



Monthly Meeting November 1st, 2012

Central Location: Brady's Landing (Social Hour at 6 PM, Dinner at 7 PM)

Satellite Location: Rico's Mexican Grill, (Sawdust Rd location in The Woodlands) Social Hour at 6 PM; Dinner at 7 PM, Technical program at 7:45 PM

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Topic: What Should Chemical Engineers Know About Reliability and Maintenance?

Abstract: Manufacturers require a greater return on their assets to compete in the marketplace by having them produce the most, for the longest time, and for the lowest cost. Asset management methods, tools, and practices are applied throughout an asset's life in order to achieve these availability and operating cost goals. The strategies employed to achieve these goals are based on our understanding of machine failure mechanisms.

This presentation will introduce those to the field of reliability. It will cover the Myths and Facts around top performing sites, the major concepts such as the definition of function, hidden plant, bathtub curves, randomness of failure and the failure curve. The role of the chemical engineers in supporting the reliability of their facility will be discussed in the application of these concepts.

The presentation will also provide a view into the AIChE's "Moving Forward with our Strategic Plan" This Year's Performance, a report card on the progress of AIChE in 2012.

Bio: David Rosenthal, P.E. leads Reliability Delivery and Asset Management for Jacobs Engineering Group in Houston, TX where he implements practices to maintain their client's assets. He has been involved in Reliability and Maintenance for over 20 years. His previous positions included roles as Reliability Manager for Marsulex directing the operation of coke cutting, handling, and transport assets across five refineries. He held a previous position as a Maintenance Director with MEMC in Houston in Polysilicon manufacturing. As a Reliability consultant, David assisted LanXess which produces Butyl Rubber and Kellogg's in their Snack Foods Division in the development of their reliability programs.

The majority of his career was with the Rohm and Haas Company, a specialty chemical manufacturer. He was their Maintenance and Reliability leader in their Acrylic Acid facility in Deer Park, TX and a Manufacturing Manager leading their corporate Manufacturing Excellence deployment throughout its businesses. His role in their Corporate Asset Management group in the mid 90's developed the company's competency in Reliability and Equipment Utilization improvement. Assignments during his twenty-nine year career included process, project engineering and technical management roles in various facilities.

Dave is the 2012 President of the American Institute of Chemical Engineers. He has served on the National level as their Treasurer, Board of Director, and chair of various committees since 1990.



Workshops begin at 5:30 PM (Workshops are free and open to public)

CAST workshop

Speaker: Kevin J. Farrell

Shell-and-Tube Heat Exchanger Performance: Insights from Computational Fluid Dynamics

Abstract: Over the last decade, HTRI has used CFD to gain insights on the performance of shell-and-tube heat exchangers. While the computational domains are much more complex than the aerospace applications we often see in the commercial literature, if we prevail in the solution of the Navier-Stokes equations, the solution insights are particularly valuable for Obtaining uniform flow distribution, Reducing leakage streams, Assessing alternative baffle configurations, Reducing excitation for flow-induced vibration, Determining extent of stagnation and recirculation area, Two-phase flow and General troubleshooting

After a brief overview on the method, He will present several examples of CFD studies conducted by HTRI and describe how these were used to improve performance.

Bio: Kevin J. Farrell, Director, Research, graduated from Pennsylvania State University, State College, Pennsylvania, USA, with his BS, MS, and PhD in Mechanical Engineering. His areas of expertise include fluid dynamics, vibration, and thermal engineering. His responsibilities at HTRI focus on flow-induced vibration, computational fluid dynamics (CFD), visualization studies, and fired heaters. Prior to joining HTRI, he worked for 16 years as a researcher and deputy head of the Fluid Machinery Department of the Applied Research Laboratory (ARL) at Pennsylvania State University. A member of ASME and ISA, Farrell is a licensed Professional Engineer (PE) in Pennsylvania and Texas, USA.



ENV workshop

Speaker: Steve Ramsey

Opportunities in the Use of Optical Remote Sensing Technologies in Air Quality

Abstract and Bio: For over 20 years, Steve Ramsey has provided advisement and technical support services to a wide variety of private and public sector clients. His areas of expertise include optical remote sensing, air quality planning and management, New Source Review (NSR) permitting, Title V operating permits, assessment and implementation of federal point source emission standards, emission estimation, Texas State Implementation Plan development and implementation and compliance auditing. He has been involved in several ground-breaking projects. One project used open-path techniques to measure fugitive emissions, including the use of differential absorption LIDAR (DIAL) to survey emissions from two large, complex petroleum refineries. Another project comprised the year-long use of fourier transform infrared (FTIR) in a vertical radial plume mapping (VRPM) configuration to measure fugitive VOC emissions from a delayed coker. Steve has a BChE in chemical engineering from Georgia Tech, and an MSE in environmental engineering from the University of Central Florida. He is a registered professional engineer in the states of Florida and Texas, as well as a board-certified environmental engineer with the American Academy of Environmental Engineers.

Meeting Registration Information

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

	Pre-Registration Members	Pre-Registration Non-Members	At the door Members	At the door Non-Members
Regular/Retired	\$25	\$30	\$35	\$40
Student/unemployed	\$15	\$20	\$25	\$30
North Houston satellite meeting location	\$18	\$18	\$20	\$20

NOTE: You have until 4 PM CST on October 31st to pre-register online. After that, you will be required to pay the higher cost at the door.

Pre-registration for the main and Satellite meeting is now open through our website at:

<http://sts.aiche.org/>

Meeting Location—Brady's Landing



This month's meeting will be held at [Brady's Landing Restaurant](#) (8505 Cypress St, Houston, TX - 77012). Double click on the map to the left for directions from your location. The satellite meeting will be held at [Rico's Mexican Grill](#), (Sawdust location) at 314 Sawdust Rd, The Woodlands, TX, 77380. Double click on the map below for directions. This location provides a quiet, private room upstairs for meeting. More details are included in the next section below.

North Houston Satellite Meeting Information

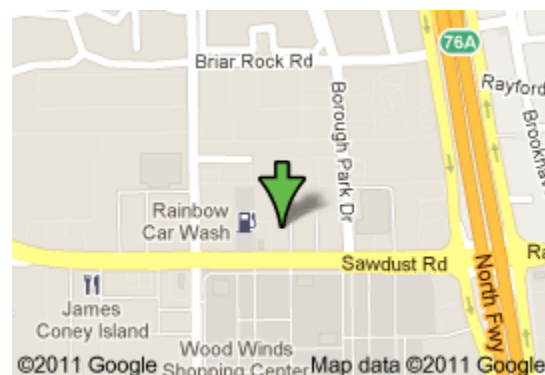
Join us without driving too far for some local networking at The Woodlands/North Houston satellite meeting! We have our own social/networking program.

Due to the wonders of modern technology we have access to the great speakers provided by STS. This month's meeting Thursday, Nov. 1, will once again be at Rico's Mexican Grill at 314 Sawdust Rd, The Woodlands, TX, 77380 (<http://ricosgrill.com/locations.php>). On-line pre-registration is available but not required. Order your dinner off the restaurant menu. Contact Ken Walter or Chris Tagoe (kk.walter@comcast.net or cctagoe@yahoo.com) with questions or special needs. Guests are welcome, please spread the word!

Schedule:

- ♦ 6:00 PM Social hour. (order off the menu)
- ♦ 7:00 PM Dinner. Order off the menu
- ♦ 7:45 PM Remote tie-in with STS-AIChE technical program
- ♦ \$18.00 in advance/ \$20.00 at the door

All guests are welcome!



November 2012 AIChE STS Chairs Letter – James Turner

Well we have had a busy month, and I have a feeling things will get even busier as we head into the holiday season.

In October, we held the very successful 4th Regional Process Technology Conference at South Shore Harbour in League City. Thanks to excellent efforts by Alan Rossiter and the team at AIChE HQ, we had more conference sponsors than ever before! This helps keep the cost of the conference to attendees at an extremely competitive cost. As before, there were many excellent technical presentations, and good opportunities for networking as well. Thanks to everyone that volunteered, including the Session Chairs and Speakers, to make this a very successful conference. Particular thanks go to Alan Rossiter, who was the Conference Chair, and Jayce Mathews, who was the Programming Chair.

Our October Dinner Meeting was held in conjunction with the Regional Process Technology Conference, and was sponsored by Saudi Aramco. Saudi Aramco was planning to provide the dinner speaker, but due to some last minute logistics difficulties, he was not able to attend. So I put together a presentation of two design challenges that I had been involved with on past projects. This was similar to a presentation I had put together at the last minute for the 2011 RPTC about two other past designs that did not work properly, and what we did to fix them.

I know a lot of people enjoy hearing “war stories” about solving operating problems. There are probably many of our members that have stories that would make good presentations for a workshop, Process Technology Conference, or dinner meeting. If you believe you have good stories to present, let me know and we will see which forum fits best.

In November, we are pleased to announce that the David Rosenthal with Jacobs Engineering, and current AIChE President, will be our Dinner Speaker. His presentation is titled: “What Should Chemical Engineers Know About Reliability and Maintenance?” I’m sure it will be a very interesting and informative presentation.

We are already working on plans for an exciting set of spring meetings. Gary Gildert (Chair-Elect, and Chair starting in January) has been working hard to come up with interesting speakers, to talk about subjects of general interest. We are even considering a few new venues that I think will be great interest to our members.

Based on the success of the Process Technology Conference the last four years, we are moving ahead with plans for the 2013 conference. We have decided to go back to Moody Gardens on Galveston Island for 2013, and have set the date at Oct. 3 & 4. Since AIChE is looking to promote other regional conferences, we are re-branding our conference as the Southwest Process Technology Conference, or SPTC. Alan Rossiter has agreed to be the Conference Chair again in 2013, and he is working now to build a team to make 2013 even better than the previous years. If you are interested in helping with the conference, please let me or Alan know.

Lastly, please don’t forget to vote in our annual elections! Ken Cox and the Nominating Committee have put together a strong list of candidates. You can submit a ballot in person at the November meeting, by mail-in ballot, or by e-mail. Please only vote once! We match the ballots against the member list, and it makes extra work for David Karerh and the Tellers Committee to sort out people that have voted more than once!

I hope to see you at one of the upcoming meetings. If I haven’t met you, come up and introduce yourself!

Best Regards,

James Turner

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December Social Meeting - Organized by STS-YP's

The Young Professionals have been planning a great December meeting. We welcome AIChE members and their significant others to join us at one of Houston's most recognized landmarks: the Downtown Aquarium. The aquarium is the product of redeveloping two downtown Houston landmarks – Fire Station No. 1 and the Central Waterworks Building. There will be a guided tour of the aquarium, a fantastic dinner, and a cash bar.



Saudi Aramco Sponsors October 4 Monthly South Texas Section Dinner Meeting.

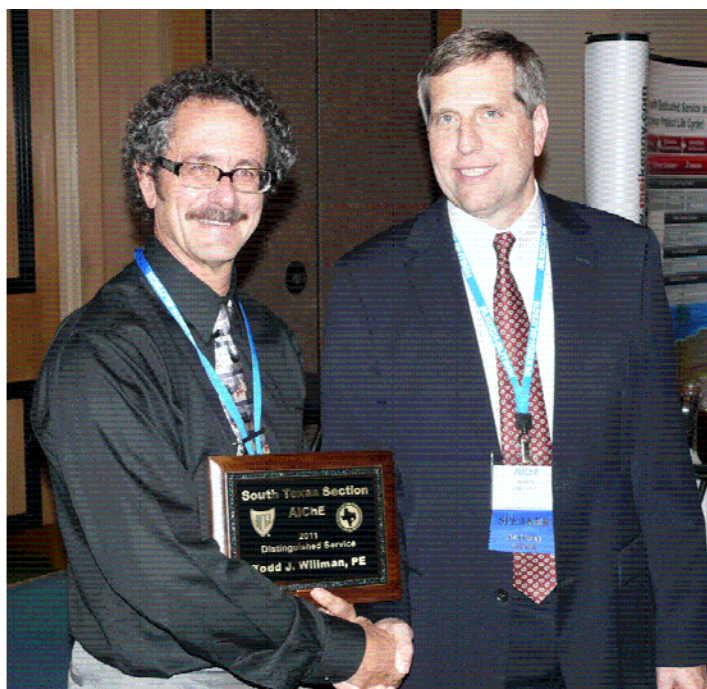


South Texas Section Chair James Turner (L) presents the Meeting Sponsor Recognition Plaque to Henry Martinez (R) who accepted the Plaque for Saudi Aramco.

Todd J. Willman Receives the 2011 South Texas Section Distinguished Service Award

Todd Willman received a BSChE from Miami University in 1978 and an MBA from Georgia Tech in 1979. He currently is the Founder of EPCON International and is its Director of Software Development for EPCON Software products (Engineer's Aide SiNET, API Technical Data Book, and the GPA Data Bank) since 1985. Todd has authored 6 patents in the fields of thermodynamics, simulation software, and energy exploration. He is also the Director of Engineering for EPI Engineering (founded 2001).

As STS Chair, Todd strived to develop closer relationships with key employers in the greater Houston area and introduced the concept of sponsored meetings that more than doubled monthly meeting attendance. He developed the 1st AIChE Regional Process Technology Conference in 2009 to extend the outreach of STS locally while significantly increasing local section income and cash reserves. These improved meetings and content helped to achieve a strong resurgence of participation in AIChE by young chemical engineers who also became more involved by participating in a number of AIChE leadership positions. When Todd was STS Past Chair, he helped to develop and provide a 30 hour PE Exam review course that the majority of participants have successfully passed their PE exam to further the value of STS membership to young professionals.



Todd Willman (L) is congratulated by STS Chair James Turner (R) after receiving the 2011 South Texas Section Distinguished Service Award.

AIChE South Texas Section Future Meetings & Speakers

Meeting Date	Location	Sponsor	Speaker	Topic
November 1, 2012	Brady's Landing	TBD	Dave Rosenthal, Jacobs	What Should Chemical Engineers Know About Reliability and Maintenance
Dec 6, 2012	Aquarium/Downtown	NA	NA	NA

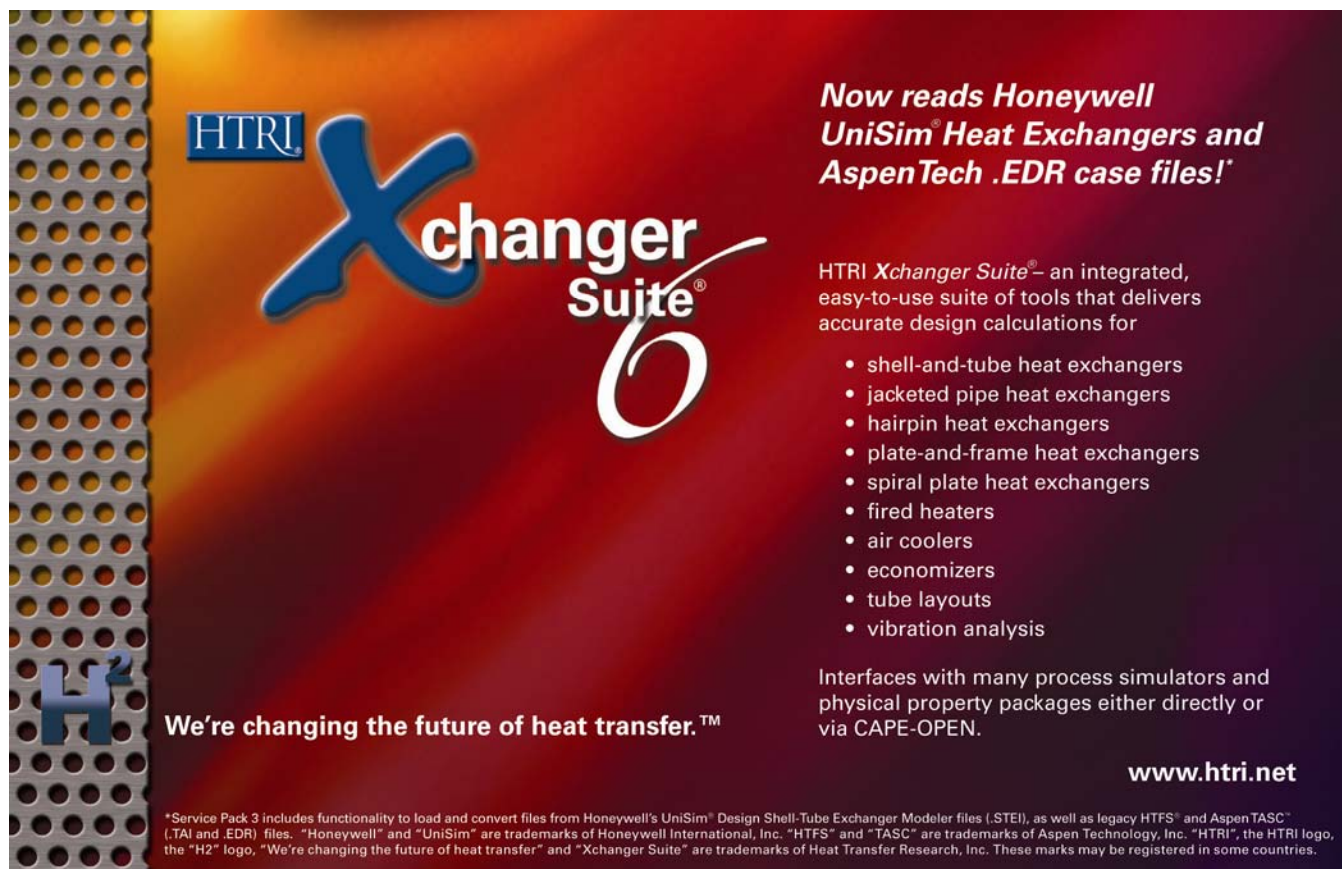
Kelly Richardson Receives 2011 South Texas Section – AIChE Outstanding Young Professional Award

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

Kelly has been very active in AIChE, this year serving as Secretary for STS-AIChE (2012-2013 Term). She was Chair of the STS-AIChE Young Professionals in 2010. Kelly has received the 2011 STS Young Chemical Engineer of the Year. She served as a Nominating Committee Member (2010) and the Process Technology Conference Chair (2010). Kelly also received AMEC Paragon's 2010 Silver Bullet Award in Recognition of Outstanding Customer Service.



Kelly Richardson (L) accepts the South Texas Section – AIChE Outstanding Young Professional Award from STS Chair James Turner (R).



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Vic Edwards Receives 2011 South Texas Special Service Award



Vic Edwards (L) received a 2011 South Texas Section Award for his work with the PSM Workshop and serving as STS Chief Information Officer. The Award was presented by STS Chair James Turner (R).

Anand Nilekar Receives 2011 South Texas Special Service Award



Anand Nilekar (L) has been relentless in his efforts as Best Papers Awards Chair, encouraging participation in the STS Best Papers Contest since 2010 and has served as a Judge before that. Anand was presented the 2011 South Texas Section Special Service Award by STS Chair James Turner (R).

Volunteers Needed for Future City Competition

Future City needs mentors for students competing in the competition. The mentors are needed now and the competition is **January 19th** at San Jacinto College.

The time commitment and mentor requirements are:

Minimum of a couple of hours; maximum as much as they want to get involved. Mentors can be engineers, technical professionals, or others who work in the engineering community. The goal is for the mentor to talk to the group, inject engineering concepts/principles and give them some ideas. The following link is a good source of information <http://futurecity.org/getting-started/overview>

Please email JR Reddish (hjreddish@sbinfra.com) and Sami Khaleeq (systemcrypt@gmail.com), if you are able to

Nathan Schmidt Receives 2012 Valued Friend of the South Texas Section – AIChE Award

The October 4 STS Monthly Dinner Meeting was unusual as a STS Non-Member or AIChE was recognized as a Valued Friend of the South Texas Section Award. Nathan Schmidt has worked tirelessly on behalf of the STS especially in the Young Professionals Committee by hosting YP OTC “Goodie Bag” Parties (for the Teachers and HS Seniors who visit the OTC on Thursday) in his home, helping to stuff the bags, and storing the bags and contents his home until Thursday of the OTC. The STS would like to express its deep appreciation to Nathan Schmidt (BSME UH) with the 2012 Valued Friend of the South Texas Section Award. By the way, Nathan’s better half is the past STS Secretary Carol Schmidt.



Nathan Schmidt (L) accepts the Valued Friend of The South Texas Section – AIChE Award from STS Chair James Turner (R).

K12 Volunteer Opportunities

AIChE and STS are working to start up K12 outreach programs. We are encouraging STS members to attend various local outreach events and report back to STS and AIChE on their experience. We are encouraging STS members to report back to Matt Kolodney (mkolodne@tceq.state.tx.us) with one-page descriptions of their K12 outreach experiences, what worked well and what didn't. These will be reviewed locally and passed on to the AIChE National K12 program. Some local K12 opportunities are listed below.

HUNSTEM web site: <http://hunstem.uhd.edu/> Already has a wide range of educational resources for use by interested teachers and volunteers. AIChE (national) is encouraging cooperation with organizations such as HUNSTEM.

IEEE http://www.ieee-houston.org/Committees/SAC/Brochure_IEEE%20Houston_7_Oct_2007.pdf This ongoing Houston Area program assists local schools with teacher training demonstrations.

SEFH <http://hunstem.uhd.edu/SEFH/> Science and Engineering Fair of Houston

Houston Museum of Natural Science (<http://www.hmns.org>) has ongoing outreach programs and could use more volunteers.

The Houston Children's Museum (<http://www.cmhoustan.org>) also has outreach programs.

For more information, contact Matt Kolodney (713-471-8956) or mkolodne@tceq.state.tx.us.

2011 STS Best Paper Awards Judging Committee

The 2011 South Texas Section - AIChE Best Papers Competition had a total of eleven papers submitted with five in the Applied category and six in the Fundamental category. The papers were judged by a Committee chaired by Anand Nilekar and Saurabh S. Chaugule of Shell (Westhollow Research Center) and composed of the following judges:

Zhongxin Huo
Raney Kirk
John Lockemeyer
Paul McAllister
Kartik Ramanathan
Esther Vermolen

Sanjeev Joshi
Ann Lauritzen
Joseph Mayne
Brendon Murray
Rituparna Sarkar

The South Texas Section – AIChE wishes to thank all those who participated in the completion and all those who worked to make the completion a success.

2011 South Texas Section - AIChE Best Paper Awards

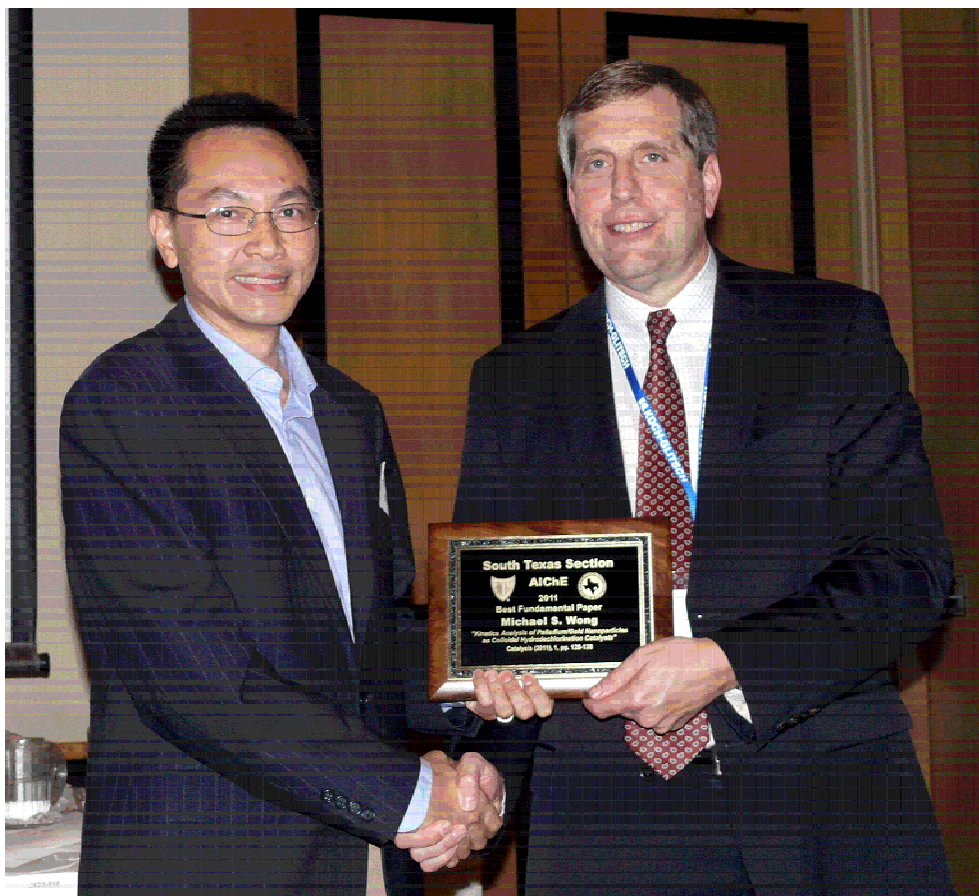
South Texas Section AIChE's Best Applied Paper Award for 2011 is titled "Development and Application of an Asphaltene Deposition Tool (ADEPT) for Well Bores" and was published in *Energy & Fuels* (2011), 25, pp. 4506–4516. The authors are Anjushri S. Kurup, Francisco M. Vargas, Jianxin Wang, Jill Buckley, Jefferson L. Creek, Hariprasad J. Subramani, and Walter G. Chapman.



2011 South Texas Section Best Fundamental Paper Award Recipients with STS Chair James Turner.
Pictured are (Left to Right): Hariprasad J. Subramani, Francisco M. Vargas, STS Chair James Turner, and Walter G. Chapman.

2011 South Texas Section - AIChE Best Paper Awards (Continued)

The 2011 South Texas Section AIChE's Best Fundamental Paper Award is titled "Kinetics Analysis of Palladium/Gold Nanoparticles as Colloidal Hydrodechlorination Catalysts" and was published in *Catalysis* (2011), 1, pp. 128–138. The authors are Yu-Lun Fang, Kimberly N. Heck, Pedro J. J. Alvarez, and Michael S. Wong.



Michael S. Wong (L) accepts the 2011 South Texas Section – AIChE Best Fundamental Paper Award from STS Chair James Turner (R).

Call for Volunteers

The Career and Education Operating Council (CEOC) of AIChE (National) has studies underway in several areas of interest to AIChE members. Additional volunteers are needed for committees performing the areas listed below. Working on one of these committees teaches you about the operation of AIChE, as well as teamwork, management, and leadership. Lessons from the latter three will spill over into your job, personal life, and other nonprofit organizations. The committee topics include:

A. Leadership development — New options for the training and development of leaders in AIChE. Our current methods are useful, but we're looking at others, too.

B. Fundraising — There is a modest but significant budget gap in AIChE National, and we can better serve our members if we can shrink it. Additionally, the programming of many local sections could benefit by fund raising.

C. Local Section Committee (LSC) Support — Unlike the STS, many local sections are facing difficulties, and the LSC is developing projects to assist "local sections in need."

D. Membership — The AIChE needs to work on increasing membership of National and of local sections. We're looking for additional good ideas. This includes how to explain the benefits of membership, how to encourage more student members to become YPs and how to encourage more first-time attendees at local section meetings to return and get involved.

E. Communication — Many AIChE members don't seem to learn about AIChE events and programs that they later wish they'd heard about. How can we improve communications with members? This could include mailings, websites, e-mail, telephone, etc.

These studies will involve identifying and evaluating alternatives, preparing "best practices" for local sections, and executing developmental projects. If you might be interested in one or more of these areas, please contact Matt Kolodney (mkolodney1@comcast.net or 713-471-8956)

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South Texas Section AICHE

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2012 Officers and Contact Information

Officers

Chair James Turner
sts-chair@aiche.org

Chair Elect Gary Gildert
sts-chairelect@aiche.org

Past Chair Ken Cox
sts-pastchair@aiche.org

Secretary Kelly Richardson
sts-secretary@aiche.org

Treasurer Katherine Leskin
sts-treasurer@aiche.org

Executive Committee

Position 1: Education
Heather Gilligan
sts-position1@aiche.org

Position 2: Outreach
Ramanan Krishnamoorti
sts-position2@aiche.org

Position 3: Communications
Jay Chandrasekaran
sts-position3@aiche.org

Position 4: Human Resources
Teresa Jurgens-Kowal
sts-position4@aiche.org

Volunteers

Arrangements: Richard Newman,
David Silarski

Membership: David Silarski

Young Professionals: Lisa Swanson
(sts-yp@aiche.org)

Awards: Tom Menn

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 2013

<<To be developed>>



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Our newsletter subscription list is by invitation only.

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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](#).

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The South Texan Newsletter Crew

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

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

Newsletter Editors

Jay Chandrasekaran
KBR
601 Jefferson Avenue
Houston, TX 77002
(281) 795-0768
jayachandranc@gmail.com

Submit an article! Contact:

Matt Kolodney
TCEQ
5425 Polk Avenue, Suite H
Houston, TX 77023-1486
(713) 767-3752
mkolodne@tceq.state.tx.us

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