for a lot of our members with vacations and school starting. I am pleased to announce that Henry Kister has agreed to be our Feature Speaker at the September meeting. For those that do not know Henry Kister, he is a world renowned expert on Distillation Design and Operation. In fact, it is accurate to say that "he wrote the book" (actually, two books) on these subjects. He is also a very passionate and interesting speaker, and I have no doubt that everyone who attends will come away with entertained and with new knowledge, and will be glad they attended.

I hope to see you at one of the upcoming meetings, or at one of the social events this summer. If I haven't met you, come up and introduce yourself!

Best Regards,

James Turner

Connie E. Carroll Memorial Award Fund Being Established by AIChE (Establishing the volunteerism program)

We were all greatly saddened by Connie Carroll's untimely death on November 14, 2011. Connie's extraordinary service to AIChE and her support of AIChE members will be well remembered by her colleagues. Many members of the South Texas Section have been directly or indirectly affected by Connie's involvement with the AIChE.

Connie began her AIChE activities in the 1980s at the Guadalupe Section, which is located in Victoria. At the national level, she was a leader in the Public Relations Committee, a Director (1992-1994) and Secretary (1995-1997) of the Institute, a leader of AIChE's Quality Improvement Program, a Task Force to Develop a Strategic Plan for AIChE, a Trustee of the AIChE Foundation, and a Mentor for Young Professionals.

Connie relocated to The Woodlands in 2002. Most recently, she spearheaded the establishment of the STS-AIChE North Houston Satellite that meets at the same time as the regular monthly dinner meetings and remotely participates in the meetings using WebEx.

It goes without saying that Connie Carroll demonstrated exceptional leadership in all that she did for AIChE, the profession, and her commitment to the development of future leaders.

To recognize and honor her many contributions to AIChE, her friends and colleagues are establishing the Connie E. Carroll Memorial Award. The award will consist of a free membership in AIChE for Young Professionals for up to three years. Members of AIChE can nominate Young Professionals, or a Young Professional can nominate himself or herself for the award. To qualify for the award, the potential awardees must agree to participate in AIChE's activities in one or more of three program areas in which Connie had special interest:

- ◆ Volunteer to work with the AIChE Young Professionals Advisory Board (Young Professionals Committee),
- ◆ Provide support and guidance to chemistry and chemical engineering students, and encourage them to continue a career in science, engineering or technology and to participate in AIChE, and
- ◆ Participate in AIChE's public awareness and outreach activities.

The second and third year of free membership will be dependent upon the awardees participation in and commitment to continue these activities. A subcommittee of the AIChE Foundation Board of Trustees will select the awardees from among those nominated. The awards will be presented by the AIChE Foundation at the Annual AIChE Meeting. It is anticipated that 8 to 10 three year awards will be made in 2012, 2013, and 2014.

That is why Connie's friends and colleagues are being asked to join the AIChE's efforts to establish the Connie E. Carroll Memorial Award Fund to celebrate Connie's many contributions to AIChE. When you reflect on the breadth of Connie's service to the profession and the activities for which she had such an enduring passion, we hope you will be as generous as possible. Your support can assure that Connie's legacy inspires the next generation of leaders to go above and beyond what's expected and demonstrate a new level of professional excellence.

The Connie E. Carroll Memorial Award Fund has been established under the AIChE Foundation. Checks (payable to the AIChE Foundation) can be sent to AIChE Foundation, 3 Park Avenue, New York, NY 10016-5991. Please indicate that this donation is to support the Connie E. Carroll Memorial Fund. For additional information, please contact Cathy Diana at AIChE, 646-495-1340 or cathd@aiche.org.

Thank you for your support.



YP Plant Tour Highlights – Chevron Phillips Pasadena Plastics Complex

The Young Professionals (YPs) organized a plant tour to the Chevron Phillips Pasadena Plastics Complex on Friday, April 13. The tour consisted of a thorough overview of the plant's operations including its history and process overview; the YPs viewed a safety video and company briefing before they toured the Polyethylene and K-Resin (butadiene-styrene polymer) plants. YPs were very interested in learning from this major integrated producer of chemicals and plastics and watching part of their daily operations.



A special thanks to Lynn Irvine, Gary Parsley, Stan Zisman and John Hottovy from Chevron Phillips for helping the YPs with the plant tour. All the YPs enjoyed the tour and seemed to have gained invaluable experience from the tour.

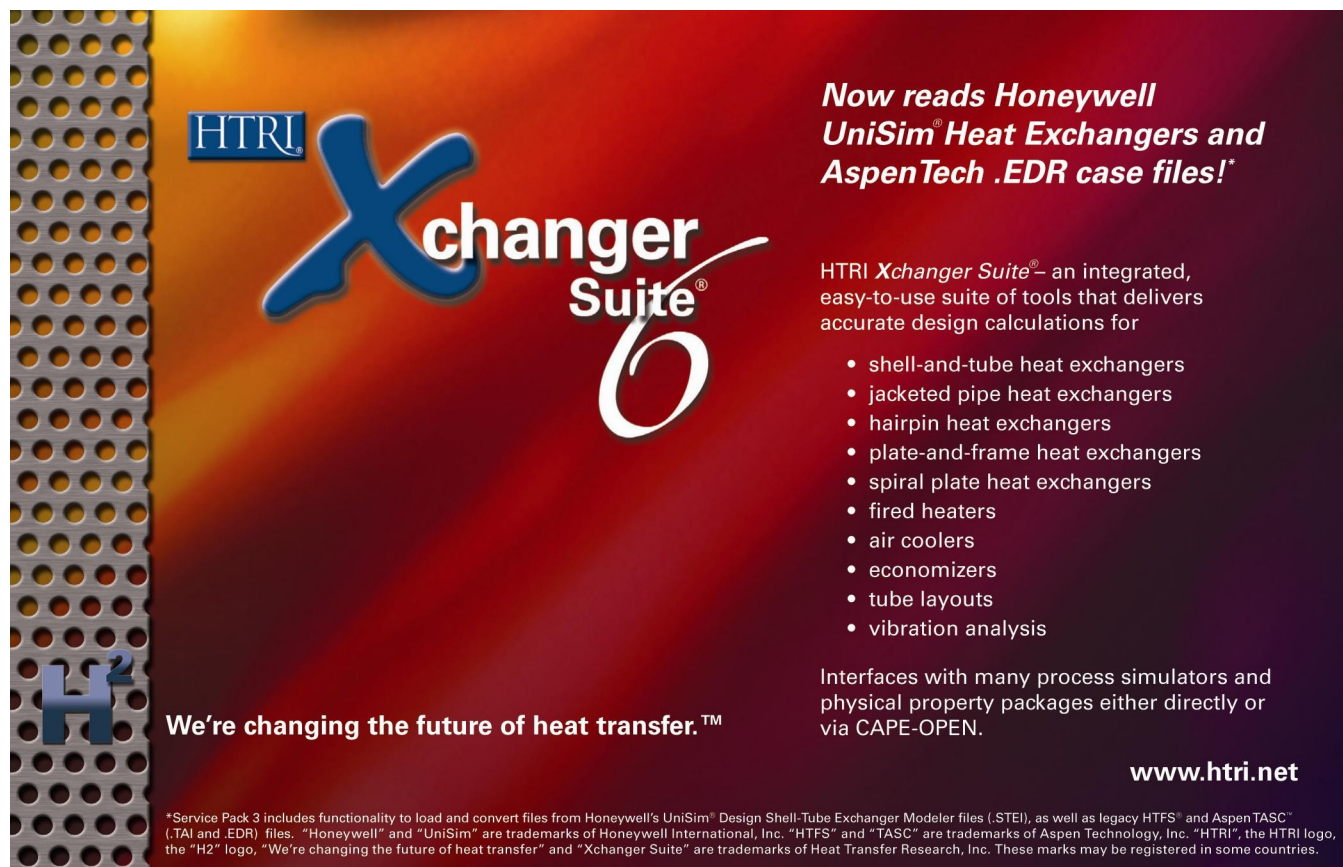
STS-AICHE K-12 Outreach Program

Science Fair Judges Needed Saturday, May 5th

Did you miss the Houston Science Fair? Here's a chance to judge an international high school science fair of projects on energy called International Sustainable World Energy Engineering Environment Project Olympiad or ISWEEEP for short. Sign up at: www.isweeep.org

For more information, please contact Abraham Kazala at 832-289-6996 or at akazala@live.com

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The advertisement features a background with a vertical strip of a perforated metal texture on the left and a gradient of orange and red on the right. The HTRI logo is in the top left, and the 'Xchanger Suite 6' logo is prominently displayed in the center. A list of heat exchanger types is on the right, and a slogan is at the bottom left. A small disclaimer is at the very bottom.

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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.

The HISD engineering magnet school program is looking for a couple of "hands-on" volunteers Willing to visit Booker T Washington High School once every week or two to assist the students In their projects. Contact Matt Kolodney at Matthew.Kolodney@tceq.texas.gov if interested.



The advertisement features a stylized process flow diagram in the upper left corner, showing various tanks, pipes, and a central green box labeled "RUN". To the right of the diagram is a close-up of a man's face, looking towards the left. Below the diagram, the text "We're on it." is written in a large, bold, orange font. Underneath this text is a blue button with the white text "SEE CHEMCAD IN ACTION" and a right-pointing arrow. At the bottom left is the Chemstations logo, which consists of a stylized orange and blue icon followed by the word "Chemstations" in a sans-serif font. To the right of the logo is the tagline "Engineering advanced" in a smaller, italicized orange font.

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
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Sugar Land, TX 77487-2160

2012 Officers and Contact Information

Officers

Chair James Turner
sts-chair@aiche.org

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Past Chair Ken Cox
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Treasurer Katherine Leskin
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Executive Committee

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

Position 2: Outreach
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Position 3: Communications
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Position 4: Human Resources
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Young Professionals: Lisa Swanson
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SOUTH TEXAS SECTION MISSION STATEMENT

As a section of AIChE, we serve chemical engineering professionals in the South Texas region through education, professional development, and networking.

Vision 2013

<<To be developed>>



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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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Submit an article! Contact: Reserve your ad space! Contact:

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