

# *The South Texan*



**Thursday, November 29, 2018**

Workshop Only Meeting @ Trini Mendenhall Community Center  
([1414 Wirt Rd, Houston, TX, 77055](#))

5:30PM - 6:55PM Workshop I

7:05PM - 8:30PM Workshop II

Check us out on [YouTube](#)!

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## December 2018 Workshop Only Meeting

The December 2018 Dinner Meeting will be a workshop-only meeting.

There will be two workshops:

- Workshop I: Energy targeting of chemical processes using Pinch Analysis

Speaker: Jimmy Kumana

- Workshop II: MILP Workshop

Speaker: Ravi Nath

The abstracts for each presentation and bios of the presenters are located on pages three through five.

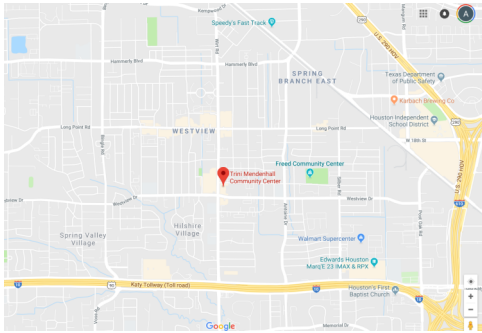
The December meeting starts at 5:30 PM at Trini Mendenhall Community Center. Drinks and snacks will be provided and registration is free.

[Register Now](#)

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## Meeting Location – Trini Mendenhall Community Center

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This month's meeting will be held at the Trini Mendenhall Community Center ([1414 Wirt Rd, Houston, TX, 77055](https://www.google.com/maps/place/1414+Wirt+Rd,+Houston,+TX,+77055/@29.755,95.455,15z))

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

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## Workshop I

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

**Title:** Energy targeting of chemical processes using Pinch Analysis

**Speaker:** Jimmy Kumana



**Abstract:** What is the potential for operating cost savings that can be achieved via improved energy efficiency while meeting corporate requirements for economically attractive payback? This is the question that can be answered through the “energy targeting” procedure first developed almost 40 years ago, which was initially called Pinch Technology, but has since become known more accurately as Pinch Analysis. Yet, despite having been successfully applied to thousands to process plants worldwide, the technique is still not widely understood, and unless the key step of Data Extraction is done correctly, the results can be very misleading.

The basic concept is to convert a multi-stream problem (several hot and cold streams) into a 2-stream problem (one composite hot stream and one composite cold stream) which is more easily amenable to mathematical solution. Step 1 is to establish an economically feasible optimized target for energy consumption/cost. Step 2 is to apply well-established heuristics to design a Heat Exchanger Network (HEN) that achieves this target – for both new plants and retrofits – along with the optimum mix of heating and cooling utilities required, and developing ideas for beneficial process modifications.

This workshop will focus exclusively on Step 1, showing how to construct the Composite Curves using a spreadsheet and establishing the Energy Target, with a preliminary introduction to Data Extraction techniques.

Although laptops are not required, attendees may bring their own laptop computers (pre-loaded with an electronic spreadsheet program such as MS-Excel™).

Training exercises (MS Excel™) and many relevant technical papers on the subject will be provided to the attendees on an USB flash drive.

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## Workshop I

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### Speaker Bio:

Mr. Kumana holds an M.S. degree in Chemical Engineering from the University of Cincinnati. He has more than 35 years of experience in the areas of process design and energy/water optimization. He worked for both manufacturing and engineering design companies before establishing Kumana & Associates, a Houston-based consulting firm specializing in process optimization techniques, including Pinch Analysis, Load Management, Variable Speed Drives for rotating machinery, System Performance Analysis via Simulation Modeling, and KPIs.

He and his company have been consultants to blue-chip chemical and Oil & Gas companies world-wide, including DuPont, Union Carbide (Dow Chem), Monsanto, Solutia (now part of Eastman Chemical), Lubrizol, Mitsubishi, SASOL, SABIC, Saudi Aramco, PetroChina, Pemex, ConocoPhillips, and Tesoro. He has also been a consultant to major energy utilities including EPRI, GRI, Southern Cal Edison, Southern Cal Gas, Xcel Energy, and Dubai Gas, as well as to the US Dept of Energy, Natural Resources Canada, the Egyptian Ministry of Petroleum and Minerals, the World Bank (IFC), and UNIDO.

Mr. Kumana has authored or co-authored over 70 technical papers and book chapters, and was the instructor for AIChE's course on Pinch Analysis for Heat Recovery Optimization for many years during the 1990s. For the past 7 years he has been teaching a course on Energy Efficiency Optimization in the Hydrocarbon Industries designed for plant engineers, offered twice a year in Houston.

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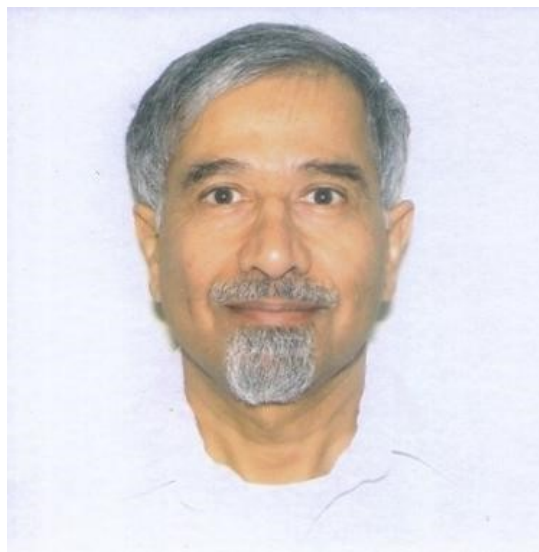
## Workshop II

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**Workshop starts at 6:30 PM:**

**Title:** MILP Workshop

**Speaker:** Ravi Nath, Founder, Nath Technology Solutions LLC



**Abstract:** In an earlier workshop [1], Mixed Integer Linear Programming (MILP) was introduced as a versatile method for optimization of production systems. Examples of both steady state, as well as dynamic models, were presented.

The objective of this workshop is to give the attendees an opportunity to learn by doing. All attendees will be encouraged to set up and solve simple but meaningful MILP models. The target production system is a simple boiler house. Built-in (MILP) Solver in Microsoft Excel will be used, so all are encouraged to bring their laptops.

[1] "MILP – a Versatile Method for Production Optimization", AIChE South Texas Section, December Workshop only Meeting, Houston, TX, Dec. 5, 2017

**Speaker Bio:** After 40 years of service to the process industries, Dr. Nath retired from Honeywell Advanced Solutions in June 2017. But before long, some of his former customers contacted him for help which prompted Ravi to start a consulting company to continue to serve the industry on a part-time basis. Prior to Honeywell, Ravi worked at Engineers India Ltd, Akzo Chemie USA, Union Carbide (now Dow), Linnhoff March and Setpoint / AspenTech. Ravi is passionate about applying innovative yet practical solutions to solve Real-Time Optimization problems. Ravi holds a BS from IIT, Kanpur and Masters and Ph.D. from the University of Houston; all in chemical engineering. Ravi has many publications and holds 3 US patents. Ravi is settled in Houston with his family.

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## December 2018 STS-AIChE Chair's Letter – Carlos Salamanca

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Hello South Texas Section,

STS AIChE held the 2018 Southwest Process Technology Conference back in October. It was a 2-day event full of presentations, workshops and vendor displays. The 2018 AIChE Annual Meeting took place in Pittsburgh. It was a well-planned and perfectly executed event. We had a great learning experience, ample networking opportunities and, most importantly, a lot of fun. A group of members and leaders from STS AIChE attended the meeting. We enjoyed the company and got to know one another better. It was an excellent team building environment.

The election for the 2019 open positions of the South Texas Section is accessible and we welcome individuals who want to make a contribution to our community. The STS AIChE Chapter is managed by a member-elected Board of Directors that is responsible for running the Chapter business. The Board's responsibilities include Chapter operations, staff and budget, setting strategic direction and defining annual targets in line with our mission. The Board also serves the community in the Houston area. As a section of AIChE, we serve Chemical Engineering professionals in the South Texas region with education, professional development, and networking.

I take this opportunity to introduce our new incoming Chair, Tom Rehm, who already has plans lined up for a great year in 2019. We can rest assured that he will lead STS with great talent in benefit of our community. On behalf of STS AIChE, I would like to thank volunteers, members, keynote speakers, presenters, attendees, sponsors and vendors for making it such a great successful 2018 year. My heartfelt gratitude goes out to the many talented and dedicated volunteers who contributed their time and effort to plan and execute many remarkable events. We want to thank all the attendees and volunteers who celebrated the STS-AIChE Diamond Jubilee Dinner Celebration. It was a great event where we saw different generations that have contributed to the area development. Thanks to all our student chapters leaders for their contributions. These top schools participate in many activities and we are proud of these future professionals.

Please take a moment to visit and subscribe to and like our Social Media groups, be part of them and contribute with material. It is an immediate and effective way of communication. Planning for the 2019 STS AIChE activities is in full swing. One of the legacies a leader can leave behind is a pipeline of leaders who are ready to take the organization to the next level. Step in and Volunteer. STS AIChE experienced volunteers will walk with you step by step to help achieve your leadership dreams! STS AIChE organizes several events every year which inspire our experienced and emerging leaders and help enhance their leadership skills and provide personal growth opportunities. They are open to all our members through the Chapter's volunteering opportunities. Our 2019 planning meeting will take place in December. I encourage members and non-members to reach out to one of our Board members to find out how you can become involved.

Happy Holidays and New Year 2019





## Monthly Meeting Sponsorship – Benefits

<b>Bronze (\$500 – \$1,000) Non-Exclusive benefits</b>	<b>Silver (\$1,000 - \$2,999) Non-Exclusive benefits</b>	<b>Gold (\$3,000+) Exclusive benefits</b>
<ul style="list-style-type: none"> <li>Sponsor Logo display in the Newsletter and in the meeting slide show</li> <li>Acknowledgement at the meeting</li> <li>“Sixty seconds of shameless self-promotion” at the dinner meeting</li> <li>Two complementary dinner tickets</li> <li>Invitation to recruiting events</li> <li>Social Media exposure</li> </ul>	<ul style="list-style-type: none"> <li>Bronze benefits above plus the following:</li> <li>A slide from the sponsor in the dinner meeting announcement slide</li> <li>A display table at the dinner meeting</li> <li>Two (2) additional complementary dinner tickets for a total of four (4)</li> </ul>	<ul style="list-style-type: none"> <li>Silver benefits above plus the following:</li> <li>Sponsor to designate the invited Speaker and suitable topic for the dinner meeting</li> <li>Company season pass (1)</li> <li>One (1) Booth at Energy or Water Forum Meetings</li> </ul>

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LEARN ■ CONNECT ■ LEAD

## Sponsors for 2018—Thank You



**Armstrong  
Chemtec Group**  
USA SCOTLAND SINGAPORE



**Chemstations™**

## STS-AIChE Newsletter Advertising

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Did you know that you could advertise in the STS-AIChE monthly newsletter? Here are the prices for the advertisements:

Add Size/ Number of Insertions	Quarter Page	Half Page	Full Page
	3 x 3.5 inches	7 x 4.5 inches	7 x 9 inches
1 issue	\$170	\$350	\$600
2 issues	\$325	\$650	\$1,100
3 issues	\$465	\$1,000	\$1,500
6 issues	\$825	\$1,800	\$2,800
9 issues	\$1,200	\$2,500	\$3,500

If you wish to advertise in the monthly newsletter, you can fill out a [registration form here](#). The submission deadline is the 15th of every month.

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In addition to the monthly newsletter, you can also advertise via E-blasts. The prices for advertising via E-blasts are as follows:

Monthly: \$600 - One E-Blast in a single month.

Bi-Weekly: \$1,000 - Two (2) E-Blasts in a single month

Weekly: \$1,750 - Four (4) E-Blasts in a single month

Here is the [E-Blast Registration Form](#).

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If you have any questions, please feel free to contact Yurika Díaz Bialowas via email at [sts-treasurer@aiche.org](mailto:sts-treasurer@aiche.org)

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## STS-AIChE Annual Awards

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### It's STS Awards Nomination Time!

Nominations are being accepted thru May 1, 2019 for the following STS Annual Awards:

- 2018 STS Best Applied Paper Award
- 2018 STS Best Fundamental Paper Award
- 2018 STS Best In Practice Paper Award **\*\*NEW!!\*\***
- 2018 STS Outstanding Young Professional Award (Under 35)
- 2018 STS Distinguished Service Award (Over 36)
- 2018 STS Special Service Award(s)

Nomination Forms are available in *The South Texan* or nominations may be made using the STS web-site (<https://www.aiche.org/community/sites/local-sections/sts/forms/sts-award-nomination-form>) or by contacting:

Matt Christiansen    281-544-6476    Matthew.Christiansen@shell.com

Tom Menn            281-485-3719    [ThomasMenn@SBCGlobal.net](mailto:ThomasMenn@SBCGlobal.net)

Ryan Stephens      281-544-8447    Ryan.Stephens@Shell.com

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## STS-AIChE Annual Awards

### South Texas Section – AIChE 2018 Annual Awards Nomination Form

THIS NOMINATION FORM MUST BE RECEIVED BY **MAY 1, 2019** TO BE ACCEPTED!

*Mail the completed form to:*

Thomas E. Menn	Or	Matt Christiansen, PhD	Or	Ryan Stephens, PhD
Awards Chair		Best Papers Judging Chair		Best Papers Judging Co-Chair
P. O. Box 458		Shell Projects and Technology		Shell Global Solutions (US) Inc.
Pearland, Texas 77588-0548		Technology Center		
		3333 Highway 6 South		
		Houston, Texas 77082		
Tel.: 281-485-3719		Tel.: 281-544-6476		Tel: 281-544-8447
<a href="mailto:ThomasMenn@SBCGlobal.net">ThomasMenn@SBCGlobal.net</a>		<a href="mailto:Matthew.Christiansen@shell.com">Matthew.Christiansen@shell.com</a>		<a href="mailto:Ryan.Stephens@shell.com">Ryan.Stephens@shell.com</a>

*Following receipt of the submitted nomination, you will receive an e-mail from the STS Awards Committee confirming receipt of the nomination after AIChE & STS Membership is verified. All Best Paper Nominees not Members of AIChE or STS -- AIChE may wish to join AIChE and/or STS -- AIChE before **May 31, 2019** in order to be eligible for the recognition due a STS – AIChE Member Best Paper Award Recipient.*

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

**NOMINATOR'S NAME:** \_\_\_\_\_

**ADDRESS:**

**STREET:** \_\_\_\_\_

**CITY:** \_\_\_\_\_ **STATE:** \_\_\_\_\_

**ZIP CODE:** \_\_\_\_\_

**TELEPHONE NUMBER: AC:** \_\_\_\_\_ **NO:** \_\_\_\_\_

**E-MAIL ADDRESS:** \_\_\_\_\_

I wish to nominate \_\_\_\_\_

(Enter Name of Nominee or Title of Paper on the above line.)

**ENTER CONTACT INFORMATION FOR NOMINEE OR AUTHOR:**

**NOMINEE or AUTHOR'S NAME:** \_\_\_\_\_

**ADDRESS:**

**STREET:** \_\_\_\_\_

**CITY:** \_\_\_\_\_ **STATE:** \_\_\_\_\_

**ZIP CODE:** \_\_\_\_\_

**TELEPHONE NUMBER: AC:** \_\_\_\_\_ **NO:** \_\_\_\_\_

**E-MAIL ADDRESS:** \_\_\_\_\_

## STS-AIChE Annual Awards

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

2018 STS Outstanding Young Professional Award (*Under age 35*) \_\_\_\_\_

2018 STS Distinguished Service Award (*Over age 35*) \_\_\_\_\_

2018 STS Best Fundamental Paper Award \_\_\_\_\_

2018 STS Best Applied Paper Award \_\_\_\_\_

2018 STS Best In Practice Paper Award **\*\*NEW!!** \_\_\_\_\_

For STS Outstanding Young Member or Distinguished Service Awards, please state the reason you feel that this person is deserving of this award back of this form and ignore the rest of the form. You may attach any supporting documentation to this form.

### For Best Paper Nominations

Please enter the name of the nominated 2018 Best Paper again:

\_\_\_\_\_  
(Sorry to trouble you but this is in case the sheets get separated.)

Enter the contact Author's name again:

\_\_\_\_\_  
(Sorry to trouble you but this is in case the sheets get separated.)

Check Best Paper Category Again:

Fundamental \_\_\_\_\_

Applied \_\_\_\_\_

In Practice \_\_\_\_\_

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## STS-AIChE Annual Awards

FOR BEST PAPER NOMINATIONS, LIST THE NAMES OF THE AUTHORS AND CHECK ALL BLANKS THAT APPLY:

### MEMBERSHIP

Note: At least one (1) author must be a STS Member.

AICHE    STS

Co-Author # 1: \_\_\_\_\_

Co-Author # 2: \_\_\_\_\_

Co-Author # 3: \_\_\_\_\_

Co-Author # 4: \_\_\_\_\_

Co-Author # 5: \_\_\_\_\_

Co-Author # 6: \_\_\_\_\_

Co-Author # 7: \_\_\_\_\_

Co-Author # 8: \_\_\_\_\_

Co-Author # 9: \_\_\_\_\_

[Add addition Authors on an attached sheet as necessary.]

For Best Paper Nominations, please provide following information:

NAME OF PUBLICATION: \_\_\_\_\_

DATE OF PUBLICATION: \_\_\_\_\_

VOLUME NO. (If known): \_\_\_\_\_ PAGES: \_\_\_\_\_ to \_\_\_\_\_

PLEASE ATTACH A COPY OF THE ARTICLE FROM THE PUBLICATION TO THIS FORM OR IF THIS IS NOMINATION IS TENDERED BY E-MAIL, PLEASE ATTACH AN ELECTRONIC VERSION OF THE PUBLISHED ARTICLE.

*Following receipt of the submitted nomination, you will receive an e-mail from the STS Awards Committee confirming receipt of the nomination after AIChE & STS Membership is verified. All Best Paper Nominees not Members of AIChE or STS may wish to join STS or AIChE and STS until May 31, 2019 in order to be eligible for the recognition due a STS – AIChE Member Best Paper Award Recipient.*

## 2019 Offshore Technology Conference - Volunteers Needed

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6 - 9 MAY 2019 at NRG Park, Houston, Texas, USA

Receive Free Pass\*, Parking\*, and all the free goodies/junk you can carry away! (\* *entire OTC*). *Note: You can attend Technical Sessions.*

Must volunteer before 10 April 2019 (estimated)

Attend Orientation Meeting (*mandatory*) & serve 4 hours in either Arrangements, Registration, or Student Tours, or “1<sup>st</sup> Timers” Lounge/Orientation.

Contact Tom Menn @ [thomasmenn@sbcglobal.net](mailto:thomasmenn@sbcglobal.net)

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## University Outreach Volunteer Request

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

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

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

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## Upcoming Events

### Spring 2019 PE Review Course for Chemical Engineering

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The STS-AIChE & the University of Houston will sponsor a Chemical Engineering Professional Engineering Review Course, Spring of 2019.

Exam Dates in 2019 are 1(Jan-Mar) 2(Apr-Jun) 3(Jul-Sep) 4(Oct-Dec).

The course will be held at UH from 4:00 to 7:00pm on Friday afternoons beginning February 1st through April 26. The cost for the course (not including books) is \$900 for non-members, \$650 for members of both National AIChE and STS-AIChE. We have continued to update the curriculum based upon feedback from the students over the past course offerings.

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

#### Resources:

[Texas Board of Professional Engineers \(TBPE\)](#)

[National Council of Examiners for Engineering and Surveying \(NCEES\)](#)

[Professional Publications](#)

**Testing Booklet:** Login to [www.ncees.org](http://www.ncees.org), Common Tasks/Useful Documents/Reference Handbooks/PE Chemical Reference Handbook

#### Books used in the course:

Available from Professional Publications:

Chemical Engineering Reference Manual for the PE Exam (CHRM7)

PE Chemical Sample Questions and Solutions

Six-Minute Solutions for Chemical PE Exam Problems (SXCH)

Available from NCEES: PE Chemical Practice Exam (ISBN 978-1-932613-52-0)

Reminder: January 19th is the course registration deadline. [Register here!!](#)

Check our website page "[PE Refresher Course Offered Spring 2019](#)" for more information

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## Upcoming Events

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### Nominations - STS-AIChE Board of Directors

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Nominations for the STS-AIChE Board of Directors are now being accepted.

Positions open for nominations are:

- Chair-Elect for 2019 (and to succeed to the Chair in 2020 and Past Chair in 2021).
- Treasurer for 2019 and 2020.
- Position 1 (Membership) for 2019-2020.
- Position 3 (Community) for 2019-2020.
- Position 4 (Human Resources). Term was 2018 and 2019. This position will be filled to complete the term for 2019.

The Nominating Committee is committed to developing a strong slate of candidates, and we need your help identifying members who are ready and able to serve on the Board. Nominations will be accepted through December 2, 2018. Please provide bio, picture, and a brief description of your action plan.

If you have any questions, please feel free to contact Carlos A Salamanca at [sts-chair@aiche.org](mailto:sts-chair@aiche.org) or by phone at (832) 419-1328

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## Upcoming Events

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### Elections - 2019 AIChE Board

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2019 AIChE Board Elections are coming up in December. Make a difference and make your vote count.

The South Texas Section- American Institute of Chemical Engineers (STS-AIChE) needs your vote to determine who will be on the Executive Committee for 2019. To enable members to make informed selections for the STS-AIChE election, candidate profiles are provided on the home page of the STS-AIChE website.

To be eligible to vote, you must be an active member and have paid your AIChE and STS-AIChE dues for 2018. 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 2019 membership. If you need additional assistance in order to complete the ballot please contact the Chair [sts-chair@aiche.org](mailto:sts-chair@aiche.org) or Past Chair at [sts-pastchair@aiche.org](mailto:sts-pastchair@aiche.org)

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## Upcoming Events

### AICHE - Company Tour at Lloyd's Register

A company tour of Lloyd's Register (LR) has been arranged for the Young Professionals. As part of the tour, the YPs will get to meet with the different departments within the company serving both upstream and downstream projects. They will also get a brief overview of the technical services that LR provides to its clients, in addition to the software tools used for conducting these services, etc. The YPs will have an opportunity to interact with LR employees and ask questions about the company, the work they do, etc. Refreshments will be provided.

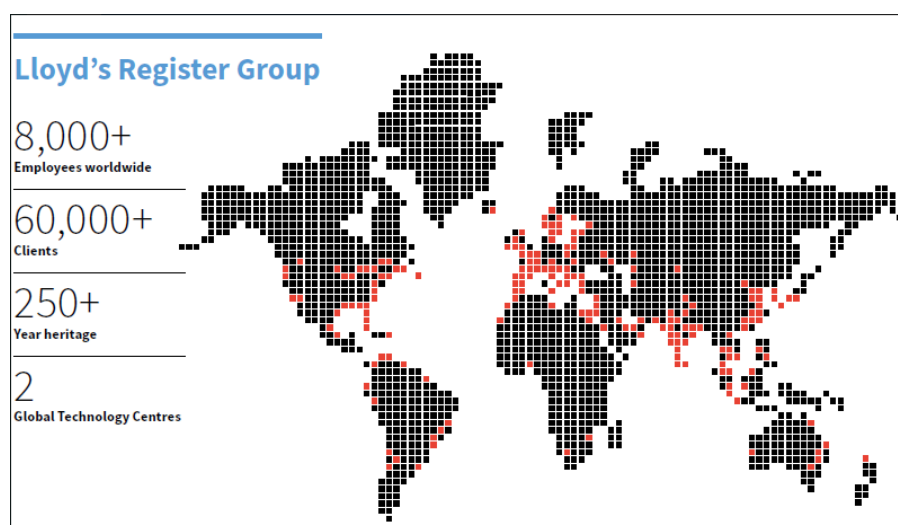
**When:** TBD

**Where:** Lloyd's Register: [1330 Enclave Parkway, Suite 200, Houston, TX 77077](https://www.lloydregister.com/en/about-us/locations)

Please respond via email at [sts-yp@aiche.org](mailto:sts-yp@aiche.org) so that we have a headcount of those interested and can arrange a suitable date.

Here's some brief information about Lloyd's Register:

Lloyd's Register started out in 1760 as a marine classification society. Today, LR is one of the world's leading providers of professional services for engineering and technology – improving safety and increasing the performance of critical infrastructures for clients in over 75 countries worldwide. The profit LR generates funds the Lloyd's Register Foundation, a charity which supports engineering-related research, education, and public engagement around everything we do. All of this helps LR stand by the purpose that drives them every single day - Working together for a safer world. LR helps businesses evolve, by connecting them with tomorrow's thinking, today. Combining deep technical and domain expertise, industry knowledge, and an empathy rooted in over 250 years' experience, LR exists to assure a better future for clients, customers and the world. For more info about LR, please visit their website at <https://www.lr.org/>



Contact Swarup Bade at [sts-yp@aiche.org](mailto:sts-yp@aiche.org) for additional information about the tour.

## Upcoming Events at a Glance

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### November

29	Education	Workshop Only Monthly Meeting
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### December

	Election	STS AIChE Internal Elections
1	Outreach	<a href="#">Bicycle Build with Cycle Houston</a> (SPE GCS)
TBD	Education	Interactive Workshops
1	STS	EXCOM and Winter Planning Meeting
7	Networking	First Friday Networking Meeting – Houston
21	Networking	Third Friday Networking Meeting – La Porte
21	Outreach	<a href="#">Houston's Children's Charity Toy Distribution Volunteering</a> (SPE GCS)

### January

10	Education	Workshops
10	STS	Monthly Meeting
17	STS	EXCOM Meeting
19	PE	PE Review Course Registration Deadline
20	Outreach	Chevron Houston Marathon®, Aramco Houston Half Marathon & We Are Houston® 5K

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## Past Events

### STS-AIChE Diamond Jubilee Celebration Dinner

The South Texas Section of the American Institute of Chemical Engineers celebrated its 75th anniversary with a great gourmet dinner on the evening of Saturday, November 3, at the Houston Racquet Club. The dinner was followed by musical entertainment provided by the NiteBeat Band, Houston's premier dance and variety band, and there were many other interesting activities throughout the evening. It was a glamorous evening of dinner, music, dancing, and socializing with STS-AIChE associates and colleagues.



## Past Events

### Energy Day

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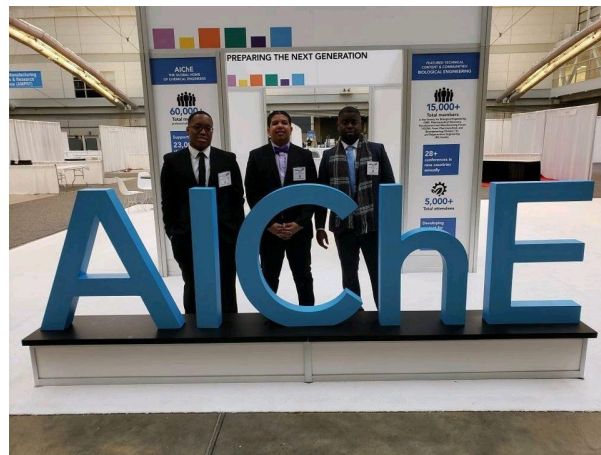
Carol Schmidt, Peta Williams, Pete Garside, Satiyajit Verma and Matt Kolodney (STS K-12 coordinator) participated in Houston Energy Day. We made artificial snow (a polymer) from powdered sodium acrylate and water, which react to form sodium polyacrylate. We also made molecular models from an organic chemistry kit. Finally, we had a great time with perhaps a thousand kids.

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## Past Events

### Student Chapter Involvement - October



Area student chapters (pictured University of Houston and Prairie View A&M University; pictures courtesy of LinkedIn) participated in this year's Annual Student Conference in Pittsburgh, PA. The conference featured activities on Saturday and Sunday that were tailored to the development of undergraduate chemical engineering students including informational sessions about the FE and PE exams, the importance of gaining experience before graduation, and effective interviewing skills. This conference also featured an executive panel to give students an opportunity to learn more about the various career paths of successful chemical engineers. The students provided questions using the Sli.do app and voted on their favorite questions. The questions receiving the most votes were asked to the panelists who were moderated by AIChE's Michelle Bryner, Lead Engineer, and Facilitation Process Manager.



Panelists included Ian Moore, Vice President, Silicones, WACKER Chemical Corporation; Sheena Reeves, Assistant Professor, Prairie View A&M University (Member of STS Executive Committee); Christine Seymour, Director, Global Regulatory Chemistry and Manufacturing Controls, Pfizer Inc. (AIChE President); Gregory Yeo, Chief Engineer, ExxonMobil Chemical Company. Featured in the photo (picture courtesy of AIChE's Gordon Ellis) is STS member Sheena Reeves with the Leadership Panel.

## Past Events

### Student Chapter Involvement

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Student chapter and university representatives from Prairie View A&M University, University of Houston, and Rice University (pictured) recently participated in the Diamond Jubilee celebration for STS at the Houston Racquet Club. Students enjoyed learning the history of one of the largest local sections in the country and the legacy of leadership among its members.

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## Past Events

### STS Young Professionals - AIChE Beer Brewing Competition

Congratulations to Chemstations, Inc. Brewing Team for winning the 2018 AIChE Brewing Competition Best Efficiency Process Award!

The team members consisting of three young professionals Eric Hubatch, Carla Lara and Trevor Rice; along with the company's Senior Engineers Yurika Diaz Bialowas, Aaron Herrick, and Alejandra Peralta, brew a pecan dark brown ale beer to represent the company's Texas roots.



Their process was optimized achieving 92% efficiency and rating the best efficient process in the competition. Their brew named Pilot Scale Pecan Ale has a mahogany brown color with a soft nutty characteristic and a delightful flavor. The team looks forward to representing STS AIChE in the 2019 beer brewing competition.





## STS-AIChE 2018 Meeting Schedule

Date	Location	Meeting Details (Speaker/Company/Topic)
January 11	Bougainvilleas	Process Safety
February 1	The Battleground Golf Course	Alignment, Engagement and Execution: Creating Strong Team Performance and Results –Or, How to Herd Cats!
March 1	Bougainvilleas	The Power of Modelling – Then, Now and Expected
April 5	Shafaii Hall and Garden	Energy Forum, Trends in LNG – Bigger isn't always better
May 3	Bougainvilleas	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.
September 6	Bougainvilleas	Uday Turaga, Founder & CEO of ADI Analytics North America: A future LNG superpower?
October 9	Moody Gardens	Southwest Process Technology Conference (SPTC) Matt Reisdorf, Department Manager of Process Technology, Fluor
November 1	Shafaii Hall and Garden	Water Forum. Workshop only, no dinner meeting
November 29	Trini Mendenhall Community Center	Workshops

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



**AICHE**  
American Institute of Chemical Engineers

## 2019 South Texas Section Monthly Dinner and Social Schedule

### **January 10, The Bouganvilleas, 12126 Westheimer Rd, Houston**

Mike Allison, Raptor Aerial Services

Drones, a new tool for industrial applications

### **February 7, Holiday Inn Houston NE – Bush Airport Area**

Andrew Smith, Sympatec

Advances in lab and process particle characterization

### **March 7, The Bouganvilleas**

Professor Mark Holtzaple, Texas A&M ChE Department:

Global warming: An engineering perspective

### **April 4 (in conjunction with the Energy Forum), Shaffai Hall, 1622 Federal Rd, Houston**

Professor Pavel Tsvetkov, Texas A&M Nuclear Engineering Department

Gen IV Nuclear

### **May 9, The Bouganvilleas**

Fanxu Meng, Houston Advanced Research Center

Extreme weather event resiliency

**June** – Ship channel cruise

**July** – Astros game

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

### **September 5, The Bouganvilleas**

Mike Foggia, Process Combustion Corporation:

Flameless thermal oxidation – Achieve 99.9999% DRE at < 2ppmv NOx

### **October 10 (in conjunction with the Southwest Process Technology Conference), TBD (southside of Houston)**

The presenter will be a significant celebrity with involvement in global warming solutions

### **November 7 (in conjunction with the Water Forum), Shaffai Hall**

David Drerup, Operational Sustainability

Best practices in PSM data management

**December** – Holiday Season Social

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

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

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The STS-AIChE Season Pass for the 2019 technical monthly dinner meetings is being offered for \$149.

The STS-AIChE Season Pass offers the convenience of a single sign-up and single payment for all eight technical meetings in the 2019 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.

This coming year features many great speakers and topics at our STS AIChE Dinner meetings. Our Season's Pass program is a great way not to miss a single meeting!

38 of our members enjoyed the benefits of our 2018 Season Pass program such as:

One price to attend all eight monthly dinner meetings for the price of seven!

No need to register in advance for each dinner meeting

Your get to own our limited edition attractive name badge!

Announcement of your participation at each meeting

Includes the SPTC STS AIChE Dinner meeting

The good news is that we are offering the season pass for \$149 per person, so there is no price increase for 2018. This coming year's meetings will feature different events and workshops.

So don't delay and sign up for the 2019 Season's Pass on our [website](#) by our first meeting on January 10th! We look forward to seeing you at each meeting.

Here's a link to the [2019 Season Pass Registration Form](#).

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## South Texas Section-American Institute of Chemical Engineers (STS-AIChE) 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 2019 season. Season Pass holders also received priority sign-up for all special events.

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

### Frequently Asked Questions (FAQ)

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

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

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

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

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

Even the most dedicated members cannot make every meeting. The season pass is priced assuming that you will miss a meeting. If you can provide at least a one week notice, by e-mailing the Chair-Elect at [sts-chairelect@aiiche.org](mailto:sts-chairelect@aiiche.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 2018 Season Pass

### 2018 STS-AIChE Patrons

Name	Affiliation
Travis Fixmer	Huntsman
Gary Miller	Air Liquide
Carlos Salamanca	SCG
Yurika Diaz Bialowas	Chemstations Inc.
Sanjay Sharma	Honeywell
Fabian Solberg	Eisenmann Corporation USA
David Rosenthal	RSIC
Ravi Saxena	ANR Consulting
Vic Edwards	VHE Technical Analysis
Trevor Rice	Chemstations Inc.
Gus Georgetown	Stress Engineering Services
Wendy Young	Chemstations Inc.
Syamal Poddar	Poddar & Associates
George Redd	Synergen Consulting
Dale Embry	ConocoPhillips
Thomas Rehm	TERehm Consultancy LLC
Joseph T. Ramey	Westchase Design LLC
Kamal Shah	IHI E&C International
Matthew Kolodney	Entech Engineering
Arnab Baksi	Bechtel Hydrocarbon Technology Solutions

Name	Affiliation
William Paul Waits	
Matthew Clark	Armstrong Engineering Associates
James Turner	Fluor
Julie D. White, P.E.	
Thomas E Menn	
George Duane Vouraceris, P.E.	Airgas Merchant Gases
Jordan Pearce	PSE
Dimitrios Georgis	PSE
Jack Chosnek	KnowledgeOne LLC
Maximo Salazar	
Nicholas D'Ambrosio	En-Fab Inc.
John Middleton	WorleyParsons
Helen Kester	Fitiri
YP	STS-AIChE YP Guest
Carol Schmidt	Wood
Erin Green-Colaco	
Larry Chriswell	Keelson Company
Jim Brigman	Ingenero Inc

## 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

*2018 Officers and Contact Information*

### Officers

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

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

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

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

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

### Executive Committee

**Position 1: Education**  
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**  
Aniket Patankar  
[sts-position3@aiche.org](mailto:sts-position3@aiche.org)

**Position 4: Human Resources**  
Jimmy D. Kumana  
[sts-position4@aiche.org](mailto:sts-position4@aiche.org)

### Volunteers

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

### SOUTH TEXAS SECTION MISSION STATEMENT

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

### Vision 2018

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

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

### — SUBSCRIBE/UNSUBSCRIBE INFORMATION —

Our newsletter subscription list is by invitation only.

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

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

### — MAINTAIN YOUR CONTACT INFORMATION WITH STS —

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

Contact the AIChE for PERMANENT ADDRESS CORRECTIONS:



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



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



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AIChE Customer Service Center  
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Danbury, CT 06811

## The South Texan Newsletter Crew

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

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

### Newsletter Editor

**Aniket Patankar**  
[sts-position3@aiche.org](mailto:sts-position3@aiche.org)

### Submit an article! Contact:

**Matt Kolodney**  
713-471-8956  
[MKolodney1@comcast.net](mailto:MKolodney1@comcast.net)

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