

# *The South Texan*



Monthly Meeting: **January 14, 2016 6PM-9PM**

Location: **Brady's Landing** ([8505 Cypress St, Houston, TX 77012](http://8505CypressSt.Houston.TX.77012))

Social Hour begins at 6PM, Dinner at 7 PM.

Pre-register at <http://sts.aiche.org/>

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## January Dinner Meeting

**Topic:** Initiatives for Applying Smart Manufacturing to the Continuous Processing Industries

**Abstract:** Smart Manufacturing incorporates sensing, real-time process monitoring, networks, control and optimization, advanced technologies, and predictive modeling and simulation for intelligent production processes across the supply-chain in a seamless manner to create greater capital and operating value, increased production, and reduced costs. A renewed focus on manufacturing competitiveness in the U.S. is driving advances in processes and technologies that will be critical for the success of factories and plants of the future. The presentation will highlight a number of innovative private and federal initiatives for enabling advancements in continuous processing and broadly for advanced manufacturing in a competitive world marketplace.

**Dinner Speaker:** Paul Evans, Director of the Production and Simulation Technologies Department of Southwest Research Institute® (SwRI®)



SOUTHWEST RESEARCH INSTITUTE

**Bio:** Paul Evans is the Director of the Production and Simulation Technologies Department of Southwest Research Institute® (SwRI®). Mr. Evans serves on the Executive Council for the Texas Manufacturing Assistance Center (TMAC), and is a registered Professional Engineer in the State of Texas. Areas of specialization within the Production and Simulation Technologies Department include process improvement, process development, industrial controls, lean manufacturing, industrial robotics and automation, advanced sensing and perception, simulation technologies, and training systems. A primary focus area within Mr. Evans' department is to apply advanced manufacturing processes and technologies to the needs of industry to drive down time and cost to transition a product from concept to production. Paul received his B.S., Engineering, Mechanical emphasis from Walla Walla University, 1995 and M.S., Mechanical Engineering from Iowa State University in 1997.

## Workshops - NONE

There will be no workshops this month. Workshops will resume February 2016.

## 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 4 PM CST on January 13<sup>th</sup> 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— Brady's Landing



This month's meeting will be held at Brady's Landing ([8505 Cypress St, Houston, TX 77012](#)).

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

## STS-AIChE January 2016 Monthly Meeting Online Webcast

There will be no satellite dinner meeting this month. A webcast of our meeting is available via our [YouTube channel](#).

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

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

I would like to start off my first letter as your Chair welcoming the new and returning officers and executive committee members. Our officers are: Kelly Richardson – Past Chair, Dave Rosenthal – Chair Elect, Chaitanya Gottimukkala – Secretary, Carlos Salamanca – Treasurer, and myself. Our executive committee members include: Shane Tierling – Position 1 (Education), Bill Epling – Position 2 (Outreach), Linton Wong – Position 3 (Communication) and Thomas Rehm – Position 4 (Human Resources).

While I am excited to welcome our new team as mentioned above, I must express my gratitude by recognizing the many contributions of the 2015 officers and executive committee members: Carol Schmidt – Past Chair, Kelly Richardson – Chair, Katherine Leskin – Secretary, Carlos Salamanca – Treasurer, Shane Tierling – Position 1 (Education), Bill Epling – Position 2 (Outreach), Linton Wong – Position 3 (Communications) and Dale Embry – Position 4 (Human Resources). Also, my special thanks to our entire excellent group of dedicated volunteers who have supported the organization throughout 2015.



I would like to take this opportunity to welcome Emily Jackson, our new Chair of Young Professionals Group, and her Team while I thank our past YP chair, Chaitanya Gottimukkala for successfully conducting several enriching activities for young and not so young (but definitely young at heart!) professionals of this section.

Working closely with the elected team and many of our energetic and enthusiastic volunteers, my mission is to take this vibrant organization to diversify and reach out to other professionals. We shall seek to attract new young professionals to join and create engaging opportunities to retain them and thereby create a sustainable pool of outstanding young volunteer leaders. We are planning to have a number of great speakers from diversified organizations to come and share with us their respective knowledge and experience during our monthly dinner meetings. Stay tuned as we make announcements about our speakers.

At the first monthly meeting scheduled on January 14<sup>th</sup> at Brady's Landing restaurant, we shall have Paul Evans, Director, Production and Simulation Technologies Department of South West Research Institute (SwRI). The title of his talk is "Initiatives for Applying Smart Manufacturing to the Continuous Processing Industries." Please see the abstract of Paul's talk and his background in the January Newsletter. The other two confirmed speakers for the February and March monthly dinner meetings are from Burns & McDowell and LyondellBasell, respectively. The dates and proposed locations are included in the Newsletter.

I am pleased to announce that AIChE's current President, Dr. Greg Stephanopoulos, Professor at MIT, has graciously accepted our invitation to speak at the dinner meeting on April 7<sup>th</sup>. In conjunction with Texas Energy of the Future, we shall have our traditional Energy Forum and Water Forum in April and November, respectively. In addition, our very successful South Texas Process Technology Conference is scheduled on October 6<sup>th</sup> and 7<sup>th</sup> at the Moody Garden Convention Center in Galveston. Our winter planning meeting is scheduled for January 9<sup>th</sup> at Fluor, at its main offices in Sugar Land. Our past secretary, Katherine Leskin, has graciously agreed to be our host for this event. She can be reached at [katherine.leskin@fluor.com](mailto:katherine.leskin@fluor.com). You are cordially invited to attend this event. For details, please contact Katherine or me.

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

I would like to encourage all our active members to be a [Patron](#) of our section by buying a [season's pass](#) for \$149 for all eight dinner meetings scheduled for 2016. For details please see our [website](#). With a onetime payment of \$149, you could be holding the seasons pass to attend all eight dinner meetings. The best time is now because our first dinner event is approaching fast and is scheduled to be on January 14<sup>th</sup> at Brady's Landing restaurant. Please see the details in the Newsletter as well as on the [STS website](#).

I am confident that working together as a team we shall continue to grow our local section of AIChE as a place in our community to exchange ideas, educate, and enrich ourselves by building a sense of professional fellowship. We shall continue to challenge ourselves to streamline our collective voluntary hours and effectively translate them to actions to positively impact our organization and the society we live in.

While we make progress, my open invitation to all of you is to share your thoughts with me and with any of our core volunteer team to improve and innovate.

We look forward to seeing you at the upcoming meeting.

Sincerely,  
**Syamal Poddar**  
Chair

**Action Item Overload ?**  
We can help. ✓



**Smith & Burgess**  
Process Safety Consulting



## STS-AIChE 2015 Annual Awards

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### STS Member(s) Elected Fellow of AIChE



*James Turner (C) displays his AIChE Fellow plaque which had just been presented to him by 2016 STS Chair Syamal Poddar (L) and 2012 AIChE President David Rosenthal (R).*

James Turner received a plaque for being a Fellow of the AIChE during October's dinner meeting at Brady's Landing. Congratulations, James!

James Turner is an Executive Process Director in Fluor's Sugar Land Office. He has published and presented many technical articles about process design and project execution, and holds patents for a combined hydrotreater process design. He has served as a Panelist at the NPRA Q&A and Technology Forum.

Active in several professional organizations, James has served as Chair Elect, Chair, and Past Chair of the South Texas Section of AIChE. He is also a Trustee on the AIChE Foundation Board, and has held several positions with AIChE, including member of the Executive Board Programming Committee, and several positions with the Fuels and Petrochemicals Division, including Chair of the Division, Director, Newsletter Editor, and Treasurer. In 2012 James received the Fuels and Petrochemicals Service Award for distinguished service to the division and industry.

James is a graduate of Texas A&M University with a bachelor's degree in Chemical Engineering. He serves on the Texas A&M Chemical Engineering Department Industry Advisory Council and the Texas A&M TEES Industry Advisory Council, and has been inducted into the Texas A&M Chemical Engineering Academy of Distinguished Alumni.

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## Election Results: 2016-2017 Executive Board

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Congratulations to our newly elected members of the STS-AIChE 2016/2017 Board of Directors!!!

**Chair-Elect:** Dave Rosenthal  
**Secretary:** Chaitanya Gottimukkala  
**Position 2:** Bill Epling  
**Position 4:** Thomas Rehm

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### Chair Elect (2016) / Chair (2017) / Past Chair (2018)

**David Rosenthal, P.E. ,**  
Reliability Delivery and Asset Management Manager  
Jacobs Engineering Group

David Rosenthal, PE, CMRP is a Reliability Consultant, Owner of Reliability Strategy and Implementation Consultancy, LLC. His practice designs asset management strategies and asset care plans for process manufacturers. He has led the delivery of Reliability and Asset Management practices for Jacobs Houston Asset Management Services clients in the US. He has been involved in Reliability and Maintenance for over 30 years with previous roles as a Reliability Manager for Coker units with Marsulex, Maintenance Director in Polysilicon manufacturing, Reliability consultant assisting Lanxess producing Butyl Rubber and Kellogg's in their Snack Foods Division in the development of their reliability programs. The majority of his career was with the Rohm and Haas Company, a specialty chemical manufacturer. His most recent positions were a Maintenance leader, site Reliability leader for their Deer Park, TX Acrylic Acid facility and a Manufacturing Excellence Manager in their corporate Asset Management group.

Dave was the 2012 President of the American Institute of Chemical Engineers. Dave graduated from Drexel University with a B.S. in Chemical Engineering and from the University of Texas with a M.S. in Chemical Engineering. Dave is registered professional engineer in Pennsylvania. He is a member of SMRP and a Certified Maintenance and Reliability Professional. He currently leads the Board of Advisors to SMRP and is a Board of Advisor to the University of Tennessee Reliability Maintainability Center.



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### Secretary for 2016-2017

**Chaitanya Gottimukkala**

I am the [2015] Young Professionals (YP) Chair at STS-AIChE.

I have been working as a Senior Risk Engineer with RISKbytes Inc. since June 2013, where I support Oil & Gas Companies manage their Health, Safety and Environment (HSE) risks. Prior to that I worked as a Process Engineer (Process Safety and Fire Protection) with CB&I, where I have had the opportunity to work on challenging projects across a variety of oil and gas industries providing process engineering design, process safety and fire protection design and support. The exposure and knowledge gained after earning my Bachelor of Technology degree in Chemical Engineering from J.N.T University in India, I decided to explore the opportunities offered by the Chemical Engineering world. That led to a M.E.S degree in Chemical Engineering from Lamar University, TX. My thesis involved the use of computational fluid dynamic (CFD) techniques to estimate industrial flare emissions, and to predict the dispersion of pollutants from vehicular exhaust pipes.

**Service to STS AIChE as Secretary Officer:** I have been involved with the YP group of STS-AIChE since 2010. I started my active involvement in the role of Secretary (2012), then Treasurer (2013), Vice Chair (2014) and now the Chair (2015). Now, it is time for me to start serving the parent body, STS. I would like to run for the Secretary position and am confident that my listening skills, MS-Office skills as well as my previous experience as YP Secretary would be a huge advantage for this position. This is just the beginning for my future involvement within the STS Executive Committee. I look forward to serving you.



## Election Results: 2016-2017 Executive Board

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### Position 2 (Outreach) for 2016-2017

Bill Epling, Ph.D.



Bill Epling is a Professor in the Department of Chemical and Biomolecular Engineering at the University of Houston, and currently the Associate Chair and Undergraduate Program Director for the department. He is also the current President of the Natural Gas Vehicle Alliance of the Greater Houston Area. Bill Epling received his PhD from the University of Florida in 1997 and his BS from Virginia Tech in 1992, both in Chemical Engineering. Prior to joining UH in 2011, he worked at Pacific Northwest National Lab, a catalyst manufacturing company (EmeraChem) and at Cummins Inc. He is a Director of the Catalysis Division of the AIChE and has served in the STS-AIChE Position 2 – Outreach - for the last 2 years, with strong support from Matt Kolodney. He has also supported the James Turner, the Chair of the Student Session at the last two SPTC events, in organizing the student sessions.

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### Position 4 (Human Resources) for 2016-2017

Thomas E. (Tom) Rehm, PhD ChE, PE, CSP, CPSA



I am a retired chemical engineer, my last stint being with Saudi Aramco from 1997 to 2009. As a Senior Loss Prevention Engineer, I was instrumental in development and launch of Saudi Aramco's Safety Management System, their version of Process Safety Management. Previous lives included design engineering with UOP in Des Plaines, Illinois (1972-1981); research engineering with Amoco Chemical in Naperville, Illinois (1985-1992); and incident investigation/expert witness litigation support with CH&A, a small engineering firm in Kingwood (1993-1997). I received a Ph.D. in chemical engineering from Northwestern University during a work interlude (1981-1985). Since the mid-90s I have been involved in Process Safety Management (PSM). During my retirement, I have done consulting work part-time, with my services including facilitation of process hazard analyses, process safety auditing, PSM consulting, incident investigation, and training. I am the Team Leader of the AIChE Academy PSM Development Team. I am married, have five children, and ten

grandchildren.

**Service to STS AIChE as Human Resources Officer:** As the STS Human Resources Officer, I will lead membership activities, including recruitment of engineers by meeting with local companies, reaching out to university graduates and new hires in the area, working with the Young Professional Group chair to actively involve young chemical engineers in the Section, reaching out to members who have become inactive, organizing membership drives, maintaining ties with AIChE National to receive updated lists of chemical engineers in the area, and working to involve new members to make them feel welcome in the Section. I will liaise with local company executives to ensure their engineers are aware of upcoming STS events, get their input on what STS could do in the area of continuing education, and determine employment opportunities at their companies for dissemination to STS membership.

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## STS-AIChE 2016 Monthly Dinner Meeting Schedule

Date	Location	Meeting Details (Speaker/Company/Topic)
January 14	Brady's Landing 8505 Cypress Street Houston, Texas 77012	Paul Evans, SwRI Initiatives for Applying Smart Manufacturing to the Continuous Processing Industries
February 4	Brady's Landing 8505 Cypress Street Houston, Texas 77012	Burns & McDonnell "The Refinery "RTR" Rule – Major Refinery Impacts and Targeted Solutions"
March 3	Brady's Landing	LyondellBasell
April 7	Brady's Landing	Greg Stephanopoulos, AIChE President
May 5	Pelazzio	TBD
September 8	Pelazzio	TBD
October 6	Moody Gardens One Hope Boulevard Galveston, Texas 77554	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 **\$149**. Please visit the STS-AIChE website to sign-up (<http://sts.aiche.org/content/2016-season-pass>).

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 ([sts.aiche.org](http://sts.aiche.org)) 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

### 2016 STS-AIChE Patrons

Name	Affiliation
Gus Georgetown	Stress Engineering Services
George Redd	S&B Engineers
Justus Hendrickson	SNC Lavalin
Mark Demark	Houston Community College
Matthew Kolodney	TCEQ
Syamal Poddar	Poddar & Associates
Travis Fixmer	
Vic Edwards	Consultant
Wendy Reed	Chemstations, Inc.
Erin Green	
Trevor Rice	Chemstations, Inc.
Dale Embry	ConocoPhillips

### 2015 STS-AIChE Patrons

Name	Affiliation
Vic Edwards	Consultant
Larry Chriswell	Fluor
G Duane Vourazeris	Air Liquide Industrial U.S. LP
James Turner	Fluor
Dale Embry	ConocoPhillips
Trevor Rice	Chemstations, Inc
Yurika Diaz	Chemstations, Inc
Gary Gildert	Johnson Matthey
Temitope Ajala	Fluor Corporation
Aiying Li	Fluor
Tom Rehm	TERehm Consulting LLC
Carol Schmidt	SGL
Kelly Richardson	
W. Paul Waits	S&B Engineers
Syamal Poddar	Poddar & Associates
Gus Georgetown	Stress Engineering Services
George Redd	S&B Engineers
Justus Hendrickson	SNC Lavalin
Mark Demark	Houston Community College
Matthew Kolodney	TCEQ

أرامكو السعودية  
Saudi Aramco



9:25AM

**PIONEERING ADVANCES IN RESEARCH  
TO SHAPE THE FUTURE OF ENERGY**

5:25PM

**PIONEERING UNCHARTED  
TERRITORY BENEATH THE WAVES**

#### RESEARCH & DEVELOPMENT PROFESSIONALS

Join a multidisciplinary team of R&D professionals providing research and consulting services at Saudi Aramco. Work on a wide range of R&D pursuits. Utilize state-of-the-art facilities to develop groundbreaking technologies in petrochemical areas using hydrocarbon as feedstock. Investigate advanced petroleum fuel formulations for next-generation combustion engines. Analyze properties of reservoirs using nano-scale robots. (Resbots™). Collaborate with leading scientists at the Saudi Aramco Research & Development Center and around the world through its global R&D network. Beyond work, enjoy a flexible schedule that offers a chance to explore the wealth of activities in Saudi Arabia. Saudi Aramco provides a work-life balance and a chance to do it all.

Visit us at the AIChE Annual Meeting.

**DREAM BIG** at [www.Aramco.Jobs/AIChE](http://www.Aramco.Jobs/AIChE)



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## Upcoming Events Information

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**2016 Offshore Technology Conference – Head's Up!** The 2016 OTC will take place May 2 to 5 at NRG Park, Houston, Texas. 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. (*\* Pass & Parking are good for entire OTC.*)

More information will be provided in early 2016. For any questions, contact Tom Menn at [thomasmenn@SBCGlobal.net](mailto:thomasmenn@SBCGlobal.net).

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## PE Refresher Course Open Until January 9<sup>th</sup>

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The STS-AIChE & the University of Houston will sponsor a Chemical Engineering Professional Engineering Review Course, Spring of 2016.

Exam Dates in 2016 are April 15, October 28

The course will be held at UH from 4:00 to 7:00pm on Friday afternoons beginning January 22 through April 8. The cost for the course (not including books) is \$875 for non-members, \$650 for members of both National AIChE and STS-AIChE. We have continued to update the curriculum based upon feedback from the students over the past three course offerings.

Contact Dale Embry at [dale.l.embry@member.aiche.org](mailto:dale.l.embry@member.aiche.org) or 832-815-1552 for more information.

Texas Board of Professional Engineers ([TBPE](http://www.tbpe.org))

National Council of Examiners for Engineering and Surveying ([NCEES](http://www.ncees.org)):

Books used in the course: Study Materials can be found at <http://ppi2pass.com/> & [www.ncees.org](http://www.ncees.org)

Chemical Engineering Reference Manual for the PE Exam ISBN-10:1-59126-007-8

NCEES PE Exam Chemical Sample Questions and Solutions ISBN:978-1-932613-52-0

Reminder: December 11, 2015 is the PE Application Deadline: [http://www.engineers.texas.gov/lic\\_app.htm](http://www.engineers.texas.gov/lic_app.htm)

Check our website page "[PE Refresher Course Offered Spring 2016](#)" for more information.

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## 2016 Science Engineering Fair of Houston

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The [2016 Science Engineering Fair of Houston](#) organizing efforts are underway. Fair dates are **February 26-27, 2016** at the University of Houston Athletic/Alumni Center, Main Campus. Judging takes place on Saturday, February 27 and the awards ceremony is Sunday, February 28 at the Cullen Performance Hall located on the University of Houston Main Campus.

If you are interested in volunteering, contact Mary Jo Parker (Voice Line: 713-221-8179, Fax: 713-221-8528, Email: [parkerm@uhd.edu](mailto:parkerm@uhd.edu)).

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## AIChE Membership

### 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.**



A NASA Spin-Off Company



## The Original and Only Patented Multi-Hole Fluid Flow Specialist

*25 Years of multi-hole plate development and over 10,000 successful applications*

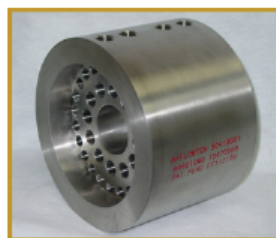
### Products

- **Balanced Venturi Plate™**, (True Venturi Performance)
- **Balanced Restriction Orifice™**
- **Balanced Conditioning Plate™**
- **Balanced Silencing Plate™**

(Flow products have low noise, high accuracy, low/no pressure loss)

### Benefits

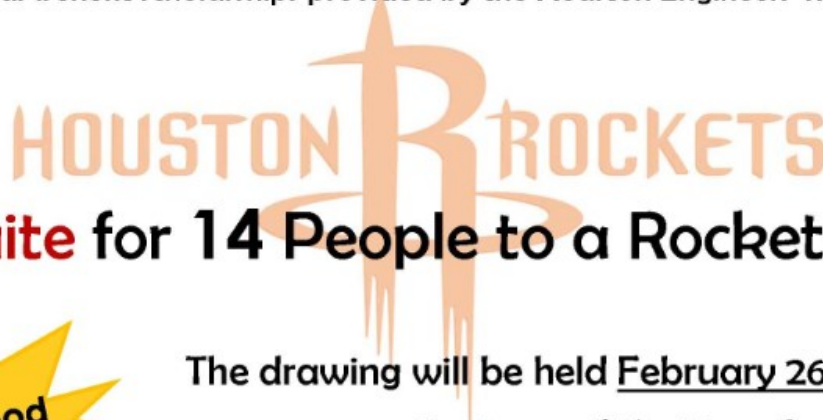
- ± 0.25% system\* error; ± 0.15% plate\* error
- Repeatability > 99.99%
- 1/2 diameter up/downstream allowable
- <85 dB Noise, including RO's, low cavitation/erosion
- Uniform pipe velocity and pressure, conditioning
- No harmful Eddies and vibrations, smooth ops
- Over 10X life of single-hole thin plate
- Designed for single or 2-phase flow, low cavitation index
- Each plate custom designed for your unique process
- Thousands of successful applications
- 100% INCREASE IN PRESSURE RECOVERY**



For more information contact: Tracy Posey/APS at 281-240-4505 or Paul at 832-515-5464, [Paul@APlusFlowTek.com](mailto:Paul@APlusFlowTek.com)  
Visit [www.APlusFlowTek.com](http://www.APlusFlowTek.com) for Reps in your area.

## STS-AICHE YP

All raffle proceeds benefit scholarships provided by the Houston Engineers Week Committee!



### Win a **Suite** for 14 People to a Rockets Game\*

**Includes Food  
and Drink!**

The drawing will be held February 26, 2016 at the  
Engineer of the Year Gala.

You don't have to be present to win!



**Raffle tickets**  
**\$20 each**  
**or 6 for a \$100**



\*Date of game to be mutually agreed upon with suite owner, most games from March to May available

[Houston Engineers Week](#) is selling raffle tickets for a suite at a Rockets game for a game that you can choose! Food and drink at the suite are included. The raffle tickets fund college scholarships for local universities.

The drawing for the raffle will be held on February 26, 2016, and you do not need to be present to win. Tickets are \$20 each, or 6 for \$100. You can purchase online:  
<https://squareup.com/market/houston-engineers-week>.

Please add a note when you check out that you purchased the tickets from [AICHE YP](#).

## LEARN TO RESOLVE COMMON HEAT EXCHANGER PROBLEMS

HTRI, a leading source of process heat transfer technology and the premier provider of heat exchanger training, is offering a two-day course on February 1 and 2, 2016 for engineering students and engineers new to the workforce. Located at our headquarters near Houston, Texas, the course discusses selection criteria for common applications, guidelines for thermal design, and checklists for solving thermal design and operational problems.

- **Process Heat Exchangers: Applications, and Rules-of-thumb Short Course**
- **February 1 – 2, 2016 at HTRI headquarters located in Navasota, TX, USA**
- **Register at [www.htri.net](http://www.htri.net) by January 20**

Students will tour HTRI's multimillion dollar testing facility and receive a copy of the course reference book, *Process Heat Transfer: Principles, Applications, and Rules of Thumb*, by Robert Serth and Thomas Lestina, HTRI Vice President, Engineering Services.

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

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## Awards

### *It's Awards Time!*

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://sts.aiche.org/content/awards>

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

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

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

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

**NOTE: All 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. Carol Schmidt (2014 STS 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 **Carol Schmidt** at [carol.stojanator@gmail.com](mailto:carol.stojanator@gmail.com).





## 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

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**Position 2: Outreach**  
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**Position 3: Communications**  
Linton Wong  
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**Position 4: Human Resources**  
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#### Volunteers

**Arrangements:** [John Middleton](#)  
**Awards:** [Tom Menn](#)  
**Membership:** [David Silarski](#)  
**Webmaster:** [Phil Purpich](#)  
**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 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.

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**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.

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