

# The South Texan



Thursday, May 5, 2016

Monthly Meeting @ Pelazzio ([12121 Westheimer Rd, Houston, TX 77077](https://www.google.com/maps/place/12121+Westheimer+Rd,+Houston,+TX+77077))

5:30PM - 6:30PM [Free PSM Workshop](#)  
6:00PM - 7:00PM Social/Networking Time  
7:00PM - 8:00PM Dinner  
8:00PM - 9:30PM Dinner Presentation/Speaker

[Register](#) for the monthly dinner meeting!  
Check us out on [YouTube](#)!

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**EMERSON**  
Process Management

Bronze Sponsor

## May Dinner Meeting

**Dinner Speaker:** Timothy Olsen, Emerson Process Management

**Title:** The New World of Opportunity Crudes

**Abstract:** The refining industry has changed noticeably over the past several years with an ample supply of opportunity crude oils available, which include light tight oils and heavy sour crudes, and sometimes high TAN crudes. Opportunity crudes have been around for years, but only until recently has the abundance of these discounted crudes shifted the behavior of refiners.

With the use of opportunity crude oils comes new processing challenges; Automation technology is advancing to meet these challenges to ensure refiners are successfully alleviating these new issues. Advances in real time crude analysis and crude unit monitoring and control allow refiners to maximize opportunity crude processing while mitigating issues like accelerated fouling and corrosion.

Refiners on the coast will typically have access to more opportunity crudes than those landlocked. Because crude oils can be very different in properties, refiners try to match the required crude oil composition for their refinery configuration; usually by blending two or more crude oils. To make matters more challenging, sometimes crude oils purchased to process are crudes that the refiner has no experience processing.

Crude blending operation has become more important with the ability to establish consistent crude feed properties. Steady operation enables better optimization of the crude unit by pushing against the appropriate constraints which often includes maximizing the quantity of discounted opportunity crude oils blended.

This presentation will first highlight on the market condition changes, then address new operating challenges, and finally show a couple examples where refiners have made modifications in both technology and behavior to adapt to the new world of opportunity crudes.

**Bio:** Tim Olsen has been with Emerson Process Management for 17 years, and 25 years in the refining business. He is a refining consultant within the global refining industry solutions group where he supports Emerson's technical and business strategy.

Tim is a Past Division Chair for the AIChE Fuels & Petrochemicals Division and the Meeting Program Chair for the 2014 AIChE Spring Meeting in New Orleans. He has a B.S. in chemical engineering from Iowa State University with emphasis in industrial engineering and process control, and an MBA from the University of Iowa. Tim is an AIChE Fellow.



## WORKSHOP - PSM

**Title:** Conduct of Operations Workshop – “Walk the Line”

**Speaker:** Donald W. (Don) Abrahamson, Abrahamson Consulting LLC, Owner

**Abstract:** Conduct of Operations (ConOps) is one of the 20 Risk Based Process Safety elements from the Center for Chemical Process Safety (CCPS). ConOps is about performing tasks according to expectations, policies and procedures and behaving in a safe and professional manner to reduce variability, reduce human error, increase safety and enhance effectiveness. This workshop will discuss specific examples on what to include in a ConOps management system to institutionalize the pursuit of excellence in the performance of everyday tasks and minimizes variations in performance. As time permits the workshop will include specific examples on how to incorporate ConOps activities into your operations such as: Process Safety Officer, Operations Shift Change, Maintenance-Operations Hand-Over, Verification after Maintenance, Communications, Inhibiting Safety Systems, Labeling, Housekeeping, Lighting, Tool Management, Control of Access to Unit and Safe Minimum Staffing. ConOps is about running a “Tight Ship” or “Walk the Line”. If you would like to learn what to include in a ConOps management system, then this workshop is your opportunity for that learning experience.

**Bio:** Don has over forty nine years of experience in the Chemical, Petrochemical and Oil and Gas Industry including engineering, operations and process safety management roles. He started Abrahamson Consulting LLC, a Global Process Safety company, in December of 2010. Prior to forming Abrahamson Consulting LLC, Don was Celanese’s Global Process Safety Manager. Prior to joining Celanese Don was the Director of Process Safety and Risk Engineering for Occidental Chemical Corporation. During his career he has had the opportunity to work in a variety of areas including: process safety management, operations management, process safety engineering, technical management, quality assurance management, process development and research. With his many years of hands on process safety and engineering experience, Don is able to provide safe and cost effective solutions to meet complex process safety requirements. Don holds a Bachelor’s degree in Chemical Engineering from Cleveland State University. He has four US patents from his research and development work. The Dallas AIChE Chapter recognized him as the 2010 Chemical Engineer of the Year for Outstanding Achievements in the Chemical Engineering Field.

## Meeting Registration Information

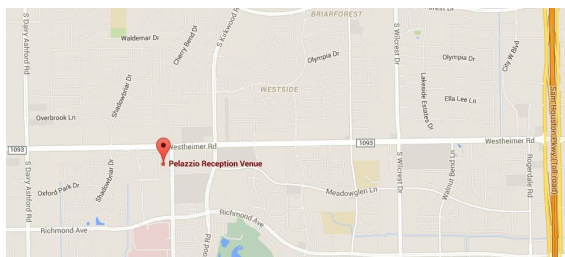
Membership in STS-AIChE is a bargain at \$20/year. If you wish to become a member, you may join at the registration desk at the meeting.

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

**NOTE:** Please bring your receipt. You have until 4PM CST on May 4, 2016 to pre-register online. After that, you will be required to pay the higher cost at the door.

Pre-registration for the main meeting is now open through our [website](#).

## Meeting Location— Pelazzio



This month’s meeting will be held at Pelazzio ([12121 Westheimer Rd, Houston, TX 77077](#)).

Double-click on the image to the left for directions from your location. For more details and information, please check our [website](#).

## May 2016 STS-AIChE Chair's Letter – Syamal Poddar

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

It's time to give you an update on past, present and future activities of 2016. Let me start off by giving you an update of the first four months' key events in a chronological fashion. 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." All four presentations were informative, thought provoking and engaging. Please note that these are available on [YouTube](#).



I am pleased to let you know that all four dinner meetings were sponsored events as follows: January, SwRI as Bronze Sponsor; February, Burns & McDowell as Gold Sponsor; March, LyondellBasell as the Silver sponsor and SwRI as the Bronze sponsor; and April, TLV as Bronze and HTRI as Silver Sponsor. We are now getting ready for the May dinner meeting. The invited speaker is Tim Olsen of Emerson Process Management and presentation topic is "The New World of Opportunity Crudes." We have one confirmed sponsor (Emerson Process Management as a Bronze sponsor). I look forward to seeing you at this event at Pelazzio ([12121 Westheimer Rd., Houston, TX 77077](#)) on May 5<sup>th</sup>. For details, please see the May Newsletter.

We most often arrange workshops before the monthly dinner meeting events. In April we had our traditional Industrial Energy Management Forum jointly with Texas Industries of the Future. This year's theme for the forum was "The Future of Energy Management." The feedback was very positive and attendees felt a high level of energy for the entire event (Forum and the Dinner Event). For details please refer to our May Newsletter which is scheduled to be published soon.

In addition to the summary of activities, there are many more volunteer activities organized by our active volunteers, such as judging at the Houston Engineering Science Fair; supporting K-12 initiatives; participation in Engineers Week and the Boy Scout Fair to name a few. As I indicated in my April Chair's letter, the planning for piloting a breakfast/lunch networking event for members who are searching suitable employment opportunities to reenter the workforce or to better their positions is continuing in an organized way. Also, starting with our April monthly dinner meeting event, we have initiated a monthly mentoring event "Mentor for an Evening," details of which are available in our Newsletter.

Our activities at STS never stop. Although the summer recess is approaching fast, STS volunteers will be busy at the summer planning meeting, scheduled for July 9<sup>th</sup>. The meeting is scheduled at the Bechtel offices at [3000 Post Oak Blvd](#) and our host will be Freeman Self, a longtime active STS member. Although we do not have a confirmed schedule, Dennis Griffith is organizing our traditional Ship Channel visit in the June/July time frame. Stay tuned for this enjoyable trip.

Right after summer recess, starting from September, our regular monthly dinner meeting will resume for the remaining three months of September, October, and November. The invited speaker for September is Doug Kelly of KBR.

Please make a note that our very successful STPC conference in Moody Garden Convention Center in Galveston is scheduled for October 6<sup>th</sup> – 7<sup>th</sup>. See details in the Newsletter.

## May 2016 STS-AIChE Chair's Letter – Syamal Poddar

Recently we reached out via e-letter requesting those who are not currently members to join STS-AIChE, and I'm pleased to inform you that we are seeing positive results with already about a 7% increase in our membership. Please spread the word in bringing more inclusion and diversity in our organization and simultaneously creating a sustainable growth.

Another challenging task in our hand is to attract and retain our young professionals via productive and active engagement in various activities. I encourage all our active volunteers to reach out to our young professionals to actively listen to them to understand and learn from them. I am confident that through various enriching engagement of our young members we shall successfully build a pool of effective future leaders.

With your continued encouraging and engaging cooperation, we shall bring in creative ideas with an open mind and leverage our collective voluntary efforts to positively impact the society we live in while we maintain our focus to streamline and simplify our "way of doing."

My sincere most thanks for your dedicated support and encouragement.

Sincerely,  
**Syamal Poddar**  
Chair



**Crude oil fouling testing helps keep your heat exchangers running longer, cleaner, and more efficiently.**

Drawing on decades of experience, we provide companies throughout the world with contract fouling services that include

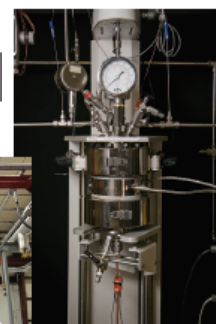
- measuring fouling propensity and anticipated fouling characteristics
- assessing the impact of additives
- estimating fouling thresholds at different temperatures and velocities
- evaluating the impact of metallurgy
- interpreting chemistry data
- assessing primary fouling mechanisms

HTRI researchers help design a test plan that best suits your goals. Once testing is complete, you receive a report containing a comprehensive summary of the tests, analysis of the results, mitigation strategies, and recommendations to guide your project.

**HTRI engineers use three state-of-the-art research rigs to provide crude oil fouling testing services to companies worldwide.**

Contact us at [fouling@htri.net](mailto:fouling@htri.net) to learn how we can help you with your next project.

Rotating  
Fouling Unit



High  
Temperature  
Fouling Unit 2



High Temperature Fouling Unit

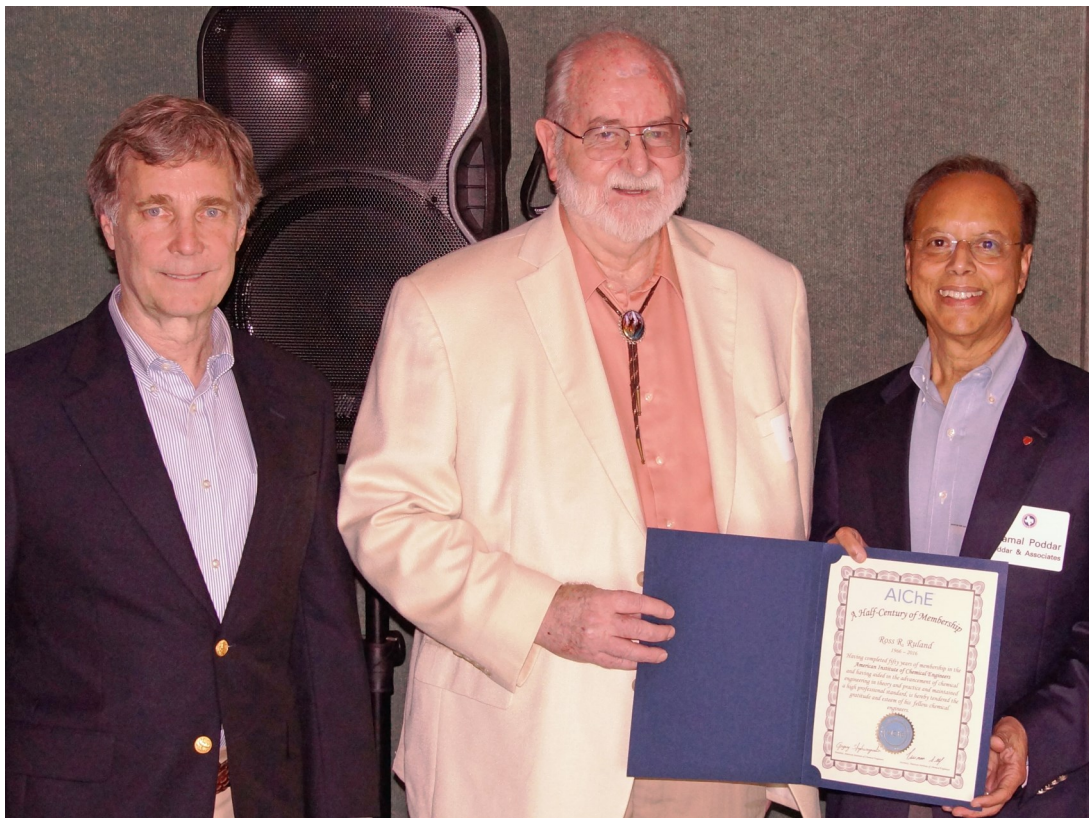


**HTRI**  
[www.htri.net](http://www.htri.net)



## 50 Years of AIChE Membership

# Ross Ruland Recognized for Achieving 50 Years of AIChE Membership



*Ross Ruland (C) is presented with a Certificate of Recognition of his 50 Years of AIChE Membership from 2016 STS-AIChE Chair Syamal Poddar (R). AIChE Secretary Freeman Self (L) assists in the presentation.*

### Ross R. Ruland

Ross received his bachelors in chemical engineering at North Carolina State University in 1965. He is a Senior Member of the AIChE and a licensed professional engineer in Texas.

Ross began his career in 1965 with Exxon Research and Engineering, where he was an Engineering Associate. In 1991 he joined SIP here in Houston; SIP was wholly owned by Parsons. At SIP Ross was a Section Manager.

Ross traveled the globe throughout his career, working on projects in about 20 countries. He and his wife Jean lived for sixteen years in five foreign countries, including about ten years in England where he was with ESSO Engineering; Exxon is referred to as ESSO in England and Europe.

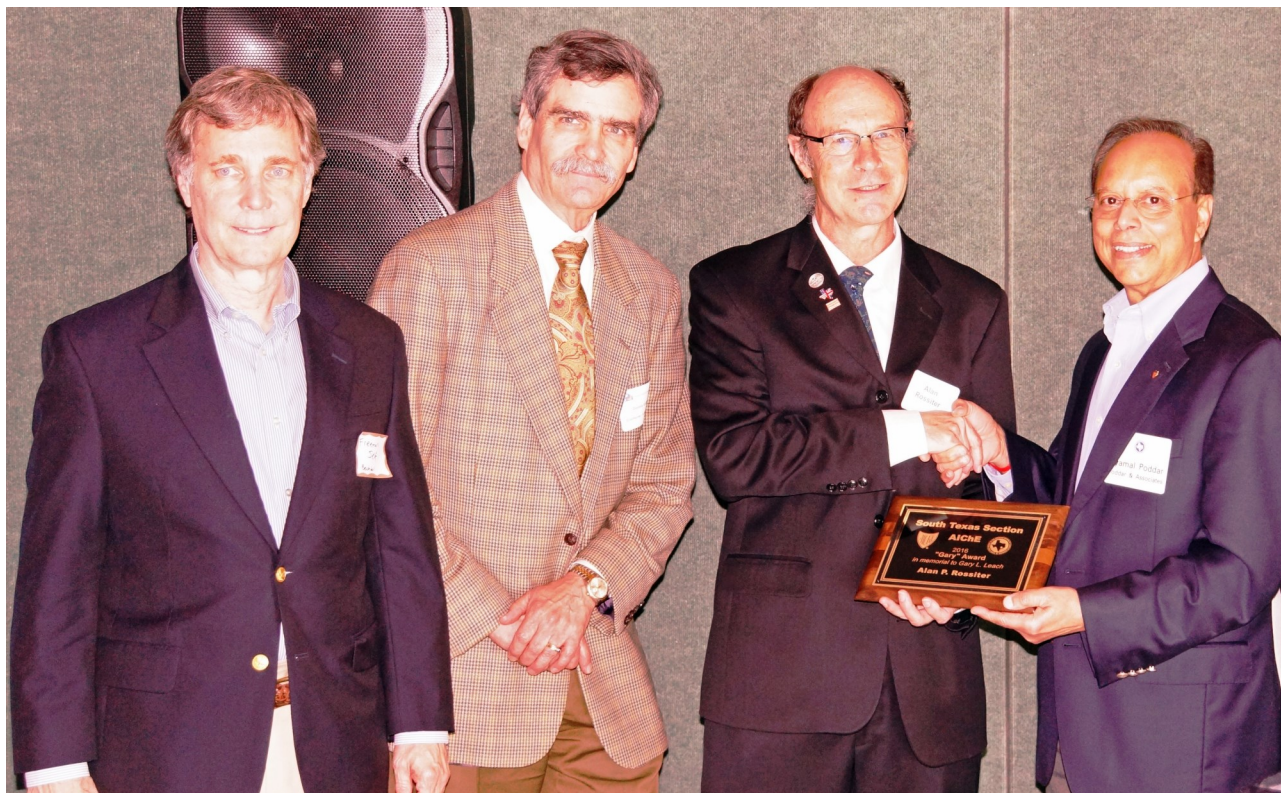
Ross' first major project with Exxon was a Creole desulfurization project in Venezuela; Creole was wholly owned by Exxon. His most memorable project was with SynCrude in Fort McMurray, Canada where he was the fired heater and combustion specialist. Ross has two patents.

He was in the Army for three and a half years, from late 1958 to early 1962. Ross retired in 2000. He and wife have two living children, three grandchildren, and one great grandson. Ross enjoys genealogy and politics.

**Ross, congratulations on achieving 50 years of AIChE membership!**

## STS-AIChE Awards

### Alan Rossiter Receives 2016 South Texas Section “Gary Award”



Alan Rossiter (2<sup>nd</sup> from right) receives the 2016 STS “Gary Award” from 2016 STS Chair Syamal Poddar (R ) while AIChE Secretary Freeman Self (L) and AIChE Treasurer Dennis Griffith (2<sup>nd</sup> from left) look on.

The STS-AIChE Executive Committee awarded the 2016 South Texas Section – AIChE “Gary Award” to Alan Rossiter at the April 7 Monthly STS Dinner Meeting in recognition of his leadership and management of the STS/AIChE Southwest Process Technology Conference for the past several years.

#### *About the South Texas Section – AIChE’s “Gary Award”*

*The 1993 South Texas Section Executive Committee chaired by Peter Waldheim created the “Gary Award” in Gary’s Memory after the untimely and sudden death of former South Texas Section Chair and AIChE President Gary L. Leach. The STS’ “Gary Award” is awarded at the discretion of the South Texas Section – AIChE Executive Committee to those STS Members who have taken the extra step or effort to accomplish a task.*



**Other Awards**

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# **GEORGE HIRASAKI TO RECEIVE 1 OF 2 2016 OTC HERITAGE AWARDS**

**To Be Recognized May 3 at  
OTC Distinguished Achievement Awards Luncheon**



An OTC Heritage Awards will be presented to George Hirasaki, who is being recognized for his contributions to studies of locating hydrate beds in offshore subsea environment as well as his research on reservoir simulation, enhanced oil recovery, formation evaluation, well logging, and reservoir wettability. Hirasaki enjoyed a 26-year career with Shell before joining the chemical engineering faculty at Rice University in 1993. An active member of the National Academy of Engineers, he has received honors such as the Improved Oil Recovery Pioneer and Society of Core Analysts Technical Achievement Award.

Dr. Hirasaki is a Member of the South Texas Section – AIChE and a Senior Member of AIChE.

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## Remembrances

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### Mark Demark

The South Texas Section-AIChE is saddened to learn that a STS Member has passed away. The particulars for Mark W. Demark's passing are given in the brief note obtained from the South Texas Section of The Society of Plastics Engineers Newsletter

"The South Texas Section of the *Society of Plastics Engineers* is sad to announce the passing of Mark Demark, our long time *STS-SPE* Education Chair. Mark suffered complications from surgery and passed away on December 22, 2015. He spent his career in general management, sales, marketing and management of the petroleum refining, petrochemicals, chemicals and catalyst industries. Mark worked for Shell Oil, Criterion Catalysts, Partec Industries, and spent the last 18 years teaching at Alvin Community College and Houston Community College." **Source:** *South Texas Section ~ Society of Plastics Engineers Newsletter*

Mark was a long time STS OTC Volunteer and Season Pass Patron for the South Texas Section – AIChE.



### James Murphy

1939-2016

James "Jim Red" Murphy, 76, passed away on March 14, 2016.

Jim was born to the late James Thomas and Mary Margaret (Hannon) Murphy in St. Louis, Missouri. He graduated from St. Louis University High School and then attended the University of Notre Dame where he graduated in 1962 with a degree in chemical engineering.

With his engineering degree in hand, Jim headed to Texas - the petrochemical capital of the world. Jim married Helene of Wilson, NC in 1969 and spent his working years raising their two sons: Jay and Patrick. He worked for Monsanto, Church & Dwight, and Cyprus AMAX. He also got an MBA from the University of Houston. His real passion was helping others where he was involved with numerous homeless committees, Boy Scouts, Red Cross,

DeBakey VA Hospital, and Knights of Columbus.

Jim is survived by his wife; sons; and 5 grandchildren James, Alexandria, Cornelia, Finnegan, and Colin; two daughter-in-laws, Tamara and Elizabeth; two sisters, Mary Ellen and Peggy; his niece, Kirsten. He is preceded in death by his parents and sister, Kathleen.

Jim was a Member of the South Texas Section -- AIChE and a Senior Member of AIChE. He was the long-time manager of STS CEO Office and received the 1999 South Texas Section -- AIChE Distinguished Service and 2012 South Texas Section – AIChE's 'Gary Award.'

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## STS-AIChE 2016 Monthly Dinner Meeting Schedule

Date	Location	Meeting Details (Speaker/Company/Topic)
January 14	Brady's Landing	Paul Evans, SwRI <a href="#">“Initiatives for Applying Smart Manufacturing to the Continuous Processing Industries”</a>
February 4	Brady's Landing	Burns & McDonnell “The Refinery ‘RTR’ Rule – Major Refinery Impacts and Targeted Solutions”
March 3	Brady's Landing	Walter Pinto, LyondellBasell “Excellence in Stationary Equipment Reliability”
April 7	Brady's Landing	Energy Forum Greg Stephanopoulos, AIChE President “The New AIChE”
May 5	Pelazzio	Tim Olsen, Emerson “The New World of Opportunity Crudes”
September 8	Pelazzio	TBD
October 6	Moody Gardens	<a href="#">SPTC</a> TBD
November 3	Brady's Landing	TBD

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

The STS-AIChE Season Pass for the 2016 technical monthly dinner meetings is being offered for **\$95**. Please visit the [STS-AIChE](#) website to sign-up.

The STS-AIChE Season Pass offers the convenience of a single sign-up and single payment for all eight technical meetings in the 2016 season. The meetings included are the January through May and September through November technical monthly dinner meetings. The December Social meeting is not included in the Season Pass. Season Pass holders also get priority sign-up for all special events. The schedule of topics and venues will be posted on the website (<http://www.aiche.org/sts>) once finalized.

Season Pass holders are recognized as patrons on the STS-AIChE web site and in our newsletter. This is a great way to show your support for your section at no additional cost. Season Pass holders will be issued a permanent name tag – no need for sticky paper name tags. Your fellow members will recognize you as a patron and regular attendee.

Season Pass holders have a significant savings when comparing the on-site cost of the dinner meetings. They also save the hidden costs of multiple transactions and tracking the payments and reimbursements, if applicable.

## **STS-AICHe 2016 Season Pass**

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### **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](mailto: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.

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**STS-AIChE 2016 Season Pass**

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**2016 STS-AIChE Patrons**

<b>Name</b>	<b>Affiliation</b>
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.

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## Upcoming Events Information

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### OTC

**2016 Offshore Technology Conference – Head's Up!** The 2016 OTC will take place May 2 to 5 at NRG Park, Houston, TX. Volunteers will receive 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 on Friday, 29 April from 10:00 - 11:30 am in Room 604, Level 2, NRG Center with complimentary parking. (*\* Pass & Parking are good for entire OTC.*)

For any questions, contact Tom Menn [thomasmenn@SBCGlobal.net](mailto:thomasmenn@SBCGlobal.net)

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### Mentor For An Evening

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The “Mentor for an Evening” program started at our April Dinner meeting. It was well received with over 20 members volunteering to be a Mentor for an Evening. We will continue to promote this initiative at all Dinner meetings. As a refresher for those who did not attend.

The vision of AIChE is to be “The Lifetime Center for professional & personal growth and security of chemical engineers.” Some of our South Texas Section members are just starting out in their careers and are starting to engage at the earliest stage in this lifetime center. We are fortunate to have an active Young Professionals group and it is the local section’s job to support them as they are our future. The AIChE STS is trialing a new program at our dinner meetings entitled “Mentor for an Evening.”

The purpose of “Mentor for an Evening” is to provide an opportunity for our more experienced members to provide assistance to our Young Professionals and those with a few more years of experience advice on career growth, job situations, and managing “up (bosses)” and “down (peers and direct reports).” Hopefully we can provide more value to those attending our dinner meetings. Here is how it will work.

Individuals who have registered and walk-ups will be asked if they would volunteer to be a “Mentor for an Evening”. It is totally voluntary. They will be given an information card describing the program and rules. They will get a sticker for their name badge indicating their participation.

Young professionals will also get a sticker on their name badge and the same information card. As they “mingle” during the evening or sit at a dinner table they can choose to engage with an indicated mentor.

The rules are simple. No discussion on hiring, salaries, performance issues, confidential information, and names of those involved or companies in any situation. The discussions should focus on career growth, project management advice, technical guidance and handling of work situations.

We hope it will be viewed as a valued experience for those who are looking for some third-party advice. I will report to you in future newsletters on its progress.

David Rosenthal  
Chair Elect, STS-AIChE

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## Upcoming Events Information

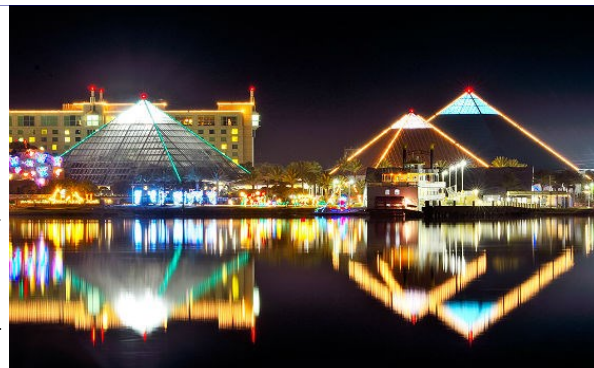
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### 8th Southwest Process Technology Conference (SPTC)

October 6-7, 2016

[Moody Gardens Hotel and Convention Center](#)

The South Texas Section of the AIChE, in partnership with AIChE HQ, is hosting its Eighth Annual Southwest Regional Process Technology Conference at the Moody Gardens in Galveston, TX on October 6 & 7, 2016. The conference provides technical sessions, industry solutions in process technology, and networking opportunities for the nearly 500 chemical engineers and students that attend.



Contact: [sptc16@aiche.org](mailto:sptc16@aiche.org) for more detail about the conference.

The conference keynote will be E. Andrew Boyd, Scheduled Contributor, Houston Public Media's The Engines of Our Ingenuity, will be delivering a talk titled, "In Search of the Limits of Human Creativity."

There are openings for Sponsors, Exhibitors, and Career Fair. Speakers and volunteers are needed!

#### **CALL FOR 2016 SPTC VOLUNTEERS**

Volunteer duties typically include working at registration, as session aides for the technical presentations, assisting exhibitors, working meal lines and collecting event tickets.

**Volunteers will receive free registration for the day(s) they volunteer. If you are interested, contact David Silarski at [sts-membership@aiche.org](mailto:sts-membership@aiche.org) and let him know if you can work one or both days.**

Further information including confirmation and a schedule will be sent out later. It will be a greater conference because of your assistance.

For more information about the conference, use the following link:

<http://www.aiche.org/conferences/southwest-process-technology-conference/2016>



# Southwest Process Technology Conference

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## Scholarships

### 2016 STS-AIChE Scholarship Winners

Congrats to our scholarship winners!

Prairie View A&M	Rice University	Texas A&M	University of Houston
Tralae Jackson	Adriana Aguilar	Thomas Fuller	Robert Dimaunahan
Sterling Rolen	Maggie Jerome	Isam Sinokrot	Nora Elghetany
Elise Salim	Teju Kishore	Tyler Swisher	Priya Patel





## Scholarships

### 2016 STS-AIChE Scholarship Winners

#### 2016 Scholarship Recipient: Elise-Marie Salim

My name is Elise-Marie Salim and I am a junior chemical engineering major at Prairie View A&M University. I am very active in extracurricular organizations as I am the community service and fundraising chairs for both AIChE and the Tau Beta Pi Engineering Honor Society on campus. I am also an active member in the Purple Jackets and Omega Chi Epsilon Chemical engineering honor society on campus. I work part time at Victorias of Faith Community Church as the director of the music department. In my spare time I enjoy singing locally at restaurants or events as well as playing basketball recreationally.

Currently I am most excited by the challenge my classes give me. After my internship in the summer of 2015 at the Dow Chemical Company as a Run Plant Engineer Intern, my interest in the downstream process was piqued. I became very interested in learning more about plant design, how distillation works, and the overall business of creating a desired product for a customer using chemistry and math. Since then I have been able to go even more in depth in my learning by taking Kinetics, Separations, and Organic Chemistry 2 this semester.

The Prairie View A&M chapter of AIChE has helped me most by connecting me with other chemical engineering students and staff. Through AIChE I have been able to better a relationship with my advisor Dr. Emmanuel Dada and my department head Dr. Irvin Osborne-Lee. I have also enjoyed working with our student executive board to plan events for the members of our chapter such as a résumé building workshop and a Breast Cancer Awareness meeting. In addition I could not have been fortunate enough to receive such an amazing scholarship if it wasn't for our advisor's dedication to our chapter of AIChE together with the South Texas Section (STS) of AIChE, which gives three scholarships every year to students in each of four chemical engineering departments locally that have AIChE student chapters including PVAMU, Rice, Univ. of Houston, and Texas A&M. The STS supports our student chapter in other ways as well, such as providing funding support for travel to the annual meeting.

The best advice I could give anyone looking to pursue a ChE degree is to never give up. If you love math and science and truly believe this is what you are meant to study then don't give up as there may be many hard classes and tough situations that will cause you to question your decision. Also don't confine yourself to what you think chemical engineers are supposed to do when they graduate. A lot of people assume chemical engineers have to go into the oil and gas industry when they graduate but that is not always the case. Though that is a great option for some, I am personally choosing to pursue medical school and feel that chemical engineering has given me the best foundation to be successful.



## Scholarships

### 2016 STS-AIChE Scholarship Winners

#### 2016 Scholarship Recipient: Adriana Aguilar

##### Tell us about yourself

I will be graduating from Rice University this May. I have had an amazing experience at Rice the past four years – both in my education and in personal relationships with my peers. I have had two internships in production engineering at Anadarko, where I was able to experience both the field and the office. I enjoy being outside, traveling, watching movies, and trying new food. I am dedicated to serving my community, and I have been able to do this through various service organizations in high school and at Rice. After graduation, I hope to have a lasting impact in my community through my professional work and service work.



##### What do you like most about your current classes and what are your responsibilities?

Chemical engineering has given me the ability to think critically about a problem and develop creative solutions. This ability to problem solve was necessary in my two internships. I especially loved my lab classes because I was able to merge hands-on experience with the theory learned in my other classes.

##### How have the local student chapter, STS and AIChE benefited you?

AICHE has been a valuable resource for learning about job opportunities, networking, and providing professional mentors. Members of AICHE STS came to Rice to talk about their careers, which gave me an opportunity to ask questions about their professional roles and challenges in their work. AICHE has given me the opportunity to attend info sessions from multiple companies to explore the various career options that ChE has to offer.

##### Any advice for students who want to pursue a ChE degree?

Chemical Engineering is a diverse major that is applicable to many fields and industries. Explore the opportunities that each field has to offer through classwork and internships. Take advantage of field internships; my favorite experience has been working as a field production engineer for Anadarko in West Texas.



## Scholarships

### 2016 STS-AIChE Scholarship Winners

#### 2016 Scholarship Recipient: Maggie Jerome

##### Tell us about yourself

My name is Maggie Jerome and I am originally from a small town in Wisconsin. I am currently in my final semester studying Chemical Engineering at Rice University. At Rice I am enjoy being involved in AIChE, SWE, Peer Academic Advising, and an Undergraduate Board for the Dept. of Chemical Engineering. In my free time away from the classroom and these organizations, I love running and finding exciting things to do in Houston!



##### What do you like most about your current classes and what are your responsibilities?

Currently, I am really enjoying the chemical engineering design course I am in. We are working on designing a plant with a goal of applying principles of sustainable / green chemistry. I find it very exciting to apply all of the previous chemical engineering courses I've taken into one final project in a creative and innovative way. This course also gives me the opportunity to apply some of the process engineering knowledge I gained from my internship last summer.

##### How have the local student chapter, STS and AIChE benefited you?

AIChE has benefited me in a variety of ways. The student chapter hosts many events (several of which are in connection with STS) aimed at mentoring, networking, and professional development. These have been extremely useful over the years as I have searched for internships and then a full time position and thought about what industry I want to begin my career in. Being involved on the officer team of the student chapter of AIChE has also given me the opportunity to get to know my fellow classmates and professors better and to help serve their needs based on requests and feedback we get from our events.

##### Any advice for students who want to pursue a ChE degree?

My advice for students who want to pursue a ChE degree is to work hard, get involved, and not be afraid to ask questions. Being involved in student engineering organizations opens up doors that many students are not even aware of including regional and national conferences where there are a multitude of mentoring and professional development opportunities, career fairs where you could learn about a new companies that may not attend your school, and competitions where you can set yourself apart from fellow students.

Being willing to ask questions is crucial to any situation and will serve you well in the classroom as well as in internship and starting full time positions!





## Scholarships

### 2016 STS-AIChE Scholarship Winners

#### 2016 Scholarship Recipient: Teju Kishore



#### Tell us about yourself

I will be graduating Class of 2016 from Rice University with a B.S. in Chemical Engineering, a Business Minor, and an Engineering Leadership Certificate. Over the past year as President of the Rice AIChE Student Chapter, I have spent my time trying to increase student and AIChE leadership involvement in the organization. In the fall, I created and hosted a series of workshops for students to help prepare them for the job recruiting season. I also worked to bring together undergraduate and graduate students, alumni, and faculty through events such as our AIChE BBQs and Speed Mentoring. Over this past year, our chapter has created strong and practical events, which pertain to the concerns of Rice students, and has built relationships with our alumni organizations.

#### What do you like most about your current classes and what are your responsibilities?

I love that my classes allow me to grow as a person and as a student. Some of the classes I am taking right now are humanities classes which complement the engineering classes I have taken over the last four years.

For the last three summers, I interned at Halliburton in their Production Enhancement business working on the development and testing of new downhole products. Each summer, I was given a project and I went through all the engineering and design stages with the aid of my mentors and colleagues. From my summer work, I have two publications and have been a contributor on two patent submissions.

#### How have the local student chapter, STS and AIChE benefited you?

The biggest benefit from the student chapter, STS, and AIChE is the connections I have made. Because of AIChE, I became more involved with the alumni committees at Rice and with the STS-YP section as well.

#### Any advice for students who want to pursue a ChE degree?

My advice would be to find a really good study group, make friends, and attend TA sessions. The people really do make all the difference in a major as hard as ChE.



## Scholarships

### 2016 STS-AIChE Scholarship Winners

#### 2016 Scholarship Recipient: Thomas Fuller

##### Tell us about yourself

Howdy, I am Thomas Fuller, a senior Chemical Engineering Major at Texas A&M University from the Energy Corridor of Houston, Texas. Growing up in Houston, I was introduced to the oil and gas industry at a young age and plan to pursue a career that will challenge me to grow and adapt to the development of the industry. Academically I am involved inside and out of the classroom. I have earned a 3.81 GPA while serving my fellow students as the President of the American Institute of Chemical Engineers Texas A&M Student Chapter and President of the Aggie Career Team, a volunteer organization within the Texas A&M Career Center dedicated to helping Aggies take the next step towards employment. Beyond the classroom I am an avid outdoorsman engaging in rock climbing, backpacking, and water sports. My passions are driven by serving others and enjoying the world that we have been blessed with.



##### What do you like most about your current classes and what are your responsibilities?

The pinnacle of my course work is the challenge that it provides and the applicability that it has. I was told early on that engineering classes will not just tell you what to think, but how to think. At the time I was shortsighted and didn't see how this would help me on the next exam, but as time progressed I have matured and understand the value of the statement. Engineering classes have taught me how to evaluate a situation, any situation. My finances I now view as a mass balance with flow in, flow out, and mysterious consumption in the middle. Planning for camping trips includes stating the knowns, unknowns, and making assumptions about the places I may go. Moreover, chemical engineering has helped me to appreciate the world that we live in. To look around me in our modern world, I think of the polymers, the fuel, and the genius of a little hard work, a lot of determination, and the ingenuity of engineers to make the impossible possible.

##### How have the local student chapter, STS and AIChE benefited you?

The local Texas A&M University Student Chapter was my first college organization. Since then it has been the root of my college experience and growth and development as a young adult. AIChE has taught me about friendships, group work, industry relations, leadership, and planning. I contribute much of my leadership style to AIChE because of the opportunities that it has provided. I have served fellow students as Freshman Class Representative, Vice President of Programs, and currently the President.

##### Any advice for students who want to pursue a ChE degree?

Chemical engineering is unique. Few students can graduate with a single bachelors and choose to apply themselves to become a medical or veterinarian school student, investment banker, naval nuclear officer, NASA electronics engineer, petroleum engineer, process engineer, or design engineer. However, I know students graduating with one thing in common, a chemical engineering degree that are pursuing each of these fields. Chemical engineering is the start of something much bigger. Yes, we learn how to calculate the numbers and perform heat and mass balances, but more so we know how to solve problems. Chemical engineering provides the beauty of understanding the big picture and focusing on the details. The magnitude of Chemical Engineering can work on the nanoscale of graphite research to the multi-billion dollar investment of the world's largest ships and offshore platforms. The doors are open with Chemical Engineering, are you ready to step though?



## Scholarships

### 2016 STS-AIChE Scholarship Winners

#### 2016 Scholarship Recipient: Isam Sinokrot



#### Tell us about yourself

I am a Chemical Engineering student at Texas A&M University. I am from Palestine, and was born and raised in Asia. I then lived in Africa prior to attending High School in Texas. I enjoy playing sports, reading books, and playing the piano.

I am currently the VP Programs of the American Institute of Chemical Engineers (AIChE), Training & Development Director of Engineers Without Borders (EWB), and Vice President Finance of Omega Chi Epsilon. As an active leader in student organizations at A&M, I organize and manage over 40 events that foster student educational development and industrial exposure each academic year. To further diversify my skill set, I've completed a Business Management Certificate with Mays Business School, Six Sigma Certificate with Aveta Business Institute, and a Chemical Process Safety Certificate with AIChE.

#### What do you like most about your current classes and what are your responsibilities?

I like the material I learn in my classes and how diverse it is. The information can be applied to any problem I face. For example, I can apply material balances to accomplish finance calculations, lose weight, and design a chemical plant.

#### How have the local student chapter, STS and AIChE benefited you?

The STS chapter benefited me by providing a scholarship that will cover a lot of my education's expenses. The AIChE local chapter benefited me by providing countless opportunities for me to get involved to foster my professional and personal development, expand my knowledge boundaries, and expose me to industry leaders.

#### Any advice for students who want to pursue a ChE degree?

Chemical engineering is a very interesting degree that introduces you to many different educational pathways that you can use in any field or application you desire.



## Scholarships

### 2016 STS-AIChE Scholarship Winners

#### 2016 Scholarship Recipient: Tyler Swisher

##### Tell us about yourself

I am from Seguin, TX. I attended Lifegate Christian School from 1st grade till 12th grade. I had a very small class of about fifteen students for the vast majority of my time there. While in Seguin, I was active in the community through a local nursing home and several camps that focused on community outreach. At my school, I was heavily active in sports. My senior year of high school, our team won the TAPPS sixman football state championship. I was also the valedictorian of my class.

I applied and was accepted into chemical engineering at Texas A&M making me the second generation of our family to attend A&M. Since the end of my freshman year, I have been an active participant with our student AIChE chapter. My first involvement as an officer was as a sophomore class representative. I later became the VP of Finances for our chapter, and I will be president for the upcoming year. Being part of AIChE has greatly helped me to develop a strong network with representatives from companies while also helping me to build friendships with those around me. I will be working for Anheuser-Busch during this coming fall.



##### What do you like most about your current classes and what are your responsibilities?

I currently really enjoy my chemical engineering economics class and my mass transfer class. The teachers for both classes are incredible. This last summer I worked for Entegris as an engineering intern. During my time there, I was greatly able to apply my statistics course. I used it to do root cause analysis for a failed batch at the plant.

##### How have the local student chapter, STS and AIChE benefited you?

Our student chapter has provided me with amazing opportunities to make friends and meet with company representatives. I have been able to better myself as a person while at the national and regional conferences. I always try to attend as many presentations as possible to get as much out of it as I can. Now, STS has helped me by providing me with a scholarship that I can use to pay for my rent and books at school!

##### Any advice for students who want to pursue a ChE degree?

I would strongly advise getting in immediate contact with the school's AIChE student chapter. I found all of the individuals that I now study with and hang out with through AIChE. I would also recommend taking advantage of office hours from teachers. They are almost always happy to help, and they will remember who you are. When you get a couple years down the road and you need help with a project, they will remember you from coming to their office hours and will be more than happy to help you.





## Scholarships

### 2016 STS-AIChE Scholarship Winners

#### 2016 Scholarship Recipient: Robert Dimaunahan



#### Tell us about yourself

I am a rising senior at the University of Houston obtaining a dual degree in B.S. Chemical Engineering and B.S. Chemistry. I have done previous research in nanoparticle synthesis for a stable and efficient photocatalyst and am currently switched to computational catalysis studies. My career goals are to go to law school and work in intellectual property and patent law. I believe that through helping engineers and scientists develop their innovations and ideas, we can push the boundaries of technology and solve many problems.

#### What do you like most about your current classes and what are your responsibilities?

My favorite part about my classes is the challenge. It helps me grow as a person and expand my potential. This gives me the confidence to face many other real world problems and provide solutions. During the summer of 2015, I had a wonderful opportunity to intern with Air Liquide in their nano-analysis lab. I had tested and optimized their current trace-metal analysis methods and improved their detection limits from parts per billion to parts per trillion. This resulted in pushing the limits of analysis of ultra-clean chemicals in fabrication facilities. In fact, I had worked in the exact fab where the iPhone 6 chips were being made.

#### How have the local student chapter, STS and AIChE benefited you?

I had recently been elected as Vice President for the University of Houston student chapter of AIChE, and I am excited to help lead this organization. In addition, I had worked in the Chem-E-Car competition, qualifying for Nationals twice and assisted in organizing the 2016 AIChE Regional Student Conference. The leadership I had gained through this experience helped me obtain my internship and for the summer of 2016, I have been selected to go to Paris, France to attend Air Liquide's Summer Leadership School for a week.

#### Any advice for students who want to pursue a ChE degree?

My main advice for students who want to or are currently pursuing a ChE degree is to "put down the book" once in a while and participate in other activities. Grades, exams and homeworks are tough but that is not all that engineering is about. Engineering is about finding solutions to problems or projects and collaborating with others. I recommend to join Chem-E-Car and you can apply your knowledge and skills to a physical project. It is a fun opportunity to research and design your own chemical car. Join the local AIChE and take advantage of all the events offered. Workshops, company info sessions and social events are part of what AIChE can offer and can benefit you in the long run.



## Scholarships

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### 2016 STS-AIChE Scholarship Winners

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#### 2016 Scholarship Recipient: Nora Elghetany

##### Tell us about yourself

I'm Nora Elghetany and I am a senior in Chemical Engineering at the University of Houston, who aspires to make a positive impact on the world through my degree. I plan on pursuing a graduate degree once I finished. I enjoy video games as well as going to the recreation center on campus.

##### What do you like most about your current classes and what are your responsibilities?

I love how my classes show me the different sectors of chemical engineering: one is plant design and economic analysis of the process and another is research and instruments used in the polymer field with a hint of material science. The class dealing with research engraved the theories introduced in my own research experience with electronic materials and systems. Even though these systems are not entirely polymer based, the class still etched a lot of information from previous papers I had read.

##### How have the local student chapter, STS and AIChE benefited you?

AIChE has been a part of my undergraduate career since freshmen year. The student organization hosted many events which I have found my study groups and closest friends at the University of Houston. In addition the conferences held on the national scale bring in a variety of people and career fairs that impacted my future. I would not have known which school to apply to if I had not talked to the faculty members of each school at these conferences. Also when Priya and I ran the 2016 Southwest Regional Conference, the STS chapter and National AIChE were extremely helpful throughout the entire process. They answered all our questions and STS even sponsored us!

##### Any advice for students who want to pursue a ChE degree?

When you begin your undergraduate degree you start to have tunnel vision to where each class is a separate entity. Once you understand the bigger picture of chemical engineering and that all these classes are linked by classical engineering theories then the classes become easier to understand. In addition, forming study groups is extremely efficient. Everyone interprets questions differently and have strengths and weaknesses that could correlate with yours, thus bringing a complete study experience with a fresh look at engineering questions.



## Scholarships

### 2016 STS-AIChE Scholarship Winners

#### 2016 Scholarship Recipient: Priya Patel



##### Tell us about yourself

My name is Priya Patel and I am a junior in Chemical Engineering at the University of Houston. I have been involved with AIChE at UH since my freshman year. I have served as a Freshman Representative and been member of the Social Committee. This year, AIChE at UH had the honor of hosting the 2016 AIChE Southwest Regional Conference and I served as Co-Chair of the Conference Planning Committee.

Throughout my career at UH, I have also been a Teaching Assistant for the Program for Mastery in Engineering Studies (PROMES), served on committees for the Society of Women Engineers (SWE) and American Institute of Chemical Engineers (AIChE). In addition, I took up a research project in Spring 2015 and continued working on it throughout Summer 2015 with the Summer Undergraduate Research Fellowship (SURF). Last fall semester, I had the privilege to Co-op with BASF as Operations Engineering Intern. As part of my time at UH, I have enjoyed taking up leadership roles, engage in student support programs and work to develop myself professionally and intellectually.

##### What do you like most about your current classes and what are your responsibilities?

The classes that I am taking currently provide me with the fundamental knowledge. In addition, the rigorous curriculum gives us, the students, an opportunity to think critically and develop problem-solving skills, which are vital to being a successful engineer.

On the job, we will not be seeking to solve problems from a book. In order to come up with innovative solutions to problems we encounter in the industry, we need the skills and fundamental knowledge. From my internship experience, I got the opportunity to apply the concepts I learned in thermodynamics, chemical processes and utilize the skills I had developed from these classes to optimize a process. However, learning does not end in college, in order to be a successful chemical engineer, we are always learning.

##### How have the local student chapter, STS and AIChE benefited you?

By getting involved with the AIChE at UH, I gained leadership experiences and mentoring opportunities. By getting the opportunity to lead the Regional Conference planning, I learned many valuable skills, like communication, teamwork, and organization. The planning of the conference began a year ago, but the project management skills I gained during this experience are invaluable. In addition, by awarding me with this scholarship, STS-AIChE has lightened my financial burden. By being involved with the student chapter, STS and national AIChE, I have learned a lot about the industry and met other chemical engineers.

##### Any advice for students who want to pursue a ChE degree?

In order to pursue a ChE degree, one must have the passion for STEM. With this passion, one needs a strong work ethic, an open-mind and ability to work in teams. One has to put in effort and study hard for engineering classes, but it is all worth it when one enjoys the work. Chemical engineering is such a versatile career that a ChE degree opens up doors to countless opportunities.





## Outreach Volunteer Past Events

STS volunteers participated in three K-12 Outreach events in April. If you are interested in volunteering in the future in an outreach event, please contact Matt Kolodney ([mkolodney1@comcast.net](mailto:mkolodney1@comcast.net)).

The Texas P.E. Board allows up to three hours of continuing education credit per year. Certificates from STS are encouraged, and we will provide them upon completion of your volunteer duties.

### STS Volunteers at Rice University “[Reach for the Stars! STEM Festival](#)” - April 9, 2016

STS volunteers encouraged kids and students to pursue careers in science, technology, engineering, and mathematics.



# STEM FTW



## Outreach Volunteer Past Events

### STS Volunteers at HISD “[When I Grow Up](#)” Career Expo - April 9, 2016



STS Volunteers Cecelia Burns and Larry Chriswell

The Expo was held at the Hattie May White Educational Resource Center. Many of the students we spoke with were in junior high and high school, but didn't want their pictures taken, or the photos didn't turn out as well.

Students were interested in chemistry, chemical engineering, chemical technology, and none of the above.

We discussed whether they liked math and science, future career opportunities, the courses they'll need to take in junior high, high school, and college.

Many booths were present from schools, government agencies, commercial and industrial employers, and professional and commercial associations for a wide variety of career opportunities.

Future industry engineers-in-training



STS Coordinator Matt Kolodney with cutaway of a gate valve, lent to us by Bayport Training & Technical Center. They also lent us a see-through acrylic model of a heat exchanger.



Cecelia with a future chemical engineer learning to operate a gate valve.





## Outreach Volunteer Past Events

### STS Volunteers at [Boy Scout Fair](#) - April 16, 2016

The Boy Scout Fair has been held annually in April. STS has had a K-12 outreach table off and on since 2010. In different years we have used hands-on demonstrations, photographs, equipment, and computer simulations. The fairs have been held at the NRG Arena.

The volunteers this year were Matt Kolodney (coordinator), Yurika Diaz (who brought a simulation exhibit and various goodies from Chemstations), Carol Schmidt, Tom Rehm, and Cliff Woodward (a former Eagle Scout). We also had the new STS sign, which includes an attractive 2.5' x 3.5' photo of a chemical plant.

We spoke to the scouts (both boys and girls) about career goals and opportunities, school courses is takes to reach them, and the skills, interests and abilities to succeed in them.



Carol Schmidt and son (possible future engineer)



Our volunteers advising an interested junior high student



A father (and chemical engineer) explains distillation to his son

## **STS-AIChE YP**

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### **STS-AIChE YP Happy Hour!**

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Friday, April 29th, the Young Professionals will be hosting a Happy Hour at Sherlock's Baker St. Pub! Join us for some after-hours conversation, networking, and drinks provided by the Young Professionals.

Feel free to bring your colleagues and classmates!

Date: **Friday, April 29th**

Time: **5PM - 8PM**

Location: **Sherlock's Baker St. Pub** ([10001 Westheimer Rd, Houston, TX 77042](#))

No RSVP necessary! If you're bringing a large group, please let [sts-yp@aiche.org](mailto:sts-yp@aiche.org) know ahead of time.



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### **STS-AIChE YP Volunteer Event: OTC Bag Stuffing**

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Is your favorite hobbit Bilbo Baggins? Well you're in luck because there's a BAG stuffing volunteer event! (Note: bag stuffing volunteer event has nothing to do with LotR). Come help stuff OTC goodie bags with other young professionals! Not sure what OTC is? You won't need a doctor's note; your prescription is [here](#), my precious.

Date: **Saturday, April 30th**

Time: **Noon - 3PM**

Location: **Provided upon RSVP**

RSVP: **Required!** E-mail [sts-yp@aiche.org](mailto:sts-yp@aiche.org) to help out!

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## AIChE Membership

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### Continue your AIChE Membership for 2016

If you haven't already responded to the AIChE personalized renewal invoice sent to you in the mail, we invite you to continue your membership. Visit the AIChE website at <http://www.aiche.org/community/membership>. STS-AIChE members are offered reduced registration prices at select local section events throughout the year. **Please be sure to click the check box for the "South Texas Local Section" when renewing your membership to be eligible for the STS-AIChE member benefits.**

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## Awards

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### *It's Awards Time!*

**NOTE: All 2015 Awards Nominations must be received by May 1, 2016!**

It is once again time to nominate an STS member for the 2015 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://www.aiche.org/community/sites/local-sections/sts/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://www.aiche.org/community/sites/local-sections/sts/forms/sts-award-nomination-form>

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

**NOTE: All 2015 Awards Nominations must be received by May 1, 2016!**

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## South Texas Section – AIChE 2015 Annual Awards Nomination Form (page 1 of 2)

THIS NOMINATION FORM MUST BE RECEIVED BY MAY 1, 2016 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](mailto:ThomasMenn@SBCGlobal.net)

Tel.: 281-544-8447

[Ryan.Stephens@shell.com](mailto:Ryan.Stephens@shell.com)

Tel: 281-544-6476

[Matthew.Christiansen@shell.com](mailto: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.)

2015 STS Outstanding Young Professional Award (*Under age 35*) \_\_\_\_\_

2015 STS Distinguished Service Award (*Over age 35*) \_\_\_\_\_

2015 STS Best Fundamental Paper Award \_\_\_\_\_

2015 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.**

## South Texas Section – AIChE 2015 Annual Awards Nomination Form (page 2 of 2)

Please enter the name of the 2015 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:**

	<u>MEMBERSHIP</u>	
	<u>AICHE</u>	<u>STS</u>
<b>Note:</b> At <u>least</u> one (1) author must be a STS Member.		
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, 2016 in order to be eligible for the recognition due a STS – AIChE Member Best Paper Award Recipient.*

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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](mailto: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_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](mailto: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.*

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## 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.

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## More Volunteer Opportunities

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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](mailto:matthew.kolodney@tceq.state.tx.us)

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

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 [sts-pastchair@aiche.org](mailto:sts-pastchair@aiche.org).

## Other Opportunities – “Fluid Flow Project: Two-Phase Flow in Pipes” Course

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Dr. Cem Sarica and Dr. Eduardo Pereyra are offering the short course, **“Fluid Flow Projects: TWO-PHASE FLOW IN PIPES”**, in Tulsa, May 16-20, 2016. This course is based on completed and current research projects conducted at the Tulsa University Fluid Flow Project (TUFFP) research group which is supported by several oil and gas production, consulting, service member companies and government agencies

The course feature include:

- Problem-solving sessions which enhance the understanding of variables unique to two-phase flow.
- Computer algorithms so you will be able to develop your own programs upon completion of the course.
- An appropriate balance between lectures and problem-solving exercises, and between theory and real-world application.

It is designed for anyone who handles multiphase flow systems. Past participants have included:

- Systems Engineers
- Reservoir Engineers
- Petroleum Engineers
- Flow Assurance Engineers
- Technical Consultants
- **Chemical Engineers**
- Production Engineers
- Completions Engineers
- Mechanical Engineers
- Facility Engineers

**This is a great short course...but don't take our word for it! Here are some comments from past participants:**

“...Sarica's knowledge in multiphase flow is unsurpassed.” - D. Dimattia, Process Eng. Advisor, ExxonMobil

“An excellent short course providing the background to problem solving techniques to use state of the art models to resolve your multiphase flow issues and understand the limits of the solutions.” - K. Leigh, Sr. Process Engineer, ChevronTexaco

“This was a very thorough, intense course that covers multi-phase flow correlations and module and how they work.” - J. Damiano, Engineer I, EOG Resources

“As I was not familiar with the multiphase flow modeling, I could follow the explanations because the contents started with the fundamentals.” - R. Hirose, Reservoir Engineer, INPEX Corporation

“The course is very well organized and I have a much deeper understanding now of multiphase flow. The course clarifies the theories behind software interface.” - S. Cai, SGS Upstream Services

### **SPECIAL OFFERS:**

TUFFP/TUPDP Member Companies Discounted Registration Fee: \$2595/person  
SPECIAL OFFER to Non-Member Companies: \$2895/person

For more information about the course and to sign-up, contact:

The University of Tulsa  
Continuing Education for Science and Engineering  
[cese@utulsa.edu](mailto:cese@utulsa.edu)  
918-631-3088  
[www.cese.utulsa.edu](http://www.cese.utulsa.edu)  
Direct link to course info on our website: [Fluid Flow Projects: Two-Phase Flow in Pipes](#)  
See [brochure](#).



## 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](mailto:sts-chair@aiche.org)

**Chair Elect** David Rosenthal  
[sts-chairelect@aiche.org](mailto:sts-chairelect@aiche.org)

**Past Chair** Kelly Richardson  
[sts-pastchair@aiche.org](mailto:sts-pastchair@aiche.org)

**Secretary** Chaitanya Gottimukkala  
[sts-secretary@aiche.org](mailto:sts-secretary@aiche.org)

**Treasurer** Carlos Salamanca  
[sts-treasurer@aiche.org](mailto:sts-treasurer@aiche.org)

#### Executive Committee

**Position 1: Education**  
Shane Tierling  
[sts-position1@aiche.org](mailto:sts-position1@aiche.org)

**Position 2: Outreach**  
Bill Epling  
[sts-position2@aiche.org](mailto:sts-position2@aiche.org)

**Position 3: Communications**  
Linton Wong  
[sts-position3@aiche.org](mailto:sts-position3@aiche.org)

**Position 4: Human Resources**  
Tom Rehm  
[sts-position4@aiche.org](mailto: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://www3.aiche.org/MemberMail/redirect.aspx>

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](mailto: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](mailto:sts-newsletter@aiche.org) with comments, questions, suggestions, and ideas for next month.



#### Newsletter Editors

**Linton Wong**  
Baker Hughes  
12645 West Airport Blvd  
Sugar Land, TX 77478  
(832) 600-0144  
[linton.wong@bakerhughes.com](mailto:linton.wong@bakerhughes.com)

**Shubharthi Barua**  
Chicago Bridge & Iron Co.  
5850 Rogerdale Rd  
Houston, TX 77072  
(979) 402-1508  
[shubharthi.barua@ymail.com](mailto:shubharthi.barua@ymail.com)

#### Submit an article! Contact:

**Matt Kolodney**  
TCEQ  
5425 Polk Avenue, Suite H  
Houston, TX 77023-1486  
(713) 767-3752  
[mkolodne@tceq.state.tx.us](mailto:mkolodne@tceq.state.tx.us)

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Global NP Solutions, LLC  
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Houston, TX 77062  
(281) 280-8717  
[Teresa@globalnpsolutions.com](mailto:Teresa@globalnpsolutions.com)