

The South Texan



Thursday, April 7, 2016

Texas Industrial Energy Management Forum @ 3:30PM-6PM

Monthly Meeting @ 6PM-9:30PM

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

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

Registration Details: Registration for the forum and dinner are separate.

To register for the forum, please visit <http://texasiof.ceer.utexas.edu/tiof/AprilForum2016.asp>.

To register for the monthly dinner, please see the STS-AIChE website [here](http://www.sts-aiche.org).

Inside this issue:

Dinner Meeting Details	2
Forum Details	3-5
Letter from the Chair	6-7
Awards	8-9
2016 Meeting Schedule	10
Season Pass	11-13
Upcoming Events Info:	
OTC 2016	14
Mentor For An Evening	14
PTF	15
K-12 Outreach Volunteer	16-20
Info	
HISD "When I Grow Up"	18
Sally Ride Festival	19
Boy Scout Fair	20
Young Professionals	21-22
Call for Awards	23-25
Call for Volunteers	26-27
Company Liaison Program	28
Contact Information	29
Subscribe/Unsubscribe	

April Dinner Meeting



Dinner Speaker: Greg Stephanopoulos, 2016 AIChE President

Abstract: AIChE has undergone a profound transformation during the past 10 years through critical reevaluation of its mission and operations. Yet, this is not broadly known among its members. I would therefore like to take this opportunity to discuss the current state of AIChE using quantitative data on membership, finances, net assets, and current operations. Data will be presented on the efficiency of the Institute and a comparison to other sister professional organizations. After

providing this background, I would like to invite feedback from members on what AIChE can do to improve its products and services and serve its members better, especially the industrial ones. This feedback will be used to inform the AIChE Board on the views of the membership and try to shape operations so that we are more responsive to the needs of the profession and its members.

Bio: Greg Stephanopoulos is the W.H. Dow Professor of Chemical Engineering and Biotechnology at MIT, and Instructor of Bioengineering at Harvard Medical School (1997-). He received his BS from the National Technical University of Athens, MS degree from the U. of Florida and PhD from the U. of Minnesota, all in Chemical Engineering. He taught at Caltech between 1978-85, after which he was appointed Professor of ChE at MIT. His current research focuses on metabolic engineering, the engineering of microbes for the production of fuels and chemicals. He has co-authored or -edited 5 books, more than 400 papers and 50 patents and supervised more than 110 graduate and post-doctoral students. He is presently the editor-in-chief of Metabolic Engineering and Current Opinion in Biotechnology and serves on the Editorial Boards of 10 scientific journals and the Advisory Boards of 5 ChE departments. For his research and educational contributions, Prof. Stephanopoulos has been recognized with numerous awards, such as: Dreyfus award, Excellence in Teaching Award-Caltech, AIChE Technical Achievement Award, PYI from NSF, AIChE-FPBE Division Award, M.J. Johnson Award of ACS, Merck Award in Metabolic Engineering, the R.H. Wilhelm Award in Chemical Reaction Engineering of AIChE, Amgen Award in Biochemical Engineering. In 2003 he was elected to the National Academy of Engineering (NAE) and in 2005 he was awarded an honorary doctorate degree (doctor techniques honoris causa) by the Technical University of Denmark. In 2007 he won the C. Thom Award from SIM and the Founders Award from AIChE and in 2010 the ACS E. V. Murphree Award in Industrial and Engineering Chemistry and the George Washington Carver Award of BIO. In 2011 he was selected as the Eni Prize winner for Renewable and non-Conventional Energy and was also elected as Corresponding Member of the Academy of Athens. He was the 2014 recipient of the 2014 Walker award from AIChE. Professor Stephanopoulos has served the professional organization of Chemical Engineers as chairman of Division 15, member of the Board of Directors and Chairman of the AIChE Society for Biological Engineering. In 2014, he was elected as 2016 President of AIChE.

Professor Stephanopoulos has taught undergraduate and graduate courses of the core of Chemical Engineering and Biotechnology at Caltech and MIT and co-authored the first textbook on Metabolic Engineering. He is presently directing a research group of approximately 25 researchers who work on applications of metabolic engineering for the production of fuels and chemicals.

WORKSHOP - NONE

There will be no workshops because of the [Texas Industrial Energy Management Forum](#) (separate registration required). Workshops will resume in May.

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 April 6, 2016 to pre-register online. After that, you will be required to pay the higher cost at the door.

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



Thanks to our Silver Sponsor!



Thanks to our Bronze Sponsor!

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 April 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](#).

“The Future of Energy Management” Texas Industrial Energy Management Forum



Texas Industries of the Future

“The Future of Energy Management” Texas Industrial Energy Management Forum

Thursday, April 7, 2016

Brady's Landing
8505 Cypress St.
Houston, Texas 77012
4 to 6 pm

Registration at : <http://texasiof.ceer.utexas.edu/tiof/AprilForum2016.asp>

3:30 to 4:00 pm	Forum Registration and Visit with Exhibitors
4:00 to 6:00 pm	Energy Management Forum See program below.
6:00 to 7:00 pm	Networking and Exhibition (sponsored by AIChE-STS – info below)
7:00 to 9:00 pm	Optional AIChE-STS Dinner and Speaker (non-members are welcome – info below)

In this era of cheap natural gas, it is hard to get management's attention on energy projects. Yet we know that the things we do today will lay the groundwork for tomorrow's successful programs. This Forum will focus on the future of energy management, from the perspective of developing the next generation of energy managers, the culture that supports effective programs, designing efficient technologies into your next project, and benchmarking your progress. How does your company stack up?

Panelists will provide a 20 minute presentation on their topic followed by a panel discussion and Q&A from the audience.

Forum Moderator

Frank Roberto, ExxonMobil Research and Engineering Chair, Texas IOF Chemicals and Refining Advisory Committee

“The Future of Energy Management” Texas Industrial Energy Management Forum

Presentations by Panelists

“Incorporating Energy Efficiency into Process Design”

James Turner, Fluor Enterprises, Inc.

Jelle Ernst Oude Lenferink, Fluor Enterprises, Inc. (co-author)

For many facilities, energy costs are a significant portion of operating costs. Every Client wants to own facilities that have low operating costs. In addition, owners want to show that their facility is “sustainable”, and will minimize emissions of greenhouse gases.

For new projects, Clients challenge licensors and engineering companies to design state of the art, “top quartile” energy efficient facilities, using “best available technology”. In fact, several countries are specifying this as a requirement for project government approval. Since almost every facility is unique, how does the Project Team prove that their design meets those requirements?

This presentation will attempt to answer that question, with some real world examples, and present the outline for an Energy Efficiency Program that can be implemented by a Capital Project Execution Team.

Building a Culture of Energy Efficiency: Some things that Work, and a Few that Don’t

Alan Rossiter, Rossiter and Associates

Industrial energy efficiency is not just about technology. Corporate culture is also a huge factor in determining which companies truly succeed in improving their energy performance, and which ones founder in the midst of their good intentions.

The effects are seen from the boardroom to the shop floor, and they start with strong leadership and clear objectives. A comprehensive technical strategy is also needed, along with trained and motivated staff at all levels. Add a good dose of cheerleading, and your company could be on its way to excellence in energy efficiency.

EE Mentoring- Leverage the Knowledge

Joe Almaguer, Principle, ALMAGUER Energy Management

This will be a discussion on the need for and advantages of mentoring, both giving and receiving, as a way to accelerate the effectiveness of your Energy Management System. While knowledge transfer through sharing and exchanging at conferences, training sessions and forums is an excellent way to glean ideas and concepts that might be useful, mentoring and coaching leverages the experience and knowledge of others into the specific how-to's of an effective system.

Questions & Answers

“The Future of Energy Management” Texas Industrial Energy Management Forum

Registration: There is no cost for attending the Energy Forum; however, pre-registration is requested so that we can provide adequate facilities.

To register, go to: <http://texasiof.ceer.utexas.edu/tiof/AprilForum2016.asp>

Exhibiting: If you are interested in exhibiting at the event, contact Syamal Poddar at 713-494- 3050 or associates.poddar@gmail.com

Funding: Support for the Texas Industrial Energy Management Forum is provided by the State Energy Conservation Office of the Texas Comptroller of Public Accounts.

Networking and Exhibition Session, 6 – 7 pm

A number of companies who bring value to energy efficiency in the process industries will have tabletop exhibits set up as a focal point for a networking session. A cash bar will also be available.

STS AIChE Dinner with Speaker—7 pm Register separately at <http://sts.aiche.org/>

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

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

With the help of our dedicated executive committee, together with the wholehearted support of our outstanding core group of volunteers, we have created a high level of momentum to move our organization forward. Let me start off by giving you an update of the first three months' key events in a chronological fashion. In January, our invited speaker was Paul Evans, Director of the Production and Simulation Technologies Department of Southwest Research Institute (SwRI). The title of his presentation was: "Initiatives for Applying Smart Manufacturing to the Continuous Processing Industries." In February, our invited speakers Mark Lockhart, Process Technology Manager, and Blake Soyars, Environmental/Air Section Manager of Burns & McDonnell, spoke on a very timely subject. The title of their talk was "The Refinery 'RTR' Rule – Major Refinery Impacts and Targeted Solutions." Our invited speaker for the March dinner event was Walter Pinto, Site Manager, Bayport complex of LyondellBasell in Pasadena, Texas. The title of his presentation was "Excellence in Stationary Equipment Reliability." All three presentations were very informative and thought provoking in their respective



fields of expertise. All three presentations are available on [YouTube](#). I am pleased to let you know that all three dinner meetings were sponsored events as follows: January, SwRI as Bronze Sponsor; February, Burns & McDowell as Gold Sponsor and March, LyondellBasell as the Silver sponsor and SwRI as the Bronze sponsor. We are now getting ready for the April dinner meeting.

I am pleased to inform you that the invited speaker for the April dinner meeting will be the AIChE's current President, Dr. Gregory Stephanopoulos, W.H. Dow Professor of Chemical Engineering and Biotechnology at MIT, and Instructor of Bioengineering at Harvard Medical School. In his presentation, Dr. Stephanopoulos will share with us his vision of the AIChE and the title of his presentation will be "The New AIChE." Please see more information on the speaker and his talk in the April STS-AIChE Newsletter which is scheduled to be published soon.

As I mentioned to you in my earlier letter, in addition to these, we most often arrange workshops before the monthly dinner meeting events. These workshops are offered by subject experts and are complimentary to our members and allow attendees to receive continuing education credits. In February the workshop topic, presented by Ali Sari, was "Blast Retrofits and Upgrades for Occupied Buildings." In March, the workshop topic was "FLNG Evolution from FPSO" which was presented by Shane Tierling of KBR. In April we shall have our traditional Industrial Energy Management Forum jointly with Texas Industries of the Future. This year's theme for the forum is "The Future of Energy Management." For details please refer to our April Newsletter which is scheduled to be published soon. I hope to see you at the Energy Forum and dinner event on April 7th at Brady's Landing restaurant.

In addition to the above synopsis of activities, there are many more volunteer activities, such as judging at the Houston Engineering Science Fair which was just completed with participation of about a dozen of our active volunteers; supporting K-12 initiatives; participation in Engineers Week and the Boy Scout Fair to name a few. I'm happy to let you know that we are about to kick off piloting a breakfast/lunch networking event for members who are searching suitable employment opportunities to re-enter the workforce or to better their positions. Also, starting our April monthly dinner meeting event, we are initiating a monthly mentoring event "mentor for an Evening," details of which are available in our Newsletter.

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

Recently we reached out via e-letter requesting those who are not currently members to join STS-AIChE, and I'm pleased to inform you that we have already started seeing positive results. The best way we can create a sustainable growth is by increasing our membership strength and by encouraging associated collective support for our organization. Only by being inclusive and expanding our diversity shall we be able to achieve that. Another very important task that we are challenged with is attracting and retaining our young professionals via productive and active engagement in various activities. I encourage all our active volunteers to reach out to our young professionals to actively listen to them to understand and learn from them. Through various enriching engagements of our young members, we shall successfully build a pool of effective future leaders.

I am confident that with your continued encouraging and engaging cooperation, we shall maintain our focus to streamline and simplify our "way of doing." We shall always strive to be creative with an open mind to leverage our collective voluntary efforts to positively impact the society we live in.

Thank you for your continued support and encouragement.

Sincerely,
Syamal Poddar
Chair



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

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

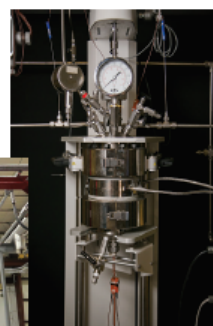
- measuring fouling propensity and anticipated fouling characteristics
- assessing the impact of additives
- estimating fouling thresholds at different temperatures and velocities
- evaluating the impact of metallurgy
- interpreting chemistry data
- assessing primary fouling mechanisms

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

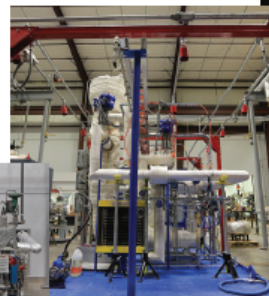
HTRI engineers use three state-of-the-art research rigs to provide crude oil fouling testing services to companies worldwide.

Contact us at fouling@htri.net to learn how we can help you with your next project.

Rotating
Fouling Unit



High
Temperature
Fouling Unit 2



High Temperature Fouling Unit



HTRI
www.htri.net

50 Years of AIChE Membership

STS Member Honored for Achieving 50 Years of AIChE Membership



Edward Cheslock displays his Certificate of Recognition for 50 Years of AIChE Membership. Shown with Ed are (from left) 2016 STS AIChE Chair-Elect David Rosenthal, STS Human Resources Director Tom Rehm, and 2016 STS Chair Syamal Poddar

Ed received his BS in chemical engineering in 1966 at Cleveland State University. Upon graduation, he went to work for Diamond Shamrock Chemical as a process engineer in Cleveland, Ohio. In 1969 he transferred to Diamond's Deer Park, Texas facility to work in the capital project group as a project engineer. He survived the buyout of Diamond Shamrock Chemical by Occidental Chemical, and in 1989 he transferred to OxyChem's newly opened Corporate Engineering office in Houston. In 1999 he took early retirement from OxyChem as part of a staff reduction. Later that year, he joined Taylor & Hill as a project manager and was placed at Occidental's Vinyl Chloride Plant in La Porte, where he continued to work on capital projects until his retirement early in 2012.

Ed has been involved in several interesting projects during his long career, including

- Plant expansion and process changes for Diamond's chloromethanes plant in WV.
- Major expansion of Diamond's PVC plant in Deer Park, TX.
- Installation of a cogeneration unit at Diamond's Deer Park plant.
- Replacement of a cracking furnace and upgrade of the fire protection system at Occidental's ethylene plant in Lake Charles, LA.
- Expansion of Occidental's vinyl chloride plant in Ingleside, TX.
- A major expansion of Occidental's PVC plant in Pasadena, TX.

Ed is a registered professional engineer in Texas. Besides the AIChE, Ed has been a member of the Project Management Institute and the Texas Society of Professional Engineers.

Edward and wife Sharon have three children, and six grandchildren.

He enjoys gardening and attending his grandchildren's sports and theatrical activities.

STS-AIChE Awards

Chaitanya Gottimukkala Honored As 2016 South Texas Section – AIChE Young Chemical Engineer of the Year



2016 STS-AIChE Chair Syamal Poddar (L) presents the 2016 South Texas Section Young Chemical Engineer of the Year Award to Chaitanya Gottimukkala (C). Also present is STS Chair-Elect David Rosenthal (R).

Chaitanya Gottimukkala was the Young Professionals (YP) Chair at STS-AIChE for 2015. He has also served as the Vice Chair, Treasurer, and Secretary of the STS-AIChE Young Professionals Group during the previous years. Currently, he is the South Texas Section—AIChE Secretary.

Chaitanya has been working as a Senior Risk Engineer with RISKbytes Inc since June 2013, where he supports Oil & Gas Companies to manage their Health, Safety and Environment (HSE) risks for both onshore and offshore facilities. Prior to that he worked as a Process Engineer (Process Safety and Fire Protection) with CB&I, where he has had the opportunity to work on challenging projects including LNG, refining, petrochemical facilities providing process engineering design, process safety and fire protection design and support.

Chaitanya has a M.E.S degree in Chemical Engineering from Lamar University, TX and a Bachelor of Technology degree in Chemical Engineering from J.N.T University in India. His Master's 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.

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	Burns & McDonnell "The Refinery "RTR" Rule – Major Refinery Impacts and Targeted Solutions"
March 3	Brady's Landing	Walter Pinto, LyondellBasell Excellence in Stationary Equipment Reliability
April 7	Brady's Landing	Energy Forum Greg Stephanopoulos, AIChE President
May 5	Pelazzio	Tim Olsen, Emerson
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 **\$131**. 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) 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

Frequently Asked Questions (FAQ)

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

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

What if I cannot attend a dinner meeting?

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

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

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

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

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

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

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

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

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

STS-AIChE 2016 Season Pass**2016 STS-AIChE Patrons**

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

STS-AIChE Season Pass**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

Upcoming Events Information

OTC

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.

Mentor For An Evening

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

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

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

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

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

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

David Rosenthal
Chair Elect, STS-AIChE

Frontiers in Particle Science & Technology: Mitigation & Application of Particle Attrition

The Particle Technology Forum (PTF) of AIChE and AIChE are organizing a focused conference entitled "Frontiers in Particle Science & Technology: Mitigation & Application of Particle Attrition." The conference will take place on April 11 – 13, 2016, and it will be collocated with the AIChE Spring Meeting at the Hilton Americas Houston Hotel. The conference will bring together leading practitioners and researchers in the field of particle science and technology to present papers on: attrition and breakage fundamentals; application of the fundamentals; testing and measurement; breakage modeling; breakup of agglomerates; and case studies. If you have any interest in particle attrition, this conference is for you.

[View the technical program →](#)

We are also happy to share that partial travel support to the Frontiers in Particle Science & Technology: Mitigation & Application of Particle Attrition, (April 11 – 13, 2016, Houston, TX) is available for select participants, courtesy of NSF. The funds are targeted at academic, US-based graduate students and postdoctoral researchers. We will host a poster session and reception that allows these participants to showcase their work and forge new connections with potential employers and/or collaborators.

[Learn about the partial travel support →](#)

For more information on the technical program, registration*, and accommodations, visit www.aiche.org/fpst

We hope to see you in Houston!

Ben Freireich, *The Dow Chemical Company*
2016 Frontiers in Particle Science & Technology Program Chair

Ray Cocco, *Particulate Solid Research, Inc.*
Heinrich Jaeger, *The University of Chicago*
Stéphanie Orvoine-Couvrette, *AIChE*
2016 Frontiers in Particle Science & Technology Committee

Upcoming K-12 Outreach Volunteer Event Information

STS will be participating in three K-12 Outreach events on Saturdays in April. We could use a few volunteers for each, particularly events 1 and 3. If you are interested, please contact the STS event coordinator listed below. The event sponsors encourage volunteers to sign up in advance, to permit prior screening of volunteers. It also helps our event coordinators to know in advance who will be attending and if they need to recruit more volunteers.

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

The events are:

- (1) [Houston Independent School District: "When I Grow Up" career fair](#) at the Hattie May White Center, 4400 West 18th St., 9:30 a.m. to 2:30 p.m. on Saturday, April 9, 2016. STS has borrowed a few demonstrator pieces of basic process equipment, and we will explain them to the students as they drop by our booth. Event coordinator: Matt Kolodney, 713-471-8956
 - (2) [Sally Ride STEM Festival for Girls](#) at Rice University, Engineering Quad, on Saturday April 9, 10:30 a.m. – 4:00 p.m. STS activity tbd. Event coordinator: Trevor Rice (trevorr@chemstations.com)
 - (3) [Regional Boy Scout Fair](#) at the NRG Arena: Saturday, April 16, 10:00 – 3:00 p.m. STS will have a booth on the Merit Badge Midway. Chemstations will provide a process simulation demonstration. Event coordinator: Matt Kolodney, 713-471-8956
-

Past Outreach Volunteer Pictures



Upcoming Volunteer Info — [HISD “When I Grow Up” Career Fair](#)



JOIN US AN EXHIBITOR AT THE 4th Annual CAREER EXPO

APRIL 9, 2016 WHEN I GROW UP CAREER EXPO

A Career Expo For The Whole Family

The goal of the EXPO is to expose students to the wide variety of careers that your company offers. You can help us in this effort by providing career awareness and exploration activities to students of all ages and their families as well by sparking student interest as they begin preparing for their own future career.

HISD invites its entire student population and their families to this free event. It is a great opportunity to showcase careers at your company, educate students on potential career fields, and engage parents at the same time. Please register to set up a booth and/or an interactive experience providing students of any age career building information.

Provide a sneak peek
into careers at your
company

Setup an engaging
hands-on exhibit

Bring volunteers to
speak to students and
parents about careers
in your industry

Saturday, 4/9/16

10am to 2pm

at Hattie Mae White ESC
4400 West 18th Street
Houston, TX 77092

No cost to participate.

Register now!

www.hisdcareerreadiness.org/meet/expo/

Contact

Career Readiness
4400 West 18th Street
Houston, TX 77092

Phone: 713-556-6981

dsturdev@houstonisd.org

www.hisdcareerreadiness.org/partner

HISD | **Career Readiness**
LEARNING TODAY. EARNING TOMORROW.

Upcoming Volunteer Info – [Reach for the Stars! STEM Festival for Girls](#)



The Ride Family Foundation honors the memory of Astronaut Sally Ride, her courage and curiosity, her commitment to excellence, and her passion for inspiring girls to explore the universe through STEM education. Specifically, The Ride Family Foundation – in cooperation with **Rice University Space Institute** and **BASF** – offers this opportunity for middle school girls to experience for themselves that science is fun.

Young girls need to see role models in whatever careers they may choose, just so they can picture themselves doing those jobs someday. You can't be what you can't see."

-Sally Ride

Reach for the Stars! ★ STEM Festival for Girls

Rice University - Engineering Quad

Saturday, April 9th, 11am - 3:45pm

What to expect besides a good time:

- **Discovery Fair**- showcasing Science and Technology with dozens of hands-on experiments and displays by **Rice University**, Festival Sponsor **BASF** and other sponsors, Community Organizations, science clubs and more. Music, food and a festive, social atmosphere for all registrants.
- **Astronaut!** Captain Wendy Lawrence is available for conversation, autographs, and an inspirational keynote and workshop participation – and special time with parents and educators.
- **Discovery Workshops** - offering in-depth investigative time with seasoned scientists. Areas of exploration are in STEM-related fields.

The Ride Family Foundation works with top-notch STEM educators and our network of NASA friends and retired astronauts to help support and encourage kids to mold their natural curiosity toward real life investigation and discovery. We invite you to join us.

*Every great dream begins with a dreamer.
Always remember, you have within you
the strength, the patience, and the passion
to **reach for the stars** to change the world.*

-Harriet Tubman



PRE-REGISTRATION REQUIRED: RideFamilyFoundation@gmail.com

Upcoming Volunteer Info — [Regional Boy Scout Fair](#)

Scout Fair
Saturday, April 16, 2016
10:00 am - 3:00 pm
NRG Arena



Scouts from 16 counties unite in one place to showcase their Scouting skills at [Scout Fair](#). Scouts enjoy visiting the midway with over 75 experts representing merit badges, interacting with participating booths from our community partners and picking up free offers. In addition, Scouts and their entire family enjoy visiting hundreds of booths set up by Scouting units with fun activities and crafts, learning scout skills, meeting new friends and tasting the delicious outdoor cooking. This event is open to the public and is free (\$10 parking). [Scout Fair video](#).

Type of Exhibits

[Merit Badge Midway](#) is the exciting educational component of Scout Fair designed to introduce Scouts to a variety of industries. Businesses and organizations from around the state share hands-on activities representing various merit badges that inspire Scouts to earn advancements, find new hobbies and maybe even future careers. Introduce your expertise to Scouts, leaders and parents. Bring special offers to drive traffic to your business or organization. The midway attracts more than 22,000 Scouts, leaders and families and is held in the middle of NRD Arena. [View requirements](#) for merit badges. **Midway support provided by Memorial Hermann.**

[The Conservation Corner](#) has exhibitors from a variety of local, state, and federal agencies display information and hands-on activities related to environmental issues, animal science, and conservation. Scouts not only learn about conservation but also have the chance to interact with exhibits featuring live reptiles, insects and other critters. Conservation Corner helps Scouts learn how to live in the outdoors and also how to preserve it for future generations. The Conservation Corner has been a staple at Scout Fair for years and will join together with the Midway to represent merit badges relating to the [World Conservation Award](#) and the [William T. Hornaday Award](#).

Coupon Books

Scout Fair Book Sales are a way for units to raise money. Coupon Books cost \$10 and provide OVER \$600 in savings. Units earn 30% commission on each Coupon Book sold. If your business or organization is interested in having a coupon included in the book, contact [Shane Burks](#).

STS-AIChE YP



STS-AIChE YP Happy Hour!

Come join the young professionals at Bar Munich for happy hour on 3/24!

Where: Bar Munich ([2616 Louisiana St, Houston, TX 77006](http://www.bar-munich.com))

Date: Thursday, March 24th, 2016

Time: 5:00 PM to 8:00 PM



STS-AIChE YP

YP of the Month: Kevin Allen



Tell us about yourself:

My name is Kevin Allen. I have one older brother, who is a mechanical engineer, and we were born and raised in the Spring Branch area of Houston. I graduated this past May from the University of Texas at Austin with a B.S. in Chemical Engineering. I am currently looking for employment in chemical engineering. Outside of my job search I enjoy camping, hiking, tennis, trying different craft beers, and hanging out with friends.

What technical interests do you have?

My interests include controls, process engineering, separations, and numerical methods.

How has STS and AIChE benefited you?

Both STS and AIChE have allowed me to meet and connect with others in my field in a casual environment. In the short time I have been part of the STS, it has provided a bridge between my academic and professional careers. Currently I am the photographer for the Young Professionals events and I plan to support the organization in other capacities in the future.

Any advice for the ChE students who will graduate soon?

Take the FE exam as soon as possible after graduation.

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.

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!

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

Tel.: 281-544-8447

Ryan.Stephens@shell.com

Tel: 281-544-6476

Matthew.Christiansen@shell.com

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

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

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

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

ENTER CONTACT INFORMATION FOR NOMINEE OR AUTHOR:

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

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

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>
Note: 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.

K12 Volunteer Opportunities

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

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

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

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

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

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

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

PE PDH Hours Qualified!!

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

Call for Volunteers Official Greeters

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

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

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

More Volunteer Opportunities

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

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

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

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

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

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

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

South Texas Section to Initiate Company Liaison Program

The South Texas Section (STS) of AIChE is implementing a Company Liaison Program. Kelly Richardson (2016 STS-AIChE Past Chair) is heading up the initiative.

The intent of the program is to have a liaison contact at companies in the region that employ a large group of Chemical Engineers, so that the liaison can pass on information on upcoming events, and encourage attendance at STS-AIChE Events.

This program will make it easier for Chemical Engineers to learn about meetings and events that may interest them, and by providing a “personal touch” and intra-company networking opportunity, overcome potential fears or objections to participating. The program will also provide a potential opportunity for employees to be recognized as leaders within their company.

Responsibilities and benefits are listed in the table below.

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

There is no cost for liaisons or companies to participate. Participation as a liaison is completely voluntary, and companies can transition to a new liaison or end their participation at any time.

The intent is for the Past Chair to maintain the program on an ongoing basis.

For more information, or to sign up as your company's STS-AIChE liaison, contact **Kelly Richardson** at stspastchair@aiche.org.



South Texas Section AIChE

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

2016 Officers and Contact Information

Officers

Chair Syamal Poddar
sts-chair@aiche.org

Chair Elect David Rosenthal
sts-chairelect@aiche.org

Past Chair Kelly Richardson
sts-pastchair@aiche.org

Secretary Chaitanya Gottimukkala
sts-secretary@aiche.org

Treasurer Carlos Salamanca
sts-treasurer@aiche.org

Executive Committee

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

Position 2: Outreach
Bill Epling
sts-position2@aiche.org

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

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

Volunteers

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

SOUTH TEXAS SECTION MISSION STATEMENT

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

Vision 2016

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

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

— SUBSCRIBE/UNSUBSCRIBE INFORMATION —

Our newsletter subscription list is by invitation only.

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

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

— MAINTAIN YOUR CONTACT INFORMATION WITH STS —




Maintain your contact information with the South Texas Section using the online community:

<http://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
 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 with comments, questions, suggestions, and ideas for next month.



Newsletter Editors

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

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

Submit an article! Contact:

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

Reserve your ad space! Contact:

Teresa Jurgens-Kowal
Global NP Solutions, LLC
2323 Clear Lake City Blvd,
#180 Suite 177
Houston, TX 77062
(281) 280-8717
Teresa@globalnpsolutions.com