



Special Notes

- Location: Park Plaza Hotel Reliant Center
- ExComm Meeting 4:30 PM
- Workshops 5:30 PM
- No Environmental Workshop this month
- Social Period 6-7 PM
- Dinner 7 PM
- Keynote Speaker 8 PM: Mr. Frank Kleinschrodt, President, IRP Tech

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Monthly Meeting September 1, 2005

Guest Speaker: Frank Kleinschrodt, President, IRP Tech

Topic: Update on Electronic Commerce in the Process Industries -- Boom, Bust and eBusiness as Usual

Based on personal experiences during an incredibly dynamic timeframe and supported by various analysts' reports, Frank will provide a brief refresher on the three phases of internet-enabled collaboration and commerce in the process industry that have already occurred since around 1998 and catch us up on what is happening with eBusiness today. He will also provide information on how your company -- whether it be one of the super-majors or a small local business -- can participate in electronic commerce at an appropriate level with achievable goals in the following areas:

- Cutting inbound and outbound inventory levels
- Cutting supply chain management and order-to-cash or order-to-payment administrative costs, and
- Increasing top line growth by lowering the cost to serve



Complete your reservation online at:

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

Or call (713)-295-4847 to make reservations until 4:00 PM Tuesday August 30.

September Workshops (See page 2 for details)

CAST: Alarm Management Philosophy

Speaker: Karim Moti, Matrikon International, Inc.

Process Safety: Inherently Safer Design and Operations—Review of Status

Speaker: Jack Chosnek, KnowledgeOne

Process Engineering/Plant Operation: How to Choose the Right Solid Adsorbent Technology

Speaker: Jennifer Lemaire and Bryant Miller, Coastal Chemical Co., LLC

Environmental: No speaker scheduled.

September 2005 Workshops: Begin at 5:30 PM, Park Plaza Reliant Center

C.A.S.T. (Computing And Systems Technology): Alarm Management Philosophy

Speaker: Karim Moti, Matrikon International, Inc.

Abstract: Many process control plants have alarm systems that actually fail the operator when they are needed most. Instead of alarms alerting operators with useful and actionable direction, the overwhelming number of nuisance alarms a typical plant faces impedes processes, productivity and safety. A poor alarm system exists because of the way it is configured, not because of its technology. The fundamentals of alarm management have an impact on the operations of a plant. The right Alarm Management Philosophy and tools will give you the resources to improve safety, operations and your business.

Bio: Karim Moti is the Regional Manager for Matrikon's office in the Gulf Coast, and has over 10 years of experience in Process Optimization and Improvement through Information Management. Working for Matrikon for the past 6 years, Mr. Moti has become an expert in Alarm Management, Information Management, and KPI's for business. Karim Moti has performed optimization studies at more than 200 industrial facilities worldwide, and is a graduate from the University of Alberta with Bachelor of Chemical Engineering degree with a specialization in Computer Process Control.

Process Safety: Inherently Safer Design and Operations – Review of Status

Speaker: Jack Chosnek, KnowledgeOne

Abstract: The field of Inherently Safer Design and Operations has progressed significantly as evidenced by the number and quality of papers presented at the Global Process Safety Symposium which was held in Atlanta this past April, in conjunction with the Spring National AIChE meeting. A review of practices of Inherently Safer Design and Operations at large and small companies, and novel applications, will be presented by Jack, who chaired the session on this subject at the Global PSM Symposium.

Bio: Jack Chosnek is a consultant on Process Safety Management and Knowledge Management and has 30 years of experience in the petrochemical industry. He is the current Chair of the STS-AIChE PSM Workshops and has served in this position for the last few years. He has a BS and MS in Chemical Engineering from the Technion—Israel Institute of Technology, and a PhD from the University of Missouri at Rolla. Jack is a registered Professional Engineer in the State of Texas.

Process Engineering/Plant Operations: How to Choose the Right Solid Adsorbent Technology

Speaker: Jennifer Lemaire and Bryant Miller, Coastal Chemical Co., LLC

Abstract: In the search for protection of expensive catalyst technology, we are faced with a multitude of adsorbents to remove potential poisons in feed streams. It starts with investigating the poisons in the feed stream, its composition, and the operating specifications. We then decide what type of technology would work best for this application. The potential technologies that are investigated are alumina, carbon, molecular sieve, and silica gel. Each technology has specific removal capabilities, and one or more products can be combined to give the best performance possible under specific operating conditions. We will cover the specific removal capabilities of each adsorbent and how we determine which technology functions best for the desired effluent conditions.

Bio: Bryant Miller is a Senior Technical Service Engineer for Coastal Chemical Co., LCC. Bryant has a B.S. in Chemical Engineering from the University of Nebraska. He has held various management and engineering roles from companies such as DuPont de Nemours, Monsanto, Phillips Petroleum, Great Lakes Chemical, Arcadian, Zeneca, and Haldor Topsoe.

Jennifer Lemaire is a Territory Manager for Coastal Chemical Co., LCC. She is a Chemistry major from Stephen F. Austin State University.

Environmental Issues

No speaker is scheduled for the September 2005 Meeting.

Dinner Meeting Speaker Details

Speaker: **Frank Kleinschrodt, President, IRP Tech**

Update on Electronic Commerce in the Process Industries – Boom, Bust and eBusiness as Usual

Abstract: Based on personal experiences during an incredibly dynamic timeframe and supported by various analysts' reports, Frank is going to provide a brief refresher on the three phases of internet enabled collaboration and commerce in the process industry that have already occurred since around 1998 and catch us up on what is happening around eBusiness today. He will also provide information on how your company – whether it be one of the super-majors or a small local business – can participate in electronic commerce at an appropriate level with achievable goals in the following areas:

- Cutting inbound and outbound inventory levels
- Cutting supply chain management and order-to-cash or order-to-payment administrative costs, and
- Increasing top line growth by lowering the cost to serve

We'll cover the following topics:

- Establish a Working Definition of eBusiness and its fit into the Process Industry Value Chain
- The first (Euphoric) Phase of eBusiness 1998 thru early 2001
- Reality Sets in with the Tech Meltdown and Consolidation Sets the Tone 2001 thru 2003
- The Maturing Market and a Business Shift of Focus to Measurable Benefits in 2004 thru Current
- Comparing the Process Industries Experience to Other Vertical Market Segments such as Electronics and to Consumer eBusiness
- Looking Forward – The Forecast for eBusiness and Impacts Foreseen from eBusiness on Process Industry Business
- Getting Started -- Some Small and Not-So-Small Steps that Can Be Taken to Participate in eBusiness

We will allow some time for a robust Q&A session and will expect some good questions and experience exchange.

Bio: Frank Kleinschrodt has 30 years of experience in a number of technology business areas including internet business, supply chain management systems, process manufacturing automation and process design. He recently co-founded IRP Tech, LLC where he serves as president. IRP Tech is a Houston based company focused on automating and improving business processes executed jointly by different companies as they execute commerce around direct and indirect materials of production. IRP Tech uses the latest internet-based technology to accomplish its mission and focuses on the process manufacturing vertical market area as well as their customers and suppliers.

Prior to forming IRP Tech, Frank held a variety of executive positions with Aspen Technology, Inc. including serving as a Sr. Vice President over the Internet Business Group, President of the Supply Chain Division and Vice President of the Advanced Control and Optimization Division responsible for business development and software product management. In addition to P&L management he is experienced in mergers and acquisitions as well as strategic divestitures. He has international business experience in Asia, Europe, Latin America, Canada and West Texas. Frank came into AspenTech via the Setpoint acquisition in 1996 where he held a number of management positions in the advanced process control and rigorous process optimization areas over a 10 year span.

Frank has an extensive process industry background including 11 years at Fluor Daniel as a process design engineer that included two long term international assignments. His last assignment at Fluor was as lead engineer for a \$3B Canadian offshore and onshore gas development project which after many years of false starts finally led to North America's first East Coast gas production in the year 2000.

Frank received an M.S. degree in Chemical Engineering from Auburn University in 1975. His outside interests include sailing, offshore fishing and golf. He has been a member of AIChE since 1974 and has been a resident of Houston and Galveston since 1975 excluding six years spent in London, England and Halifax, N.S., Canada and numerous short term assignments around the world.



Dinner Meeting Registration

Register for the Dinner Meeting online at:

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

To navigate to the registration page, go to www.sts-aiche.org, and click on the [Registration](#) link near the middle of the page.

You may also cancel a reservation using this link.

The cost of the dinner is \$22 with reservation, \$24 without, 1/2 price if student, retiree, or unemployed. Payments are not (yet) accepted online.

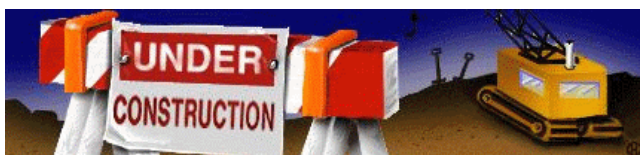
We look forward to seeing you there!

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.

Announcements and Activities



The STS-AICHE website is getting a facelift!

We expect to have the revised website active in early October. We are trying to clean things up a bit and make the important information such as meetings, speaker information, and workshop information easier to find.

Through the year, expect to find the site regularly updated in advance of the meetings.

Calendar of Upcoming Events

Mark your calendars! This year's meeting dates will be:

September 1, 2005
 October 6, 2005—Energy Forum
 November 3, 2005
 December 1, 2005
 January 12, 2006 (2nd Thursday) - Student Night
 February 2, 2006
 March 2, 2006
 April 13, 2006 (2nd Thursday) - Distillation Symposium
 May 4, 2006—OTC



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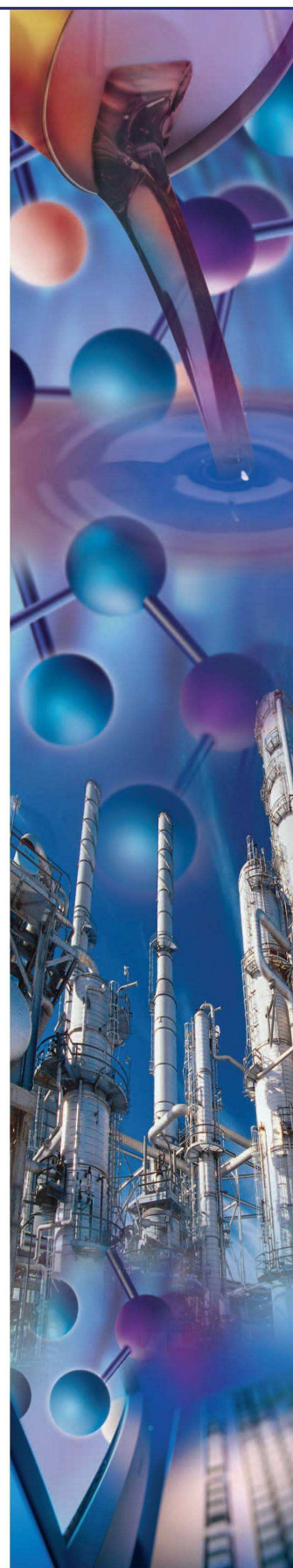
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OTC Chairman Visits STS May Meeting

On May 5, 2005, Dr. Arnis Judzis, Executive Vice-President of TerraTek began his term as Chairman of the Offshore Technology Conference Board of Directors for the years 2006 and 2007. AIChE is a sponsoring society of the OTC and the South Texas Section provides volunteers to assist with the OTC. This is the first time in the history of the OTC that a Chemical Engineer has been Chairman of the OTC Board of Directors. After a full week of OTC Executive Committee Meetings, Dr. Judzis took time to visit the South Texas Section at the May 5th Monthly Dinner Meeting and made these comments.

"On behalf of the Offshore Technology Conference Board of Directors, I would like to thank the South Texas Section of the AIChE for contributing to the success of the OTC in Houston. This year approximately 52,000 attended, up from previous years due in part to the strong oil and gas industry. Eleven professional societies generously contribute their time and resources to ensure that the OTC continues to have the best exhibition and technical program in the upstream industry. AIChE's South Texas Section helps the program, conduct, and registration committees each year and this is greatly appreciated. AIChE's program at the OTC is now very strong.

I look forward to representing the interests of AIChE at the OTC and want to thank all those who have contributed to the effort again. One final comment about education - Chemical Engineers have very good opportunities in the oil and gas industry. The upstream industry has a well-documented aging workforce and this will not abate until more students enroll in engineering and geosciences departments. For the OTC the AIChE Program Committee Chair is Art Schroeder, Jr. (art@energyvalley.net or 713-681-1482) and the Vice-Chair is George Montgomery (gjmontgomery@mcdermott.com or 281-870-5413)."



Arnis Judzis, Executive Vice President
TerraTek
Salt Lake City, Utah

AIChE Director, OTC Board and
Chairman OTC 2006 / 2007 Board of Directors

FALL 2005 Energy Forum Features Hugh Guthrie

The STS-AIChE will be hosting the Fall 2005 Texas Industrial Energy Management Forum prior to its monthly dinner meeting on Thursday, October 6, from 4:00 to 6:00 PM. As in the past Energy Forums, this will be a set of presentations by a panel followed by an extended question and answer period.

Long time AIChE member Hugh Guthrie, a retired Shell employee who is now with the Department of Energy, is the featured panelist for this Energy Forum. The panelists and their presentations include:

Hugh Guthrie, U.S. Department of Energy, "A Personal Perspective on U.S. and Global Energy"

Sean Diamond, Texas Petrochemicals, (title to be determined)

Thomas R. Theising, BASF Corporation, "BASF's Energy Survey Methodology"

David Schowalter, Fluent Inc., "Case Studies on Using Simulation to Maximize Energy Savings"

As with the previous Energy Forums, there will be an exhibit area behind the audience where the social period will be held prior to the STS-AIChE's monthly dinner meeting. Parties interested in exhibiting at the Energy Forum should contact Dennis Griffith at 713-857-6428 or e-mail him at dennisgriffith@pdq.net.

As an added feature, Hugh Guthrie will be the after-dinner speaker at the October STS-AIChE monthly meeting. His topic is "Chemical Engineering: Past, Present, and Future." We hope to see you at both the Fall 2005 Energy Forum and the monthly STS-AIChE meeting.

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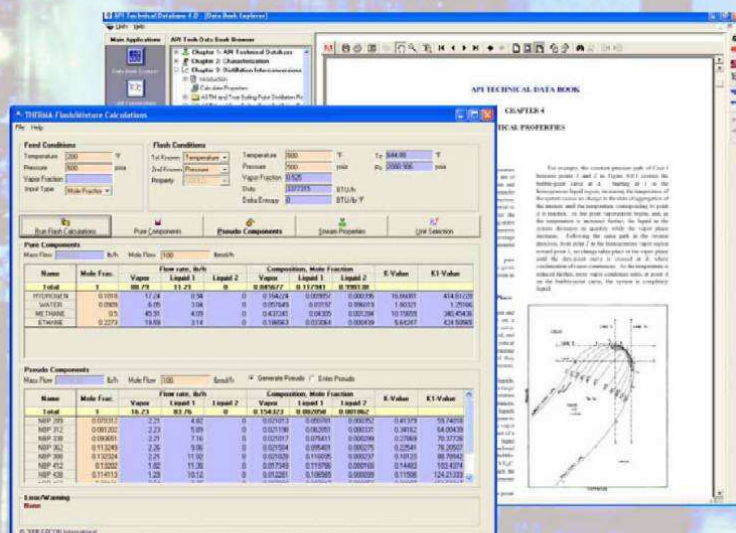
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AICHE Sponsoring Society Booth Volunteers Provided by the STS for the 2005 OTC

The following individuals responded to the South Texas Section's call for volunteers to provide staffing of the AIChE Sponsoring Society Booth at the 2005 OTC. The sponsoring societies of the OTC are each provided with a booth in the Lobby of Reliant Center. The NY Office of AIChE sends an AIChE Staff Person and literature to staff this booth. To provide relief for NY Staff Person, the South Texas Section has been asked to provide a few volunteers. The South Texas Section wishes to extend its appreciation to these volunteers for their efforts.

Robert (Bob) Alexander

David Carpenter

Darin Cunningham

Vas P. Kenyen

Tom Menn

Jim Murphy

Dave Silarski

OTC Registration Conduct Committee Volunteers Provided by the STS

The following individuals responded to the South Texas Section's call for volunteers to provide staffing of the Offshore Technology Conference Registration Conduct Committee. As a result of their volunteer efforts, each of these individuals received a complimentary OTC registration and in/out parking privileges. The STS at times is requested to chair an OTC Conduct Committee and in an effort to keep an active OTC volunteer group, an effort is made in any year that STS does not chair a Conduct Committee to provide volunteers for the OTC Registration Conduct Committee. The South Texas Section wishes to extend its appreciation to these volunteers for their efforts.

Robert (Bob) Alexander

Marisol Alfonzo

Ewald Burckhardt

Norman Carnahan

Darin Cunningham

Mark W. Demark

Vas P. Kenyen

James W. (Jim) Menn

Tom Menn

James "Red" Murphy

From Executive Committee Position 3 (Communications)

In January I started a 2yr term on the executive committee. My primary duties are to coordinate electronic communication for STS. As we begin our 2005/06 season, I'd like to inform you what the communications team is doing to keep the membership informed.

Last season we restarted the newsletter, which you are currently reading. We are committed to sending the newsletter out two weeks before the meeting. We will continue to send the 'last minute reminder' text email right before a meeting. During the year we hope to simplify registering your email address for the newsletter & reminder list.

Currently we are freshening up the website. Our goal is to update the meeting information at least two weeks in advance. It will be much easier to find the meeting information on the

website. Also, we're going to keep a calendar of 'future meeting dates' on the website.

I'd like to state that these are not my accomplishments alone. Susan Cannon, Alan Rossiter, Karen Kabin, and the tireless Jim Morris have put most of the effort into communications. Without their volunteerism we wouldn't be able to keep you informed.

I look forward to keeping you informed and having a good year for STS. If you would like to discuss an area where you'd like to see us improve how we communicate, please drop me a line. If you'd like to get involved and help out...STS is always happy to have more volunteers!

David Hill, Executive Position 3
(Communications)
position3@sts-aiiche.org

South Texas Section Service Awards Presented May 5, 2005 (1 of 2)

South Texas Section AIChE

2004 Distinguished Service Award

DAVID F. SILARSKI, MSChE, P.E.



Dave has been an AIChE member for over 30 years and recently became a Life Member of AIChE.

He started his career as an undergraduate student at Purdue University and achieved membership in Tau Beta Pi, Omega Chi Epsilon and the Order of Engineers. He was a Past officer in both AIChE student chapter and the unofficially acknowledged Purdue social club called the "Catalyst Club". After receiving his BSChE, he continued his education at Purdue receiving an MSChE. He states that if you want to read a boring publication, read his thesis: Continuous Flow Equilibrium Staged Model for Cycling Zone Adsorption, IEC Fund. (17,1) 1978, Silarski, Nelson, Wankat.)

In 1971 to 1974, Dave served as a co-op engineer in the PROJECT ENGINEERING GROUP, CPC INTERNATIONAL, renowned for Argo cornstarch and Skippy peanut butter. Dave had a hand in "setting up" a 2000-gallon open kettle of starch which looked like white Jell-O. He worked during a strike, crossing the picket line to unload rail cars of corn into silos. It may not have been much fun, but it was great money for a college student.

His first real job out of school was as a DEVELOPMENT ENGINEER – PILOT PLANT, CELANESE CHEMICAL, 1976-1979 in Corpus Christi TX. Dave soon tired of the "Sparkling Little City by the Sea" and took a job in Houston as a REFINERY PROCESS ENGINEER – REFINERY CHEMICALS, ARCO REFINERY, 1979-1981 working at the Pasadena Atlantic Richfield (ARCO) Petroleum Products location overseeing the aromatics unit (BTX). Dave got good hands-on experience during the 3-month refinery and pet-

rochemical workers' strike in 1980 serving as an Assistant Stillman on Paraxylene Recovery Unit (PRU) Phases O and I. Dave claims he installed more light bulbs than any other person in the refinery's history. Images remain in some peoples' minds of Dave running every steam hose and lance to the PRU Phase 1 No. 1 Melt Drum to deal with the constant freeze-ups that plagued that vessel.

Dave then became a SENIOR PROCESS ENGINEER – TECHNICAL SERVICES, ARCO CHEMICAL, 1981 and was transferred to Valley Forge, PA in the Philadelphia area for technical support of all ARCO Chemical aromatic processes. He was then transferred back to Houston as SENIOR PROCESS SERVICE ENGINEER – ENGR. & ENVIRON. ARCO CHEMICAL Co. in 1983 for the POSM, (Possum plant) propylene oxide – styrene monomer plant in Channelview, TX. Dave then became a PRINCIPAL ENGINEER – ENGR. EVAL. / TECH., in 1985 when LYONDELL PETROCHEMICAL was spun off from ARCO.

He finally settled down and married his wife Jean. They have been married 15 years. With regard to the May 5th Award Dinner, Dave stated "Honey, I hope you like our anniversary dinner tonight with all my friends."

Dave then decided he needed a change of pace and joined GLOBAL OCTANES as a PRINCIPAL ENGINEER – OPERATIONS in 1991 and remained until 1997. Dave then moved on to GTC TECHNOLOGY CORP. as a PROJECT MANAGER and worked there until 2000. After he had enough working for everyone else and being too young to retire, he started his own ENGINEERING SERVICES firm in 2001 and has been happily self-employed since.

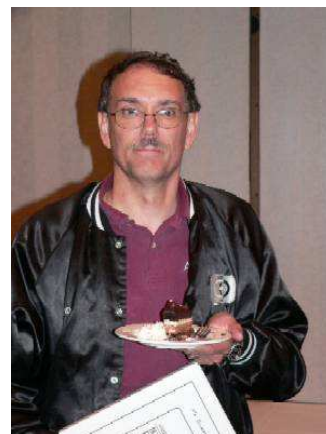
Dave has been involved with the Corpus Christie, TX and Philadelphia, PA chapters of AIChE as well as served as a COMMITTEE CHAIR FOR SOUTH TEXAS Section - AIChE & NATIONAL AIChE Local Arrangements Committee. Dave was responsible for social programs and welcoming receptions.

Dave stated that you may remember him as the door guy, regional meeting / young members guy (before Wendy Young resurrected it), boat trip guy, door jokester and ballot-name-filler. Dave has also helped out on the OTC Conduct Committees since around 1980.

Dave's other interests include being an officer in the Purdue Alumni Club of Houston and the Gulf Coast GTO Club. Remember those old muscle cars? The model is back with new 2004 -2005 models. The GTO club sponsored a car show on May 15 at the Seabrook Beach Club on NASA Road One.

Dave believes in having a good time and enjoying life outside the office as well as inside.

—Thomas Menn



South Texas Section Service Awards (2 of 2)

South Texas Section AIChE 2004 Chairman Appreciation Award Matthew Kolodney

The South Texas Section takes this opportunity to express the appreciation of the Section and to recognize Matthew Kolodney for his service and efforts in behalf of the South Texas Section as Chair-Elect, Chair, and now as Past Chair. Matt has also served as STS Treasurer and as a member of the STS Executive Committee and received the 1997 Robert L. Churchwell Environmental Award.



Matt receiving his award from Tommy John, 2004 Chairman

South Texas Section AIChE 2004 Outstanding Young Member David Hill

David Hill holds a BS in chemical engineering from the University of Houston.

David is a member of the administrative and technical committees of the AIChE\DIIPPR project. He has presented several times at National AIChE meetings. Currently he is Executive Position 3 (Communications) for STS-AIChE.

David works in the support and development group for Chemstations Software, vendors of the CHEMCAD Process Simulator Suite.

South Texas Section AIChE 2004 "Gary" Award *in memorial to Gary L. Leach* Edward James Morris III P. E.

The South Texas Section takes this opportunity to express the appreciation of the Section and to recognize Edward James (Jim) Morris III P. E. for his service and efforts in behalf of the South Texas Section which was conceiving, creating, planning, and running the past three Distillation Symposia.



From Left to Right: Tommy John (2004 Chairman), David Hill (Outstanding Young Member), Jim Morris (2004 "Gary" Award), Jeff Siirola (2005 AIChE President/Eastman Chemical Company). Photo taken by Matt Kolodney (2004 Chairman Appreciation Award recipient).

Student Award



The South Texas Section congratulates the Thompsons, recipients of the STS-AIChE sponsored award at the HISD Regional Science Fair held in March at the George R. Brown Convention Center.

The Thompsons completed an experiment on Dangerous Water.

The award was presented at the May 2005 dinner meeting.

From the Editor

Welcome back!

We begin the fall season with new plans, a bright outlook, and a calendar chock full of information to share.

Before the fun begins, however, I would like to address how our industry has been a hot topic lately.

The industry has been in the news quite a bit this summer with widely-publicized accidents. No one wants to believe such events could happen at their site, and we all believe that our policies and procedures will prevent their occurrence. Perhaps if any good can come of these events, it is to remind us that even the best procedures will not stop accidents from happening without constant diligence on our part—at all times, in all aspects of our life: at work, at home, and on the way in between.

The causes of these accidents are as of this writing not fully known. They were tragic events, they did happen, but we can assess the causes and learn how to prevent them from ever happening again, anywhere.

The Houston area public has gotten too accustomed to industrial accidents; it's almost as if they would be surprised if they never happened. Accidents are accepted as something that we have to live with if we choose to live in this area. I'm sure that we would all like to turn that opinion upside down.

Our business is inherently dangerous and perhaps an accident-free reputation is a pipe dream (sorry for the pun!). But I learned just today in a training class to Aim High. If we don't reach for the moon, we certainly will never get there.

Susan Cannon
Editor
SusanCannon119@aol.com

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

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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/news0905.pdf

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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.

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The South Texan Newsletter Crew

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