

The South Texan



Thursday, December 1, 2016
STS-AIChE Social @ Kemah, TX!

Meet at 6:45PM
[Register](#) for the STS-AIChE Social!
Check us out on [YouTube](#)!

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December Dinner Meeting - STS Social!

STS-AIChE invites you to a night on the water for our end-of-year social on Thursday, December 1st!

Sponsored by the YPs but open to all members, the event will include a buffet-style dinner, drink ticket, and a leisurely cruise around Clear Lake, Kemah, and Galveston Bay.

The cost is subsidized to \$35 per STS member (or family member) and \$40 per guest. Attendees will need to arrive by **6:45PM** to ensure that they are able to board before departure.

For questions, please contact the STS-YP Chair by e-mail at sts-yp@aiche.org.

Please note that pre-registration is required to attend. Details will be sent before the event to the e-mail address linked to your PayPal account when you pay.

[Register here!](#)



Meeting Registration Information

For questions, please contact the STS-YP Chair by e-mail at sts-yp@aiiche.org.

	Pre-Registration	Pre-Registration plus one guest
Members	\$35	\$70
Non-Members	\$40	\$80

Meeting Location – Kemah, TX

For meeting location, contact sts-yp@aiiche.org.

MITIGATE HEAT EXCHANGER FOULING

HTRI engineers use state-of-the-art technology to provide companies with contract fouling services:

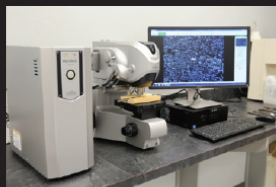
- Measure the fouling propensity of a crude
- Evaluate the benefits of anti-foulant additives
- Assess the impact of production additives
- Compare the fouling potential of different crudes or blends
- Estimate fouling thresholds for temperature and velocity
- Evaluate the impact of metallurgy

Companies have relied on HTRI research for decades to keep their heat exchangers running longer, cleaner, and more efficiently.

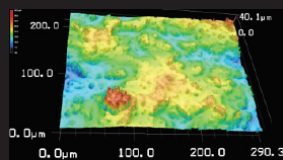
Contact us to learn how we can help:
contracts@htri.net



One of three fouling research rigs



HTRI's laser scanning microscope



Three-dimensional model of deposit from laser scanning microscope

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December 2016 STS-AIChE Chair's Letter – Syamal Poddar

Dear Fellow Members of South Texas Section of the American Institute of Chemical Engineers,

This is my last letter as the chair of the STS-AIChE. With cooperation and help of our active volunteers, we are about to complete the year with a lot of accomplishments. Let me summarize a few high points of 2016. The first one that comes to mind is a series of scheduled eight dinner meetings. In each of these meetings we had outstanding invited speakers who addressed diversified topics of current interests and relevance to industries we serve. This is summarized below in a chronological order:

In January, our invited speaker, Paul Evans, Director of the Production and Simulation Technologies Department of Southwest Research Institute (SwRI), made a presentation on "Initiatives for Applying Smart Manufacturing to the Continuous Processing Industries." In February, our invited speakers, Mark Lockhart, Process Technology Manager, and Blake Soyars, Environmental/Air Section Manager of Burns & McDonnell, spoke on a very timely subject. The title of their talk was "The Refinery 'RTR' Rule – Major Refinery Impacts and Targeted Solutions." In March our invited speaker for the dinner event, Walter Pinto, Site Manager, Bayport complex of LyondellBasell in Pasadena, Texas, presented "Excellence in Stationary Equipment Reliability." Our invited speaker for the April dinner meeting was the AIChE's current President, Dr. Gregory Stephanopoulos, W.H. Dow Professor of Chemical Engineering and Biotechnology at MIT, and Instructor of Bioengineering at Harvard Medical School. In his presentation Dr. Stephanopoulos shared with us his vision of the AIChE, and the title of his presentation was "The New AIChE."

The invited speaker for the May dinner meeting was Tim Olsen of Emerson Process Management, and his presentation topic was "The New World of Opportunity Crudes." After summer recess we started our monthly dinner meeting in September when invited speaker, Doug Kelly, Vice President of Refining Technology and Coal Monetization of KBR presented. The title of his presentation was "Increasing Flexibility through Technology & Innovation." In October, the invited speaker at the dinner meeting was Frank Souto of Honeywell. His presentation on a timely and relevant subject was titled "Industrial Cyber Security." Last but not the least was the presentation in November by Joe Powell, Chief Scientist - Chemical Engineering of Shell. His presentation topic was "Sustaining and Optimizing Your Career: Let AIChE Help!"

I am very pleased to inform you that all our dinner meetings with the above invited speakers were sponsored by at least one, sometimes two, organizations. These sponsorships ranged from Bronze (\$500), to Silver (\$1000) to Gold (\$1000) level. This unprecedented success was accomplished by the generosity of the surrounding companies we serve. The detail information on level of sponsorship for our above dinner meetings is available on our [website](#).



December 2016 STS-AIChE Chair's Letter – Syamal Poddar

I am pleased to mention that this year in October, in spite of the down turn of the industry we serve, we had a very successful repeat of our traditional Southwest Process Technology Conference (SPTC). This co-sponsored conference by our section STS and the AIChE was a great success. Just like in the past, this two day conference (October 6th and 7th) was held at Moody Gardens in Galveston. Our active volunteers, working hand in hand with representatives from the AIChE headquarters, contributed to the overall success of the conference. As before, the conference was a platform where over three hundred practicing chemical engineers and students participated in technical sessions and listened to experts offering updates and industry solutions in process technologies. In this year's conference, besides technical sessions, two keynote speeches, one on Thursday (October 6th) and the other one on Friday (October 7th) were scheduled. However, Thursday's keynote speaker, Dr. Ramanan Krishnamoorti, Interim Vice Chancellor for Research and Technology Transfer and Chief Energy Officer for the University of Houston, was out of country due to a sudden change of his schedule. This was filled in by James Turner, Executive Director – E&C Process Technology of Fluor who made a presentation on "Capital Efficiency in the Downstream Market." On Friday, Andy Boyd, a well-known contributor to Houston Public Media in "The Engines of Our Ingenuity," delivered an interesting talk titled, "In Search of the Limits of Human Creativity." In addition to these, the conference also featured several great exhibitors and service providers to our industries and a career fair.

In addition, there were many continuing volunteer activities organized by our active volunteers such as judging at the Houston Engineering Science Fair, supporting K-12 initiatives, participating in Engineers Week and the Boy Scout Fair, to name a few. With proactive help from our Awards Committee Chair, Thomas Menn, and with cooperation of our Executive Committee, we were able to appreciate and honor many of our members with awards and special recognitions.

With timely help from Tom Rehm and Debra McCall, most recently, we had an unprecedented success in a recent Networking event for our unemployed or underemployed members. The level of interest to participate was much higher than what we originally thought. Because of the limitation of space available we had to significantly shorten the list of attendees. We shall make necessary adjustments in selecting future locations for such events.

Please read about many activities that our YP group has recently accomplished and what they are planning for December. Read about a pleasant outing planned for December 1st. The announcement has gone out via e-blast.

As in previous years, STS-AIChE Election process is in full swing. The announcement with a list of candidates for all open slots is posted on our website. For those who could not vote yet, the election process will be open till November 22, 2016. Do not hesitate to contact Kelly Richardson, our past Chair, for STS's election related questions and comments.

In my concluding remarks, I like to go back to the points I addressed in previous letters: I encourage all our active volunteers to reach out to our young professionals to proactively listen to them to understand and learn from them, and most importantly, welcome them to get them involved in our various activities. Let us continue engaging ourselves to build a pool of effective future leaders by being truly inclusive and incorporating diversity.

I hope that, together with our elected ExCom members, we have met, if not exceeded, your expectations for the year. Although this is my last official letter of communication, however, I shall be always available to entertain any positive or constructive feedback to maintain the path of continuous improvement.

Let me sign off by expressing my sincere thanks for giving me the opportunity to serve you as your Chair. This was a very rewarding and enriching experience to work with a diversified pool of dedicated volunteers. Only through their unconditional dedication and cooperation did we accomplish so much in 2016. I feel very much privileged to serve you.

Sincerely and humbly,
Syamal K. Poddar
2016 STS-AIChE Chair

Letter from Chair-Elect – David Rosenthal

I look forward to my role as your incoming Chair for the AIChE STS in 2017. For those who are not familiar with my background, I served as your National President in 2012. My “career” with AIChE spans over 20 years with roles as the Delaware Valley Section chair, Programming Committee Chair, Meeting Program Chair New Orleans 1996, National Board member, and the National Treasurer. I bring a wealth of experience to the role but more importantly an understanding of what our members are looking for in their professional home for chemical engineering.

I will continue to support the great work of our current chair, Syamal Poddar and his Executive Committee in 2017. My focus is all about bringing value to every member of our section no matter how they interface with our organization.

My first order of business was to establish a strong dinner meeting program for 2017. I am pleased to announce that on January 12 at Brady's Landing, Julie D. White who is a Senior Loss Prevention consultant with SIS-Tech Solutions responsible for the engineering application of dynamic process simulation and supporting risk management practices with speaking on **Improving Operational Resilience Using Dynamic Simulation**. I know she will provide a very informative talk and I hope you will come out to support her.

I have also begun to arrange dinner meeting topics for 2017. So far our schedule will feature:

January - Improving Operational Resilience Using Dynamic Simulation

February - The Oldest Bioreactor - Wastewater Treatment

March - Port Of Houston Authority

April - Energy Forum - Engineers in Government

May - To Be Announced

September - Process Safety

October- Southwest Process Technology Conference Dinner

November- Water Forum - Houston Subsidence District

I am committed to “spreading” our meeting locations around Houston throughout the year.

Are you missing meetings because you forget to register? Do you look forward to seeing your colleagues each month? Do you enjoy the topics we discuss each month? I urge you to sign up for the [Season's Pass for 2017](#). It is a great way not to forget to register and save money at the same time. We have not increased the price and kept it at \$149 for eight meetings. Your pass provides you eight meetings for the price of seven! So go to our website and sign up!

Our section also provides value in many other ways to our members. We are committed to assisting those looking for work with networking meetings throughout the year. These meetings will provide guidance in resume design, taking interviews and hearing experiences from your colleagues. Announcements of dates and location will be made throughout the year. Our Dinner meetings also provide you with an opportunity to network to find a new career experience.

Value for our section is provided by the outreach we provide to other groups in the Houston area such as Young Professionals (YP), K-12, and college students. We will be conducting a college night at the February dinner meeting so bring your college or high school student to the meeting. Our YP group will be arranging their events including their monthly happy hours. We also look forward to our YP's attending our Dinner meetings where they meet with our “very” experienced members.

We are truly fortunate in our section to have colleagues with years of experience. It is important that we continue to recognize these individuals through our 50 year recognition and other awards. Tom Menn and Tom Rehm do an excellent job ensuring these individuals are recognized.

I got involved in AIChE early in my career to practice skills I needed in my job such as public speaking, writing, organizing and program creation. I urge all those considering helping out your local section to contact me to take advantage of this opportunity to expand your skill base by participating in local section activities. Any member can attend our Executive Committee meetings held on the second Thursday of each month to volunteer to help.

I closing, I again take this opportunity thank our Chair and his Executive Committee for an excellent 2016 program. I look forward to meeting each of you at an AIChE STS event. Take care and have a great and safe holiday season.

David Rosenthal
2017 STS-AIChE Chair

In Memoriam



In Memory of

Bob Marshall

May 9, 1921—November 3, 2016

Col. Bob Marshall, USAR Ret., age 95, beloved husband to Edie Marshall, passed away on Nov. 3 after a brief illness. He was extremely active and outgoing until the recent illness.

A World War II Army Combat Officer, he was the Commanding Officer of Battery A and Exec. Officer of the 293rd Field Artillery Sound and Flash (Target Acquisition) Battalion that saw heavy action on the Brittany coast in Northwestern France. He was a recipient of the American Campaign Medal; The European, African, Middle Eastern Campaign Medal with Bronze Star; The World War II Victory Medal; and the Meritorious Service Medal. After 3 years of Active Duty, Captain Marshall went on to serve 35 years in the Army Reserve reaching the rank of Colonel, with primary duties instructing Field Artillery and Air Defense Missile Units. He was a Graduate

and Instructor at the Command and General Staff College in Ft. Leavenworth, KS. He was called back to Active Duty in both the Korean War and the Cuban Missile Crisis, however never deployed.

In civilian life, Bob had both Chemical and Mechanical Engineering degrees from LSU. He was a devoted Alumnus throughout his life and never missed watching a Tigers football game. He was a Life Loyal member of the Sigma Chi Fraternity and was elected a Significant Sig in 1983. He worked as a Process Engineer for Ethyl Corporation and managed the Technical Services section of the Houston R&D Department for 35 years. He was a Licensed Engineer in both Louisiana and Texas and was elected in 1983 as National President of American Institute of Chemical Engineers (AIChE). Bob also served as the Chair-Elect (1974), Chair (1975), and Past Chair (1976) of the South Texas Section – AIChE as well as receiving the 1976 South Texas Section Distinguished Service Award.

In 1982 Bob started his next career, working 30 years as the Security Manager and Civic Association General Manager for the Meyerland community (MCIA). Bob was one of four individuals who started the Brays Bayou Association, the entity primarily responsible for obtaining the half-billion dollar funding for the Project Brays Flood Control project currently underway. Bob served over 30 years on the Harris County Flood Control Task Force and participated through last month.

Bob loved volunteering. He was President, VP and Player Agent of Meyerland Little League. For 25 years Bob was Head Usher at St. Thomas More Catholic Church, where he was still a Parishioner. Bob was Precinct 281 Election Judge for over 40 years and a Life Member of the Republican National Committee.

He was a member of the VFW, American Legion, USO and other groups that assist our young men and women of the Armed Forces. He was a Charter member of the National World War II Museum and the National Museum of the US Army.

Bob met the love of his life, Edie Hammond while stationed at Ft. Sill, OK and married at the Old Post Chapel on July 1, 1944. Bob and Edie had 5 children and are survived by daughter Jane Evans (Michael), daughter Cille Crago, daughter Kathy Card (Shannon), son Bobby Marshall (Vanessa). He is preceded in death by daughter Debbie Harris (Saul) and his wife Edie, who passed away in 2001. Bob and Edie have 14 Grand and 18 Great-Grand Children.

Visitation will be Wednesday, Nov. 9, 5pm-7pm at Earthman Bellaire, 6700 Ferris. Funeral Service will be Thursday, Nov. 10, 10am at St Thomas More Catholic Church, 10330 Hillcroft, followed by military honor burial at Houston National Cemetery, 10410 Veterans Memorial Dr.

In lieu of flowers, Bob and his family would appreciate a donation made to any Veterans group or the National WWII Museum in New Orleans, LA.

STS-AIChE Annual Awards

2016 AIChE Southwest Regional Process Technology Conference Best Presentation Award - Alexis S. Shackelford



2016 South Texas Section Chair Syamal Poddar (R) congratulates Alexis S. Shackelford (C) who has just received the South Texas Section's 2016 Southwest Process Technology Conference Best Presentation Award. Also in the photo is AIChE Secretary Freeman Self.

The November 3, 2016 Monthly Dinner Meeting at Brady's Landing served as a venue for the presentation of the South Texas Section's 2016 Southwest Process Technology Conference Best Presentation Award to Alexis S. Shackelford. Her presentation was titled "*An Innovative Solution from Boron-Based Technology Platform for FCC Unit Performance Improvement.*" The South Texas Section's 2016 Southwest Process Technology Conference was held on October 6 – 7 at Galveston's Moody Gardens Hotel.

STS-AIChE Annual Awards

STS-AIChE ED EKHOLM AWARD at STS' NOVEMBER Monthly Dinner Meeting - Freeman E. Self, Jr.



Freeman Self (C) displays the 2016 E. L. Ekholm Distinguished Service Award which he has just been presented by 2016 STS Chair Syamal Poddar (R) and STS Awards Chair Tom Menn (L).

The recipient of the 2016 E. L. Ekholm Distinguished Leadership Award is Freeman E. Self, Jr.

After graduating from Georgia Tech, getting a Master's degree at Rice (*where he met his wife Camille*), and serving in the U S Army mustering out as a Major; he joined Hudson Engineering in Houston in 1978. Shortly after, Patsy Chappelle, soon to be Chair of the F&P Division, invited him to a South Texas Section meeting explaining, "We need more young members."

In 1984, when he was preparing the monthly newsletter as STS Secretary, he received a call. The person on the other end stated that he had a serious problem. He had long been a member of STS, but now he was working in New York and AIChE headquarters would not allow membership in two local sections. "No problem at all", promised Freeman, "I will mail you a newsletter every month - just send me \$5 when you have the chance." And that was how Freeman met Ed Ekholm.

After serving as STS Treasurer in 1982, as the 1984 Secretary, 1985 Executive Committee Position No.1, and in 1986, Freeman was elected to begin his STS Chair progression, serving as STS Chair in 1987. 1987 was the depths of the chemical engineering recession and Ed Ekholm wanted to expand the outplacement service called CEO - Chemical Engineering Opportunities, which Ed and colleagues had founded the previous year. When asked for \$1, the STS always gave them \$2.

Freeman was selected to receive the STS Outstanding Young Member Award (*now Outstanding Young Professional Award*) in 1980 and was awarded the Distinguished Service Award in 1998. That same year, Ed started a series of Saturday courses on refining technology which ran weekly for a full year. The courses were later published by AIChE as an electronic book, spearheaded by Dennis Griffith. Ed, Freeman, and Keith Bowers were the co-authors and all received the 2001 STS-AIChE's Gary Award for this effort. Freeman has also served as the STS' Auditor for many years.

Currently Freeman is a process engineer at Bechtel, where he is a Bechtel Fellow. He is still active in AIChE, is an AIChE Fellow and currently the Institute's Secretary of the Board of Directors.

A Bit about Ed Ekholm

Every four (4) years, the South Texas Section - AIChE Executive Committee has the responsibility of determining if there are any qualified candidates for E. L. Ekholm Distinguished Leadership Award and if there are, selecting a recipient.

Some of you may remember Ed Ekholm. Ed was the sort of guy who would spot a problem, call it to the attention of the party in charge, and work with others to solve the problem. Edwin L. "Ed" Ekholm served the STS as Chair-Elect (1967/8), STS Chair (1968/9), and Past Chair (1969/70). *This was back when STS operated on a "School Year" Calendar.* Ed then was elected to the AIChE Board of Directors (or Council as it was known as then). He also served as the Program Chair for the 1970 Houston Spring National Meeting and was twice an unsuccessful candidate for AIChE Vice-President.

Ed was the recipient of the STS 1968 Distinguished Service Award, the 2001 STS Gary Award for his efforts on the Petroleum Refining Short Course and CD-ROM, and the 2004 E. L. Ekholm Distinguished Leadership Award among other Awards. During the AIChE 2008 Centennial, Ed was recognized as one of the "100 ChEs of the Modern Era" and also one of the "25 Industrial Executives."

Awards

AICHE – YPC's “35 UNDER 35” AWARD

AIChE and the Young Professionals Committee will be highlighting 35 outstanding AIChE members under the age of 35 who have made significant contributions to the field of Chemical Engineering and AIChE. Nominees can have made contributions through any of the 7 broad categories: Safety, Leadership, Innovation, Energy, Chemicals, Bioengineering, and Education.

For more details, see the link:

<http://www.aiche.org/community/awards/aiches-35-under-35-award>

There is a link at the bottom of the page for downloading a MS Word version of the “35 Under 35” Nomination Form. It is possible to use an On-Line Nomination form but given that some of the information may be lengthy (500 word Maximum for five (5) questions), it may be desirable to complete the form and send it attached to an e-mail. The STS Awards Committee will also provide a modified copy of the Nomination Form.

Nominations are due January 30th, 2017.

Contact aiche35under35@gmail.com with any questions.

Award Categories: (35 Awards to 35 YPs ~~ 7 categories)

Bioengineering
Chemicals
Education
Energy
Innovation
Leadership
Safety

Deadline: January 30, 2017

Award Administrator: Young Professionals Committee (YPC)

Qualifications: AIChE Member & STS Member
Born on or after January 1, 1983

Special Requirement: Letter of Recommendation from someone other than nominator.

Recipient Recognition:

- \$500 prize
- Recognized at an awards reception at the 2017 AIChE Annual Meeting in Minneapolis, MN (October 29 - November 3, 2017)
- Profiles highlighted in the Institute and chemical engineering community (online, in CEP Magazine, etc.)

Contact: Tom Menn for additional information and modified “35 Under 35” Nomination Form at: thomasmenn@SBCGlobal.net

Awards

It's Awards Time!

It is once again time to nominate an STS member for the 2016 South Texan Section Annual Awards:

- Outstanding Young Professional Award
- Distinguished Service Award
- Best Fundamental Paper
- Best Applied Paper Award

For requirements of each award, visit the web page: <http://sts.aiche.org/content/awards>

The page provides a summary of the awards, and contains links to more detailed descriptions of each award.

To nominate a member for an award, complete the online form at the web page:

<http://sts.aiche.org/content/award-nominations>

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

NOTE: All 2016 Awards Nominations must be received by May 1, 2017!

Awards

South Texas Section – AIChE 2016 Annual Awards Nomination Form

THIS NOMINATION FORM MUST BE RECEIVED BY MAY 1, 2017 TO BE ACCEPTED!

Mail the completed form to:

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

Or Ryan Stephens, PhD
Best Papers Judging Chair
Shell Global Solutions (US) Inc.

Technology Center
3333 Highway 6 South
Houston, Texas 77082

Or Matt Christiansen, PhD
Best Papers Judging Co-Chair
Shell Projects and Technology

Tel.: 281-485-3719

ThomasMenn@SBCGlobal.net

Tel.: 281-544-8447

Ryan.Stephens@shell.com

Tel: 281-544-6476

Matthew.Christiansen@shell.com

Following receipt of the submitted nomination, you will receive an e-mail from the STS Awards Committee confirming receipt of the nomination after AIChE & STS Membership is verified. All Best Paper Nominees not Members of AIChE or STS may wish to join STS or STS and AIChE until May 31, 2016 in order to be eligible for the recognition due a STS – AIChE Member Best Paper Award Recipient.

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

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

I wish to nominate _____
(Enter Name of Nominee or Title of Paper on the above line.)

ENTER CONTACT INFORMATION FOR NOMINEE OR AUTHOR:

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

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

2016 STS Outstanding Young Professional Award (*Under age 35*) _____
2016 STS Distinguished Service Award (*Over age 35*) _____
2016 STS Best Fundamental Paper Award _____
2016 STS Best Applied Paper Award _____

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

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

Awards

Please enter the name of the 2016 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:

Note: At least one (1) author must be a STS Member.

MEMBERSHIP

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: _____

Co-Author # 9: _____

[Add addition Authors on an attached sheet as necessary.]

For Best Paper Nominations, please provide following information:

NAME OF PUBLICATION: _____

DATE OF PUBLICATION: _____

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

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

Following receipt of the submitted nomination, you will receive an e-mail from the STS Awards Committee confirming receipt of the nomination after AIChE & STS Membership is verified. All Best Paper Nominees not Members of AIChE or STS may wish to join STS or AIChE and STS until May 31, 2017 in order to be eligible for the recognition due a STS – AIChE Member Best Paper Award Recipient.

STS-AIChE 2016 Monthly Dinner Meeting Schedule

Date	Location	Meeting Details (Speaker/Company/Topic)
January 14	Brady's Landing	Paul Evans, SwRI <i>Initiatives for Applying Smart Manufacturing to the Continuous Processing Industries</i>
February 4	Brady's Landing	Burns & McDonnell <i>The Refinery 'RTR' Rule – Major Refinery Impacts and Targeted Solutions</i>
March 3	Brady's Landing	Walter Pinto, LyondellBasell <i>Excellence in Stationary Equipment Reliability</i>
April 7	Brady's Landing	Energy Forum Greg Stephanopoulos, AIChE President <i>The New AIChE</i>
May 5	Pelazzio	Tim Olsen, Emerson <i>The New World of Opportunity Crudes</i>
September 8	Pelazzio	Doug Kelly, KBR <i>Increasing Refinery Flexibility through Technology and Innovation</i>
October 6	Moody Gardens	SPTC Frank Souto, Honeywell <i>Industrial Cyber Securities</i>
November 3	Brady's Landing	Joe Powell, Shell

South Texas Section-American Institute of Chemical Engineers (STS-AIChE) Season Pass

Update on Seasons Pass for Remaining part of 2016

We thank all those individuals who were seasons pass holders for 2016. We thank you for your support. As our 2016 season comes to a close we want to remind all those considering to be a seasons pass member that immediately the STS-AIChE Seasons Pass for the remaining part of 2016 is terminated since there are only two dinner meetings, (on October 6th and November 3rd) remaining. The December Social meeting is not included in the Seasons Pass.

Our existing Seasons Pass holders as listed in this Newsletter will continue to attend the two remaining dinners free as part of their season pass subscription for 2016

The STS-AIChE Season Pass will resume for the 2017 cycle starting January 1st.

Stay tuned for details on 2017 Seasons Pass program and the informative speakers we are lining up to speak.

STS-AICHe 2016 Season Pass

General Comments

The STS-AICHe Season Pass offered the convenience of a single sign-up and single payment for all eight technical meetings in the 2016 season. Season Pass holders also received priority sign-up for all special events.

Season Pass holders are always recognized as patrons on the STS-AICHe website and in our newsletter. This is a great way to show your support for your section at no additional cost. Season Pass holders are issued a permanent name tag – no need for sticky paper name tags. Your fellow members will recognize you as a patron and a supporter of your profession.

Season Pass holders receive a significant savings when comparing the on-site cost of the dinner meetings. No need to continue to monitor when meeting registrations are open. Save the hidden costs of multiple transactions and tracking the payments and reimbursements, if applicable.

Frequently Asked Questions (FAQ)

As a Season Pass Holder do I need to register for each dinner meeting?

No, there is no need to register or RSVP for the individual meetings once you have made your payment to become a Season Pass holder. We do however ask that you sign-in at the registration table during the day of the event at the meeting venue.

What if I cannot attend a dinner meeting?

Guests and visitors are always welcome. Feel free to send someone else in your place and just let them know at the door of the substitution.

What if I cannot attend the meeting and cannot find a substitute?

Even the most dedicated members cannot make every meeting. The season pass is priced assuming that you will miss a meeting. If you can provide at least a one week notice, by e-mailing the Chair-Elect at sts_chairelect@aiche.org, we can give you a guest pass for the next meeting. That way, you can invite your boss to the next meeting to see what you missed!

I am a big supporter of the section, but I don't want my name posted all over the web. Can I opt-out of the publications?

Yes, just let us know and we will not put your name on our list so that you can continue to fly under the radar. You always have the option of hand writing a name tag.

Will I still get in if I forget my name tag at home?

Yes. We keep a master sign-up list at the door. Patrons are at the top of the list!

I normally sign up in advance. Am I still saving money?

Yes. The Season Pass is eight meetings for the price of seven. You will also save the time and effort of multiple payments.

STS-AIChE 2016 Season Pass

2016 STS-AIChE Patrons

Name	Affiliation
Carol Schmidt	SGL Carbon Company
Dale Embry	ConocoPhillips
Erin Green Colaco	
Gary Gildert	Johnson Matthey
Gary Miller	Air Liquide
George Redd	S&B Engineers
George Vourazeris	Air Liquide Industrial U.S. LP
Gus Georgetown	Stress Engineering Services
Jack Chosnek	KnowledgeOne
John Middleton	WorleyParsons
Kelly Richardson	
Lawrence Chriswell	Keelson Company
Matthew Kolodney	TCEQ
Maximo Salazar	
Robert Andrew	Kiwis Edge LLC
Syamal Poddar	Poddar & Associates
Thomas Rehm	TERehm Consulting LLC
Travis Fixmer	Huntsman
Trevor Rice	Chemstations Inc.
Vic Edwards	VHE Technical Analysis
Wendy Reed	Chemstations Inc.
Yurika Díaz Bialowas	Chemstations Inc.
Jeff Melland	Melland Consulting LLC

Upcoming Events Information

December First Friday Networking Lunch

The "First Friday" networking lunch series is continuing into December with Rita Obey, a recruiter from Recruiting Source International, who will be speaking and answering all your questions about working with recruiters. This is a networking event to bring together engineers who are seeking to improve their employment situation, with experienced industry management and professionals.

December's networking lunch will be held on Friday, December 2nd from 11:30AM - 1PM at the Café on the Lake in the Omni Hotel at Westside ([13210 Katy Freeway, Houston, TX 77079](#)). The Café lunch menu ranges from \$8 to \$15, and the South Texas Section will subsidize this event at \$5 per attendee.

Everyone is welcome to attend! Please register at the following link:

<http://www.aiche.org/community/sites/local-sections/sts/forms/december-first-friday-networking-lunch-registration>



2017 OTC

2017 Offshore Technology Conference – Head's Up! The 2017 OTC will take place May 1 to 4 at NRG Park, Houston, TX. Volunteers will receive a Free OTC Pass*, complimentary parking* with in/out privileges, and all the free goodies/junk you can carry away! In return, OTC Volunteers agree to attend an Orientation Meeting & serve 4 or 5 hours in either Arrangements, Registration, or Student Tours. (* Pass & Parking are good for entire OTC.)

More information will be provided in February 2017. For any questions, contact Tom Menn

thomasmenn@SBCGlobal.net



Upcoming Events Information

January 2017 STS-AIChE Monthly Meeting

The January 2017 STS-AIChE Monthly Meeting will be held January 12, 2017 at Brady's Landing.

Thank you to our Bronze Sponsor, SIS-TECH!

More information can be found on our [website](#).

Dinner Speaker: Julie D. White, SIS-TECH

Title: *Improving Operational Resilience Using Dynamic Simulation*



Abstract: Resilience is the ability to recover from or adjust easily to change. Operational resilience within a chemical plant or refinery can be defined as the capacity for adapting the process and its underlying control systems, people practices and technologies to counter entropy.

Tools and practices are advancing at a fast pace presenting opportunities to improve operational resilience. Utilizing these tools and practices proactively identifies and corrects daily process issues with the intent to intervene prior to escalation to process safety near misses or incidents. The fundamentals of process troubleshooting will be presented as well as multiple facets of dynamic simulation.

Dynamic simulation can be used to gain understanding of a process's behavior under transient and non-steady state conditions. Process response to hard trips or abnormal events can be studied. Advanced uses of dynamic simulation include supporting safety controls, alarms, and interlocks (SCAI) lifecycle activities, such as setpoint selection, response time estimation, and Independent Protection Layer sequence timing. Operational resilience is improved when there is confidence that correct response to SCAI will occur in the correct order and time. For example, the process needs to respond to manual safety alarms prior to initiating safety instrumented systems; and those prior to pressure relief devices.

Bio: Julie D. White is a Senior Loss Prevention consultant with SIS-Tech Solutions responsible for the engineering application of dynamic process simulation and supporting risk management practices. Ms. White has over 20 years of process and process safety engineering experience in the Petrochemical, Polyolefins, Offshore and Subsea industries.

Ms. White has experience in process troubleshooting and optimization, start up and product development support for major debottleneck projects. She has expertise in major accident and incident investigation, developing process safety practices and leading teams tasked with design hazard management responsibilities.

Ms. White is published in Catalyst Today and has given ten presentations at industry symposia such as the AIChE GCPS, AIChE SW PTC, and ISA Process Control and Safety Symposium.

Ms. White has an B.S. in Chemical Engineering and Petroleum Refining from Colorado School of Mines and an M.S. in Chemical Engineering from Louisiana State University.

Ms. White is a member of the Mary Kay O'Conner Process Safety Center's Steering Committee, AIChE CCPS SACHE, DIERS, and AIChE STS.



STS-AICHe YP

Calling all young professionals! Get involved and participate in happy hours, planning meetings, and other fun activities! Check out the new [STS-AICHe YP website](#) for more information.



Planning meeting at Olive Garden



YP at Chuy's for happy hour.
The happiest hour is
5 o'clock...somewhere.

K12 Outreach Volunteers

AIChE and STS are working to start up K12 outreach programs. We are encouraging STS members to attend various local outreach events and report back to STS and AIChE on their experience. We are encouraging STS members to report back to Matt Kolodney (mkolodne@tceq.state.tx.us) with one-page descriptions of their K12 outreach experiences, what worked well and what didn't. These will be reviewed locally and passed on to the AIChE National K12 program. Some local K12 opportunities are listed below.

HUNSTEM web site: <http://hunstem.uhd.edu/> Already has a wide range of educational resources for use by interested teachers and volunteers. AIChE (national) is encouraging cooperation with organizations such as HUNSTEM.

IEEE http://www.ieee-houston.org/Committees/SAC/Brochure_IEEE%20Houston_7_Oct_2007.pdf This ongoing Houston Area program assists local schools with teacher training demonstrations.

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

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

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

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

PE PDH Hours Qualified!!

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

Call for Volunteers Official Greeters

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

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

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

More Volunteer Opportunities

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

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

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

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

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

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

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

South Texas Section to Initiate Company Liaison Program

The South Texas Section (STS) of AIChE is implementing a Company Liaison Program. Kelly Richardson (2016 STS-AIChE Past Chair) is 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 **Kelly Richardson** at stspastchair@aiiche.org.



South Texas Section AIChE

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

2016 Officers and Contact Information

Officers

Chair Syamal Poddar
sts-chair@aiche.org

Chair Elect David Rosenthal
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Past Chair Kelly Richardson
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Secretary Chaitanya Gottimukkala
sts-secretary@aiche.org

Treasurer Carlos Salamanca
sts-treasurer@aiche.org

Executive Committee

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

Position 2: Outreach
Sheena Reeves
sts-position2@aiche.org

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

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

Volunteers

Arrangements: [John Middleton](#)
Awards: [Tom Menn](#)
Membership: [David Silarski](#)
Webmaster: [Phil Purpich](#)
Young Professionals: [Trevor Rice](#)

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 2016

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

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

— SUBSCRIBE/UNSUBSCRIBE INFORMATION —

Our newsletter subscription list is by invitation only.

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

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

— MAINTAIN YOUR CONTACT INFORMATION WITH STS —

Maintain your contact information with the South Texas Section using the online community: <http://www.aiche.org/>

Contact the AIChE for PERMANENT ADDRESS CORRECTIONS:



<http://www.aiche.org/contact/form>



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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