

# The South Texan



**Tuesday, October 1, 2019**

Monthly Meeting @ The Sugar Land Marriot Town Square  
([16090 City Walk, Sugar Land, TX 77479](https://www.marriott.com/hotels-and-resorts/properties/sugar-land-marriott-town-square))

Please note that this dinner event is in conjunction with the 2019 SPTC Conference.

6:00PM - 7:00PM Join SPTC for the [Poster Session and Happy Hour](#)

7:00PM - 8:00PM Dinner and STS Announcements

8:00PM - 9:00PM Dinner Presentation/Speaker

Check us out on [YouTube!](#)

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## October Dinner Meeting

*Speaker: Joe Powell, Shell Chief Scientist - Chemical Engineering*

### Abstract

The energy industry must deliver “more” and “cleaner” energy to meet global stakeholder needs for energy abundance and security of supply, while also addressing sustainability and responsible care for the planet including mitigating risks to climate. A portfolio of options and solutions will be required, taking into account a diverse array of existing infrastructures, global resources, as well as economies and policies, giving rise to unprecedented rates of change in energy systems over the next century. This seminar will present scenarios for addressing the challenge of sustainable future energy, and overview some of the technology developments underway to manage the energy transition.

### Speaker

Joseph B. Powell (PhD) is Fellow and former Director of the American Institute of Chemical Engineers, and since 2006 is Shell’s Chief Scientist - Chemical Engineering, where over 30+ years he has led R&D programs in new chemical processes, biofuels, enhanced oil recovery, and currently advises R&D for energy transition to a net-zero carbon economy. Dr. Powell is co-inventor on more than 125 patent applications (60 granted), has received AIChE / ACS / R&D Magazine awards for Innovation, Service, and Practice, and is co-author of *Sustainable Development in the Process Industries: Cases and Impact* (2010). PhD: U. Wisconsin-Madison (1984); BS: U. Virginia (1978).



## October Dinner Meeting

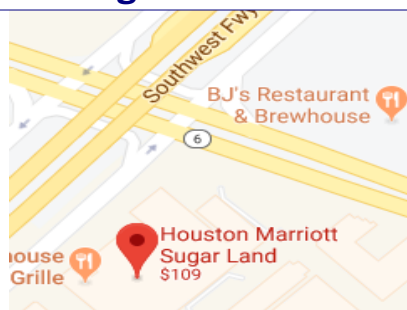
### Meeting Registration Information

Membership in STS-AIChE is a bargain at \$25/year. If you wish to become a member, you may join at the registration desk at the meeting.

**Presentation Pricing and Advanced Registration :** [Register Here](#)

	Standard	After Sept 23rd
MEMBER	\$40	\$50
NON-MEMBER	\$50	\$60

### Meeting Location— The Sugar Land Marriot Town Square



This month's meeting will be held at The Sugar Land Marriot Town Square ([16090 City Walk, Sugar Land, TX 77479](#))

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

### October Meeting Dinner Menu

**Enjoy a Cajun Evening with STS AIChE!**

**Dinner Buffet:**

Mixed Garden Greens with Red Cabbage, Jicama, Carrots and Cucumber Slices  
Spinach Salad garnished with bacon, red radish and roma tomatoes  
Shrimp Remoulade Salad  
Pan Fried Catfish Cakes  
Blackened Gulf Fish with Cajun Cream Sauce  
Pecan Crusted Chicken Breast with Lemon Butter Sauce  
Seafood Etouffee with Steamed Rice  
Seasoned Vegetables  
Corn Bread and Assorted Rolls

**Desserts:**

Plantation Pecan Pie, Bread Pudding with Bourbon Sauce  
Banana Sundae Cake with Foster Sauce

**Coffee Station:**

Regular and Decaffeinated Coffee  
Hot Water and Tea Option

**Non-Alcoholic Beverages:**

Iced Tea with Lemon Wedges  
Water

**Alcoholic Beverage:**

Cash Bar \*\* Cash only – no electronic payment option

## October 2019 STS-AIChE Chair's Letter – Tom Rehm

Letter from the Chair

If you haven't yet registered for the October 1-2 Southwest Process Technology Conference, please go to <https://www.aiche.org/conferences/southwest-process-technology-conference/2019>. The SPTC committee has prepared one of the best regional conferences in many years. You do not want to miss this conference! To top off a great program, it is in your back yard ... at the Sugar Land Marriott Town Square ... a commute for most of you/no need for a hotel stay.



One of nine sessions at the October 1-2 SPTC is climate solutions. Join me and my co-chair, and 2020 STS Chair Mark Harkness, as four key aspects of climate change are discussed: Evidence of climate change and impacts on processing; mitigation strategies for processing; supply chain threats of climate change; and facility preparedness.

For those attending the Annual Meeting in Orlando, Florida, on November 12<sup>th</sup>, I will chair a Climate Solutions Session, with presentations on the AIChE new policy on climate change (approved 2019); plastics and greenhouse gas emissions; options for decarbonizing electricity in the United States; and climate solutions' path forward.

On April 4, 2020 Climate Solutions for Texas and the Engineering Council of Houston are partnering to host a climate solutions symposium at the University of Houston Student Center Theatre. The theme will be the effects of excessive renewables on grid stability. Mark your calendar; 9am-noon, April 4.

2020 STS Elections are upon us. We will elect four new officers for Chair Elect, Secretary, Position #2 (Education) and Position #4 (Human Resources). We appreciate the support of several leaders among our section membership in accepting nominations for these positions. In addition to online capability to cast your votes, ballots will be available at the October 1 STS dinner.

On September 5<sup>th</sup>, we held our monthly meeting at The Crowne Plaza NRG, 8686 Kirby Dr., Houston. The consensus was positive – good food, good location, good meeting room. For those of you who hiked from the hotel front step off the 610 feeder all the way to the back of the hotel, be assured that next time we will advise the best location to park and the best door to enter.

**I hope to see each of you at the Southwest Process Technology Conference October 1-2.** To reiterate, it's in our backyard – Sugar Land Marriott Town Square. Many of you can simply commute; no need to get a hotel room at the venue! Our Keynote Speaker on October 1 will be John Hofmeister, 2005-2008 President of Shell Oil Company and our October 1 STS dinner speaker will be Joseph Powell, Shell Chief Scientist, Chemical Engineering. Each will focus on the challenges of global warming, and solutions.

On October 19, please join us in working a table for the South Texas Section at the Houston Energy Day; 11am-4pm, Sam Houston Park. Matt and Connor can use your help! To become involved, please contact Matt Kolodney or Connor Schonert; [mkolodney1@comcast.net](mailto:mkolodney1@comcast.net), [connorschonert@yahoo.com](mailto:connorschonert@yahoo.com). Climate Solutions for Texas will also have a table at the Houston Energy Day. If you would like to work that table, please contact me at [tom@tomrehm.com](mailto:tom@tomrehm.com). Regarding Climate Solutions for Texas (CSTX), if you would like to become involved in this rapidly growing local initiative of AIChE's Climate Solutions Community, please contact me. We have a CSTX meeting on September 26 (5:30-6:30pm, Starbucks, 2521 Post Oak Blvd); you are welcome to join us.

Pencil into your calendar our December Holiday Social, a mystery dinner theater on December 5. Plan to join me in sorting out the whodunit.

I hope to see everyone at our October 1<sup>st</sup> section dinner at the Sugar Land Marriott Town Square!

## Sponsors for 2019 - Thank You

### Silver Sponsors

Business Climate Leaders



Business Climate Leaders is an action team of Citizens' Climate Lobby

### Silver Sponsors

Microrganic Technologies



### Sponsorship of the South Texas Section – now on a rolling 12-month basis

In past years, sponsorship was tied to a calendar year. Those who became sponsors later in the year had less exposure than full-year sponsors, but at the same cost as full-year sponsors. A proposal to the STS Executive Committee, for sponsorships over a rolling 12-month period, was approved in mid-January. The 12-month rolling period will be based on the date of sponsorship application.

We will have eight STS meetings in 2019 in the greater Houston area on the west, east, north and south sides of the city so that we may try to cater to all our members across town. Please see the [dinner meeting schedule](#).

In 2019 we are offering three levels of sponsorships:

	Bronze	Silver	Gold
Looping PowerPoint at each of our eight 2019 dinner meetings during the social hour	10 second still	20 second silent video	60 second audio video
Self-promotion at dinner meetings		60 seconds in one meeting	Two minutes in each of three meetings
Display table at dinner meetings		One meeting	Three meetings
Opportunity to speak at an STS dinner meeting in 2020			✓
Complimentary dinner tickets for use at any dinner meeting during 2019	2	4	8
Plaque with sponsoring company Logo			✓
Sponsor Logo display in the monthly STS newsletter	✓	✓	✓
Acknowledgment from the meeting podium	✓	✓	✓
Donation to the South Texas Section	\$500	\$1,000	\$2,000

## STS Officer Elections

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Dear STS-AIChE community,

We hope you have enjoyed attending the activities organized by the South Texas Section - American Institute of Chemical Engineers chapter in the recent years. These activities were possible due to the dedicated efforts of our volunteers. Thanks to their commitment and dedication, we were able to carry out many of those events successfully. On behalf of our current Executive Committee, we want to invite current and future members to participate in the upcoming leadership opportunities within STS-AIChE. There are four positions available for 2020 and many more roles within the chapter for those of you interested in playing a more active part in the STS chapter, while, at the same time, learning, networking, and developing those soft skills needed in our community.

Positions Available:

- Chair-Elect for 2020 (and to succeed to the Chair in 2021 and Past Chair in 2022)

- One year term, from January 1<sup>st</sup> through December 31<sup>st</sup> of calendar year

- Lead meetings and fill in for the Chair as needed

- Responsible over Program Chair, Arrangements, YP, and Regional Activities (e.g. RPTC) and Chair in key leadership duties if not otherwise assigned to other STS-AIChE Member (per the organizational chart)

- Organize volunteer opportunities with other local non-profits

- Design goals and agenda, arrange for speaker, obtain presentation gift and make dinner reservations for September to June events with assistance from other officers

- Introduce speaker at dinner meetings from January through December

- Has signature authority, along with Chair-Elect for the bank account and authority to contractually obligate the STS-AIChE within the limits prescribed by the Executive Committee (per Article IX, Section 1 of the STS-AIChE Bylaws)

- Execute special projects as deemed necessary by the chair or other officers

- Fill the role of Chair from June 30-Dec31 if elected Chair is vacant. (per Article V, Section 4 of the STS-AIChE Bylaws)

- At the term's end, orient the new Chair-Elect

- Secretary. Term for 2020-2021

- Two year term starting Jan 1 of even numbered year through Dec 31<sup>st</sup> of odd numbered year

- If Chair, Chair-Elect, and Past Chair are unavailable, preside at all meetings (per Article IV Section 2 of STS-AIChE Bylaws)

- Keep the Executive Committee and section meeting minutes. Accurately record discussions, motions and votes (per Article IV Section 3 of STS-AIChE Bylaws)

- Distribute copies to the Executive Committee and have them approved, either as issued or amended, before the next meeting

- Follow up on action items from previous meetings

- Maintain the section files

- Maintain tax exempt, legal and incorporation documents

- Be familiar with the AIChE Constitution and Bylaws, as well as the section by laws

- Work with the Executive Committee to prepare agendas for all section meetings

- Correspond with AIChE on section business, including officer information changes, as they occur

- Mail paper copies of the newsletter if applicable

- At the term's end, orient the new secretary, turning over all records and section materials

If you feel you want to participate actively by being an officer, or if you know someone who you feel is interested in these roles, please contact any of the Elections Committee members (Contact information at the end) for more details. If you are nominating a friend, make sure to copy him/her on the nomination email.

We will need a brief bio, current objectives for your role within the chapter, and a recent picture. You can nominate your name for multiple roles, but only one will be selected before the voting begins. The elections will take place between mid-October and mid-November. Details about our Fall elections will be provided soon.

Looking forward to see you joining our Executive Committee. Thank you,

STS- AIChE Elections Committee

Aniket Patankar [Patankar@gmail.com](mailto:Patankar@gmail.com)

Carlos A Salamanca [casalamanca@hotmail.com](mailto:casalamanca@hotmail.com)

Dale Embry [dale.l.embry@gmail.com](mailto:dale.l.embry@gmail.com)

John Middleton [John.Middleton@WorleyParsons.com](mailto:John.Middleton@WorleyParsons.com)

Kelly Richardson [kelly\\_s\\_richardson@hotmail.com](mailto:kelly_s_richardson@hotmail.com)

Morgan Reed [mreed51@yahoo.com](mailto:mreed51@yahoo.com)

Swarup Bade [swarupbade@gmail.com](mailto:swarupbade@gmail.com)

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## Upcoming Events

### The Southwest Process Technology Conference October 1-2, 2019

The South Texas Section of the AIChE, in partnership with AIChE HQ, is hosting its [11th Southwest Regional Process Technology Conference](#), now in Sugar Land. This conference highlights 8 core programming areas of chemical engineering and process technology, and features 2 keynote addresses.

[Register now to experience featured sessions on these premiere topics:](#)

- Energy Efficiency
- Catalysis & Reaction Engineering
  - IIoT/Big Data
- Process Intensification
  - Process Safety
- Distillation & Separation
  - Climate Solutions
- Petroleum Refining Technology
- Chemical Process Technology Part 1 & Part 2



#### Keynote Session: Energy Transition

We are proud to announce that John Hofmeister, former President of Shell Oil Company, and Chief Executive Officer of Citizens for Affordable Energy will be giving our Tuesday Keynote Address discussing Energy Transition



#### Keynote Session: Cybersecurity

We are proud to announce Eric Cosman, 2019 president elect of the International Society of Automation (ISA) will be discussing "Imperatives for the Automation Profession in a Changing World" during his Keynote Address.

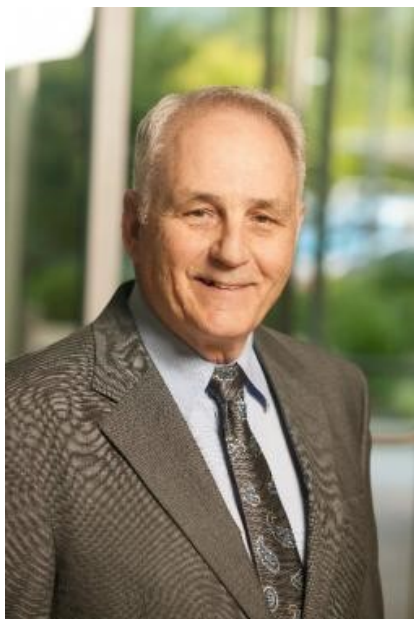
Also, don't miss the [Meet the Industry Candidates Happy Hour](#). This will be a time to mingle with exhibitors and hear from qualified graduate students on the progress of their work in SPTC's nine core industrial topics. There will be light hors d'oeuvres and drinks provided.

Check out the Technical Program to review the sessions offered at this year's SPTC and register by clicking [HERE](#) to secure your spot!

## Upcoming Events

### Friday, October 4th - First Friday Networking Lunch

The next STS-AIChE First Friday Networking Lunch (FFNL) will be held on Friday, **October 4th from 11:30AM - 1:00PM** at the **Wyndam Houston West Energy Corridor** ([14703 Park Row Dr. Houston, TX 77079](#)).



**Speaker: Ken Bush, PE, PMP**

Lumen PMC  
Williams Tower  
2800 Post Oak Blvd, Suite 4100  
Houston, TX 77056  
713-609-9634 | [kbush@lumenpmc.com](mailto:kbush@lumenpmc.com)

Mr. Bush received his BSChE degree from Texas A&M University and his MSChE from the University of Houston. His first job out of college was with Mobil Chemical in Beaumont where he was a junior process engineer on the ethylene plant. He also worked as a process engineer with MW Kellogg in the olefins group. He spent 25 years with Stone & Webster/Shaw Group working primarily with ethylene as a process engineer and later as a project engineer. He spent two years with Hyundai Engineering in South Korea as a risk management consultant where he introduced project risk management to the organization. He spent three years with JGC America and Senior Project Engineering Manager and as Director of Process Engineering.

He is currently with Lumen PMC as Director of Process Engineering and Project Risk Management. Lumen is made up of a group of well-seasoned engineering professionals who have worked together in the past.

He is registered Professional Engineer in Texas and Project Management Professional (PMP).

**Topic: Project Risk Management**

Why do we need risk management? All projects have risks. Will the engineering be ready to meet the construction schedule? Will the cost of equipment and materials be delivered on time and within the budget? Will the required permits be approved on schedule? These risks can impact project goals and unmanaged risk can result in crisis management.

The first step in the risk management process is to acknowledge the reality of risk. Denial is a common tactic that substitutes deliberate ignorance for thoughtful planning. This presentation defines the roles and responsibilities within the project team and the methodologies to address the risks – both threats and opportunities. We will discuss how to estimate the probability of an event happening and the impact that event will have on the project if it does happen. We will address what mitigating actions need to be taken to keep a bad event from happening and how to enhance the probability of a good event happening. We will emphasize the importance of periodic reviews and tracking of risks throughout the life of the project.

**Costs:**

The lunch menu is an all-inclusive buffet style for \$16 per person and STS-AIChE subsidizes the lunch by \$5. The non-refundable \$11 registration fee includes the subsidized lunch buffet and attendance for the lunch presentation and networking. Pre-registration reserves your seat and walk-ins welcome on an as available basis. STS-AIChE members as well as non-members are welcome to attend. Select the below button to pre-register for this event:

[Register Now](#)

Have suggestions, ideas, comments or want to recommend a speaker for future FFNL events? Contact William Pittman at [WilliamPittman@micropackamericas.com](mailto:WilliamPittman@micropackamericas.com).

## Upcoming Events

### Spring 202 PE Review Course for Chemical Engineering

When: Friday, January 31–April 24, 2020, 4:00pm CST

Where: [University of Houston Main Campus - Cullen College of Engineering 1](#)

4726 Calhoun Rd. Houston, TX 77024

Date 2020	Topic	Instructor
31-Jan	Introduction; Mass/Energy Balances & Thermo I	Dale Embry
7-Feb	Mass/Energy Balances & Thermodynamics II (3)	Gary Gildert, Dale Embry
14-Feb	Thermodynamics III (1); Kinetics I (2)	Dale Embry, Gary Gildert
21-Feb	Kinetics II (2); Plant Design Economics (1)	Gary Gildert
28-Feb	Fluid Mechanics I (3)	Todd Willman, Carol Schmidt
6-Mar	Fluid Mechanics II (2); Heat Transfer I (1)	Carol Schmidt, Dennis Glascock
13-Mar	Spring Break	
20-Mar	Heat Transfer II (3)	Dennis Glascock
27-Mar	Separations Processes I (3)	Antonio Garcia
3-Apr	Separations Processes II (3)	Antonio Garcia
10-Apr	Problem Session	Dale Embry, Carol Schmidt, Gary Gildert
17-Apr	Plant Design & Operations (3)	Mariella Raven
24-Apr	Sample Test Exam (3)	Dale Embry

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

	Course Materials	UH Logistics	Blackboard
Contacts:	Dale Embry	Nicolette Solano	Joseph McDonough
Phone:	832-815-1552	713-743-4304	713-743-9972
Email:	<a href="mailto:dembry@uh.edu">dembry@uh.edu</a>	<a href="mailto:nsolano2@uh.edu">nsolano2@uh.edu</a>	<a href="mailto:jcmcdonough@uh.edu">jcmcdonough@uh.edu</a>

Course Registration Deadline: Thursday, January 17, 2020

PE Exam Testing Periods: 1(Jan-Mar) 2(Apr-Jun) 3(Jul-Sep) 4(Oct-Dec)

#### Course Cost

Members of both National AIChE & STS \$650

Non-members \$900

**Limited space** - reserve your space now (cut-off for class registration – January 19th)

Click [HERE for more PE Review Course Information](#)

To sign up, [Register Here](#)

Cancellation Policy –by January 17 - full refund, after January 17 – no refund



## Upcoming Events

### Young Professionals STS-AIChE September and October Happy Hours!

*Come out and have appetizers and drinks with the YPs!*

The September Happy Hour will be held at **Bovine and Barley** (416 Main St, Houston, TX 77002) on September 27th from 4 to 7 pm!

The October Happy Hour will be held at **Karback Brewing Co.** (2032 Karbach St, Houston, TX 77092) on October 25th from 4 to 8 pm!

Click on the maps for directions. No RSVP Needed!



### Third Annual AIChE Beer Brewing Competition

*Fun and competition are brewing!*

The third annual AIChE Beer Brewing Competition is being held at this year's Annual Meeting in Orlando, thanks in large part to the Young Professionals Committee. Among the competitors will be a team from Chemstations, Inc., in Houston.

On November 10<sup>th</sup>, the Chemstations crew will join other teams in presenting a poster detailing their beer's recipe, brewing process, and other specifics. Beers in different categories (dark and malty, light and hoppy) will be judged on taste, and the winners in all areas will be awarded prizes. To learn more about the competition, check out [www.aiche.org/brewbeer](http://www.aiche.org/brewbeer).

If you're attending the 2019 AIChE Annual Meeting, come by and cheer on your Houston-area Young Professionals!



### YP Announcement for attending the 2019 AIChE Annual Meeting

The Management Division has created a new program to help division member YPs (35 or younger) attend the 2019 AIChE Annual Meeting and recognize the efforts and contributions of YPs to Division activities. These activities include chairing or co-chairing and attending Division sessions.

For YPs that are just starting out their careers, attending an AIChE conference can be expensive, sometimes prohibitive, if you don't have financial support from your employer. Yet, attending the conference can lead to professional and personal development that adds value to the individual and the Chemical Engineering society.

Travel grants and registration subsidies will be awarded to qualifying candidates. [Click](#) for application details.

## 2019 STS Opportunities

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### 2019 STS Speaking Opportunities

In 2019, the South Texas Section and our partners will continue very successful events:

- Networking lunch programs, on the east and west sides of town, two per month;
- Monthly dinner meeting workshops;
- A stand-alone workshop evening in December 2019;
- The Energy Forum in April 2019;
- The Water Forum in November 2019; and
- The Southwest Process Technology Conference in October 2019.

If you would like to speak at any of these events, please contact me.

### 2019 Exhibit Opportunities

There are exhibit opportunities at the Energy Forum, the Water Forum, and the Southwest Process Technology Conference (SPTC). In 2019, all will be held in the Houston area, including the SPTC which has been held in Galveston in recent years. If you choose to be a South Texas Section Sponsor, we can work out a discount arrangement for exhibiting at these three events.

### 2019 STS Theme: Global Warming Solutions

In our 2019 STS Monthly Dinner and Social Schedule, please note the topics of our March, April, May, and October dinner presentations. We are living in an unprecedented time in human history. Through industrialization, we are seemingly harming our planet. With the wealth of fossil fuels at hand, putting it to use was inevitable and during much of that use who could have foreseen its effects? Until recent years, climate change observations could perhaps be argued, but no longer.

At the AIChE Annual Meeting in Pittsburgh last month, the Institute for Sustainability (IfS) and the AIChE Board of Directors approved the formation of The Climate Solutions Community (TCSC). This community will be within the IfS. As with the IfS membership, TCSC membership will be multi-disciplinary. All engineers and industrial scientists will be welcomed to join the AIChE with the objective of working together to identify and recommend technically viable and marketable solutions. We need to begin turning the corner on this problem so that it can be done to maximize the economic benefit to our country. Energy markets can benefit, including oil and gas sectors, with planning. The mix will gradually change, but we will continue to need energy and an ever-increasing amount of it. We need and welcome companies in the oil and gas sectors to work with us to solve this problem.

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## STS AIChE Awards Update

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### 2018 South Texas Section – AIChE Best Papers Awards

The 2018 STS – AIChE Best Papers Competition received two (2) nominations in the Applied category, three (3) in the Fundamental category, and one (1) in the Best In Practice Category. The winners in all categories will be announced at the Tuesday, October 1, 2019 South Texas Section – AIChE Monthly Dinner Meeting at the Sugar Land Marriott Town Square Hotel located at 16090 City Walk, Sugar Land, Texas, 77479.

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## Volunteer Outreach

### 2019 Southwest Process Technology Conference – Call for Volunteers!

11th Southwest Process Technology Conference October 1 – 2, 2019

Sugar Land Marriot Town Square

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

Receive Free Registration for the day or days they volunteer!

Contact David Silarski @ [sts-membership@aiiche.org](mailto:sts-membership@aiiche.org) for more information!

### Sally Ride STEM Festival!

Come volunteer with AIChE at the Sally Ride STEM Festival at Rice University and perform science experiments to encourage engineering for middle school girls!

Volunteers needed—Free lunch and parking!

**Location:** Engineering Quad, Rice University. 6100 Main St, Houston, TX 77005. (drop off on Laboratory Road near Duncan Hall)

**Date:** Saturday, October 12, 2019 from 11:00 AM to 4:30 PM (CDT)

To join the AIChE STS group please contact Matt Kolodney (713-471-8956) or Emily Jackson ([e.jackson.ut@gmail.com](mailto:e.jackson.ut@gmail.com)).



### Energy Day Event!



Join STS as we volunteer to help with **Houston's Energy Day!**

**Saturday, October 19 from 10:00 - 4:00 at Sam Houston Park (downtown)**

The STS will have a K-12 outreach table! Lunch and Parking Costs Reimbursed!

If you would like to volunteer for all or part of either day, please contact **Matt Kolodney**, STS K-12 Outreach Coordinator, (713-471-8956), [mkolodney1@comcast.net](mailto:mkolodney1@comcast.net)



### University Outreach Volunteer Request

This fall, the Young Professionals will be reaching out to several universities in order to talk to their student AIChE chapters about career options, industry experience, and more!

If you're an alum of the University of Houston, Rice, Texas A&M, or Prairie View, or if you're just interested in sharing your chemical engineering experiences with students, then we would love to have you as a volunteer or even coordinator!

To volunteer, please contact Swarup Bade at [sts-yp@aiiche.org](mailto:sts-yp@aiiche.org) and include any universities you'd be interested in helping with. We'll contact you once we've secured a time and place!

## STS Rising Scholars Announced



Pictured are Nick Sims, Tom Rehm, and Katie Givan

For the second consecutive year, STS AIChE gave Rising Awards to deserving rising juniors and seniors in the local student chapters. STS-AIChE is committed to supporting student success at the area institutes of higher education. The Rising Junior/Senior Awards were established to recognize the amazing contributions that area chemical engineering students are providing to the profession while enrolled in college. Each candidate must demonstrate academic excellence (GPA of 3.0/4.0 or higher), leadership qualities, and evidence of contributions to chemical engineering. This year during the September Dinner Meeting, three \$2,000 awards were given.



**Nicholas (Nick) Sims** is a senior chemical engineering student at Texas A&M University.

Nick is currently the president of the AIChE student chapter at TAMU. He is “a strong leader who always strives to improve his organization and to develop his fellow team members.” This is evident in his participation as the director of a very successful Sophomore Retreat program. He has experience as an intern at a high-tech polymer manufacturer where he worked on wireless monitoring projects, a steam integration project, and an instrumentation troubleshooting project. He is also a member of the TAMU Formula SAE Team. Nick is considered a “well-rounded, involved member” of TAMU.



**Katelyn (Katie) Givan** is a junior chemical engineering student at Rice University. Katie participates in numerous student organizations. She is the Junior Lead of the Chemical and Biomolecular Engineering Undergraduate Board where she facilitated interactions between students and faculty to improve the major. Katie has an aspiration to share her passion about chemical engineering to others. She has experience as a lab assistant at Rice and as an intern with a pharmaceuticals company. Her research included investigating possible treatments for congenital diaphragmatic hernia (CDH), a life threatening birth defect. At her internship, she worked with heat exchangers, steam traps, and bioreactors. Katie is considered “an outstanding student” with “a bright future ahead of her.”



**Ozem C. Onye-Franklin** is a junior chemical engineering student at Prairie View A&M University. Ozem has held several leadership positions while at PVAMU including vice president of the National Society of Black Engineers and community service chair in AIChE. In addition, she has experience as a quality engineer intern and as an undergraduate research assistant in pharmaceutical research. Despite her numerous activities, Ozem has maintained a very high level of academic excellence and is persist in her pursuit of knowledge. “She is the kind of student any experienced teacher will love to have in his or her class.” “Her technical, leadership, and interpersonal communication skills are impressive at her level.”



## Remembering L. Waldo Leggett, Jr

Below is an obituary for L. Waldo Leggett, Jr. who served the South Texas Section as:

- Executive Position #3           1965-1966\*
- Chair-Elect                     1966-1967\*
- Chair                             1967-1968\*
- Past Chair                      1968-1969\*

\* STS Officers & Executive Committee Members were elected on School Year Terms at this time

Waldo also served as an AIChE Board of Directors Member and ran for the position of AIChE President Elect twice.

Lloyd Waldo Leggett, Jr. crossed the finish line into Heaven this past Sunday, September 1, 2019 in Houston at the age of 84 as a faithful husband, father, grandfather, great grandfather, son, brother, friend, athlete, and follower of Jesus.

To those who knew him, Waldo was a marvel of faithfulness, integrity, dedication to family and friends, perseverance, astonishing self-discipline, and cheerfulness in all weathers – and was free with a laugh hearty enough to be picked out of a crowd. He was a man of deep, abiding faith who will be greatly missed, and we thank God for the blessing he has been in our lives.

Waldo was born on July 21, 1935 in Midland, Texas, where he grew up with a brother and three sisters. He was on his high school golf team, golfing the holes along the way to school each day, took his first car apart at age 15 (down to the last bolt) and put it back together, and enjoyed many friends. While pursuing a chemical engineering degree at Rice University, he met the love of his life, Dixie Margaret Sick. On May 30, 1958, he graduated from Rice with a BA and BS, received his commission as a Navy officer, and attended his wedding rehearsal dinner. On May 31, Waldo and Dixie were wed, beginning 61 ½ years of a loving marriage. Their three children, Lisa, John, and Jim, brought great joy to them.

After serving two years in the Navy stationed in Japan, Waldo and Dixie moved to Baytown, Texas, where he resumed a 38-year career with Exxon as a chemical engineer. Waldo greatly enjoyed his work with Exxon, which included assignments and often supervisory roles in refining, fuels planning, synthetic fuels, corporate planning, and economic planning in Baytown, Coral Gables, South America, and Houston. He was an active member and a director of the American Institute of Chemical Engineers and served as chairman of the South Texas section. Waldo accepted Jesus Christ as his Savior and Lord at a young age, and he actively served in each church he attended through the years. Waldo and Dixie raised their family at St. Marks UMC (Baytown), Kendall UMC (Miami), and Chapelwood UMC (Houston). After retiring from Exxon in 1995, he helped birth Grace Fellowship United Methodist Church in Katy, Texas with his family, serving as its initial Business Administrator. He launched the missions ministry at Grace Fellowship and led the process of adopting 4 unreached people groups, traveling to Indonesia and India.

Waldo was an avid athlete, enjoying running, biking, swimming, and hiking. He competed in over a dozen marathons, including the Boston and New York City Marathons. He competed in over 30 triathlons and, representing America, won the World Triathlon Championship in Beijing in 2011 in his age group. He qualified for the National Senior Olympics over 10 times, consistently winning medals in swimming and triathlon events. Waldo was deeply committed to his family and is survived by his wife Dixie, daughter Lisa Grossman and her husband King, son John Leggett and his wife Stephanie, son Jim Leggett and his wife Lisa, grandchildren Smith (and wife Ingrid), Alex (and husband Kevin), Grace, Katie (and husband Tyler), John-David, and step grandson Martin Grossman, great grandchildren Peter, Andrew, and Aubrey, sisterCarolynn Canon and her husband Bob, sister Betty Mulholland, and numerous nieces and nephews. Waldo was preceded in death by his father Dr. Lloyd Waldo Leggett, Sr, mother Elizabeth Wood Leggett Kelsey, sister Rosalynn Biggers, and brother David Leggett. A memorial service will be held on Monday, September 9, at 1:00 p.m. at Grace Fellowship United Methodist Church, 2655 South Mason Road, Katy, Texas 77450 with Pastors Jim Jackson, Cindi Lomax, and Jim Leggett officiating.

In lieu of flowers, the family invites you to consider making gifts to Grace Fellowship (address above) with the memo: Mission trip scholarships in memory of Waldo Leggett.



## 2019 STS-AIChE Monthly Dinner and Social Schedule

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**January 10, The Bougainvilleas, 12126 Westheimer Rd, Houston**  
Mike Allison, Raptor Aerial Services  
Drones, a new tool for industrial applications

**February 7, Holiday Inn IAH, 15222 JFK Boulevard, Houston**  
Andrew Smith, Sympatec  
Advances in lab and process particle characterization

**March 7, The Bougainvilleas**  
Professor Mark Holtzapple, Texas A&M ChE Department:  
Global warming: An engineering perspective

**April 11 (in conjunction with the Energy Forum), Shaffai Hall, 1622 Federal Rd, Houston**  
Professor Pavel Tsvetkov, Texas A&M Nuclear Engineering Department  
Gen IV Nuclear

**May 9, The Bougainvilleas**  
Fanxu Meng, Houston Advanced Research Center  
Extreme weather event resiliency

**June – Ship channel cruise**

**July – Astros game**

**August – Alternate shot two-player-team pool tournament**

**September 5, The Crowne Plaza NRG**  
Mike Foggia, Process Combustion Corporation:  
Flameless thermal oxidation – Achieve 99.9999% DRE at < 2ppmv NO<sub>x</sub>

**October 1 (in conjunction with the Southwest Process Technology Conference), Sugar Land Marriott Town Square, 16090 City Walk, Sugar Land, TX**  
Joseph Powell, Shell Chief Scientist, Chemical Engineering  
Addressing Climate Change, an Energy Industry Perspective

**November 7, The Crowne Plaza NRG**  
David Drerup, Operational Sustainability  
Best practices in PSM data management

**December 5, Holiday Season Social at the C. Baldwin Curio Hotel Downtown Houston**

**January 9, 2020 The Bougainvilleas**

**February 6, 2020 The Holiday Inn IAH**

*This schedule does not include other STS events, such as networking lunches, workshops, plant tours, Young Professional events, K-12 outreach, PE review course offerings, etc. 2019 will be an exciting year for the South Texas Section. To become an STS volunteer, contact Tom Rehm at [tom@tomrehm.com](mailto:tom@tomrehm.com) or 832-331-6491.*

## STS-AIChE Season Pass Information

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### 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 2019 season. Season Pass holders also received priority sign-up for all special events.

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 the people at the registration table know 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 2019 Season Pass

### 2019 STS-AIChE Patrons

First Name	Last Name	Company Name
Yurika	Diaz Bialowas	Chemstations, Inc.
Travis	Fixmer	LyondellBasell
Jordan	Pearce	PSE
William Paul	Waits	Core Engineering
Jack	Chosnek	KnowledgeOne LLC
Dale	Embry	ConocoPhillips
Matt	Clark	Armstrong Engineering Associates
George	Vourazeris	Airgas Merchant Gases
Matthew	Kolodney	Entech Engineering
Victor	Edwards	
Sanjay	Sharma	Honeywell
Maximo	Salazar	Process Eng
Tom	Rehm	The Climate Solutions Community
Tom	Menn	
Gus	Georgeton	LyondellBasell
Joseph	Ramey	Westchase Design
Gary	Miller	Air Liquide
John	Middleton	WorleyParsons
Julie	White	Chevron
Erin	Green-Colaco	
Jay	McCorkle	WorleyParsons
Gary	Gildert	Vanguard Catalyst, LLC.
Ravindra	Saxena	ANR Consulting
Talia	Sanchez	Spirit Environmental, LLC
Jeffrey	Melland	Melland Engineering & Consulting
Trevor	Rice	Chemstations, Inc.
Carol	Schmidt	Wood
Venkat R.	Voruganti	Continental Carbon Company
Deborah	Evans	



## South Texas Section Corporate Liaison Program

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>

In early 2016, Travis Fixmer, a Process Optimization and Design Engineer with Huntsman Performance Products, developed an intranet website which promotes our Section and its activities within Huntsman. He offered to be a resource to individuals who would like to do the same. If you would like to promote our Section, Travis can provide you with guidance on how to proceed.

Others in our section send intra-company emails promoting the South Texas Section. This can be easily done by simply forwarding the STS monthly meeting notice email to employees in your company.

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.

If you have any questions, please contact Tom Rehm at [tom@tomrehm.com](mailto:tom@tomrehm.com) or 832-331-6491.

## South Texas Section AIChE

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

*2018 Officers and Contact Information*

### Officers

**Chair** Tom Rehm  
[sts-chair@aiche.org](mailto:sts-chair@aiche.org)

**Chair Elect** Mark S. Harkness  
[sts-chairelect@aiche.org](mailto:sts-chairelect@aiche.org)

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

**Secretary** Debra McCall  
[sts-secretary@aiche.org](mailto:sts-secretary@aiche.org)

**Treasurer** Yurika Díaz Bialowas  
[sts-treasurer@aiche.org](mailto:sts-treasurer@aiche.org)

### Executive Committee

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

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

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

**Position 4: Human Resources**  
Dr. William Pittman, Ph.D.  
[sts-position4@aiche.org](mailto:sts-position4@aiche.org)

### Volunteers

**Arrangements:** [John Middleton](#)  
**Awards:** [Tom Menn](#)  
**Membership:** [David Silarski](#)  
**Webmaster:** [Talia Sanchez](#)  
**Young Professionals:** [Emily Jackson](#)

### 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 2018

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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Danbury, CT 06811

## 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 Editor

**Meghan Spivak**  
[sts-position3@aiche.org](mailto:sts-position3@aiche.org)

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