

The South Texan

2003 Marx Isaacs Award for Outstanding Large Section Newsletter



Special Notes

- **Energy Forum 4-6 PM**
- **Location: Brady's Landing Restaurant**
- No Workshops this month
- Networking 6-7 PM
- Dinner 7 PM
- Speaker 8 PM

Inside this issue:

Dinner Signup Details	2
Dinner Speaker Information	3
Outstanding Young Member Award	3
From the Chairman	4
Vital Links	4
Call for Volunteers - OTC	5
From The Editor	7
Leadership Development Conference	9
2006 Awards Deadline	10
Calendar of Events	10
2006 Southwest Regional Student Conference	10
Contact Information	12
Subscribe/Unsubscribe	12

Monthly Meeting April 6, 2006 Energy Forum Brady's Landing Restaurant

MOTIVATING ENERGY PERFORMANCE

The South Texas Section in conjunction with Texas Industries of the Future is hosting the sixth Texas Industrial Energy Management Forum before the monthly dinner meeting on Thursday, April 6, at Brady's Landing Restaurant. The Energy Forum will start at 4:00, and four speakers will present their views on "Motivating Energy Performance."

The Moderator will be Sean Diamond of Texas Petrochemicals LP.

Presentations:

Natural Gas Supply and LNG—How Much, How Long, and Can We Afford It?

Anne Keller, Jacobs Consultancy

The persistent high energy price environment, coupled with permanent damage to domestic production from the past hurricane season, has caused natural gas to be front page news for a long time now. Will LNG really help stabilize the Gulf Coast gas markets? What strategies can process industries use to cope when competing with buyers from other countries for feedstock and fuel?

Building a Corporate Energy Management Program

Gary Faagau, Tesoro Petroleum Companies

Getting started on building a corporate program in a company with multiple sites and limited resources is a challenge. Hear how Tesoro is doing it.

DuPont's Energy Dashboard

Paul Jagan, Energy Leader, DuPont Performance Materials

This presentation will address the system of metrics visible to operators and plant management. The dashboard depicts performance of energy-related operations and provides feedback on how to improve the metrics.

Corporate Energy Management: Toyota's Approach

Bruce Bremer, Manager for Facility Engineering, Toyota Motor Manufacturing North America
Toyota consistently achieves annual energy use reduction goals. Behind this success is a solid corporate energy management program supported by top levels of management and spanning all operations. Mr. Bremer will discuss how Toyota approaches energy management and provide insights into why the energy program is successful.

Questions & Answers will follow the presentations.

There is no cost for attending the Energy Forum; however, please pre-register for it on the Texas IOF website at <http://clearinghouse.ces.utexas.edu/tiof/4-6-2006-Forum.asp> so we can provide adequate facilities.

Funding for the Energy Management Forum was provided by the US Department of Energy, under a contract with the State Energy Conservation Office of the Texas Comptroller of Public Accounts.



Texas Industries of the Future

Dinner Registration Information

Make your dinner reservation online at:

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

You may also **cancel a reservation** using this link.

PHONE RESERVATIONS WILL NO LONGER BE ACCEPTED.

Attendees of the Forum will earn 2 PDH for the Texas Professional Engineer Continuing Education Programs. Remember to track your hours!

NEW FEE STRUCTURE

At the February Executive Committee Meeting, the dinner fee structure was revised. The new costs are:

\$25 - With Online Reservation

\$35 - Without reservation

\$15 - With online reservation for unemployed or student

\$25 - Without reservation for unemployed or student

NOTE THAT "RETIRED" IS NO LONGER INCLUDED IN THE DISCOUNTED PRICES.

The fee increase is required to accommodate the increased cost of the meetings, and to encourage use of the online reservation system.

April Location - Brady's Landing Restaurant, 8505 Cypress Street, Houston

The April 6 meeting will be held at Brady's Landing Restaurant. To use your own mapping program for exact directions, the address is 8505 Cypress Street, Houston, Texas 77012. The phone number is (713) 923-9488.

Energy Forum FAQ

Is it really free to attend the Forum?

Yes. The Forum is hosted by our own South Texas Section and Texas Industries of the Future. There is no cost to attend.

Can I attend the Forum then leave?

Yes.

Is registration required for the Energy Forum?

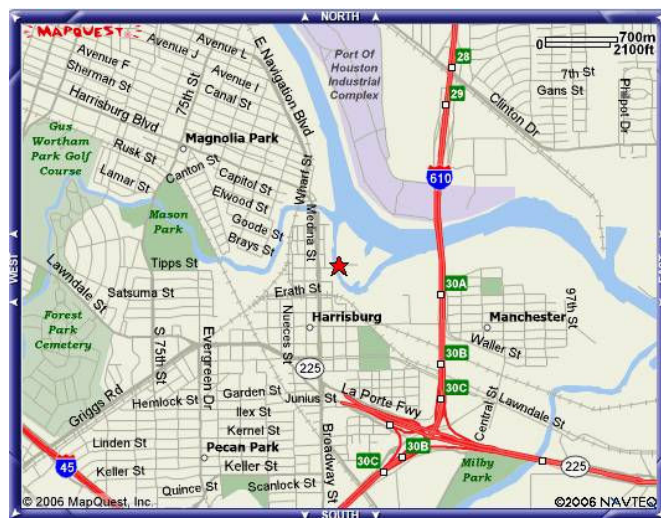
Yes, but only to ensure adequate seating is provided. Refer to Page 1 for the registration website.

Can I just come to the dinner?

Yes. The costs are as shown above.

Do I have to register for the dinner separately, even though I register for the Energy Forum?

Yes. See above for dinner registration information.



April Meeting Dinner Speaker

Speaker: Dr. Wade Adams, Director of the Richard E. Smalley Institute for Nanoscale Science and Technology at Rice University.

Topic: Can Science Save the World?!!! **Nanotechnology and Energy**

Abstract: Energy is both the single most important problem facing humanity today and a magnificent scientific and technical opportunity. We will need a minimum of ten terawatts (the equivalent of 150 million barrels of oil) per day from a new, clean energy source by 2050. Solving this problem will demand revolutionary breakthroughs in the physical sciences and engineering, particularly in nanotechnology. This talk will discuss the magnitude of the problem, some enabling nanotechnology revolutions that will be needed to address the problem, the people/workforce issues that impinge on the problem, and some thoughts on how to organize to solve the problem.

Bio: The Smalley Institute is devoted to the development of new innovations on the nanometer scale by coordinating and supporting nanoscience and nanoengineering research of over 90 faculty members. Some current thrusts include research in carbon nanotubes, nanoporous membranes, molecular electronics and computing, and diagnostic and therapeutic medical applications of buckyballs and nanoshells. The Smalley Institute is part of a major initiative at Rice to expand activities in nano, bio, info and enviro science and engineering, and to expand interactions with the Texas Medical Center through the Alliance for NanoHealth.

Dr. Adams retired from the US Air Force senior executive ranks in January 2002, as the Chief Scientist of the Materials and Manufacturing Directorate, Air Force Research Laboratory, Wright-Patterson Air Force Base, Dayton, Ohio. Dr. Adams was educated at the U.S. Air Force Academy, Vanderbilt University, and the University of Massachusetts.

For the past 33 years he conducted research in polymer physics, concentrating on structure-property relations in high-performance organic materials. He is internationally known for his research in high-performance rigid-rod polymer fibers, X-ray scattering studies of fibers and liquid crystalline films, polymer dispersed liquid crystals, and theoretical studies of ultimate polymer properties. He has written more than 200 publications on these topics, including several review articles and two edited books, has four patents (one licensed), and has given over 600 technical presentations. He is a Fellow of the American Physical Society and the Air Force Research Laboratory. Dr. Adams retired from the Air Force Reserve in the rank of Colonel in 1998.



Outstanding Young Member/Young ChemE Awards

The South Texas Section of the American Institute of Chemical Engineers selected Karen Susan (Coym) Kabin, Ph.D., to receive both the 2006 Outstanding Young Chemical Engineer and the 2005 Outstanding Young Member Awards.

Karen received the South Texas Section – AIChE's 2006 Outstanding Young Chemical Engineer Award at the Young Engineer of the Year Banquet on February 20, 2006 as part of the Annual Engineer's Week festivities. On March 2, Karen was presented the South Texas Section's Outstanding Young Member Award for 2005. The basis for these awards was her work on the STS Website and other Section activities.

Upon completing her BS in ChE from the University of Houston in May 2000, she worked for Lyondell-Citgo Refining and began working on her MS in ChE at the U of H, graduating in August 2001. Karen then pursued her PhD in ChE and an MBA concurrently at the Uof H. Her doctoral research studied economic ways of adsorbing and chemically reducing NOx from diesel engine exhaust using a catalytic process. Karen completed both her PhD and MBA in May 2005.

Karen then joined Kinder Morgan Energy Partners as a Senior Analyst in the Products Pipelines group. In this role she solves challenges related to transmix ("transportation mixture"), a by-product of refined products pipeline operations. The mixture is formed when a pipeline used to transport one product then transports a second product, resulting in an interface of two incompatible products. Karen's focus has been on optimizing current transmix separation operations and ensuring that the facilities have the ability to separate Ultra Low Sulfur Diesel (ULSD) from gasoline products.

Karen is the current Webmaster the AIChE South Texas Section, building on the experience she gained in school as the Chemical Engineering Department Webmaster.

In the future, the South Texas Section Outstanding Young Member Award will be known as the Outstanding Young Professional Award. This award is given annually to an STS member who has been involved in Section Activities and has not passed the age of 35 in the year that the award is presented.



STS Chairman Larry Chriswell presents Karen Kabin with the 2005 South Texas Section Outstanding Young Member Award

From the Chairman

How do you like the Newsletter? While a few members have trouble viewing it over dial-up, it looks great, thanks to the hard work of our editor, Susan Cannon. I hope you take the time to visit our web site each month as the newsletter and website are our primary tools of communication. The information flow goes both ways. For those of you who want to communicate with the rest of section, contributions are welcome. Talk it up among your associates – if you or they are not now getting the email notices and reminders and would like to be on that list, follow the instructions on Page 12 to sign up and make sure we have your valid and preferred email address.

Many thanks to Jack Chosnek and our panelists for the stimulating Process Safety Forum last month. Most of the attendees indicated that they thought it was worthwhile and wanted to repeat it, or another program on this subject, annually. We chose Brady's Landing for that meeting and this month's Energy Forum in part to make attendance a little more convenient for our refinery and plant members. National lists 3,056 AIChE members in our area – 68 attended the Process Safety Forum! As hoped, some of these were members who have not attended local section meetings in a while. However, I honestly thought that this topic of what works and what the individual chemical engineer can take responsibility for, would have been of interest to more of the rest of us chemical engineers.

Granted, it did not have the significance of the [2nd Global Congress on Process Safety](#) to be held next month in Florida, but it was free and a lot closer, and it was an opportunity your local section organized for you to interact and consider whether you are doing all you could to protect your company's investment, your workforce, and the public. I can only hope a lot more of you will be attending the Congress, doing your professional part to stay abreast of the standards and PSM practice.

"Whose job is it, anyway?" Process safety is the job of each and every one of us in the practice. Be satisfied with approaching or achieving 100% compliance and see your competitors who go the extra mile in approach and commitment pull ahead of your company's profitability. Expect a public fed up with continued serious accidents, which may lead to licensing of all engineers, not just those engaged in engineering design.

We are here to provide the programs you want. If we are not doing that, let us know, or better yet, get involved and help provide the leadership our industry needs.

Two of those who have recently stepped up to volunteer their time and skills to the South Texas Section are Shane Tierling, KBR and Alan Rossiter, Rossiter & Assoc. Shane was appointed treasurer for the balance of the two-year term vacated due to the election of David Karesh, Jacobs Engineering, to chair-elect. Alan was appointed to the vacant Position 4 on the Executive Committee. At a special ExComm meeting on March 2, they were nominated and approved to serve as section officers. Join me in welcoming them to our leadership team. I look forward to working with them as we strive to develop new programs and improve on the ones we have. Todd Willman, EPCON International, takes over the chairmanship of CAST from Shane; look for some new developments in educational opportunities offered by the CAST committee in the workshops coming up next year as he is working on some ideas to emphasize a 'professional development,' value-added approach we think many of you will find beneficial and attractive.

Lawrence I. Chriswell, P.E. (Larry)
2006 South Texas Section AIChE Chairman

Vital Links

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

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>

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

Link to THIS newsletter: http://sts-aiche.org/newsletter/news_06/news0406.pdf

Call for Volunteers - OTC AIChE Sponsor Society Booth

The Offshore Technology Conference is coming to Houston, May 1-4, 2006. It will be held at Reliant Center, Houston.

The South Texas Section has been asked to staff the AIChE Sponsor Society Booth. For agreeing to staff the AIChE booth for one-half (1/2) day, each volunteer will receive:

1. **One Complimentary OTC One Day Pass**
2. **Free Parking for the day served staffing the booth (*parking fee receipt required.*)**

To volunteer, please contact:

Tom Menn
281-485-3719
P. O. Box 458
Pearland, TX 77588-0458
thomasmenn@SBCGlobal.net

Call for Volunteers - 2006 OTC Arrangements Conduct Committee

The Offshore Technology Conference is coming to Houston, May 1-4, 2006. It will be held at Reliant Center, Houston.

The AIChE South Texas Section has been selected to staff the 2006 OTC Arrangements Conduct Committee. The Arrangements Committee has similar duties to session aides at our National and Annual AIChE Meetings which are:

- Attend a brief committee meeting with the Arrangements Committee Chair on the day of their assigned session.
- Pick up author and session chairmen gifts in the Speaker Ready Room and deliver to the session room prior to start of session.
- Thirty minutes prior to the start of each session:
 - Introduce themselves to the authors, audio-visual operator and technical session chairmen.
 - Determine that the required audio-visual equipment is available and functioning properly. A list of the equipment will be provided.
 - Familiarize themselves with the lights, maintaining appropriate lighting in the room
 - Direct session attendees to available seating.
- Report any issues regarding lighting, A/V equipment or ventilation to the Speaker Ready Room.
- At the conclusion of the session, return session attendance and A/V evaluation form to the Speaker Ready Room (forms will be supplied in advance).

For agreeing to serve as a member of the OTC Arrangements Conduct Committee for one technical session or one-half (1/2) day, each volunteer will receive:

1. **One complimentary OTC Registration**
2. **Complimentary Parking Pass for the OTC with In/Out Privileges**

To volunteer, please contact:

Tom Menn
281-485-3719

P. O. Box 458
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77588-0458
thomasmenn@SBCGlobal.net

or

Dave Pay
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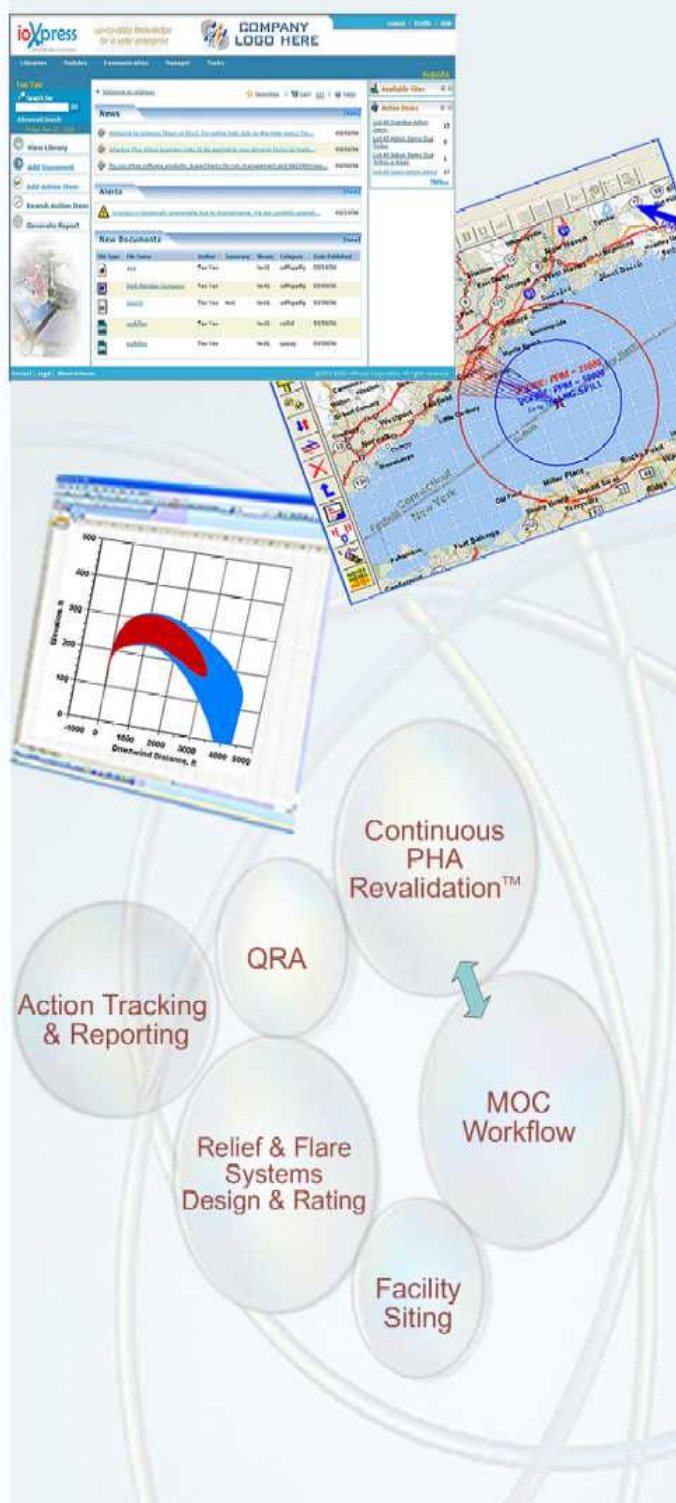
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From the Editor

What a fabulous time to be a chemical engineer!

It seems everyone is busy, busy, busy these days. In the E&C world, where I work, we're swamped to the borders. Projects are in the billions and billions* of dollars, larger than we've ever seen. The larger shops are so busy that the smaller shops are getting the overflow work of millions and millions of dollars, larger projects than *they* have ever seen.

All this work brings many opportunities to all of us. The energy market is booming, and the refining market is booming right along with it. With the demand for chemical engineers at a seemingly all-time high, salaries are also booming beyond imagination. New grads are getting multiple offers of so much money it's mind boggling. People are switching companies faster than ever before, to do the same work for more money.

We have some new ads in this month's newsletter for positions, and there was one more that didn't quite make the deadline. Chemical engineering employment is quite an active area!

But those of us who have been in this business for a while know all too well how cyclical it can be. We have to wonder, when will this boom peak? And what will be the long-term effect of all this salary escalation?

We might not be that far from it already. The material and construction shops are filled to capacity. Projects must either rush to reserve space in them, or risk getting delayed to the point where they may no longer be economically viable. In my younger days I didn't pay much attention to what was going on in the rest of the world. But with globalization being the new corporate buzzword, I've found that a butterfly flapping its wings on the other side of the planet really does have an effect on our every day lives and careers, the industry, and the global economy.

But in the mean time, before that butterfly flapping finds its way over here, I'll relish the high that current times are bringing our profession. It's the best time I've seen in (ha! Did you really think I'd confess my age here? No way!) years. It is such a nice feeling, and it seems like it was a long time in coming. I really hope it lasts quite a good long while.

Susan Cannon, Editor

SusanCannon119@aol.com or newsletter@sts-aiiche.org

*RIP, Carl Sagan! You are missed!

Submit an article or idea! Include your name and contact information (phone, email, or fax). Anonymous submissions will not be accepted. Your company name may be omitted if you prefer. Entries may be edited for length and content (grammar, punctuation, etc.).

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T11

2006 AIChE National Leadership Development Conference

The South Texas Section is proud to host the 2006 Leadership Development Conference. The conference brings together the section leaders from all over the country. Various issues concerning nonprofit organizations, the AIChE, and leadership are discussed.

It will be held June 2, 3, and 4 at the Doubletree Guest Suites Houston by the Galleria (5353 Westheimer Road, Houston, TX 77056). The sponsor is Pete Belmonte of Suez Energy Generation NA. Contact him at 713-636-1022 or peter.belmonte@suezenergyna.com for volunteer opportunities or more information.

Below is the preliminary program for the conference. All content is subject to change.

Friday June 2

10:00 – 5:00 LDC Registration / Hotel Check-In
 5:00 – 7:00 Social Hour
 7:00 – 8:30 Dinner
 8:30 – 10:00 Networking Time

Saturday June 3

7:00 – 8:00 Continental Breakfast
 8:00 – 9:30 Update from National AIChE Board
 9:30 – 11:00 Globalization Issues
 11:00 – 12:00 Nonprofit Org Issues
 12:00 – 1:00 Buffet Lunch & Networking
 1:00 – 2:15 Breakout Session I
 2:15 – 3:30 Breakout Session II
 3:45 – 5:00 Breakout Session III
 6:00 – 9:00 Dinner or Astros Game

Breakout Sessions:

Local Section Priorities
 AIChE National Focus Group Results
 Local Section Governance
 DISC review / discussion
 Organizing Fund Raising Activities
 Young Professionals Groups
 Volunteer Recruiting & Management

Sunday June 4

7:30 – 8:00 Continental Breakfast
 8:00 – 9:15 Breakout Session IV
 9:30 – 10:30 Breakout Session V
 10:45 – 12:15 AIChE Local Section Committee

Registration information will be available soon. We will inform you when it is available.



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2005 Annual Awards Nominations due March 31!

The deadline for nominations for the 2005 South Texas Section awards is March 31!

You can get the nomination form in the February or March newsletters. Click on <http://www.sts-aiche.org/news/news06/news0306.pdf> for details and a printable form.

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EOE/m/f/h/v

Calendar of Upcoming Events

Mark your calendars! Upcoming events are:

April 7-9	2006 AIChE Southwest Regional Student Conference
May 1-4	Offshore Technology Conference (Volunteer! See Page 5)
May 4	Dinner meeting: Awards night
June 2-4	Host National AIChE Leadership Conference
September 7	Resume monthly meetings

2006 Southwest Regional Student Conference

The University of Houston AIChE student chapter will host the 2006 AIChE Southwest Regional Student Conference April 7-9, 2006. The Regional Student Paper and Chem-E-Car Competitions will be held immediately after the Saturday BBQ. Students from each visiting university prepare entries and the winners travel to AIChE's Annual Meeting to compete against the first place winners in AIChE's eight other regions for the top national Prize. Attendees will also be invited to take part in plant and university tours.

For more information, contact Elizabeth Ngyuen at 832.722.2000 or email enguyen6@uh.edu.



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South Texas Section AIChE

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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



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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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