

The South Texan

2003 Marx Isaacs Award for Outstanding Large Section Newsletter



Special Notes

- Location: Park Plaza Hotel Reliant Center
- ExComm Meeting 4:30 PM
- Workshops 5 PM
- No Environmental Workshop this month
- Social Period 6-7 PM
- Dinner 7 PM
- Keynote Speaker 8 PM: Mr. Jeff Sirola, Eastman Chemical Company, 2005 AIChE President

Monthly Meeting May 5, 2005

Guest Speaker: Jeff Sirola, 2005 President of AIChE, Eastman Chemical Company

Topic: Sustainability, Stoichiometry, and Process Systems Engineering

There is much interest in environmental protection, greener chemistry, and the general notion of responsible sustainability within the chemical processing industries. But what does this mean, especially in the context of energy and the energy intensity of the chemical process industry?

Resource data and elementary process systems engineering principles are applied to help elucidate sustainability issues related to global economic growth trends, raw material choices for the chemical industry, the satisfaction of expected energy needs, and greenhouse gas impacts.

Reserve your space online at:

<http://www.sts-aiche.org/reservations/sts-aichereservations.htm>

Or call (713)-295-4847 to make reservations until 4:00 PM Tuesday May 3.



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May Workshops (See page 2 for details)

CAST: Basics of Computer security for the novice

Speaker: David Hill, Chemstations

Process Safety: Introduction to Layer of Protection Analysis

Speaker: Scott Sandler, Senior Consultant, SIS-Tech Solutions

Process Engineering/Plant Operation: Chemical Engineering in Chlor-Alkali Manufacturing

Speaker: Robert L. Zeller III, Ph.D., P.E., Technical Manager of Oxy Vinyls, L.P.

Environmental: No speaker scheduled.

May 2005 Workshops: Begin at 5 PM, Park Plaza Reliant Center

C.A.S.T. (Computing And Systems Technology): Basics of Computer security for the novice

Speaker: David Hill, Chemstations

Abstract: Most computer users don't understand how to protect themselves and their data from computer threats. Both computer usage and computer security have changed greatly in the last few years, it can be challenging to keep abreast of threats and countermeasures. This talk will begin with a discussion of the various forms of computer threats. Best practices for safe computing at home and the office will be taught. Specific security software (most of it free) will be recommended.

Bio: David Hill started working in systems administration 8 years ago. He is now a support engineer for Chemstations Software (authors of the CHEM-CAD Process Simulator suite). His principal work at Chemstations is chemical engineering, but he continues to dabble in network administration and information security. David has a BS in Chemical Engineering from the University of Houston.

Process Engineering/Plant Operations: Chemical Engineering in Chlor-Alkali Manufacturing

Speaker: Robert L. Zeller III, Ph.D., P.E., Oxy Vinyls, L.P.

Abstract: The purpose of the presentation is to review the technology of each step in the Chlor-Alkali manufacturing process, summarize some of the key uses of chlorine and caustic soda, and highlight important safety considerations of chlorine. The underlying engineering design principles will be highlighted along with numerous photographs of operating plants. Specific attention will be given to the basic electrochemical principles and operation of the chlor-alkali cell.

Bio: Robert L. Zeller III, Ph.D., P.E. is Technical Manager of Oxy Vinyls, L.P. for the one Chlor-Alkali and two Vinyl Chloride Monomer manufacturing plants in the Houston Area. He earned his Ph.D. in Chemical Engineering from Case Western Reserve University in Cleveland, Ohio, and received his M.S.Ch.E. and B.S.Ch.E. from the University of Akron in Akron, Ohio. He has received 10 Patents and has published over 25 refereed papers. He has over 15 years of chlor-alkali manufacturing, process engineering, and R&D experience.

Process Safety: Introduction To Layer of Protection Analysis

Speaker: Scott Sandler, SIS-Tech Solutions

Abstract: Layers of protection analysis (LOPA) is a powerful analytical tool for assessing the adequacy of protection layers used to mitigate process risk. LOPA builds upon well-known process hazards analysis techniques, applying semi-quantitative measures to the evaluation of the frequency of potential incidents and the probability of failure of the protection layers. This paper will provide an overview of the LOPA process, highlighting the key considerations. Additionally, a detailed example is provided to illustrate the application of LOPA during the PHA process.

Bio: Scott is a Senior Consultant with SIS-Tech Solutions. Scott has more than 15 years of experience in chemical engineering, including process design, operation and start-up technical support, and process risk management. He has conducted training in the concepts of integrating LOPA into the HAZOP process, and process risk management. Scott has a B.S. in Chemical Engineering from Rensselaer Polytechnic Institute and has received formal training in quantitative risk assessment and fault tree analysis at the Process Safety Institute.

Environmental Issues

No speaker is scheduled for the May 2005 Meeting.

Dinner Meeting Speaker Details

Speaker: **Jeff Sirola, 2005 President of AIChE, Eastman Chemical Company**

Sustainability, Stoichiometry, and Process Systems Engineering

There is clearly much interest in environmental protection, greener chemistry, and the general notion of responsible sustainability within the chemical processing industries. But what does this mean, especially in the context of energy and the energy intensity of the chemical process industry? In this presentation resource data and elementary process systems engineering principles are applied to help elucidate sustainability issues related to global economic growth trends, raw material choices for the chemical industry, the satisfaction of expected energy needs, and greenhouse gas impacts. Simple concepts from systems theory, chemical structure and oxidation state, stoichiometry, and thermodynamics are useful for screening among raw material and energy alternatives at present and going forward. Such analyses can provide significant guidance for evaluating and optimizing overall future sustainability performance of the chemical industry and the global energy sector.



Bio: Jeff Sirola is the 2005 President of the American Institute of Chemical Engineers and is a Technology Fellow in the Eastman Research Division of Eastman Chemical Company in Kingsport Tennessee where he has been for 33 years. He received a BS in chemical engineering from the University of Utah in 1967 and a PhD in chemical engineering from the University of Wisconsin-Madison in 1970. His areas of interest include chemical process synthesis, computer-aided conceptual process engineering, engineering design theory and methodology, chemical process development and technology assessment, resource conservation and recovery, sustainable development and growth, artificial intelligence, non-numeric computer programming, and chemical engineering education.

Jeff Sirola is an international program evaluator and past engineering accreditation commissioner for the Accreditation Board for Engineering and Technology. He is also a trustee and past president of CACHE (Computer Aids for Chemical Engineering Education), and a member of the American Chemical Society, the American Association for Artificial Intelligence, the American Society for Engineering Education, and the National Academy of Engineering. He has served on numerous National Science Foundation and National Research Council panels, and on the advisory boards of several journals and chemical engineering departments.

Dinner Meeting Registration

Register for the Dinner Meeting online at:

<http://www.sts-aiche.org/reservations/sts-aichereservations.htm>

The dinner is \$22 with reservation, \$24 without, 1/2 price if student, retiree, or unemployed.

Attendees of the Dinner Meeting will earn 1 PDH for the Texas Professional Engineer Continuing Education Programs. Remember to track your hours!

ExComm Meeting

The Executive Committee will meet from 4:30 PM to 6 PM Thursday, May 5, at the Park Plaza Hotel, Reliant Center.

Calendar of Upcoming Events

June 2, 2005

The monthly meeting will be the Annual Ship Channel Cruise. For more information, see Page 4 or visit: <http://www.sts-aiche.org/stsaichehoustonshipchanneltrip/>

The M/V Sam Houston will leave the dock at 6:00 PM sharp and return to the dock at approximately 8:00 PM.

September 2005

AIChE Activity resumes! The first fall monthly meeting is scheduled for September 1. Mark your calendars!

Annual Ship Channel Cruise Information

2005 ANNUAL STS-AIChE HOUSTON SHIP CHANNEL TRIP

6:00 PM, THURSDAY, JUNE 2

Once again, the South Texas Section will journey down the Houston Ship Channel in the fully air-conditioned M/V Sam Houston on the evening of Thursday, June 2. The M/V Sam Houston will leave the dock at 6 PM sharp and return to the dock at approximately 8 PM.

Barbecue and free beverages will be served which is intended to be enjoyed by one and all, so please bring your spouse or significant other. Lenox Barbecue will again be providing beef, chicken and rib barbecue dinners with all the fixings including beans, potato salad, cole slaw, pickles, and lots of jalapenos plus dessert for those who are still hungry.

Because the trip is intended for a technical organization, no children under the age of 16 are allowed. The cost of the trip, the barbecue, and the beverages (open bar) is only \$15.00. Because of the popularity of this annual trip and the limited space on board, we regret that we must impose a limit of only two (2) people per reservation. Also, people who fail to cancel their reservations by 12:00 noon on Thursday, June 2, to allow others who are on the wait-list to go on the cruise are subject to being charged for the \$15.00 per person cost.

Because of Port of Houston security requirements and the limited space available, reservations are required for the trip since the M/V Sam Houston can take only **65 people**. Please make your reservation preferably by logging onto the STS-AIChE Web site at <http://www.sts-aiche.org/> and following the links to the STS-AIChE Houston Ship Channel trip (*Next Month's Meeting*) or by calling the STS-AIChE reservations phone at 713-295-4847. Reservations will be accepted starting on the night of the Thursday, May 5, STS-AIChE monthly dinner meeting until 2:00 PM, Tuesday, May 31. **Attendees of the May 5 STS-AIChE meeting will get to sign up during the meeting.** When the reservations list is full, a wait-list will be started. Reservations can be canceled at any time up to 12:00 noon on Thursday, June 2, online on the STS-AIChE Web site or by calling the STS-AIChE reservations phone.

Please include the names and contact information including the telephone numbers or e-mail addresses for yourself and your AIChE membership number with your reservation so we can contact everybody to confirm all of the reservations and notify everybody in case the trip is cancelled. Remember: reservations will be accepted beginning with the Thursday, May 5, STS-AIChE monthly dinner meeting.

Each passenger must present photo identification such as a valid drivers license to show to the guard at Gate 8 and to the crew member before boarding the M/V Sam Houston. Names will be compared to the reservations list by the guard.

We hope to see you on board the M/V Sam Houston when we weigh anchor.

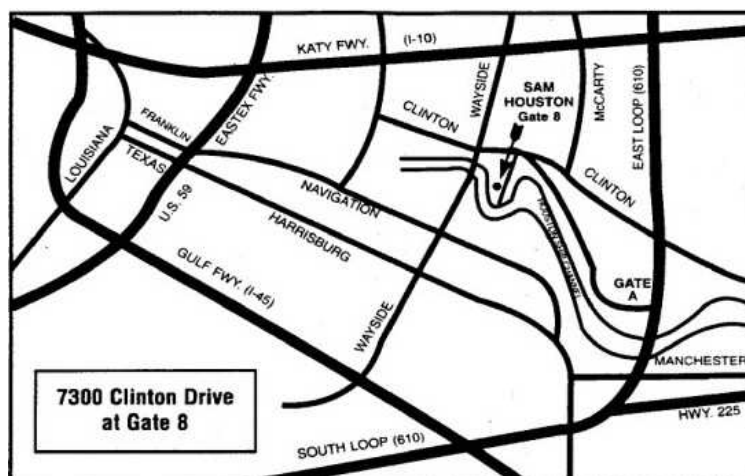
DIRECTIONS:

The parking lot access is through Gate 8 of the Port of Houston, 7300 Clinton Drive. Exit I-10 (Baytown East Freeway) at McCarty and proceed south on McCarty to Clinton Drive. Turn right on Clinton and proceed west to Gate 8, which has a signal light and is just before Wayside. Turn left and enter Gate 8, then proceed to the pavilion at the Turning Basin, staying to the right. Once there, park in the parking lot and join us on board the M/V Sam Houston.

DO NOT EXIT AND GO DOWN WAYSIDE; THERE IS NO STREET CONNECTION FROM SOUTHBOUND WAYSIDE TO CLINTON.

SECURITY NOTICE

Because of the increased security requirements at the Port of Houston, the annual STS-AIChE Houston Ship Channel Trip is subject to cancellation at the last minute by the Port of Houston Authority. If this happens, we will notify those with reservations and place a notice on our Web site, www.sts-aiche.org. Your understanding of this situation is appreciated.



OTC 2005 Save the Date and Agenda Input Request

Dear AIChE members;

First, thanks to all for their assistance in preparing for OTC 2005. We are on course for a great conference.

This is a 'save the date' and 'request for agenda input' notice for OTC 2006 planning.

As most of you are aware, we schedule our planning meeting during OTC to try and get as large a turnout as possible. We will be meeting **at the Reliant Center on Tuesday 3 May 05 from 4:00 - 5:30pm.**

In past years we have tried meeting in the morning before the show - and have experience some difficulties in getting into the facility. Hopefully the 4:00 pm start time will not cause undue problems. The main objectives for the meeting are:

1) Meet and greet. We communicate mostly via email, and this is one of the few meetings where we have a chance to get face-to-face. Without promises, it appears that our Director of Technical Programming, Mr. Joe

Cramer, will be able to participate. As such, we will also get a chance to meet Joe and get his latest updates.

2) Program development for OTC 2006

a) Update from OTC Program Committee with respect to schedule and general themes

b) Development of AIChE 'special session' topics

c) Development of AIChE 'luncheon' topics.

To the extent that you have ideas going into the meeting, please email me the topics and I will include them on the agenda. I will send out the detailed agenda with the room number around the middle of April.

For more information, Scott Rothchild is maintaining an OTC page on the AIChE website.

<http://www.aiche.org/conferences/otc/index.htm>

Best regards,

Art Schroeder - AIChE Subcommittee Chair

George Montgomery - AIChE Subcommittee Vice Chair

Announcements and Activities

Upcoming Technical Seminar:

May 17, 2005 "Pressure Vessel Designing for the 21st Century" given by John Curry and Howard Pouncy. Visit: <http://sts-aiche.org/index.htm> and click on the link "Details."

Registration deadline is **May 10!**

News from The Texas Industries of the Future

The Texas Energy Planning Council has finalized the "Texas Energy Plan 2005", which includes 10 recommendations to the Legislature on ways Texas can build a secure energy future. Recommendations range from clean coal to LNG to renewables.

You can see the report at <http://www.rrc.state.tx.us/tepc/>

The Texas Industries of the Future is holding several workshops in Houston, Austin, and other parts of Texas about combined heat and power at facilities and about utilities best practices.

Visit <http://sts-aiche.org/tiofnews.htm> for more information.

Energy Forum Presentations

You can download the presentations from the Third Texas Industrial Energy Management Forum at the website: <http://texasiof.ces.utexas.edu/>. The links are embedded in an Adobe Acrobat PDF document.

Distillation Symposium Recap– Page 1 of 4

Thanks to all who participated in or attended the Third Annual South Texas Section Spring Distillation Symposium on 14 April 2005. This year was probably the most successful in terms of attendance and satisfaction of the exhibitors, sponsors, and attendees. Thanks to the thirteen exhibitors and sponsors, who made the event possible. Net proceeds for the Education Fund will be slightly below last year's record for exhibitors and sponsors. As Henry Kister stated at the end of the Symposium, this was the largest single Distillation Event ever held in the Western Hemisphere. Hopefully, this will be a prelude to the National meeting returning to Houston in the Spring of 2007!

Special recognition to individuals in the following categories:

Speakers:

Dr. Ken Cox, Rice University
Mr. Lowell Pless and Dr. Simon Xu, Quest TruTec
Mr. Gail Hautsch, Koch-Glitsch
Mr. Daniel Summers, Sulzer Corporation
Mr. Henry Kister, Fluor Corporation

Exhibitors/(Sponsors):

AspenTech: Ven Pinjala
Codeware: Izzy Perez
Chemstations: Nathan Massey, David Hill, Stewart Schwab
Epcor International: Todd Willman, Bhavin Patel
HTRI (Sponsor): Dr. Fernando Aguirre
Mustang Engineers and Constructors (Sponsor): Mr. Ed Palmer
Quantum Technical Services: Chuck Winfield, Brenda Winfield
QuestTruTec: Lowell Pless, Simon Xu, Laura Lynne
Koch-Glitsch: Gary Vogt, Trung Quan, Gail Hausch
Rossiter & Associates: Alan Rossiter
Sulzer: Kevin Bennett, Dan Summers
Tracerco: Scott Vidrine
Virtual Materials Group (Sponsor): Gerald Jacobs

South Texas Section Volunteers:

Shane Tierling – Co Chair and PC Presentations
David Karesh – Treasurer and Attendance Records
David Silarski – On-Site Registration and Fee Collection
Tom Menn – Honors Awards and On-Site Registration
Tommy John – Honors Awards and On-Site Registration
Jim Murphy – On-Site Registration and Fee Collection
David Hill – Communications and Name Tags
Susan Cannon – New Volunteer Editor of The South Texan Online Newsletter and Distillation Symposium Program
Publicity
Karen Kabin – New Volunteer Webmaster – Distillation Symposium Program Publicity and On-Line Registration
Richard Newman – General Arrangements with Hotel for Audio Visual, Dais, Seating and Table Top Exhibits
Matt Kolodney - Event Photos

Honorees:

Mr. Henry Kister – Chemical Engineering Practice Achievement Award for 2005 Distillation Symposium
Dr. James R. Fair – Chemical Engineering Academic Achievement Award for 2005 Distillation Symposium (In Absentia)

Participants:

Frank Siebert – Contact and Arrangements for Dr. James R. Fair
Mr. Jose Bravo – Career Review and Recognition of Dr. James R. Fair and Mr. Henry Z. Kister
Mr. Donald D. Mulraney – Career Review and Recognition of Dr. James R. Fair and Mr. Henry Z. Kister
Mr. Tommy P. John – STS Honors Awards Presenter
South Texas Section Executive Committee – Career Review and Approval of Honors Awards

Jim Morris, Chairman
2005 STS Spring Distillation Symposium

Vital Links (Links within PDF file are not active)

Main South Texas Section site: <http://sts-aiche.org/index.htm>

National AIChE website: <http://www.aiche.org/> (Needs Flash Plug-in)

Earn CEP credits at AIChE functions: http://www.sts-aiche.org/Texas_PE_CEP_Rule.html

Download the CEP log form: http://www.sts-aiche.org/xls/STS-AIChE_CEP_Log.xls

Update your contact information: <http://sts-aiche.org/memberinfo.htm>

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Previous Newsletters (PDF format): <http://sts-aiche.org/newsletter/newsletter.htm>

Link to THIS newsletter: http://sts-aiche.org/newsletter/news_05/news0505.pdf

To Cut/Paste from within Adobe® Reader, click on the "Select Text Tool" in the toolbar section at the top of the document. Click and drag your mouse over any of these addresses. Let go, then right click and select "Copy to Clipboard." Go to your browser input line (where you type in the website address) right click, and select Paste. Then click Go or hit return. You can use the Back button on your browser to return to this newsletter.

Distillation Symposium Recap—Page 2 of 4

Refer to this website for papers from the Distillation Symposium:

<http://sts-aiiche.org/stdistsymp2005/stdistsymp2005r.htm>

Refer to this website for the abstract from the April 2005 Dinner Speaker:

http://www.exxonmobil.com/corporate/Citizenship/Corp_citizenship_energy_outlook.asp

Thanks to all of our exhibitors and sponsors!

Persons in photos are identified from left to right, followed by exhibitors not shown.



AspenTech
Ven Pinjala (Not shown)



Epcon International
Bhavin Patel
Chuck Willman (Not shown)



ChemStations
David Hill, Stewart Schwab
Nathan Massey (Not shown)



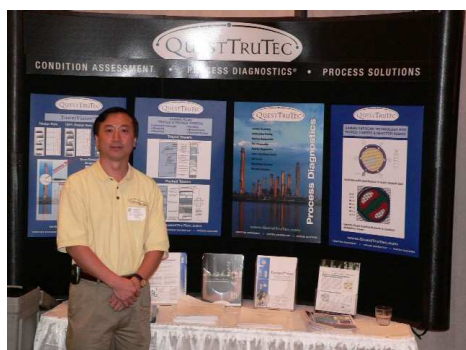
Codeware
Izzy Perez



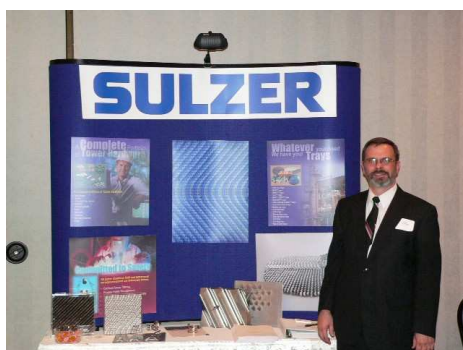
Koch-Glitsch
Gail Hausch, Gary Vogt
Trung Quan (Not shown)



Quantum Technical Services
Brenda and Chuck Winfield



QuestTruTec
Simon Zu
Lowell Pless, Laura Lynne (Not shown)



Sulzer
Dan Summers
Kevin Bennett (Not shown)



Tracerco
Scott Vidrine (Not shown)

Distillation Symposium Recap—Page 3 of 4



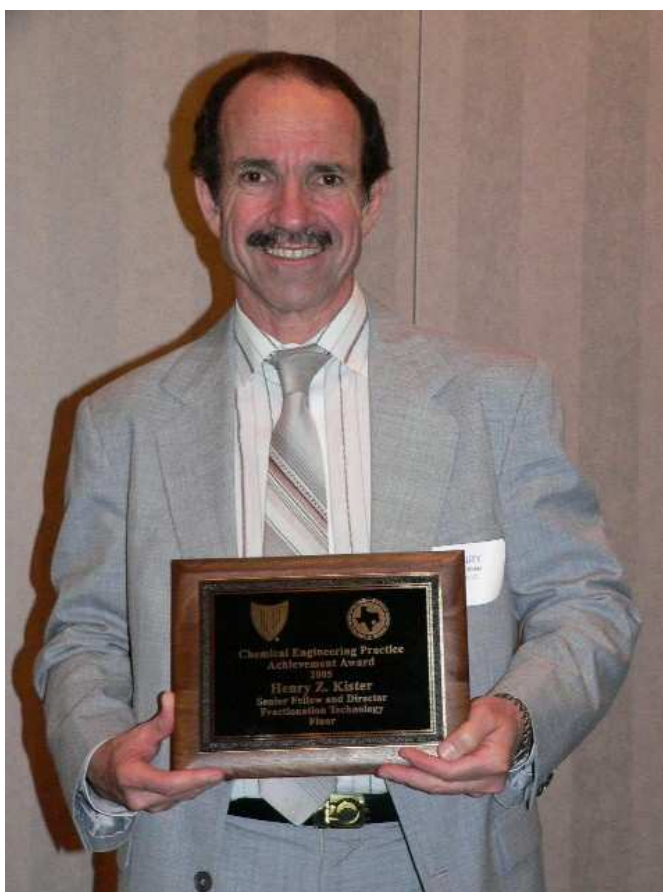
Rossiter & Associates
Alan Rossiter



Dr. Ken Cox of Rice University,
Session D1 Speaker



Tommy John presenting Henry Kister with his award of
Achievement



Mr. Kister and his award

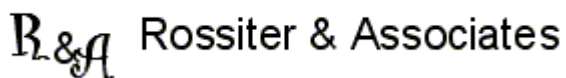


We hope to see you at next year's Symposium!

Distillation Symposium Recap—Page 4 of 4

Third Annual Spring Distillation Symposium – 14 April 2005

Corporate Sponsors and Exhibitors





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SOUTH TEXAS SECTION MISSION STATEMENT

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

Vision 2008

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

1. Increasing awareness of the South Texas Section of the AIChE
2. Improving relevancy of our programs
3. Improving our governance
4. Hospitality/Welcoming/Social

The South Texan is issued monthly, except June, July and August, by the American Institute of Chemical Engineers, South Texas Section. Opinions expressed are those of the authors and not of AIChE. The newsletter is published electronically.

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— MAINTAIN YOUR CONTACT INFORMATION WITH STS —

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

<https://www.memberconnections.com/olc/pub/CHM/>

To update your information, log in, then select Member Directory.

Select the link to View/Update Your Online Directory Listing.

Contact the New York office for PERMANENT ADDRESS CORRECTIONS:



xpress@aiche.org



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



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The South Texan Newsletter Crew

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

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

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