

The South Texan

2003 Marx Isaacs Award for Outstanding Large Section Newsletter



Meeting At-A-Glance

- Location: Brady's Landing Restaurant
- ENERGY FORUM 4-6 PM
- Networking 6-7 PM
- Dinner at 7 PM
- Speaker at 8 PM

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Monthly Meeting November 1, 2007

Location: Brady's Landing Restaurant

Oil and Gas in America

Speaker: Dr. Christine Ehlig-Economides

**Department of Petroleum Engineering,
Texas A&M University**



Abstract: The earth is thriving. Rumors of its death are greatly exaggerated. For that matter, fossil fuels have not peaked and are not likely to do so any time soon. Currently, alternatives to fossil fuels are fashionable, but not economically viable unless they are heavily subsidized, and the subsidies are justified on the basis of questionable hypotheses about global warming and waning fossil fuel supplies. This talk will expose energy myths and provide considerable food for thought for those with a healthy appetite for prosperity and energy abundance.

Bio: Christine Ehlig-Economides received a B.A. degree from Rice University (1971, *Math-Science*), an M.S. degree from the University of Kansas (1977, *Chemical Engineering*), and a Ph.D. degree from Stanford University (1979, *Petroleum Engineering*).

From 1980-1983 Dr. Ehlig-Economides was an Assistant Professor at the University of Alaska, Fairbanks where she became Petroleum Engineering Department Head and introduced the B.S. and M.S. degree programs in Petroleum Engineering. In 1983 she joined Flopetrol Johnston Schlumberger in Melun, France. After 20 years with Schlumberger in various positions she returned to academia as a full professor of Chemical Engineering at the University of Houston, where she has served as Director of the Petroleum Engineering Program as an Adjunct Professor since January 2000. She has since been appointed to the Albert B. Stevens Endowed Chair in Petroleum Engineering at Texas A&M University. Dr. Ehlig-Economides has received numerous awards from the Society of Petroleum Engineers and was elected to the National Academy of Engineering in 2003.

She has published more than 50 papers, has authored 2 patents, and has lectured or consulted in more than 30 countries. Dr. Ehlig-Economides is internationally recognized for expertise in reservoir engineering, pressure transient analysis, integrated reservoir characterization, complex well design, and production enhancement. She is currently working to introduce degree programs in Energy Engineering at Texas A&M University. She has recently become director of the Center for Energy, Environment, and Transportation Innovation (CEETI) in the Crisman Institute and has successfully introduced a freshman level energy course that was approved for

**Prior to the meeting, join us for the *free* 8th Texas Industrial Energy Management Forum from 4-6 PM!
See Page 2 for details!**

8th Texas Industrial Energy Management Forum : 4-6PM

Join us for the 8th Texas Industrial Energy Management Forum prior to the STS monthly dinner meeting.

Texas Industries Of the Future and the South Texas Section of AIChE will be hosting the 8th Texas Industrial Energy Management Forum prior to the STS dinner meeting on Thursday, Nov. 1 from 4 to 6 pm at Brady's Landing in Houston.

Leading off will be **Aamir Farid**, General Manager, Shell Deer Park Refinery, addressing the question of how to get and keep management's support for your energy program.

Peter Ryan, Bayer Technology Services Americas, will be discussing a case study on process optimization and principal component analysis.

Bill Behr, Dow Chemical, will present the Freeport site's energy assessment process.

The program can be found at:

<http://texasiof.ces.utexas.edu/PDF/Meetings/Program%20Nov.%201%202007.pdf>

Although there is no charge for the program, we request that you register in advance so we can provide adequate facilities. Register today at the following site:

<http://clearinghouse.ces.utexas.edu/tiof/tiemf.asp>.

Limited **exhibitor space** is still available! Contact Frank.Kleinschrodt@IRPTech.com for spacing and pricing details.



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Meeting Registration Information

Pre-register for the monthly meeting at:

<http://sts-aiche.org/register.php>. **(Note: New web address!)**

Reservations are accepted until 4 pm the Tuesday of meeting week.

You may also **cancel a reservation** using this link. Please cancel your reservation if you have made one and find that you are unable to attend.

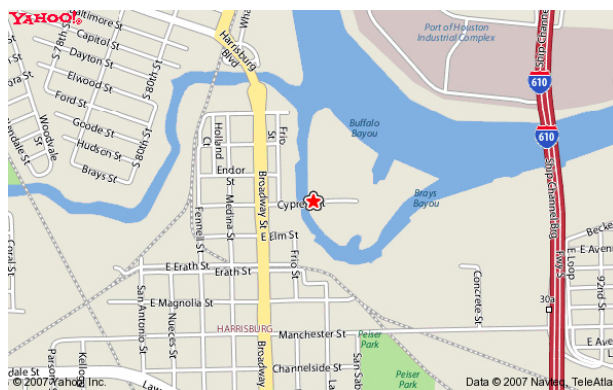
The cost for this meeting, per person, is:

	<u>Pre-registered</u>	<u>At the door</u>
Regular/Retired	\$25	\$35
Student/Unemployed	\$15	\$25

The Energy Forum is free to attend.

Meeting Location - Brady's Landing Restaurant

The November meeting will be held at Brady's Landing Restaurant. To use your own mapping program for directions, the address is 8505 Cypress Street, Houston, TX 77012. Click on the map to the right to open the map site.



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

Website Updates

Have you looked at our website lately? There is a new menu! It looks very similar yet it behaves differently, and there are some new topics. Check it out!

We also have a new [Sister Organizations Page](#) (Found in our News menu). This lists links to local chapters of other organizations you may be interested in, like ACS or SWE or ASME.

There is a new web address for meeting preregistration—[register.php](#). This will confirm that registration is still open, and direct you to the proper page. Preregistrations will not be accepted past 4 pm on the Tuesday of meeting week.

While preregistration is open, you can Preregister or Cancel a preregistration. When you preregister, you must prepay with a credit or debit card (V/MC/AmEx/Discover). You will be taken to our credit card acceptance policy, which you must accept to proceed. After selecting your registration type and details, you will be taken to our new Online Store to review your order before Checking Out. You will provide an email address that will ONLY be used to send you a receipt for your transaction. This will NOT sign you up for our newsletter email distribution.

You may see changes to the system in upcoming months as we find things that don't work, or a way to make it work better. Hang in there!

Calendar of Events

This year's meetings are scheduled as follows. Mark your calendars!!

December 6
January 10 '08 (2nd Thurs.)
February 7
March 1
April 3
May 1

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The South Texas Section's New Meeting Prepayment Policy (Credit Cards)

Beginning the November 2007 meeting, all meeting pre-registrations will require payment with a credit or debit card. The meeting pre-payment policy is as follows:

- **All pre-registrations for dinner meetings will require prepayment with credit card.** This decision was made based on the overwhelming response we received during the summer survey. Nearly all respondents stated they would prepay for meetings using credit cards.
- We accept Visa, MasterCard, American Express, and Discover.
- If you do not wish to prepay with a credit card, payment of the higher fee at the door is accepted in the form of cash or check. Credit cards will not (yet) be accepted at the door.
- No refunds will be provided.
- If you have prepaid for a meeting and do not attend, the payment is forfeited.
- If you have prepaid for a meeting and find that you cannot attend, you may transfer your meeting payment to another person. In this case, you must print your email receipt and write a short note stating that you allow your designee to attend in your place. The designee must be specifically named. You must sign this receipt and the designee must bring it to the meeting. *Any payment exchange for this transference will be solely between you and your designee.*
- Cancellations after 4 PM Tuesday of meeting week will forfeit the payment. We are required to provide a guaranteed number of dinners 48 hours prior to meeting time, and we must pay for all those guarantees.
- If you must cancel after you have prepaid due to extenuating circumstances, please contact the Chair or Chair-Elect. You may be allowed to apply your payment to a future meeting, within 3 meetings of the cancelled meeting. If the payment is not applied within the 3-month allowance, it is forfeited. This allowance may be carried over the non-meeting summer months. Approval is at the Chair/Chair-Elect's discretion. You may reach them at chair@sts-aiche.org or chair-elect@sts-aiche.org.
- A receipt of your transaction will be provided to the email address provided when you Check Out. You may print it and bring it to the meeting, but it is not required.
- You will be required to sign in at the meeting to verify that you did attend.
- You may sign up more than one person per charge.

We hope that our new policy makes it easier for you to pay for meetings and takes care of some of the congestion at the sign in desk.

For questions, comments, and problems, please contact creditcards@sts-aiche.org.



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2008 STS Officer Elections will be held in November

Elections will be held during November for the South Texas Section 2008 officers.

A web page has been set up, <http://www.sts-aiCHE.org/elections07.htm>, where the candidates and their bios may be reviewed. The voting procedure will be posted soon, and those eligible to vote will be notified by email when voting is open. The deadline for voting will be December 2, 2007. You must be a paid-up member of National AIChE and the South Texas Section to vote.

Candidates for 2008 officer positions are:

Chair-Elect

Todd Willman, Epcon International
Director of Development & Engineering

Jon Worstell, Shell Global Solutions (US)
Chemical Engineer

Secretary

Leonard Chinfong, Dow Chemical
Process Engineer

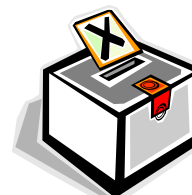
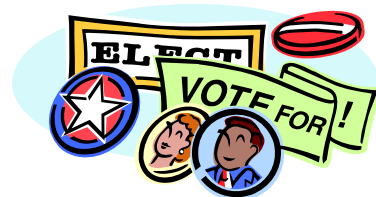
Jasmine Lee, Chemtech (Siemens)
Process Engineer

Position 2—Outreach

Michael Pishko, TAMU (Unopposed)

Position 4—Human Resources

Pete Belmonte, ENSE | AECOM (Unopposed)
Senior Regional Program Manager





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2006 STS Awards Presented at October Dinner Meeting (page 1 of 2)

2006 STS – AIChE Outstanding Young Professional Award

Brian Daly

Brian attended the University of Houston where he earned his BS in chemical engineering. After graduating in 2002, Brian worked at Fluor as an Associate Process Engineer. There he led the Process Department's young engineer group called Associates Building Careers (or ABC).

In 2006, Brian moved on to Catalytic Distillation Technologies (CDTech) as a process engineering specialist.

Brian has been active in AIChE for the past few years. He has headed AIChE's National Young Professional Advisory Board (YPAB) in 2006 and is currently a member of AIChE's Career and Education Operating Council (CEOC).

Outside of engineering, Brian is active with the University of Houston Alumni Association and has tried his hand at amateur writing. Brian also had a brief stint as an actor for Mystery Café Houston back in 2004.



David Karesh, 2007 STS Chair, presents Brian with the 2006 OYP Award.

2006 STS – AIChE Distinguished Service Award Recipient

David Mitchell



David Karesh, 2007 STS Chair, presents David with the 2006 Distinguished Service Award.

David received his BSChE from Georgia Tech 1966. While a student at Georgia Tech he worked as a Co-op for a pipeline company & metallurgical company.

He was also in the ROTC, was a Distinguished Military Graduate, and following graduation served in the USA Corps of Engineers. He was stationed in places such as Ft Belvoir, VA; Ft Benning, GA (Airborne school), and Asmara, Ethiopia for 20 months. After his discharge as with the rank of 1st Lieutenant, he toured Europe for 3-1/2 months.

David also holds an MBA - University of Houston (1972) where he met his wife Ronnett and they have been married 33 years. One son graduated from Trinity University in San Antonio & he is in computers in Austin. His other son is a ChE graduate from University of Texas and works in Houston. David is a registered P.E., belonging to the Texas Society of Professional Engineers since 1975.

He has been a Local & National AIChE Member since 1972 as well as a Co-chair of the Science Fair Committee and served as a Science Fair judge for more than 25 years. He has also been a member of the Houston National Meeting Arrangements committee several times. David is a past South Texas Section Chair and also served as STS Treasurer for three years. He has served on the Long Range Planning Committee and the Nominating committee many times.

David has worked for companies of all sizes and has been consulting for the last 17 years and is currently with S&B Engineers.

Other interests includes traveling and has traveled with his family to all 50 states & 3 continents, visiting 79 countries - so far. He belongs to the Mensa Society and finds time to bicycle 4-5 times per week. He also likes to read and plays duplicate bridge.

2006 STS Awards Presented at October Dinner Meeting (Page 2 of 2)

On Thursday, October 4, 2007 the Annual South Texas Section AIChE Awards for 2006 were presented by STS Chair David Karesh with Puneet Gupta and Tom Menn assisting. In addition to the usual Best Fundamental and Applied Paper, Outstanding Young Professional, and Distinguished Service; three STS Special Service Award Recipients were recognized.

We would like to recognize those folks who assisted our Best Papers Judging Chair, Chen Ramachandran with voting for the Best Paper Awards this year.

The Best Papers Judging Committee consisted of:

Mathias Appel	Erik Engwall	Narayanan Mysore	Ernesto Uehara-
Manish Bharati	Ray French	Lorna Ortiz-Soto	Nagamine
Thomas Brownscombe	Puneet Gupta	Kumar Paruchuri	David Wallace
Franklin Caputo	Mahesh Iyer	Chen Ramachandran	Matt Yarrison
Jingyu Cui	Mahendra Joshi	Easwar Ranganathan	
Sujatha Degaleeson	Amrit Kalra	Michael Reynolds	
David Denley	Patrick Malone	Janine Toner	
Smita Edulji	Andreas Matzakos		

The South Texas Section – AIChE 2006 Best Fundamental Paper Award recipients were Drs. Dan Luss (UH) and Ganesh Viswanathan (Mt. Sinai Hospital NYC) for the paper entitled: "Hot Zone Formation and Dynamics in Long Adiabatic Packed Bed Reactor" which was published in *Industrial Engineering and Chemistry Research*, Vol. 45, 2006.



Dr. Dan Luss (UH) accepts the Best Fundamental Paper from David Karesh, 2007 STS Chair.



Dr. Michael Harold (UH) and Dr. James Lattner (Exxon/Mobil) accept the Best Applied Paper from David Karesh, 2007 STS Chair.

Recipients of the South Texas Section – AIChE 2006 Best Applied Paper Award are Drs. Michael Harold (UH) and James Lattner (Exxon/Mobil) for the paper entitled: "Autothermal Reforming of Methanol: Experiments and Modeling" which was published in *Catalysis Today*, Vol. 120, 2006.

2006 South Texas Section – AIChE Special Service Awards

Susan Cannon of KBR was awarded an STS – AIChE Special Service Award for her work on the STS Newsletter and Website where she has done a great job. In addition to the Newsletter and Website, Susan is reworking the Monthly Meeting On-Line Reservation Process to update it and make it credit card friendly.



Whoops! Looks like we lost Susan's picture. Better luck next time. -Ed (Susan Cannon!)



Sue Degaleesan accepts a 2006 Special Service award from David Karesh, 2007 STS Chair.

Sujatha (Sue) Degaleesan of Shell Global Solutions was awarded an STS – AIChE Special Service Award for her work on the Best Papers Judging Committee. Sue's a real go getter as she convinced some gentlemen over in Holland to help judge our papers.

Todd J. Willman of EPCON International was awarded an STS – AIChE Special Service Award for his excellent work on the CAST Programming Committee.



Todd Willman accepts a 2006 Special Service award from David Karesh, 2007 STS Chair.



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- Develops System Design Parameters
- Develops process simulation models and process optimization for various parts or units of the total plant
- Calculates Heat & Material Balances
- Designs Process Flow Diagrams (PFD's)
- Designs Piping & Instrumentation Diagrams (P&ID's)
- Specifies equipment and instrumentation
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Call for Papers: 10th Process Plant Safety Symposium—deadline extended!

The 10th Process Plant Safety Symposium (PPSS), organized by the AIChE Safety and Health Division, Group 11B, will be held as part of the 4th Global Congress on Process Safety in New Orleans, LA. The PPSS was originally organized by the South Texas section of AIChE, and today continues to focus on process safety and risk issues and solutions for immediate application at process plants and throughout industry.

Papers are selected based on the abstracts submitted by authors. Manuscripts must be well written, contain new technical content or applications, and be immediately useful to the industry. Accepted papers will be published in the Symposium Proceedings and presented at the PPSS in New Orleans. The technical sessions are:

- I. Hazard Identification and Risk Assessment Tools
- II. Conduct of Operations for Process Safety
- III. Plant Process Safety Management Systems
- IV. Applications of Safety Culture
- V. Maintaining Instrument and Mechanical Integrity
- VI. Case Histories and Lessons Learned

If you are interested in presenting a paper at the PPSS, please contact Jack Chosnek at jc@knowledge1.net, or the persons listed for the topical session of interest and submit a 150-300 word abstract. We will accept abstracts **through October 31, 2007** or until all sessions are filled with high quality materials. Early submittal of abstracts is highly encouraged.

Details and contact information may be found in the file posted online at <http://www.sts-aiiche.org/2008PPSS.pdf>.



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AICHE/ASME classes in Houston this November

The AIChE/ASME offers many courses here in Houston in November:

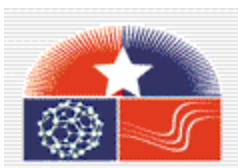
Planning and Adjusting Business Strategies	Nov. 26-27
Professional Responsibility for Engineers	Nov. 26-27
PSM: Regulations Developing and Process Safety Management Systems	Nov. 26-28
Principles and Practices of Chemical Reactor Design and Operations	Nov. 26-28
Fuels Blending Technology and Management	Nov. 26-28
Detail Engineering of Piping Systems	Nov. 26-28
BPV Code: Section VIII Div 1 Design and Fabrication of Pressure Vessels	Nov. 26-28
Research and Development Management	Nov. 26-28
BPV Code: Section VIII Div 1 Design & Fabrication of Pressure Vessels with Repairs & Alteration Consideration	Nov. 26-30
Finance and Procurement for Engineers	Nov. 28-29
Negotiation Techniques for Engineers	Nov. 28-29
Layer of Protection Analysis (LOPA): Achieving Tolerable Risk	Nov. 29-30
HSE: Health, Safety, and Environmental Management and Sustainability	Nov. 29-30
How to Predict Thermal-Hydraulic Loads on Pressure Vessels & Piping	Nov. 29-30
Inspection, Repairs & Alterations of Pressure Vessels	Nov. 29-30
Fischer-Tropsch Catalysis: Fundamentals and Practice	Nov. 28-29

For more information and to register visit <http://www.asme.org/education>. To sign up and pay: <http://catalog.asme.org/home.cfm?LanguageID=&Category=ED&ProductFormat=SHC> or call 1-800-843-2763

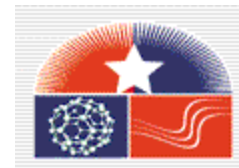
Vital Links

South Texas Section website: <http://sts-aiiche.org>
 National AIChE website: <http://www.aiiche.org/> (Needs Flash Plug-in)
 Earn CEP credits at AIChE functions: http://www.sts-aiiche.org/Texas_PE_CEP_Rule.html
 Download the CEP log form: http://www.sts-aiiche.org/STS-AIChE_CEP_Log.xls
 Previous Newsletters (PDF format): <http://sts-aiiche.org/newsletterArchives.htm>
 Link to THIS newsletter: <http://sts-aiiche.org/newsletter/news2007/news1107.pdf>

Cut Your Energy Costs Today! Industrial Energy Management Fall 2007 Training Schedule <http://TexasIOF.ces.utexas.edu>



- **Pumping System Assessment Workshop**, October 25, Houston. Learn how to analyze your pumping systems for efficiency and savings, using a DOE software tool.
- **Energy Savings in Process Heating through Use of PHAST (Process Heating Assessment and Survey Tool)**: Improving Thermal Efficiency in Process Heating Equipment in the Petroleum Refining and Chemical Industry, October 31. Baytown.



Texas Industries of the Future



South Texas Section AIChE

South Texas Section
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Deer Park, TX 77536-1741

2007 Officers and Contact Information

Officers

Chair David Karesh, Jacobs Engineering
chair@sts-aiche.org; 832-351-6944

Chair Elect David Silarski
chair-elect@sts-aiche.org

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Treasurer Shane Tierling, KBR

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Position 4: Human Resources
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Volunteers

Arrangements Richard Newman, Criterion Catalysts

Membership Jerry Gresham, Gresham & Gresham

Young Professionals Hui Zhao, KBR

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 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/Welcome/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@aiiche.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.

Newsletter Editor

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Submit an article! Contact:

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