

# The South Texan



**Thursday, November 2, 2017**  
**Monthly Meeting @ The Bougainvilleas**  
**([12126 Westheimer Rd, Houston, TX, 77077](#))**

5:00PM - 6:30PM Water Management Forum  
6:00PM - 7:00PM Social/Networking Time  
7:00PM - 8:00PM Dinner  
8:00PM - 9:30PM Dinner Presentation/Speaker

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

## November Dinner Meeting

**Dinner Speaker:** Mr. Michael Turco, General Manager of the Harris-Galveston Subsidence District

**Title:** *The Subsidence Story in the Houston Region*

**Abstract:** Subsidence has been a primary concern in the Houston area for many years. Since 1906, over 10 feet of subsidence has occurred, with a broad area of 6 feet of subsidence existing today throughout most of the Houston Area. In 1975, as a result of area residents and local governments becoming increasingly alarmed by the continued impact of subsidence on economic growth and quality of life in the region, the Harris-Galveston Subsidence District was created by the 64th Texas Legislature as an underground water conservation district with the mission to provide for the regulation of the withdrawal of groundwater to control subsidence. Over more than forty years of existence, the District has developed substantial data sets providing the foundation for its regulatory plan. The District's regulatory plan allows groundwater users an amount of annual groundwater based on a percentage of an individual permittee's total water demand. The management of the groundwater resources within the District has involved significant coordination with regional ground and surface water suppliers; ongoing interaction with other state and local regulatory bodies; analysis of accurate and up to date predictions on water usage; the enforcement of disincentives to those who rely too heavily on groundwater and a commitment to practicing and promoting water conservation. Areas nearest the Gulf of Mexico coast have completed the conversion to alternative (other than groundwater) water sources, consequently the effective stress on the aquifer has decreased and subsidence rates have been reduced. Areas within the District further inland are currently proceeding through the conversion process, and subsidence has continued in those areas as development of the groundwater resources has continued.



**Bio:** Mr. Turco serves as the General Manager of the Harris-Galveston Subsidence District as well as the Fort Bend Subsidence District (which is administered by the HGSD staff through an inter-local agreement). As General Manager, he is the Chief Administrative Officer responsible for the management of District operations, and for developing goals, strategies and policies necessary to implement the District's legislated mandate. Mr. Turco leads a customer focused team supporting the District's mission of reasonable groundwater regulation to protect lives and property in Harris, Galveston, and Fort Bend Counties from the hazards associated with land subsidence.

Mr. Turco holds a Bachelor of Science degree in Geology from the University of Nebraska at Omaha and a Master of Science in Geology (Hydrogeology Focus) from the University of Nebraska at Lincoln. Mr. Turco participates in the Region H planning group, Groundwater Management Area 14, the Texas Water Conservation Association, the Texas Association of Groundwater Districts, and International Symposia on Land Subsidence

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## Meeting Registration Information

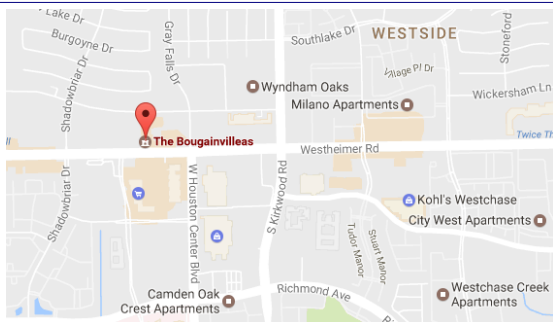
Membership in STS-AIChE is a bargain at \$20/year. If you wish to become a member, you may join at the registration desk at the meeting.

	Pre-Registration	Onsite
Member	\$25	\$35
Non-Member	\$35	\$40

**NOTE:** Please bring your receipt. You have until 4PM CST on November 1st, 2017 to pre-register online. After that, you will be required to pay the higher cost at the door.

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

## Meeting Location— The Bougainvilleas



This month's meeting will be held at The Bougainvilleas ([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](#).

## Texas Industrial Water Management Forum

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Energy Forum starts at 4:00 PM

Title: Maintaining Integrity and Controlling Composition of Industrial Water Systems for Improved Performance, Reliability and Value

Speakers:

Clayton Harris  
Engineering Manager  
EPI Engineering

David G. Puchan  
Downstream Global Industrial Technical Consultant  
ECOLAB

Jimmy Vaeth  
Texas Regional Account Manager  
Pentair

Abstract: Water management will always be an important issue whether it is identifying cost effective process cooling technologies, reducing waste water, addressing issues with cooling water distribution networks, or mitigating the risk for the lack of availability of fresh water. Whether it is for compliance or cost reduction, one must constantly be familiar with the range of and advancements in technologies.

Attend this water management forum and learn from the experts in how to diagnose and pinpoint issues in degraded cooling water distribution systems, a novel approach for monitoring boiler feed water can minimize total operating cost, and a high performance innovative separation technology can increase the value of process and waste-water streams.

Panelists will provide a 15 - 20 minute presentation related to the forum topic followed by a panel discussion and Q&A session with the audience.

To register, go to: [https://texasiof.ceer.utexas.edu/forms/TIOFevent\\_registration.cfm](https://texasiof.ceer.utexas.edu/forms/TIOFevent_registration.cfm)

## EXHIBITORS



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## November 2017 STS-AIChE Chair's Letter – David Rosenthal

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

Your local section has not forgotten the hardships continuing to be experienced by our members after Hurricane Harvey. We continue to perform outreach activities in their support. We are participating with SPE in Rebuilding Houston where our volunteers perform home repairs like installing handrails, building wheelchair ramps, installing doors with peepholes, installing security locks and many other improvements that create a safe environment for the home owner. The National organization continues to offer a lifeline for members needing financial help with a small donation. We supported several members at the Southwest Process Technology Conference by reimbursing them for one-half of their registration fees for those affected. Please contact me for any assistance you might still need!

Our October 12th dinner meeting as part of the Southwest Process Technology Conference featured Michael Moore from Texas Central Rail Partners speaking about "Changing the Way Texan Travel". All those in attendance enjoyed the diversity the topic brought to the meeting. We also awarded excellence in our best paper competitions and recognized several Executive Board members for their dedicated service to the section.



Our next meeting on November 2nd will feature the annual Water Forum sponsored by Texas Industries of the Future. Our dinner speaker will be Michael Turco, General Manager of the Houston Subsidence District. Please note that Brady's Landing experienced significant damage from Hurricane Harvey and is not available till April, 2018. Our November meeting will be held at The Bougainvilleas, 12126 Westheimer Rd., Houston, TX 77077. We will be selecting new venues for our meetings on the east side for 2018.

Our Dinner meeting program for 2017 has been a success! Our talks this year included:

January - Improving Operational Resilience Using Dynamic Simulation

February - The Oldest Bioreactor - Wastewater Treatment

March - Port Of Houston Authority

April – Pressure Relief Systems: Case Studies and Design Tips

May - Good Engineering Practice for Emergency Relief System Design

June – Houston Ship Channel Tour

October- Changing the Way Texans Travel

November- Water Forum – with Dinner speaker from the Houston Subsidence District

Our incoming Chair Carlos Salamanca is putting together meetings for 2018. If you are interested in speaking please contact him.

Don't forget to vote in our upcoming elections for 2018 Executive Board offices by November 16th! We have another great slate of candidates put together by our past chair Syamal Poddar.

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## November 2017 STS-AIChE Chair's Letter – David Rosenthal

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These events are dedicated and part of the membership benefits to our local section and National AIChE members. **Attendance does require one to be either a member of the local section or the National AIChE organization.** If you are not a member of the local section, you can sign up as a member and get a two year period before you must become a National AIChE member. I ask each of you to review your membership status and either renew or become a member before the next dinner meeting.

We continue to look for sponsoring companies for our meetings. We have three levels of sponsorship. Your company has an opportunity to speak to our Dinner meeting attendees, provide literature, and attend the meeting complimentary. Your sponsorship lowers the price of our Dinner meetings for our members. Please consider being a Bronze, Silver or Gold sponsor! Contact the Chair for more details.

We are also looking for Dinner meeting locations. Can your company host a Dinner meeting? All we need is space for 100 people, workshop space, catering, and parking. We will even provide the speaker!

Our section also provides value in many other ways to our members. We are committed to assisting those looking for work through many different approaches. We participated in the SPE Hiring Event this past month. We continue to hold First Friday Process Network meetings in LaPorte at the Pipeline Grill for outreach on the East side. At this time our meetings at the Omni Westside hotel have been suspended till 2018 as they repair from flood damage.

Remember, any member can attend our Executive Committee meetings held on the second Thursday of each month at La Madeleine at 10001 Westheimer Rd, Suite 2123, Houston, TX 77042 to either observe or volunteer to help. We are currently looking to fill board positions for 2018. If you are interested, let me know.

In closing, I again take this opportunity thank you for your past support and I look forward to meeting each of you at an AIChE STS event.

David Rosenthal  
2017 Chair  
AIChE STS

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## **ELECTION VOTING INSTRUCTIONS - 2018 EXECUTIVE COMMITTEE**

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### **ELECTION VOTING INSTRUCTIONS**

The South Texas Section- American Institute of Chemical Engineers (STS-AIChE) needs your vote to determine who will be on the Executive Committee for 2018.

To be eligible to vote, you must be an active member and have paid your AIChE and STS-AIChE dues for 2017. Please have your membership number available to complete the ballot. Your membership number will serve as your personal identification number. You may obtain your member information by accessing your member account on the AIChE website ([aiche.org](http://aiche.org)) or you may call the AIChE Customer Service toll-free at (800) 242-4363. Your membership number was also included in a recent e-mail sent by AIChE to renew your 2017 membership.

To enable members to make informed selections for the STS-AIChE election, candidate profiles are provided [HERE](#). You may cast your ballot electronically by following the link supplied in the e-mail sent to you on Wednesday, October 16, 2017. Paper ballots will also be available at the November Monthly Dinner Meeting. You may vote a maximum of once for this year's election (either electronically or by paper ballot).

To be counted valid, ballots must be received by Tuesday, November 16, 2017. Thank you for your participation!

If you need additional assistance or have any questions regarding the election or voting process, please contact Syamal Poddar by email [sts-pastchair@aiche.org](mailto:sts-pastchair@aiche.org) or call (832) 954-6055. The STS-AIChE wants your vote to be counted!

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## CANDIDATES FOR 2018 EXECUTIVE COMMITTEE

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**Nominated as Chair-Elect for 2018 (and to succeed to the Chair in 2019 and Past Chair in 2020)**

Thomas E. Rehm, PhD, PE, CPSP, CSP, CPSA, CLP

I have had an interesting career; now semi-retired but still busy. It all started in 1972 with UOP – most of my time spent as a Senior Design Engineer. I left there in 1981 to complete graduate studies at Northwestern University, defending my doctoral dissertation in 1985, and joining Amoco Chemical in Naperville, Illinois at the Amoco Research Center, where I was primarily involved in commercializing new products. From there I joined CH&A in 1993, a small consulting firm in Kingwood, Texas, where I investigated industrial accidents, primarily for litigation. Saudi Aramco hired me in 1997 to improve their investigations and in the process of doing so I became involved on the steering committee that launched Saudi Aramco's version of Process Safety Management in 2005, the year after I led the Saudi Aramco Compliance Review Team, essentially PSM auditing of several Saudi Aramco facilities and operations. Three of the last four groups of letters behind my name are Process Safety Certifications, the fourth being Certified Safety Professional.



I retired in 2009, toured all fifty states with wife Mary in 2010, and settled into semi-retirement in 2011 in the Houston area, near to the greatest concentration of grandkids (6 of 10). As with my career, I have had an interesting retirement – some process safety consulting work now and then and a little volunteer work. I am completing two years as the Human Resources Officer of the South Texas Section. I am a Director of the AIChE Safety & Health Division, a member of the S&H Division Virtual Meeting Planning Committee, the Chair of the S&H Division Student Outreach Committee, a member of the CCPS Process Safety Undergraduate Curriculum Committee, and a member of the AIChE PAIC Climate Task Force. As Chair-Elect of the South Texas Section, I will support our 2018 Chair Carlos Salamanca to achieve successful implementation of all STS programs. Before you cast your vote for me, it is important for you to know that I believe that AGW (anthropogenic global warming) is occurring and I will do everything I can to alter the course of our nation's aversion to this important issue. Check out the PAIC Climate Task Force discussions on Engage. I was a moderator for the first two of eight discussions in this series, which will run through February. The objective of the AIChE PAIC Climate Task Force is to craft a new AIChE Climate Change Policy for consideration by the AIChE Board of Directors. My personal objective following a new AIChE policy is for the AIChE to be a leader among U.S. engineering societies in mitigative and adaptive measures.



## CANDIDATES FOR 2018 EXECUTIVE COMMITTEE

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**Nominated as Chair-Elect for 2018 (and to succeed to the Chair in 2019 and Past Chair in 2020)**

Dr. Reed has extensive offshore & onshore experience in the upstream, midstream, and downstream sectors of the oil, gas, and petrochemical industries. Dr. Reed works within Exponent's Thermal Sciences group specializing in fluid flow and combustion events with regards to process safety incidents. His assessment of flammable and toxic vapor dispersions, jet/pool fires, explosions, to structural response calculations provide guidance to a wide variety of industrial clients for regulatory compliance and continual improvement of their corporate process safety and risk management goals.

Dr. Reed's primary area of expertise is in modeling (analytical and Computational Fluid Dynamics) and development of studies such as Fire Risk Assessment (FRA), Explosion Risk Assessment (ERA), Escape, Evacuation, and Rescue Assessment (EERA), and Helideck Availability just to name a few. For the last several years, Dr. Reed has applied CFD analysis to a wide variety of risk problems associated with flammable and toxic vapor dispersion, explosions within enclosed modules and Liquefied Natural Gas (LNG) terminals.

Dr. Reed is active with local and national professional organizations including the American Chemical Society (ACS) and American Institute of Chemical Engineers (AIChE). He has served as peer reviewer for books produced by the Center for Chemical Process Safety (CCPS) such as Guidelines for Process Safety Knowledge and Expertise, Guidelines for Siting and Layout of Facilities and Guidelines for Process Safety in Upstream and Shale Ops. He has also been a committee member for the development the Evergreen LOPA/IPL Database, Guidelines for Inherently Safer Design and Incidents that Define Process Safety..

Dr. Reed has been the 2017 Chair for the AIChE South Texas Section Young Professional Organization.





## CANDIDATES FOR 2018 EXECUTIVE COMMITTEE

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### Nominated as Secretary for 2018/2019

Debra has been involved with the section for several years and is the current facilitator for the First Friday Networking Lunch series. She has also previously served as the Communications Chair with the Young Professionals and volunteers regularly at the Offshore Technology Conference representing AIChE.



She has managed chemical manufacturing facilities in every major shale play in the US and is currently an independent consultant in the chemicals industry.

Debra earned a B.S. in Chemical Engineering from North Carolina State University and is a Lean Six Sigma Green Belt.

### Nominated as Position 4 (Membership) for 2018/2019

Mr. Kumana holds a masters degree in chem eng from the Univ of Cincinnati, and has more than 35 years of experience in process design and energy/water optimization, working for both manufacturing and engineering design companies before establishing K&A in 1997, specializing in Process Integration (Pinch Analysis). He has been a consultant to major corporations world-wide including Amoco (BP), Union Carbide (Dow), Dupont, Enron, Lubrizol, Mitsubishi, Monsanto (Solutia), Pemex, PetroChina, SABIC, Saudi Aramco, Southern Cal Gas, Tesoro, and Xcel Energy, as well as to US Dept of Energy, Natural Resources Canada, the World Bank, and UNIDO. He has authored or co-authored over 75 technical papers and book chapters, and regularly teaches courses on Pinch Analysis, Energy Efficiency in Oil Refineries, and related subjects



## CANDIDATES FOR 2018 EXECUTIVE COMMITTEE

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### Nominated as 2 (Outreach) for 2018/2019

Dr. Sheena M. Reeves is an assistant professor in the chemical engineering department at Prairie View A&M University and has been a faculty member for about six years. She serves as the transfer student advisor and webmaster for the department. In 2006, Sheena obtained her B.S. in Chemical Engineering from Mississippi State University (MSU) in Starkville, MS. In 2011, she became the first African American to graduate from MSU with a Ph.D. in Chemical Engineering. While at MSU, she also completed the college's Material Engineering and Science certification program. Dr. Reeves is the faculty advisor for the Omega Chi Epsilon honor society and the creator of the CHEG Senior and Awards Recognition Ceremony. In the past, she has served on the Faculty Senate as Secretary, Elections Chair, and Facilities Committee Chair. Sheena participates in several professional organizations and has leadership roles in the South Texas local section of AIChE and the Minority Affairs Committee of AIChE. Recently, Dr. Reeves was awarded the honor of being named one of AIChE's 35 under 35 for 2017.



## CANDIDATES FOR 2018 EXECUTIVE COMMITTEE

### Nominated as 2 (Outreach) for 2018/2019

Emmanuel Dada is currently an adjunct faculty member and faculty advisor to the AIChE Student Chapter of Prairie View A & M University. He worked for FMC for over 14 years in many areas of innovative technologies becoming an Associate Research Fellow in 2004. Prior to joining FMC in 1995, he had worked at Rohm and Haas Company (acquired by Dow Chemical's) from 1989 to 1994. Emmanuel received his BSChE from Obafemi Awolowo University, Nigeria and his M.S. and Ph.D. ChE from Lehigh University in Bethlehem, Pennsylvania, USA.



An AIChE Fellow, Emmanuel is a member of AIChE National Separation Division and Process Development Division. He was an active member of the Delaware Valley Local Section before he relocated to Houston in 2009 and now participates actively in the South Texas Local Section meetings. He served as the chair of the centennial General Arrangement Committee (GAC) at the AIChE conference in Philadelphia, 2008. He also served as Chair of the Minority Affairs Committee (MAC) from 2000-2002 and Chair of the MAC –AIChE Student Awards since 1999. He was awarded the AIChE-MAC Distinguished Service Award in 2000, William Grimes Award in 2012, and pioneer award at MAC@25 in 2015. He served 2 terms from 2006 to 2007 as chair of the Societal Impact Operating Council (SIOC) and as its secretary in 2009. In 2007 as the chair of SIOC, he welcomed the idea of partnership with EWB, Engineers Without Borders-USA, a non-profit humanitarian organization established to partner with developing communities worldwide in order to improve their quality of life that eventually led to an MOU and a rewarding partnership to both organizations. For many years, he represented FMC in the AIChE's Center for Sustainable Technology Practices (CSTP), an industry consortium that has created among other notable achievements a Sustainable Development Guide for technology development. He is a member of the Admissions Committee of AIChE. He served as a technical advisor representing AIChE on worldwide ETHICANA video on The Global Anti-Corruption Education and Training (ACET) initiatives to reduce corruption in the engineering and construction industry, involving contractors, governments, financial institutions, management and others. Emmanuel is active in other professional organizations where among others he served as an Associate Member, Committee on Minority Affairs of ACS and as past President of the NY/NJ Chapter of NOBCChE.

# MITIGATE HEAT EXCHANGER FOULING

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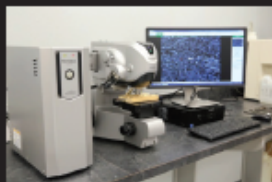
- Measure the fouling propensity of a crude
- Evaluate the benefits of anti-foulant additives
- Assess the impact of production additives
- Compare the fouling potential of different crudes or blends
- Estimate fouling thresholds for temperature and velocity
- Evaluate the impact of metallurgy

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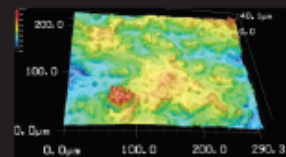
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## STS-AIChE Annual Awards

# South Texas Section - AIChE Awards Announced At October 12 Monthly Dinner Meeting

The South Texas Section – AIChE's October 12 Monthly Dinner Meeting which was held at the Moody Gardens Hotel in Galveston, Texas served as the venue for the presentation of five (5) awards.

## STS - AIChE 2016 Best Applier Paper Award



Mohammad Tavakkoli (L) and Francisco M. Vargas (R) display their award for the 2016 South Texas Section – AIChE Best Applied Paper. David Rosenthal, 2017 STS – AIChE Chair, is between Messrs. Tavakkoli and Vargas.

The 2016 South Texas Section – AIChE's Best Applied Paper was titled "*Rethinking the modeling approach for asphaltene precipitation using the PC-SAFT Equation of State*" authored by Mohammad Tavakkoli, Andrew Chen, and Francisco M. Vargas published in ***Fluid Phase Equilibria***, 25 May, 2016, Vol. 416, pp. 120~129.



## STS-AIChE Volunteer Recognition

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### **2017 Offshore Technology Conference Volunteers**

The South Texas Section -- AIChE wishes to recognize and express its appreciation and gratitude to the following STS Volunteers who served on one or more of the 2017 OTC Arrangements, Registration, and First Timers Lounge Committees:

Kevin Allen  
Joushua Bordin  
Arthur Camero  
Humbert Chu  
Rita DeClariss  
Yurika Diaz Bialowas  
Chaitanya Gottimukkala  
John Hottovy  
Carlton Jones  
Tekin Kunt  
Ric Massie  
Monica McCoy  
John Middleton  
Eliazar Nava  
Frank Pierrat  
Gary Reeves  
Carl Schwanke  
David Silarski  
John Super  
Anil Vazralla  
Quinta Warren

Dewayne Anderson  
Cecilia Burns  
Evan Carlton  
Nicholas Collett  
Amanda Dei,  
Robert Duffy  
Mayank Gupta  
Dannis Jen  
Matthew Kolodney  
Wei Leong  
Debra McCall  
James Menn  
Shahebaz Mulla  
Israel "Izzy" Perez  
Syamal Poddar  
Mirelle Rosca  
Tushar Shah  
Mark Smith  
Roger Trandell  
Keith Wang  
Marc Young

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## STS-AIChE 50 Year AIChE Membership

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### Arthur M. (“Art”) Dowell III Recognized for 50 Years of AIChE Membership



Art Dowell was recognized for achieving 50 Years of AIChE Membership at The South Texas Section – AIChE’s October 12 Monthly Dinner Meeting which was held at the Moody Gardens Hotel in Galveston, Texas.

Art received a BAChE (1966) and a BSChE (1967) both from Rice University. He is a Fellow of AIChE and a Registered Professional Engineer in both Texas and Pennsylvania.

After graduation, Art joined Rohm and Haas Company where he worked for 42 years. After the Dow-Rohm & Haas merger, he worked for The Dow Chemical Company for one year and then retired. For the past eight years, Art has been president of A M Dowell III PE PLLC.

Art’s AIChE activities began when he was elected Vice President of the Rice University Student Chapter in 1967. After joining the South Texas Section, he was elected to the STS Executive Committee Position No. 3 in 1978. Art then was elected STS Treasurer in 1979 and served as STS Secretary in 1980. On the National AIChE level, he has been a member of CCPS since 1990 and has served on four (4) book committees. Art has also served as a Session CoChair for the 1997 and 2002 International PSM Conferences. He is a recipient of the Bill Doyle Award for the Best Loss Prevention Symposium paper in 1991.

Art has authored 47 papers and 4 books.

Art is a Senior Member of the International Society of Automation and served on the ISA S84 Standard Committee from 1995 to 2009. He has received the 2002 ISA Albert F Sperry Founders Award and the 2011 Mary Kay O’Conner Process Safety Center Merit Award.

Art and his wife have been married for nearly 52 years and are the proud parents of a son and a daughter. His hobbies are photography and video editing. Art is very active in his church, having served as a deacon and still serves as a Sunday School Teacher.

Art, Congratulations on achieving 50 years of AIChE Membership.

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## STS-AIChE Annual Awards

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### Thanks to the 2016 South Texas Section Best Papers Awards Judging Committee

The 2016 South Texas Section – AIChE Best Papers Judging Committee received five (5) Applied Paper and five (5) Fundamental Paper nominations for the 2016 STS – AIChE Best papers competition. The Best Papers Judging Committee was chaired by Matt Christensen with assistance from Ryan Stephens (*both of Shell*) and was composed of the following Members who the STS – AIChE wishes to express its appreciation and gratitude

Ravi Agrawal	Flavia Cassiola
Priyanka Desai	Elizabeth Endler
Vijay Gupta	Shekhar Jain
Niko Kampman	Michael Kandianis
Abhishek Kar	Harry Kooijman
Steven Lim	Jose Gonzalez Martinez
Joe Mayne	Miranda Mooijer-van den Heuvel
Nitish Nair	David Parker
Richard Pollard	Ricardo Prieto-Irizarry
Ishan Rao	Majeed Shaik
Santhosh Shankar	Ryan Stephens
Tim Tambach	Foram Thakkar
Lennart van Haandel	Abhinav Verma
James Winkler	Trevor Zuroff

## STS-AIChE Annual Awards

### STS - AIChE 2016 Best Fundamental Paper Award



Stacy Pesek (L) and Yen-Hao “James” Lin (C) display their STS – AIChE 2016 Best Fundamental Paper Award Plaques. To the right is David Rosenthal, 2017 STS – AIChE Chair.

The 2016 South Texas Section – AIChE’s Best Fundamental Paper was titled “*Synthesis of bottlebrush copolymers based on poly(dimethylsiloxane) for surface active additives*” authored by Stacy L. Pesek, Yen-Hao Lin, Hui Zhen Mah, Will Kasper, Bo Chen, Brian J. Rhode, Megan L. Robertson, Gila E. Stein, and Rafael Verduzco published in ***Polymer*** (Elsevier), Volume 98, January 2016, pp. 495–504.

## STS-AIChE Annual Awards

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### **Bala Chaitanya Varma Gottimukkala Receives 2016 South Texas Section - AIChE Outstanding Young Professional Award Recipient**



Chaitanya Gottimukkala (L) receives the South Texas Section – AIChE 2016 Outstanding Young Professional Award from 2017 STS – AIChE Chair David Rosenthal (R).

The recipient of the 2016 South Texas Section – AIChE Outstanding Young Professional Award is Bala Chaitanya Varma Gottimukkala.

Chaitanya has a M.E.S. degree in Chemical Engineering from Lamar University and a Bachelor of Technology degree in Chemical Engineering from J.N.T. University in India.

Chaitanya is the current STS- AIChE Secretary (2016 ~ 2017) and was the 2015 Young Professionals (YP) Chair of the STS-AIChE. He has also served as the Vice Chair, Treasurer and Secretary of the STS-AIChE Young Professionals Group during the previous years.

Chaitanya received the 2016 South Texas Section – AIChE Young Chemical Engineer of the Year and this year was honored as one of the three (3) STS – AIChE Members who were recognized as winners of the AIChE's YP Committee 2017's "35 Under 35" Award.

Chaitanya has worked as a Senior Risk Engineer with RISKbytes Inc since June 2013 until recently. Prior to that he worked as a Process Engineer (Process Safety and Fire Protection) with CB&I. He has recently rejoined CB&I.

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## STS-AIChE Annual Awards

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### **Kelly S. Richardson Named South Texas Section - AIChE 2016 Distinguished Service Award Recipient**



Kelly Richardson (L) receives the South Texas Section – AIChE 2016 Distinguished Service Award from 2017 STS – AIChE Chair David Rosenthal (R).

The recipient of the 2016 South Texas Section – AIChE Distinguished Service Award is Kelly S. Richardson.

Kelly graduated from Michigan Technological University and received a BSChE with a Minor in Economics in 2003. Since graduation, she has worked in apparel sales as an Assistant Manager & Manager for two different companies, as an engineer for Practical Environmental Consultants, Inc. (an Illinois company), as a Process Engineer with AMEC Paragon working in the Upstream Engineering Area (on-shore and topsides), Star Engineering Services, DCP Midstream, and Sunflower Network Marketing.

Kelly has been very active in AIChE, serving the STS – AIChE as Chair-Elect (2014), the 2015 Chair, Past Chair (2016), and as Secretary for the 2012-2013 Term. She was Chair of the STS-AIChE Young Professionals in 2010. KELLY served as a Nominating Committee Member (2010) and the Process Technology Conference Chair (2010).

Kelly has received the 2014 STS – AIChE Chair Appreciation Plaque, the 2011 STS - AIChE Young Chemical Engineer of the Year Award and the 2011 STS - AIChE Outstanding Young Professional Award. She also received AMEC Paragon's 2010 Silver Bullet Award in Recognition of Outstanding Customer Service.

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## STS-AIChE Annual Awards

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### Matt Kolodney Receives South Texas Section – AIChE 2017 Lifetime Achievement Award



Matt Kolodney says a few words after receiving the South Texas Section – AIChE Lifetime Achievement Award

David Rosenthal, 2017 STS – AIChE Chair, presented Matt Kolodney with the South Texas Section – AIChE Lifetime Achievement Award.

The October 12 STS – AIChE Monthly Dinner Meeting held at the Moody Gardens Hotel in Galveston, Texas served as a venue to recognize Matt Kolodney as the latest Member of the South Texas Section – AIChE to be elected a Fellow of AIChE.

When Matt's Fellow nomination package was being prepared, it became apparent that he has held every STS – AIChE elected position except two (2) of the nine (9) positions. He has also held various AIChE Committee Positions including Chair of the AIChE Career & Education Operating Council (CEOC). He also has been one of the STS-AIChE's representatives to the Engineers Council of Houston (ECH) and was also elected to serve as the ECH President.

He continues to serve as the STS – AIChE's K-12 Outreach Chair and has taken over supervising/ coordinating the Section's efforts in the Houston Engineering Science Fair. In addition, Matt has been the STS – AIChE's official photographer since 2006.

Below is a partial list of Matt's achievements as summarized on the slides shown during the October 12, 2017 STS – AIChE Monthly Dinner Meeting:



## STS-AIChE Annual Awards

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Below is a partial list of Matt's achievements as summarized on the slides shown during the October 12, 2017 STS – AIChE Monthly Dinner Meeting:

### **Education:**

BSChE – Univ. of Virginia (1971)

MSChE – Univ. of Massachusetts/Amherst (1974)

### **AIChE Member since 1971**

### **AIChE Fellow (2017)**

### **Registered Professional Engineer in Texas**

### **Employers:**

Texaco, Inc. (1974 ~ 1978)

Davy McKee Corp. (1978 ~ 1982)

United Technologies Corp. (1983 ~ 1984)

Dynamac Corp. (1984 ~ 1988)

Hercules Inc. (1988 ~ 1989)

Lockheed Inc. (1989 ~ 1993)

Texas Commission of Environmental Quality (1994 ~ 2016)

### **STS – AIChE Elected Positions:**

STS Executive Committee Position 3 (1997)

STS Executive Committee Position 1 (1998)

STS Secretary (1999)

STS Treasurer (2001 - 2002)

STS Chair-Elect (2003)

STS Chair (2004)

STS Past Chair (2005)

### **STS – AIChE Committee Positions (Selected):**

STS ECH Representative ~ 2004 to present. (ECH Chair-Elect in 2006-7, Chair in 2007-8, & Past Chair in 2008-9)

STS's Official Photographer (2006 to Present)

STS Awards Committee (2006 to Present)

STS K-12 Outreach Chair (2012 to Present)

STS Registered Corporate Agent (2013 to Present)

### **AIChE Committee Positions:**

1997 -- Organized 2 National Meeting Sessions

2005 -- Organized National Meeting Session

2006 -- National Leadership Development Conference Programming Coordinator

2009 to 2010 -- CEOC Member

2010 -- CEOC Vice Chair

2011 & 2012 -- CEOC Chair

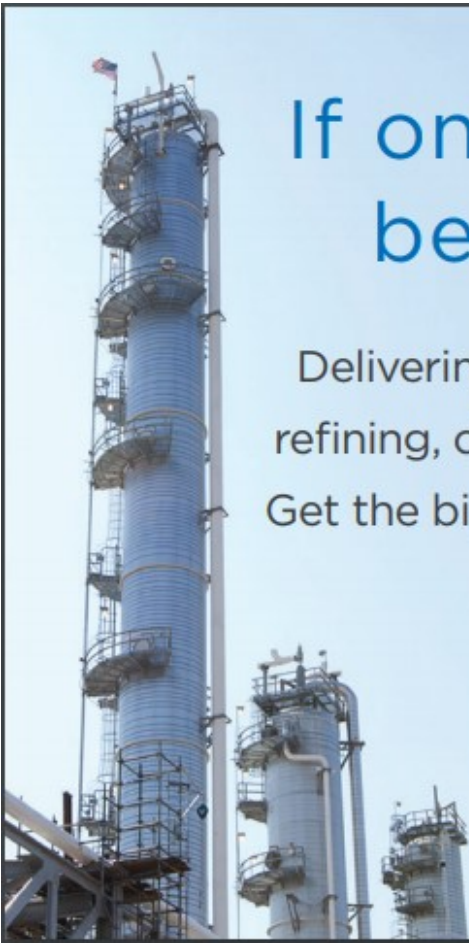
### **STS - AIChE Awards:**

1997 -- R. L. Churchwell Award (Environmental Programming)

2004 -- Chair Appreciation Award

2005 -- Distinguished Service

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## STS-AIChE 2017 Monthly Dinner Meeting Schedule

Date	Location	Meeting Details (Speaker/Company/Topic)
January 12	Brady's Landing	Julie D. White, SIS-TECH. <i>Improving Operational Resilience Using Dynamic Simulation</i>
February 2	Brady's Landing	The Oldest Bioreactor - Wastewater Treatment
March 2	Brady's Landing	Port of Houston Authority <i>State of the Port, Global trade, and Environmental Stewardship</i>
April 6	Brady's Landing	Energy Forum <i>Overpressure Protection</i>
May 4	Bougainvilleas	Good Engineering Practice for Emergency Relief System Design
September 7	Bougainvilleas	Process Safety
October 12-13	Moody Gardens	SPTC TBD
November 9	Bougainvilleas	Water Forum - Houston Subsidence District

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

The STS-AIChE Season Pass for the 2018 technical monthly dinner meetings is being offered for \$131.

The STS-AIChE Season Pass offers the convenience of a single sign-up and single payment for all eight technical meetings in the 2018 season. The meetings included are the January through May and September through November technical monthly dinner meetings. The December Social meeting is not included in the Season Pass. Season Pass holders also get priority sign-up for all special events. The schedule of topics and venues will be posted on the website ([sts.aiche.org](http://sts.aiche.org)) once finalized.

Season Pass holders are recognized as patrons on the STS-AIChE website 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.

## STS-AIChE 2018 Season Pass

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### General Comments

The STS-AIChE Season Pass offered the convenience of a single sign-up and single payment for all eight technical meetings in the 2018 season. Season Pass holders also received priority sign-up for all special events.

Season Pass holders receive a significant savings when comparing the on-site cost of the dinner meetings. No need to continue to monitor when meeting registrations are open. Save the hidden costs of multiple transactions and tracking the payments and reimbursements, if applicable.

### Frequently Asked Questions (FAQ)

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

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

#### **What if I cannot attend a dinner meeting?**

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

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

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

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

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

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

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

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

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

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## STS-AIChE 2017 Season Pass

### 2017 STS-AIChE Patrons

Name	Affiliation
Dale Embry	ConocoPhillips
Yurika Díaz Bialowas	Chemstations Inc.
David Rosenthal	Reliability Strategy and Implementation Consultancy, LLC
Erin Green Colaco	
Gary Miller	Air Liquide
George Redd	S&B Engineers
George Vourazeris	Air Liquide Industrial U.S. LP
Gus Georgetown	Stress Engineering Services
Irvin Osborne-Lee	Prairie View A&M University
Jack Chosnek	KnowledgeOne
Jeffrey Melland	Melland Consulting LLC
Matt Kolodney	
Morgan Reed	
Ravindra Saxena	
Sheena Reeves	Prairie View A&M University
Syamal Poddar	Poddar & Associates
Thomas E Menn	
Thomas Rehm	TERehm Consulting LLC
Travis Fixmer	Huntsman
Jordan Pearce	Process Systems Enterprise (PSE)
Dimitrios Georgis	Process Systems Enterprise (PSE)
Victor Edwards	VHE Technical Analysis
Ronald Lutz	Braskem America
Carol Schmidt	SGL Group
Joseph Ramey	Westchase Design, L.L.C.

## STS-AIChE 2017 Season Pass

### 2017 STS-AIChE Patrons

Name	Affiliation
Sanjay Sharma	Honeywell
Matthew Clark	Armstrong Engineering Associates
Trevor Rice	Chemstations
Phillip Purpich	Johnson Controls
Lawrence Chriswell	
Wendy Reed	
Paul Waits	
Julie White	SIS-TECH
Nicholas D'Ambrosio	En-Fab, Inc



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## **Job Inquiry and Posting**

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AIChE-STS will start a post listing chemical engineers seeking employment and companies to fill positions.

If you are a member seeking employment provide a few sentences of the position you seek and the email attached to your AIChE membership for the response. You will be listed anonymously.

If you are a company provide a few sentences of the job description you seek to fill and your contact information. You will be listed anonymously.

Contact STS Chairman David Rosenthal at [sts-chair@aiche.org](mailto:sts-chair@aiche.org) with this information.

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## South Texas Section Corporate Liaison Program

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

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

Responsibilities and benefits are listed in the table below.

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

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

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

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

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



## South Texas Section AIChE

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

*2017 Officers and Contact Information*

### Officers

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

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

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

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

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

### Executive Committee

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

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

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

**Position 4: Human Resources**  
Tom Rehm  
[sts-position4@aiche.org](mailto:sts-position4@aiche.org)

### Volunteers

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

### 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 2017

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

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### —— 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  
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## The South Texan Newsletter Crew

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

### Newsletter Editor

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Seeking Employment  
[kevin.r.allen7@gmail.com](mailto:kevin.r.allen7@gmail.com)

**Peta Williams**  
Velocys  
[peta.williams@gmail.com](mailto:peta.williams@gmail.com)

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