Thursday, September 6, 2018
Monthly Meeting @ The Bougainvilleas Houston
(12126 Westheimer Rd, Houston, TX 77077)

5:30PM - 6:30PM Workshops
6:00PM - 7:00PM Social/Networking Time
7:00PM - 8:00PM Dinner and STS Announcements
8:15PM - 9:00PM Dinner Presentation/Speaker

Inside this issue:
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September Dinner Meeting
Dinner Speaker: Uday Turaga, Founder & CEO of ADI Analytics

Title: North America: A future LNG superpower?

Abstract: In less than a decade, the shale revolution has dramatically transformed North America from the largest energy consumer to one of the fastest growing energy exporter. Amongst all the commodities that are now exported, LNG is one where North America can be a truly global player. This presentation will identify and discuss key drivers, global demand, supply, technology, and projects.

Bio: Uday Turaga is Founder & CEO of ADI Analytics, a management consulting firm based in Houston, Texas, and specializing in oil and gas, energy, and chemicals.

Through 19 years of industry experience gained at ExxonMobil, ConocoPhillips, Booz & Company, and ADI Analytics, Turaga brings deep commercial and technical expertise in oil and gas, coal, renewables, and chemicals. Turaga has led ADI Analytics for the past nine years and through 300 projects for over 100 clients including ExxonMobil, Shell, Saudi Aramco, BASF, GE, Honeywell, and U.S. Department of Energy.

Turaga holds a PhD in fuel science from Penn State and an MBA from the University of Texas at Austin. In addition to authoring over 100 papers and patents, he has been recognized by the U.S. National Academy of Engineering, the American Chemical Society, and the Penn State Alumni Association. Finally, Turaga has been featured in the Wall Street Journal, National Public Radio, and Bloomberg, and is a frequent speaker on energy issues at conferences and events globally.

Check us out on YouTube!
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 for the main meeting is now open through our [website](#).

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<th></th>
<th>Pre-Registration</th>
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Meeting Location—The Bougainvilleas Houston

This month’s meeting will be held at The Bougainvilleas Houston (12126 Westheimer Rd, Houston, TX 77077).

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

September Meeting Dinner Menu

A Cajun Evening with STS AIChE at The Bougainvilleas

**Buffet Dinner:**
- Garden Salad with Italian Dressing
- Corn Bread
- Blackened Chicken with Creole Sauce
- Chicken and Sausage Gumbo
- Dirty Rice
- Collard Greens

**Vegetarian Dinner Option:**
- Vegetable Stuffed Portobello Mushroom with a Balsamic Glaze **

** This dish is by request only – reservations are due two (2) days before the event.

**Dessert:**
- Bread Pudding

**Coffee Station:**
- Regular Coffee
- Decaffeinated Coffee

**Non-Alcoholic Beverages:**
- Iced tea with Lemon Wedges
- Water

**Alcoholic Beverages:**
- Cash Bar**

** Cash only – no electronic payment option
**Workshop I Information**

**Workshop starts at 5:30 PM:**

**Title:** Are you setting up your control system to manage vessel levels correctly?

**Speaker:** Steven Obermann, Sr. Product Manager, Metso Performance Solutions

**Abstract:** Process Level controllers often fail to be optimized correctly for the use cases in our processes. This workshop will explain why level control is different from other control loops. We will share some strategies to overcome common level loop behavior problems. Majority of level control loops are tuned incorrectly when one considers process design aspects. Level controller tuning adjustments can be made to achieve the vessels purpose in the production process. Demonstration of these techniques will be presented.

**Bio:** Steve Obermann is the Sr. Product Manager overseeing the Expertune family of software products. He has worked in the process automation field for 30+ years. Steve has extensive experience in the refining and petrochemicals sector; having been employed by Texaco, WR Grace, UOP, Honeywell, and Texas Petrochemicals. His expertise includes process modeling, advance control, optimization, software development, process and control system performance evaluation/benchmarking, project financial analysis and management.
Workshop II Information

Workshop starts at 5:30 PM:

Title: Process Design and Validation of Plant Operation Using Principles of Probabilistic Data Analysis and Six Sigma Methodologies

Speaker: Raul E. Ayala Ph.D.

Abstract: After a chemical process has been developed, designed, and started-up at commercial scale, it is usually desired to validate the actual plant operation performance against design assumptions. However, the engineer usually encounters factors that affect the quality of the data collected at a plant, both from a variability standpoint as well as from data availability or lack thereof. This workshop presentation will describe simplified Six Sigma and probabilistic methodologies that can be used for reducing uncertainty in future operation and ensure that successful validation plans, data collection strategies, and methods for data analysis are reliable for predictions and risk assessment going forward. The strategies will be illustrated using examples of system-wide and subsystem plant operations using the aforementioned error-reducing strategies.

Bio: Raul E. Ayala Ph.D., Senior Engineering Leader, REA Technology Consultants

Raul is currently an Engineering Leader and Consultant with extensive experience leading New Technology, Process Engineering, and Research and Development (R&D) teams in programs in the Energy, Specialty Materials and Polymers, and Fuels applications. Prior to consulting, he worked at the General Electric Co. for over twenty years as Technology Leader, Consulting Engineer, and R&D Engineer in the GE Power and Water division in Houston, TX, and GE Global Research in Niskayuna, NY. Raul is a certified Six-Sigma Master Black Belt, a holder of 17 US-issued patents, and an author of over 50 technical publications and two book chapters on power generation and gas treatment. He holds an MS and PhD degrees from Carnegie Mellon University in Pittsburgh, PA, and a BS from the University of Nevada at Reno, all in chemical engineering. He can be contacted at reayala07@gmail.com.
Hello South Texas Section,

With the Oil and Gas industry slowly picking up and numerous expansions happening globally, the markets for process chemicals, and additives for refineries, petrochemicals, fuels, lubricants, and oilfield industries are poised for growth. In recent months, there are many regulations around the world that emphasize the need for enhanced fuel efficiency, health, as well as environmental policies that help drive progress in our field.

Summer has come to an end and STS-AIChE had the opportunity to participate in traditional social activities such as our Ship Channel tour and the Houston Astros baseball game. These were great opportunities for our folks in Houston to mingle together. Getting back into our Fall semester, we are planning for our remaining end of the year meetings: monthly meetings, South Process Technology Conference, and the 75th Anniversary Gala Celebration coming in November.

Our networking lunches’ volunteers, David Alexander and Fabian Solberg, have been very diligent in getting speakers and topics for our upcoming meetings. Use this opportunity to attend those gatherings as they are on different times and locations compared to our traditional monthly meetings. Topics range from job search strategies to technical skills; all of them needed to keep abreast of current knowledge, and to expand our technical tools.

The 75th Anniversary Gala Celebration on November 3rd at the Houston Racquet Ball is getting closer. Dennis Griffin, Jimmy Kumana, along with a group of STS members, are diligently working on the event preparation. As STS-AICHE wants to reach every single member of our chapter, we encourage all our current members and former members to contribute with participation, old pictures, industry facts, and anecdotes; so that we can include them in our Diamond Jubilee celebration.

Executive meetings take place on the second Thursday of every month. If you want to participate or provide suggestions, please feel free to email me so we can accommodate you in any of those meetings. Our next monthly meeting will be on September 6th at The Bougainvillea’s. Our dinner speaker will be Uday Turaga from ADI Analytics LLC. Also, for workshops, we have George Buckbee, from Metso, and Raul Ayala PhD, from REA Technology Consultants.

STS-AIChE wants to generate awareness about the skills that bring value to our profession through a variety of initiatives. Activities to create value for our members. Please tell us what topics YOU want to hear from us, what topics, questions, or scenarios you want us to cover in our upcoming meetings that will help you get to your next level.

Looking forward to talk to you.
Monthly Meeting Sponsorship – Benefits

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<th>Bronze ($500 – $1,000)</th>
<th>Silver ($1,000 - $2,999)</th>
<th>Gold ($3,000+)</th>
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<tr>
<td>Non-Exclusive benefits</td>
<td>Non-Exclusive benefits</td>
<td>Exclusive benefits</td>
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<tr>
<td>• Sponsor Logo display in the Newsletter and in the meeting slide show</td>
<td>• Bronze benefits above plus the following:</td>
<td>• Silver benefits above plus the following:</td>
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<tr>
<td>• Acknowledgement at the meeting</td>
<td>• A slide from the sponsor in the dinner meeting announcement slide</td>
<td>• Sponsor to designate the invited Speaker and suitable topic for the dinner meeting</td>
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<tr>
<td>• “Sixty seconds of shameless self-promotion” at the dinner meeting</td>
<td>• A display table at the dinner meeting</td>
<td>• Company season pass (1)</td>
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<td>• Two complementary dinner tickets</td>
<td>• Two (2) additional complementary dinner tickets for a total of four (4)</td>
<td>• One (1) Booth at Energy or Water Forum Meetings</td>
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<td>• Invitation to recruiting events</td>
<td>• Social Media exposure</td>
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Sponsors for 2018—Thank You

[Logos of Metso, Armstrong Chemtec Group, Chemstations]
STS - AIChE Awards Update

2017 South Texas Section - AIChE Best Papers Awards

The 2016 STS -- AIChE Best Papers Competition received two (2) nominations in the Applied category, six (6) in the Fundamental category, and none (0) in the Best In Practice category. The Best Papers the Applied and Fundamental categories will be announced at the October 9 South Texas Section – AIChE Monthly Dinner Meeting at the Moody Gardens Hotel located at 7 Hope Boulevard in Galveston, Texas.

2018 Offshore Technology Conference Volunteers

The South Texas Section – AIChE wishes to recognize and thank those listed below for volunteering to serve on one or more of the 2018 OTC Arrangements, Registration, and First Timers Orientation Committees:

Aditaya 'Adi' Akheramka
Raul Ayala
Arthur Camero
Robert Duffy
Dannis Jen
Marie Laplante
Tom Menn
Syamal Poddar
Charles Robert
Carlos Salamanca
Tushar Shah
John Super
Roger Trandell

Dewayne Anderson
Steven Briley
Yurika Bialowas Diaz
Debra McCall Haney
Matthew Kolodney
James Menn
Israel ‘Izzy’ Perez
Gary Reeves
Mirelle Rosca
Carl Schwanke
Tench Shoemaker
Sanaz Taghvaii
Satyajit Verma

Marc Young

As the STS – AIChE Volunteers provided more than 64 hours of volunteer time, the STS – AIChE received a $1,000 honorarium from the OTC.
Young Professional of the Month: Talia Sanchez

Talia is our new Webmaster for STS AIChE. She graduated Suma cum Laude with her BS in Chemical Engineering and Minor in Public Affairs (McBride Honors Program) from Colorado School of Mines in 2010. Her time at CSM included being an active member of the student AIChE chapter and a captain of the club soccer team. She graduated in 2012 from University of Colorado in Boulder with an MS in Chemical Engineering, including research of therapeutic protein thermodynamic stability at oil water interfaces under Dr. Theodore W. Randolph. After college she joined Spirit Environmental as an environmental consultant and is currently working as a Project Manager. Two (2) years ago, she decided to become more involved in her community and re-activated her membership with AIChE. In her spare time, Talia practices Krav Maga. She recently received her blue belt and teaches beginner’s Krav Maga and women’s self-defense classes at Fight Back Fit.
STS-AlChE K-12 STEM Outreach

Sydney Brown was a summer intern at the Houston Museum of Natural Science. He has written about his experience during this internship. These comments shed a light over what our STS AlChE chapter is doing in K-12 STEM outreach.

This July I had the privilege of a summer internship at the Houston Museum of Natural Science. During its first half I researched and created useful material for a planetarium presentation on an undersea mission. The voyage began in New York and ended in islands off Portugal. Viewers will see pictures of a variety of creatures and utilize maps that I personally created. I learned how to create displays from scratch and to solve problems when I initially lacked certain necessary information. This will be helpful in preparing future technical papers and grant proposals.

During the second half of the internship, I helped run the planetarium shows. These particular shows were curated to celebrate the 50th anniversary of the Apollo 8 Mission, which circled the Moon. I ran the computer during the shows and helped describe certain aspects of the programs to the viewers. This experience will be helpful in preparing and presenting future technical presentations and classroom lectures. In addition, one goal of these shows was to gather data on how much the average student knows about space.

This fall I plan to start college, majoring in physics and astronomy. This summer I was able to access a variety of information regarding my planned major, and this reconfirmed my chosen field and in doing research. I also gained useful skills in my field, as well as helpful contacts. In addition, I got excellent experience working as a member of a scientific team. These internships should be very helpful for aspiring chemical engineers in the future.

Just before going to college I successfully experienced working beyond my comfort zone. This was my first scientific summer job and my first research job. In addition, I am not particularly outgoing and was going to work closely with others. I was apprehensive going in, but quickly put my hesitation aside and feel more prepared for college in Boston.

Finally, I would like to thank the AlChE for funding an internship for a future astronomer. Thank you for helping me when AlChE’s first choice for the internship (a chemical engineer) chose a different summer internship program. When I deal with chemical engineers in the future I will remember when you gave me this opportunity.
10th Southwest Process Technology Conference, Call for Volunteers

October 9-10, 2018
Moody Gardens Hotel and Convention Center
The South Texas Section of the AIChE, in partnership with AIChE HQ, is hosting its Tenth Annual Southwest Regional Process Technology Conference at the Moody Gardens in Galveston, TX on October 9 & 10, 2018. The conference provides technical sessions, industry solutions in process technology, and networking opportunities for the nearly 500 chemical engineers and students that attend.

CALL FOR 2018 SPTC VOLUNTEERS:
Volunteer duties typically include working at registration, as session aides for the technical presentations, assisting exhibitors, working meal lines and collecting event tickets.

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

Further information including confirmation and a schedule will be sent out later. It will be a greater conference because of your assistance.
South Texas Section’s Networking Luncheon Program

As many of you know, our local STS section has one of the most varied and active in the country, and probably the world, programs for its members.

One of these is the Professional Networking Luncheons that we sponsor twice a month - on the 1st and 3rd Fridays of each month, from 11:30 am to 1 pm.

The 1st Friday lunch is held on the west side, currently at the Wyndham Hotel just north of the intersection between I-10 and Highway 6. The 3rd Friday lunch is held on the east side at the Pipeline Grill restaurant (10,003 Spencer Highway) roughly halfway between Red Bluff Rd and Bay Area Blvd.

Each meeting features a speaker on a topic that we think would of interest and value to the membership. However, anyone can attend; you do not have to be a member. All we ask that you register on the STS website, and do attend if you have registered. The speakers and topics are usually different each time, although we did repeat once.

Attendance records show that only 60-65% of those who register actually attend, which often causes logistical problems for the west side meetings at the Wyndham, where the lunch is served buffet style, and we have to give the hotel a head count a day in advance. If we have no shows, STS takes a hit on the cost, not to mention the needless waste of food. We pay $16 per head, attendees pay $11 per head. So if 30 people register, and we have 20 no-shows, it costs STS $(16 \times 10 + 20 \times 5) = $260, of which $160 is a total waste. Because we accept walk-ins, the loss is partially offset usually, although sometimes we also run of short of food. At the Pipeline Grill, no-shows do not have a financial impact, because all meals are a la carte.

When the presentation is primarily of a professional nature (e.g. steam turbine integration, patents, environmental permitting, plant safety/security) rather than of general interest (e.g. causes of Climate Disruption, career tips), it is uploaded to the website and made available to all visitors. We have issued 44 PDH (Professional Development Hours) certificates so far this year to those who requested them, which are useful for maintaining active PE licenses.

As you can imagine, it takes a lot of effort to run this program. We have a team of five volunteers who arrange for the speakers, select topics, prepare and e-blast the meeting announcements (speaker photo/bio, topic abstract), confirm arrangements with the meeting avenue, bring and setup the screen and a/v equipment, prepare sign-in sheets, name tags, pay bills, follow-up with issuing PDH certificates, etc,

Fabian Solberg and Amar Ahluwalia are responsible for running the west side meetings. David Alexander and Onesimus Haruna take care of all logistics for the east side meetings. I help out wherever it is needed, as well as prepare and issue PDH certificates, and keep overall records for the program.
South Texas Section’s Networking Luncheon Program

Attendance statistics up to the first week of August are provided in the table below.

<table>
<thead>
<tr>
<th>Date</th>
<th>Venue</th>
<th>Topic</th>
<th>Regist'd</th>
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<th>Walk-ins</th>
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<tr>
<td>12-Jan</td>
<td>Omni</td>
<td>Federal govt mentoring programs for Entrepreneurs</td>
<td>33</td>
<td>12</td>
<td>3</td>
<td>24</td>
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<td>2-Feb</td>
<td>Omni</td>
<td>Optimal integration of Sm Turbines in industrial plants</td>
<td>33</td>
<td>14</td>
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<td>16-Feb</td>
<td>PL grill</td>
<td>Optimal integration of Sm Turbines in industrial plants</td>
<td>24</td>
<td>14</td>
<td>4</td>
<td>14</td>
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<tr>
<td>2-Mar</td>
<td>Wyndham</td>
<td>Local Impacts of Climate Change</td>
<td>31</td>
<td>9</td>
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<td>31</td>
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<td>16-Mar</td>
<td>PL grill</td>
<td>Global warming is Not Cool</td>
<td>31</td>
<td>9</td>
<td>7</td>
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<td>8-Apr</td>
<td>Wyndham</td>
<td>3D Mapping to Design Flame/Gas Detection Systems</td>
<td>16</td>
<td>4</td>
<td>12</td>
<td>24</td>
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<td>20-Apr</td>
<td>PL grill</td>
<td>Successful Risk Taking at Work</td>
<td>18</td>
<td>5</td>
<td>6</td>
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<td>4-May</td>
<td>Wyndham</td>
<td>Marketing Strategies for Job Search Success</td>
<td>18</td>
<td>4</td>
<td>11</td>
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<td>18-May</td>
<td>PL grill</td>
<td>Guarding against Physical and Data Security Breaches</td>
<td>17</td>
<td>8</td>
<td>3</td>
<td>12</td>
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<td>1-Jun</td>
<td>Wyndham</td>
<td>Future of Oil Prices: a perspective</td>
<td>41</td>
<td>12</td>
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<td>15-Jun</td>
<td>PL grill</td>
<td>Patents and Intellectual Property: Invention to Value</td>
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<td>6-Jul</td>
<td>Wyndham</td>
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<td>20-Jul</td>
<td>PL grill</td>
<td>EHS Compliance in a Rapidly Evolving World</td>
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<td>4</td>
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<td>3-Aug</td>
<td>Wyndham</td>
<td>Managing Technology Risk using the TQ Process</td>
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<td>15</td>
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<td>17-Aug</td>
<td>PL grill</td>
<td>Advances in Thermal Oxidation technologies</td>
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<td>7-Sep</td>
<td>Wyndham</td>
<td>Strategies for Job Search Success</td>
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<td>21-Sep</td>
<td>PL grill</td>
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<td>0</td>
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<td>5-Oct</td>
<td>Wyndham</td>
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<td>19-Oct</td>
<td>PL grill</td>
<td>Business Culture Killers - Deadly practices</td>
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<td>16-Nov</td>
<td>PL grill</td>
<td>Future trends in Chem Process Engineering</td>
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<td>7-Dec</td>
<td>Wyndham</td>
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<tr>
<td>21-Dec</td>
<td>PL grill</td>
<td>No meeting due to Xmas holidays</td>
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What we need to confirm is that all this effort is justified because it delivers value not only to our members but to the Chem Eng community area-wide, and is helping them to enhance their careers not only through broadening horizons, but by creating opportunities to make contacts that will enable them be more effective on the job.

For those in transition between jobs, the meetings are an excellent opportunity to glean market intelligence about which companies may be hiring, and what kind of skills/experience are in demand. But they have to work at it intelligently; it is not realistic to expect being offered a job by someone you have just met.

Help out your colleagues by informing our HR director (that’s me for now, jkumana@aol.com) if anyone becomes of job openings that could be of interest to others, and we will forward this information confidentially to those who are looking for a change. Also, if you would like to hear a talk on a particular topic, or know of a good speaker, do inform us so we can follow up.

Similarly, if you have a technical problem at work for which you would like to explore ideas for potential solution options, we will try to connect you with someone who might be able and willing to help informally. Such activities would probably fall under the purview of Matt Kolodney, who is putting together a panel of experienced senior engineers to serve as mentors.

Let us know your stories – both successes as well as failures. The former will be a source of satisfaction. The latter will help us find ways to improve.
Upcoming Events

September 7th First Friday Networking Lunch

The next STS-AIChE First Friday Networking Lunch (FFNL) will be held on Friday, September 7th from 11:30AM - 1:00PM at the Wyndham Houston West Energy Corridor Park Restaurant and Grill (14703 Park Row Dr, Houston, TX 77079). The restaurant is located on the east side of the hotel and there is designated parking available. The lunch cost $11 all included (tax, tip, drinks and food) after the South Texas Section has subsidized this event by $5 per attendee. You pay for the lunch when you walk into the Park Restaurant at the Wyndham hotel. Everyone is welcome to attend!

Register at the AIChE STS website.

Topic: Career Paths in Research & Development

Speaker: Sagar Sarsani

The presentation will start with an overview of various stages in the research & development of new chemical processes in industry and the metric commonly used in R&D to rank and prioritize projects. It then follows on to the personal traits required to be successful researcher, based on personal experiences and learnings from the senior leadership in the Industry. Practical examples are provided to show the timelines and challenges in the development of new breakthrough processes. For those chemical engineers not in this career path, this talk will provide a flavor of what it’s like in R&D and hopefully a better understanding of research engineers.

Dr. Sagar Sarsani is currently a Staff Scientist in Engineering Sciences Department in Corporate Research & Development at SABIC Technology Center (Sugarland, TX). He obtained his Bachelor's in Chemical Engineering from IIT Bombay, followed by an MS and PhD in Chemical Engineering from the Center for Environmentally Beneficial Catalysis at the University of Kansas. His career began in 2007 at Dow Chemical (Freeport, TX) as a Sr. Research Engineer where he worked on projects ranging from basic chemicals to fine chemicals to polymers, with a focus in reaction engineering and catalysis. In 2013, he joined SABIC, where develops new catalytic processes for conversion of natural gas to chemical intermediates. He has over 25 patent applications and 10 publications in refereed journals. He is a member of AIChE and routinely chair sessions on ‘Catalysis & Reaction Engineering’ at AIChE annual meetings.

Have suggestions for future topics, formats and speakers? Please contact Fabian Solberg at fabian.solberg@eisenmann.com or +1 (815) 307-5746
Upcoming Events

September 21st Third Friday Networking Lunch

The next STS-AIChE Third Friday Networking Lunch (FFNL) will be held on Friday, September 21st from 11:30AM - 1:00PM at the Pipeline Grill (10003 Spencer Hwy, La Porte, TX 77571). The lunch menu ranges from $8 to $12, and the South Texas Section will subsidize lunches by $3 per attendee. STS members as well as non-members are welcome to attend. We only request that you pre-register at the STS-AIChE.org website so we can get an accurate head count for the restaurant. Everyone is welcome to attend!

Register at the AIChE STS website.

Topic: How to Make Yourself Indispensable to Your Employer

Speaker: Terry Suffredini

We are just now coming off another downturn in the engineering community here in southwest Texas. Things may be looking up for the immediate future, but economies are always cyclical. Have you noticed how some “lucky” people seem to stay employed even when things go south? What if you could make your own luck? What if you could take steps now that will make your employer want to keep you onboard, even if it means putting you on overhead? You can! In this talk, Terry shares tips and strategies that have worked for her and others who have had the foresight to become indispensable.

Never Get Laid Off Again: They'll jump through hoops to keep you, regardless of the Economy!

Terry Suffredini, PE, is The Engineer's Coach. After earning her degree in Chemical Engineering from UT-Austin, she spent more than 2 decades working in the environmental field. She later transitioned into process design and then into project management, where she now works working mainly on large ($350MM+) midstream oil and gas EPC projects and leading a team of 100+ professionals. While currently employed by S&B Engineers and Constructors, Ltd. here is Houston, Terry is also a certified Life and Career Coach. It is her mission to use her extensive experience and demonstrated abilities to help fellow engineers excel both personally and professionally. eMail: terryatk@yahoo.com, (713) 492-3257.

Have suggestions for future topics, formats and speakers? Please contact David Alexander at 832-372-2926 or davidalexanderlaw1249@gmail.com. Alternative STS contacts = jkumana@aol.com and Onesimus Haruna 281-216-8985.
Upcoming Events

Diamond Jubilee Celebration: South Texas Section of AIChE

The South Texas Section of the American Institute of Chemical Engineers is now 75 years old, and we are celebrating this with our Diamond Jubilee Celebration Dinner on Saturday, November 3, 2018. The dinner will be held at the Houston Racquet Club, which is at 10709 Memorial Drive near Voss.

The evening will start at 6:00 PM with a social period with a cash bar and passed hors d’oeuvres followed by a gourmet dinner beginning at 7:00 PM. More information on the event and on the dinner menu can be found on the STS website here.

In addition to the great dinner, we will be featuring recognition of outstanding members and former members of the STS-AIChe.

After the dinner, we will enjoy dancing to NightBeat Band, the premier band in Houston.

The price for each person is $75, and this includes complimentary valet parking, a champagne toast, the dinner, and the music.

Registration for the Diamond Jubilee Celebration Dinner will start at the STS-AIChe monthly meeting on Thursday, September 6. Please register early because there is a limit to the number of people who can attend.

For additional information, please send an email message to:
STS-AICHE75@sbcglobal.net
Upcoming Events

Offshore Technology Conference 2019

Now is the time to start preparing your abstract for OTC 2019! Paper proposals will be accepted through **18 September 2018**.

- Abstracts (up to 450 words) are **due 18 September 2018**.
- Start working now on your company or client clearance to submit.
- Manuscript deadline for selected papers will be **5 February 2019**.

We look forward to receiving high-quality submissions, which will help shape a vibrant future for the offshore energy sector.

As we celebrate the 50th anniversary of OTC, we will look to the future: a future in which offshore energy embraces renewables and socially responsible energy production, continues the drive for improved safety in all phases of design and operation, and marches toward digitalization, robotics, and automation.
Upcoming Events

Arctic Technology Conference 2018

What do you get when experts involved in drilling, exploration, production, and environmental protection meet brilliant minds in Arctic exploration from around the globe for a 3-day event?

Arctic Technology Conference 2018
5–7 November 2018 | Houston, Texas, USA | Hilton Americas

With Houston as one of the world's significant energy hubs, the city is the perfect meeting place for industry experts to convene and discuss cutting-edge technologies and innovative practices needed for the exploration and production in the Arctic.

Did you know?
- More than 650 industry professionals work in Arctic E&P.
- OTC Arctic provides a platform for industry experts to share knowledge and experiences for a more collaborative program.
  - Technical program topics include:
    - Ice and Harsh Environment
    - Emerging Technology and Innovation
    - Pipeline, Logistics, and Transport
    - Regulatory, Environmental, and Social Responsibility
    - Resource Exploration and Production Operations
    - Why should you attend Arctic Technology Conference?
Upcoming Events

Course Announcement

Two new courses are being offered in Houston this fall for process engineers with design or operating responsibilities in the chemical process industries, with emphasis on the hydrocarbons sector:

**OPTIMIZING HX NETWORKS**

- Process HEN Design & Simulation
- HEN Design & Simulation
- Pinch Analysis – Basic
- Pinch Analysis – Advanced
- Case studies – new and retrofit

**OPTIMIZING COMPLEX PUMP SYSTEMS**

- Pump systems theory
- Driver selection – fixed vs VFD
- Optimizing System Efficiency
- Correct Application of VFDs
- Case studies

Get up-to-date on field-tested tools and techniques to reduce Opex and improve competitive advantage for your company, as well as turbo-charge your career.

The course instructor is an internationally recognized expert in process efficiency optimization, whose team cut the energy bill of a major NOC by 40% in 6 years (at ROI ~25%) despite gas prices as low as $0.75 - $1.25/MMBtu.

Course format is a combination of lectures, actual industrial case studies, and working sessions using spreadsheet software (included).

Both courses will be held at the Hyatt Regency North Houston hotel located at 425 North Sam Houston Pkwy E (also known as “Beltway 8 North Loop”), Houston, TX 77060, at the intersection with Imperial Valley Road. Phone (281) 249-1234.

Early bird registration discounts available ([www.petroleumrefining.com](http://www.petroleumrefining.com)) until Aug 28 for the September course, only a week away. For more details or questions, please contact seminars@petroleumrefining.com or call 412-826-5440, and ask for Kim Wunnenberg.
Fun and competition are brewing!

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

On October 28th, the Chemstations crew will join other teams in presenting a poster detailing their beer’s recipe, brewing process, and other specifics. Beers in different categories (dark and malty, light and hoppy) will be judged on taste, and the winners in all areas will be awarded prizes. To learn more about the competition, check out www.aiche.org/brewbeer

If you’re attending the 2018 AIChE Annual Meeting, come by and cheer on your Houston-Area Young Professionals!
## Summer Events

Four networking luncheons were held during June, July, and August.

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Jun</td>
<td>Future of Oil Prices: a perspective</td>
<td>Dr Ronald Sills</td>
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<tr>
<td>15-Jun</td>
<td>Patents and Intellectual Property: Invention to Value</td>
<td>Peter Hanik</td>
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<tr>
<td>20-Jul</td>
<td>EHS Compliance in a Rapidly Evolving World</td>
<td>Jed Anderson</td>
</tr>
<tr>
<td>3-Aug</td>
<td>Managing Technology Risk using the TQ process</td>
<td>Amar Ahluwalia</td>
</tr>
</tbody>
</table>

Dr. Ronald Sills

Peter Hanik

Jed Anderson

Amar Ahluwalia

Jed Anderson (right) in discussion with Dr. Verma
## STS-AIChE 2018 Meeting Schedule

<table>
<thead>
<tr>
<th>Date</th>
<th>Location</th>
<th>Meeting Details (Speaker/Company/Topic)</th>
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</thead>
<tbody>
<tr>
<td>January 11</td>
<td>Bougainvilleas</td>
<td>Process Safety</td>
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<tr>
<td>February 1</td>
<td>The Battleground Golf Course</td>
<td>Alignment, Engagement and Execution: Creating Strong Team Performance and Results – Or, How to Herd Cats!</td>
</tr>
<tr>
<td>March 1</td>
<td>Bougainvilleas</td>
<td>The Power of Modelling – Then, Now and Expected</td>
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<tr>
<td>April 5</td>
<td>Shafaii Hall and Garden</td>
<td>Energy Forum, Trends in LNG – Bigger isn’t always better</td>
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<tr>
<td>May 3</td>
<td>Bougainvilleas</td>
<td>Tom Williams, Global Leader of Operator Effectiveness at Honeywell Process Solutions and Director of the Abnormal Situation Management Consortium (ASM) ; Better Decisions Faster: Simple Things Can Reduce Incidents and Improve Operator Performance.</td>
</tr>
<tr>
<td>September 6</td>
<td>Bougainvilleas</td>
<td>Uday Turaga, Founder &amp; CEO of ADI Analytics North America: A future LNG superpower?</td>
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<tr>
<td>October 9</td>
<td>Moody Gardens</td>
<td>Southwest Process Technology Conference (SPTC) TBD</td>
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<tr>
<td>November 1</td>
<td>Shafaii Hall and Garden</td>
<td>Water Forum</td>
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<tr>
<td>December 6</td>
<td>Trini Mendenhall Community Center</td>
<td>Workshops</td>
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</tbody>
</table>

This coming year features many great speakers and topics at our STS AIChE Dinner meetings. We look forward to seeing you at each meeting.
### 2018 STS-AIChE Patrons

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
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<tbody>
<tr>
<td>Travis Fixmer</td>
<td>Huntsman</td>
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<tr>
<td>Gary Miller</td>
<td>Air Liquide</td>
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<tr>
<td>Carlos Salamanca</td>
<td>SCG</td>
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<tr>
<td>Yurika Díaz Bialowas</td>
<td>Chemstations Inc.</td>
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<tr>
<td>Sanjay Sharma</td>
<td>Honeywell</td>
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<tr>
<td>Fabian Solberg</td>
<td>Eisenmann Corporation USA</td>
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<tr>
<td>David Rosenthal</td>
<td>RSIC</td>
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<tr>
<td>Ravi Saxena</td>
<td>ANR Consulting</td>
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<tr>
<td>Vic Edwards</td>
<td>VHE Technical Analysis</td>
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<tr>
<td>Trevor Rice</td>
<td>Chemstations Inc.</td>
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<tr>
<td>Gus Georgeton</td>
<td>Stress Engineering Services</td>
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<tr>
<td>Wendy Young</td>
<td>Chemstations Inc.</td>
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<tr>
<td>Syamal Poddar</td>
<td>Poddar &amp; Associates</td>
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<tr>
<td>George Redd</td>
<td>Synergen Consulting</td>
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<tr>
<td>Dale Embry</td>
<td>ConocoPhillips</td>
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<tr>
<td>Thomas Rehm</td>
<td>TEREhm Consultancy LLC</td>
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<tr>
<td>Joseph T. Ramey</td>
<td>Westchase Design LLC</td>
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<tr>
<td>Kamal Shah</td>
<td>IHI E&amp;C International</td>
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<tr>
<td>Matthew Kolodney</td>
<td>Entech Engineering</td>
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<tr>
<td>Arnab Baksi</td>
<td>Bechtel Hydrocarbon Technology Solutions</td>
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<td>William Paul Waits</td>
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<td>Matthew Clark</td>
<td>Armstrong Engineering Associates</td>
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<td>James Turner</td>
<td>Fluor</td>
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<td>Julie D. White, P.E.</td>
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<td>Thomas E Menn</td>
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<tr>
<td>George Duane Vouraceris, P.E.</td>
<td>Airgas Merchant Gases</td>
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<td>Jordan Pearce</td>
<td>PSE</td>
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<tr>
<td>Dimitrios Georgis</td>
<td>PSE</td>
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<tr>
<td>Jack Chosnek</td>
<td>KnowledgeOne LLC</td>
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<tr>
<td>Maximo Salazar</td>
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<tr>
<td>Nicholas D'Ambrosio</td>
<td>En-Fab Inc.</td>
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<tr>
<td>John Middleton</td>
<td>WorleyParsons</td>
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<tr>
<td>Helen Kester</td>
<td>Fitiri</td>
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<td>YP</td>
<td>STS AIChE YP Guest</td>
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<tr>
<td>Carol Schmidt</td>
<td>Wood</td>
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<tr>
<td>Erin Green-Colaco</td>
<td></td>
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<tr>
<td>Larry Chriswell</td>
<td>Keelson Company</td>
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<tr>
<td>Jim Brigman</td>
<td>Ingenero Inc.</td>
</tr>
</tbody>
</table>
South Texas Section Corporate Liaison Program

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

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

Responsibilities and benefits are listed in the table below.

<table>
<thead>
<tr>
<th>STS-AIChE</th>
<th>Liaison</th>
<th>Company</th>
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</thead>
<tbody>
<tr>
<td><strong>Responsibilities</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>✦ Provide meetings and events</td>
<td>✦ Forward STS-prepared emails to department/group</td>
<td>✦ Support the liaison</td>
</tr>
<tr>
<td>✦ Maintain list of liaisons</td>
<td>✦ Create meeting invitations for coworkers</td>
<td>✦ Advertise where applicable</td>
</tr>
<tr>
<td>✦ Send out special emails to liaisons</td>
<td>✦ Try to set up carpools where able</td>
<td></td>
</tr>
<tr>
<td>✦ Advertise program and recognize liaisons and companies</td>
<td>✦ Attend meetings where possible</td>
<td></td>
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<tr>
<td></td>
<td>✦ Interface with Company Management on STS activities and sponsorship opportunities (as applicable)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>✦ Provide feedback to STS Officers on company interests and comments</td>
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<tr>
<td><strong>Benefits</strong></td>
<td></td>
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</tr>
<tr>
<td>✦ Higher attendance</td>
<td>✦ Personalized Nametag for meetings</td>
<td>✦ Recognition at meetings</td>
</tr>
<tr>
<td>✦ Better corporate relations</td>
<td>✦ Demonstrated leadership within company</td>
<td>✦ PDHs / education for employees</td>
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<tr>
<td></td>
<td>✦ Increased networking ability within corporation</td>
<td>✦ Networking/team building opportunities</td>
</tr>
<tr>
<td></td>
<td>✦ PDH credits/technical education</td>
<td></td>
</tr>
</tbody>
</table>

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

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

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

If you have any questions, please contact STS Human Resources Director, Tom Rehm, at tom@tomrehm.com or 832-331-6491.
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.

---

The South Texan Newsletter Crew

WHAT DO YOU THINK OF THE NEWSLETTER? We want to know!

Contact us at sts-newsletter@aiche.org with comments, questions, suggestions, and ideas for next month.

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SOUTH TEXAS SECTION MISSION STATEMENT

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

Vision 2018

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

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

---

SUBSCRIBE/UNSUBSCRIBE INFORMATION

Our newsletter subscription list is by invitation only.

Subscribe: Click on the following link: Subscribe.

Unsubscribe: Click on the following link: Unsubscribe. Your email address will be removed from the subscriber list.

---

MAINTAIN YOUR CONTACT INFORMATION WITH STS

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

Contact the AIChE for PERMANENT ADDRESS CORRECTIONS:

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

1-800-AIChemE (1-800-242-4363)

AIChe Home Office
120 Wall Street, FL 23
New York, NY 10005-4020

AIChe Customer Service Center
100 Mill Plain Rd 3rd Fl
Danbury, CT 06811

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South Texas Section AIChE

ST-AIChe
P.O. Box 421373
Houston, TX 77242

2018 Officers and Contact Information

Officers

Chair: Carlos Salamanca
sts-chair@aiche.org

Chair Elect: Tom Rehm
sts-chairelect@aiche.org

Past Chair: David Rosenthal
sts-pastchair@aiche.org

Secretary: Debra McCall
sts-secretary@aiche.org

Treasurer: Yurika Díaz Bialowas
sts-treasurer@aiche.org

Executive Committee

Position 1: Education
Sanjay Sharma
sts-position1@aiche.org

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

Position 3: Communications
Aniket Patankar
sts-position3@aiche.org

Position 4: Human Resources
Jimmy D. Kumana
sts-position4@aiche.org

Volunteers

Arrangements: John Middleton

Awards: Tom Menn

Membership: David Silarski

Webmaster: Phil Purpich

Young Professionals: Swarup Bade

---

Submit an article!

Contact:

Matt Kolodney
713-471-8956
MKolodney1@comcast.net

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Reserve your ad space!

Contact:

Yurika Diaz Bialowas
sts-treasurer@aiche.org