



## Meeting At-A-Glance

- Location: Hilton Hobby Airport
- 2 Workshops @ 5:30 pm
- Networking 6-7 PM
- Dinner at 7 PM
- Speaker at 8 PM

## Monthly Meeting February 7, 2008

Location: Hilton Hobby Airport

### Marketing Technology to the Petrochem Industry

Speaker: Hal Green, Managing Director, Advertas LLC

**Abstract:** One of the most powerful tools in shaping a go-to-market strategy is knowing the needs and values of the customer. Advertas believes the best business strategies are created in concert with your customers. It sounds simple enough, but often technology providers do not have a sufficiently clear picture of the buying values of their customers.

This talk will outline how to develop a go-to-market strategy that aligns with the needs of the Petrochem Industry through a market analysis methodology. Highlights of the presentation will include how an effective market analysis captures the following:

- Perception of value by customers,
- Potential impact on business and/or operations,
- Key trends in the industry relating to the offering, and
- Awareness of the provider and/or offering by prospects/customers.



## Inside this issue:

<a href="#">Meeting Signup Details</a>	3
<a href="#">Meeting Prepayment</a>	4
<a href="#">Position 3 Chair</a>	5
<a href="#">Catalysis Course</a>	6
<a href="#">YP Technical Workshop</a>	7
<a href="#">Seminars Offered</a>	9
<a href="#">Volunteer—OTC and TISP</a>	11
<a href="#">Petticoats &amp; Slide Rules</a>	13
<a href="#">Contact Information</a>	14
<a href="#">Subscribe/Unsubscribe</a>	14

**Bio:** Hal Green is a marketing executive and entrepreneur with more than 20 years of experience in management and start-ups of technology companies, having particular expertise in business strategy, effective selling practices, and field marketing in the energy industry. He was previously Director of Manufacturing Systems for Setpoint, an advanced process control firm in Houston that was acquired by Aspen Technology in January 1996. Mr. Green continued with Aspen Technology as Director of Business Development for the Information Management and Polymer Business Units. Mr. Green is also published in several major industry journals. He founded Advertas, LLC in 2004 to provide marketing, strategy, and public relations services to technology companies seeking to grow their business in the energy industry.

Advertas ([www.AdvertasMarketing.com](http://www.AdvertasMarketing.com)) is a full-service marketing, strategy, and public relations firm working exclusively for technology companies in the Energy and Process Industries. Located in Houston, the epicenter of the U.S. Energy industry, Advertas can help you create or calibrate your message, content, and overall go-to-market strategy for the Energy sector. Their clients, ranging from Fortune 100 companies to start-ups, have one thing in common: They offer technology to some part of the complex hydrocarbon supply chain. The marketing consultants at Advertas understand the technology, the buying values, and the business processes of the Oil and Gas industry.

## Workshop Details: Workshops begin at 5:30 PM

### CAST: Consistent .Net-based Thermodynamics and Process Simulation

**Speaker:** Andre Micke and Kai Fischer - TPSI

**Abstract:** Both accuracy and consistency of different thermodynamic property data are essential to simulate chemical processes realistically. Whereas accuracy can be obtained with flexible mathematical routines and statistically judged with the help of experimental data collections, consistency becomes immanent only by implementing rigorously the underlying physical laws. Authors present an approach using multi-property correlations that enforces thermodynamic consistency of any flash calculation and allows an easy extension whenever new data become available. The mutual influence of data and correlation accuracy on prediction quality is shown.

The presentation includes a demonstration of a new MS .Net based thermodynamic engine which provides a wide range of flash solvers and global equations of state for over 380 fluids as well as transport properties.

**Bio:** Andre Micke studied mathematics at the Technical University of Chemnitz, Germany, obtaining his diploma 1980 and received his Ph.D. at Humboldt University of Berlin 1986. Between 1980 and 1993, he worked at the German Academy of Science in Berlin: at the Center of Computer Science he developed numerical methods for non-linear equation systems, at the Weierstrass Institute of Mathematics he led research in the field of numerical analysis including solution methods for Fredholm and Volterra integral equations, at the Center of Heterogeneous Catalysis he performed research to characterize Fickian Diffusion processes in micro-porous structures. In 1994 he joined the Group Technical Center of BOC in Murray Hill, New Jersey and worked as Principal Scientist on real time process control based on thermodynamic modeling. He authored several patented methods for technical gas technology. He is co-author of more than 60 scientific papers and US patents.

Kai Fischer, studied chemistry at the universities of Cologne and Oldenburg, Germany, obtaining his diploma and Ph.D. in chemistry in 1990 and 1993, respectively, from the University of Oldenburg. Between 1993 and 1996, he was scientific co-worker at the University of Oldenburg in the Industrial Chemistry Research group headed by Jürgen Gmehling, engaged in the experimental determination of thermophysical properties in cooperation with industry partners. Between 1994 and 2007, he was Director of DDBST GmbH, a software company compiling and selling the Dortmund Data Bank and supplying software for data correlation and estimation. In 1996 and 1997, he performed scientific work in the Phase Equilibrium Laboratory of Ecole des Mines de Paris, France, headed by Dominique Richon. He returned to the Industrial Chemistry Research group at the University of Oldenburg in 1997 and developed high pressure experimental techniques for the determination of thermophysical properties and continued his research activities related to group contribution equations of state. Until 2007 he managed the LTP business. He is coauthor of more than 70 articles published in scientific journals and the three volume compilation 'Azeotropic Data'.

In 2007 they founded together the software company Thermodynamic Property Standard, Inc. (TPSI). Since then he focuses on developing and marketing a globally consistent platform for all thermophysical property data.

### Environmental: Emissions Estimating Techniques

**Speaker:** Alex Cuclis, Houston Advanced Research Center

**Abstract:** AP-42 and other emissions estimating techniques have been used for over 20 years to provide estimates of volatile organic compounds from petrochemical facilities; however, there are a number of measurements that suggest the emissions are underestimated by an order of magnitude or more. In this presentation, Alex Cuclis will review the data from Houston area field studies in TexAQs 2000 and TexAQs 2006, as well as analytical techniques known as Differential Absorption LIDAR (DIAL) and Solar Occultation Flux (SOF), as well as some things that can be inferred from the IR Camera (or HAWK Camera) even though it does not provide quantitative results. Alex will discuss the impacts these have on identifying the appropriate control strategies and the impacts to cap and trade programs used for Highly Reactive Volatile Organic Compounds (HRVOC) and Greenhouse Gases.

**Bio:** Alex Cuclis began working at the Houston Advanced Research Center (HARC) in April 2004 as a Research Scientist. Alex manages projects that involve measurements of air pollutants and development of emissions inventories. Alex works closely with the technical support staff at the Texas Commission on Environmental Quality (TCEQ), the Environmental Protection Agency (EPA), and nationally recognized air quality researchers at universities, environmental firms, and government laboratories. Alex consults with business representatives and environmental groups to ensure that HARC's air quality research projects address all of the issues of concern and that the results can be used to implement practical solutions. Alex also supports the Texas' New Technology Research and Development (NTRD) program, which promotes the development and implementation of new NOx reduction technologies.

In 2000 Alex worked with refinery experts, environmental regulators, environmentalists and professors at several universities to develop an environmental audit plan for refineries. Those refineries with the best environmental performance are identified using an independent, industry sponsored audit of refinery pollutants. The audit also assesses how well refineries assist customers to reduce emissions. The refineries with the highest audit scores would become eligible for emission credits, greater access to permits and other competitive advantages acceptable to regulators and environmental groups.

Alex earned his B.S. in Chemical Engineering from UT-Austin, his M.S. in Analytical Chemistry from UI-Urbana, and his M.A. in Behavioral Sciences from the University of Houston-Clear Lake. Alex worked in Cameroon, West Africa as a Peace Corps Volunteer Leader where he supervised 45 Math/Science Peace Corps Volunteer teachers. He worked for 15 years at Shell's Deer Park Refinery and Chemical Plant as a process engineer, an analyzer engineer and in various other positions. Alex spent three years working on air quality projects for the University of Houston. Alex has taught courses in Sustainability Science to university students.

## Meeting Registration Information

Pre-register for the monthly meeting at:

<http://www.sts-aiche.org/register.php>.

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

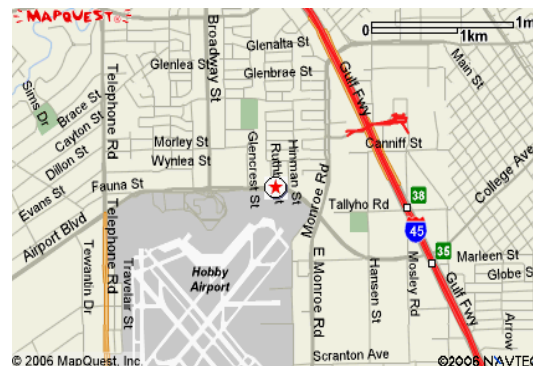
You may also **cancel a reservation** using this link. Please cancel your reservation if you have made one and find that you are unable to attend.

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

## Meeting Location - Hilton Hobby Airport

The February meeting will be held at Hilton Houston Hobby Airport. To use your own mapping program for directions, the address is 8181 Airport Boulevard, Houston, 77061. 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!*

## Pre-Registration Procedure

The web address for meeting preregistration is <http://www.sts-aiche.org/register.php>. This will confirm that registration is still open, and direct you to the proper page. Preregistrations will be accepted until 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 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.

BE CAREFUL when entering your email address. If you do not receive an email receipt, send an email to [creditcards@sts-aiche.org](mailto:creditcards@sts-aiche.org) and we can confirm that your order went through.

## Mark Your Calendars!

Important upcoming dates for the STS are:

March 6—monthly meeting at Aramco  
 April 3—Monthly meeting at Brady's Landing, with Energy Forum!  
 April 6-10—Spring National Meeting in New Orleans  
 May 1—Monthly meeting  
 May 5-8—OTC at Reliant Center  
 May 31—Annual Ship Channel Cruise (watch for details to come!)

September 4—Monthly meeting  
 October 2—Monthly meeting  
 November 6—Monthly meeting  
 November 16-21—Annual Meeting in Philadelphia  
 December 4—Monthly meeting

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## The South Texas Section's Meeting Prepayment Policy

STS-AIChE dinner meeting pre-registrations require pre-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](mailto:chair@sts-aiche.org) or [chair-elect@sts-aiche.org](mailto: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.
- **The address used to verify your credit card MUST match the address on that credit card's statement. Otherwise, your credit card charge may not be approved.**

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](mailto:creditcards@sts-aiche.org).





### Position 3—Communications Position now filled!

At the January ExComm meeting, Yoojung Kim was elected to fill the vacant Position 3-Communications position on the Executive Committee Board. By our Bylaws, this position must be held by a member under the age of 35.

We are glad to welcome Yoojung to the ExComm!

Miss Kim says:

*With my involvement in AIChE, I hope to help the organization to provide helpful resources to engineers working in the industry and young professionals through technical, social and outreach events.*

**Professional Experience:** Yoojung Kim is a process engineer at Solutia, Inc. where her major responsibilities include supporting Acrylonitrile plants and optimizing their operations to maximize product recovery. Prior to that she was a process engineer at Lyondell where she supported ethanol plant operations and projects.

**Education:** B.S. in Chemical Engineering from the University of Illinois at Urbana-Champaign

She can be reached at: [yykim@solutia.com](mailto:yykim@solutia.com)



Advertising Space Available

To advertise in The South Texan Newsletter,

Please contact [Frank.Kleinschrodt@IRPTech.com](mailto:Frank.Kleinschrodt@IRPTech.com) for rates and availability.

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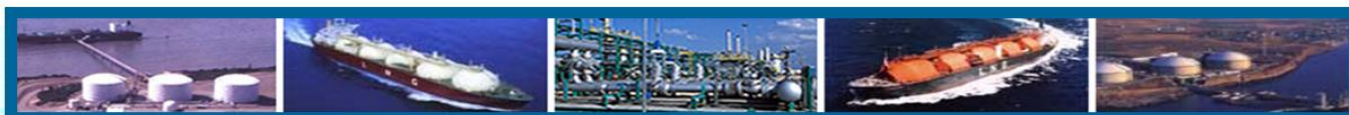
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## Applications of Heterogeneous Catalysis

A five-day short course "Applications of Heterogeneous Catalysis" will be given by the Department of Chemical and Biomolecular Engineering at the University of Houston on May 12-16, 2008 (<http://www.chee.uh.edu/course/catalysis/>).

The course is designed to match the needs of industrial chemists and chemical engineers engaged in the practice of heterogeneous catalysis, either as beginners or individuals who are experienced in certain areas but wish to acquire an overview of the field. Although research methodology is included, the emphasis is on applications. The course has been given fifty-nine times in Houston since 1971, fifteen times at various locations in Europe, and adapted many times for in-house courses at major companies, and many companies routinely use for training new personnel.

For more information and registration material, contact Professor James T. Richardson at [jtr@uh.edu](mailto:jtr@uh.edu).



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### Vital Links

South Texas Section website: <http://sts-aiCHE.org>

South Texas Section Young Professionals Group: <http://yp.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](http://www.sts-aiCHE.org/Texas_PE_CEP_Rule.html)

Download the CEP log form: [http://www.sts-aiCHE.org/STS-AIChE\\_CEP\\_Log.xls](http://www.sts-aiCHE.org/STS-AIChE_CEP_Log.xls)

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

Link to THIS newsletter: <http://sts-aiCHE.org/newsletter/news2008/news0208.pdf>

## YP: Free Technical Workshop

When: Thursday, February 28 at 5:30pm - 6:30pm

Where: Rice University (check <http://yp.sts-aiche.org/> for exact location)

Cost: FREE

Two presentations will be given at this technical workshop.

**Presentation 1:** "The Inside Scoop on Chemical Engineering: A Look Inside the Equipment in an Acrylonitrile Plant" by Scott Moffatt, PE

Have you ever wondered about what it is like to work at a chemical plant? How the process equipment (e.g. distillation column, reactors) look like on the inside? How these equipment really work? What to look for during equipment inspections? Then come to this presentation to get some answers for your questions.

Scott Moffatt graduated with a B.S. in Chemical Engineering in 1998 and a M.S. in Chemical Engineering in 1999 both from Texas A&M University. He has worked for Solutia, Inc. at their Chocolate Bayou Plant since 1999, primarily in the Acrylonitrile business. Scott has experience with fluidized bed reactors, distillation, heat transfer, and other unit operations. He is currently a Process Engineering Specialist working in the Acrylonitrile Process Technology group in the area of fluidized bed reactor design and operation. Scott is a registered professional engineer in the state of Texas.

**Presentation 2:** "Cooling Tower Basics" by Nalco Company

Cooling towers are essential in most plant operations. This presentation will cover some of the basics that a chemical engineer should know about the cooling towers and their operations.

For more information about this workshop, please go to our young professionals website at <http://yp.sts-aiche.org/>.

## It's Awards Time!

It is once again time to nominate an STS member for our annual awards:

- Outstanding Young Professional Award
- Distinguished Service Award
- Best Fundamental Paper
- Best Applied Paper Award

For requirements of each award, visit the web page: [http://www.sts-aiche.org/list\\_of\\_awards.htm](http://www.sts-aiche.org/list_of_awards.htm). The page provides a summary of the awards, and contains links to more detailed descriptions of each award.

To nominate a member for an award, complete the online form at the web page [http://www.sts-aiche.org/nominate\\_awards.htm](http://www.sts-aiche.org/nominate_awards.htm).

If you do not have web access or prefer the printed form, request the form in an email to [newsletter@sts-aiche.org](mailto:newsletter@sts-aiche.org).

Nominations must be received by April 18, 2008 to be considered. Thank you!

## Chair Appreciation Award Presented



The 2007 STS Chair David Karesh was presented with the Chairman Appreciation Award at the January dinner meeting by the 2008 South Texas Section chair, David Silarski.

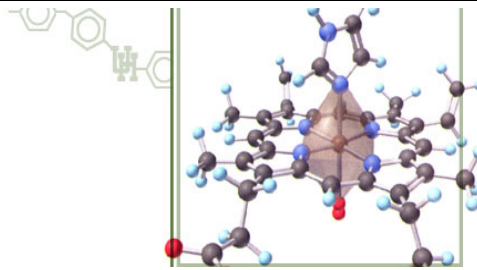
*Photo courtesy of Tom Menn.*

## Did you know.... More STS Awards

The STS has many other awards, also! There are 8 awards that may be presented at any time. We have an Academic Achievement Award, Chemical Engineering Practice Award, Leadership Award, and Friend of STS Award to name a few. Nominations may be accepted at any time for any of these awards. The Executive Committee votes on recipients, and they are presented at



# UNIVERSITY of HOUSTON *Chemical* and Biomolecular Engineering



The University of Houston offers several Master's level programs in the chemical engineering discipline tailored for the working professional. Your interest may be to gain advanced training in process engineering, or to carry out research in advanced materials, bioengineering or, catalysis, or to take a smaller group of specialized courses to give you a competitive edge. Whatever your interest, the University of Houston's Department of Chemical & Biomolecular Engineering has it for you. Many of the courses are taught in the later afternoon or evening and research projects can be conducted in the evening and weekends.

## MASTER OF CHEMICAL ENGINEERING

A Master of Chemical Engineering (MChE) degree is offered as a non-thesis program for the working professional. Thirty credit hours (10 courses) of required and elective course are needed to complete the program which is geared for persons who plan careers in plant operations, design and management in the chemical process industry.

## THESIS-BASED MASTER OF SCIENCE

The major focus of this program is advanced engineering fundamentals and research. Eighteen semester credit hours of coursework are needed to complete the M.S. degree, 12 are for four required courses and six for electives. In addition, a Master's thesis must be completed, providing an additional 12 credit hours. A variety of thesis topics can be selected by the students.

## COURSE-BASED MASTER OF SCIENCE

This is a part-time, research based program, intended for students with a Bachelor of Science in Chemical Engineering (or equivalent) who are working in the industry. Thirty semester hours of coursework are required, including four required courses plus six elective courses.



For more information contact:

**University of Houston**  
**Chemical & Biomolecular**  
**Engineering**  
**Graduate Program Director**  
**S222 Engineering Bldg. 1**  
**Houston TX 77204-4004**

Phone: 713.743.4300  
Fax: 713.743.4323  
Website: [www.chee.uh.edu](http://www.chee.uh.edu)

UH is an EEO/AA institute.



## Need that elusive Ethics Hour for your PE?

Engineering Ethics Seminars Sponsored by Engineers Without Borders

The Billion Dollar Dilemma: Under-reported Petrochemical Emissions– Alex Cuclis, HARC

Professional Licensing and Certification and Ethical Issues – Lisa Gossett, J.D., UHCL

Both Presentations Given on Two Different Days in February

6:00 pm – 8:30 pm, Tuesday, February 26, 2008, at the Upper Kirby District Center, 3015 Richmond, Suite 100

3:00 pm – 5:00 pm, Wednesday, February 27, 2008, at the HGAC Offices, 3555 Timmons, second floor, Room A

Fee: \$30 (\$20 for EWB Members)

### RSVP Required

Alex Cuclis will discuss the aircraft flights and optical remote sensing data that indicate refineries and chemical plants emit 10 to 40 times the volatile organic compounds that are reported using standard, regulatory agency approved emissions estimating techniques. Alex will use delayed cokers as a case study to describe how this may ultimately cost industry (and consumers) billions of dollars and the impact on cap and trade programs for pollutant emissions, including greenhouse gases.

Lisa Gossett holds a B.S. in Mechanical Engineering and a law degree. She is an Associate Professor of Environmental Management at the University of Houston-Clear Lake and has included discussion of ethical issues in several courses. She is currently researching ethical issues relating to licensing of engineering and science professionals.

Please RSVP if you plan to attend in person **or participate by phone** by sending a reply to [acuclis@harc.edu](mailto:acuclis@harc.edu). Indicate in the email which session you plan to attend (Tuesday, Feb. 26 or Wednesday Feb. 27). A Certificate for 2 Professional Development Hours will be provided to all attendees. Electronic copies of the presentations will be provided prior to the meeting upon request. Pay at the door by check or cash. For those who wish to call in to the meeting in the afternoon on Feb. 27, you can send a check made out to Engineers Without Borders to Alex Cuclis, Houston Advanced Research Center, 4800 Research Forest, The Woodlands, TX 77381.

Future seminars currently scheduled include:

Residential Energy at 6:00 pm, April 10 Presented by Phillip Hamilton and Sam Telleen from ProGen.

Shell Biofuels at 6:00 pm, June 5 Presented by David Austgen of Shell

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## Amundsen Lectures at the UofH

### The Neal R. Amundson Lectures

The Department of Chemical & Biomolecular Engineering at the University of Houston  
Requests the honor of your company at these special lectures honoring

**Neal R. Amundson**, Cullen Professor of Chemical Engineering and Mathematics.

Friday, February 1, 2008, 1:30-5:00 p.m.

University of Houston Campus,  
Engineering Lecture Hall, L2-D2

#### Speakers:

##### **Haren S. Gandhi**

Ford Technical Fellow, Research and Advanced Engineering, Ford Motor Company

Lecture Address: "Overview of Research/Advanced Portfolio at Ford and Deep Dive Into Sustainability Research Area"

##### **Michael J. Economides**

Professor, Department of Chemical and Biomolecular Engineering, University of Houston

Lecture Address: "Energy Geopolitics"

For more information, visit <http://www.chee.uh.edu> or contact Linda Keng at 713/743-4304 or email at [lkeng@mail.uh.edu](mailto:lkeng@mail.uh.edu).

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## Call for Volunteers—2008 OTC Registration Conduct Committee

The Offshore Technology Conference is coming to Houston, May 5-8, 2008. It will be held at Reliant Center adjacent to Reliant Stadium at Loop 610 between Fannin Street and Kirby Drive.

As the American Institute of Chemical Engineers is one of the sponsoring societies for the OTC, the AIChE South Texas Section has been selected to staff the 2008 OTC Registration Conduct Committee. For agreeing to serve as a member of the 2008 OTC Registration "Conduct" Committee for one-half (1/2) day, each volunteer will receive:

1. **One complimentary OTC Registration which is valid for the entire OTC**
2. **Complimentary Parking Pass for the OTC with In/Out Privileges (valid for the entire OTC)**

The Registration Committee has the following duties:

1. Attend a committee meeting **on Monday April 28** from 11:00 AM to 12:00 in Reliant Center (*room to be assigned later*) before the opening of the Conference to review responsibilities, and become familiar with the registration procedures as well as the convention center layout. The complimentary parking passes will also be given out at this meeting.
2. Instruct registrants to complete form and proceed to registration counters. If registered in advance, instruct registrants proceed to Badge-N-Go kiosks.
3. Provide assistance to OTC attendees such as directing those with complimentary Guest Cards to use the Guest Card kiosks and informing the registrants that a separate card for each day registering must be presented as well as directing exhibitors to Exhibitor Registration (Lobby D).
4. Be prepared to give directions and answer general questions.

For more information, please contact:

Tom Menn  
281-485-3719  
P. O. Box 458  
Pearland, Texas  
77588-0458  
[thomasmenn@SBCGlobal.net](mailto:thomasmenn@SBCGlobal.net)

To Volunteer, complete the form **on the following page** and submit as indicated on the form. When we have an online form ready, we will let you know.

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## Volunteer to help science/math teachers in your school district!

The IEEE (Institute of Electrical and Electronic Engineers) currently has an initiative for the [Teacher In Service Program \(TISP\)](#) and is holding its last workshop on **February \*\*9\*\*, 2008** on the campus of University of Houston, University Park. The session should last about 6 hours, from around 8:30 am to around 3:30 pm, including lunch. IEEE will provide lunch and snacks at NO COST to attendees. [There is no charge to attend the workshop.](#)

They are interested in engineers/scientists to participate. The idea is to expose/train volunteers so that as our program expands into the individual school districts, they will have a slate of volunteers to work with these school districts. Our goal currently is to have about 80% teachers/educators and 20% of engineers/scientists in the workshops.

For information about the lesson plans TISP has available for use by teachers throughout the world, visit the website <http://tryengineering.org/home.php>. These lesson plans can be adapted by not just science/math teachers but teachers K – 12, in particular in the elementary grades.

Please register online for the session. IEEE will contact those registered with the details for each session. As space is limited, please register at the website:  
<http://www.ieee-houston.org/Societies/EduCommittee.htm>.

Also, please feel free to distribute this information to colleagues you know within and outside your school district. The Houston Section of IEEE serves an area from Freeport to College Station, with the exception of the Galveston Bay area.

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## 2008 OTC Registration Conduct Committee Volunteer Registration Form

2008 Offshore Technology Conference  
Registration Conduct Committee  
Reliant Center -- Houston, Texas  
May 5, 6, 7, & 8, 2008

### Volunteer Registration Form (Registration Committee Use Only) – *Please Print:*

\_\_\_\_\_  
Registrant's Last Name (Family Name)

\_\_\_\_\_  
First Name (Forename)

\_\_\_\_\_  
Company

\_\_\_\_\_  
Title or Position

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Company P.O. Box or Mailing Address

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Telephone Number (include area code and/or country and city code)

\_\_\_\_\_  
Facsimile (include area code and/or country and city code)

\_\_\_\_\_  
Cellphone or Pager Number

**< Optional & for Committee Use Only!**

### Preferred Day For Volunteering

(please indicate choices such as 1, 2, 3, ... with "1" being your first choice):

No Preferred Day or Time: \_\_\_\_\_

Any Day but Only In: \_\_\_\_\_

Only \_\_\_\_\_ AM or \_\_\_\_\_ PM

Monday, May 5<sup>th</sup>: \_\_\_\_\_ Either Am or PM

Only \_\_\_\_\_ AM or \_\_\_\_\_ PM

Tuesday, May 6<sup>th</sup>: \_\_\_\_\_ Either Am or PM

Only \_\_\_\_\_ AM or \_\_\_\_\_ PM

Wednesday, May 7<sup>th</sup>: \_\_\_\_\_ Either Am or PM

Only \_\_\_\_\_ AM or \_\_\_\_\_ PM

Thursday, May 8<sup>th</sup>: \_\_\_\_\_ AM

### Sponsoring Societies (Check all those that you are a member of):

\_\_\_\_ American Association of Petroleum Geologists

\_\_\_\_ [American Institute of Chemical Engineers](#)

\_\_\_\_ American Society of Civil Engineers

\_\_\_\_ ASME International Petroleum Institute

\_\_\_\_ Institute of Electrical and Electronics Engineers – Oceanic Engineering Society

\_\_\_\_ Marine Technology Society

\_\_\_\_ Society of Exploration Geophysicists

\_\_\_\_ Society for Mining, Metallurgy, and Exploration, Inc.

\_\_\_\_ Society of Naval Architects and Marine Engineers

\_\_\_\_ Society of Petroleum Engineers

\_\_\_\_ The Minerals, Metals, and Materials Society

This form is intended to provide enough information for the Arrangements Chairman to fill out an OTC Conduct Committee Registration Form for you. If you wish to purchase tickets to certain events or proceedings, please use another form.

Copy, Complete, and E-Mail this completed form to [thomasmenn@SBCGlobal.net](mailto:thomasmenn@SBCGlobal.net)

(Please note that this form is **not an official OTC registration form** and provides information useful to the Registration Committee. Your official OTC form will be completed and submitted by an OTC Registration Committee member using the information on this form.)

## Petticoats and Slide Rule Exhibit, sponsored by SWE

The Society of Women Engineers – Houston Area is proud to host the special historical exhibit “Petticoats and Slide Rules: SWE, A History of Women Engineers” during the first five months of 2008.

The exhibit pays tribute to trailblazers and pioneers, from before the “blue jeans” era to the present. The exhibit is an “interactive” history featuring materials from the SWE historical collection at the Reuther Library located at Wayne State University. Photos, videos, interviews and artifacts highlight over five decades of promoting equal opportunity for women in engineering, as well as inspirational stories of women who “paved the way” for future generations.

While the Petticoats and Slide Rules Exhibit is in Houston, a display which includes pictures and stories of local engineers will be included to highlight the reality and impact anyone and everyone can make.

### When and Where

The exhibit will be in the Houston area and shared with the community from late January to mid May. Since the final locations and details are still being coordinated, the tentative schedule is as follows.

**February 2008 – University of Houston**

**March 2008 – Space Center**

**April 2008 – Rice University**

**May 2008 – Various Exhibit Sponsors**

### Why

The Petticoats and Slide Rules exhibit is meant to inspire and educate future generations about the changing roles of women in the engineering profession. From Emily Roebling’s work on the construction of the Brooklyn Bridge in the 1880s, to former U.S. astronaut Dr. Sally K. Ride’s pioneering 1983 flight into space, women have participated in American science, technology and industry for over one hundred years. Yet, historically, the number of women in the engineering profession has been significantly low. Since its founding in 1950, the Society of Women Engineers (SWE) has grown in size and stature, challenged stereotypes, and contributed to the engineering profession in many ways. The intent of this exhibit can be summarized as follows.

To encourage young women to consider pursuing careers in engineering

To provide community outreach

To celebrate previous accomplishments

Many of today’s common technologies were engineering marvels just a few years ago and both men and women have accomplished amazing feats in engineering. The purpose of this exhibit is not only to celebrate the accomplishments of women in engineering but also to highlight the progression of engineering and the contributions to modern society that have been made by engineers.

In today’s society the need for engineers is great, however many children and adults in our society are not aware of what engineers do or their past contributions to society. Since many first generation college students have never been exposed to engineering, the intent of this exhibit is to expose students of all ages to the field of engineering and highlight previous accomplishments. The exhibit also reminds viewers of the progression of technology and the involvement of engineers.

For over 50 years, SWE has stood behind a diverse engineering workforce and the idea that women CAN be engineers. That mission continues today with a membership of more than 15,000 individual professionals and students from 22 countries. SWE has more than 300 student sections and nearly 100 professional sections organized into 10 geographic regions.



For more information, visit the SWE-Houston website <http://www.swehouston.org/Petticoats.html>



## South Texas Section AIChE

South Texas Section  
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#### Officers

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#### Volunteers

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**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](mailto:xpress@aiiche.org)



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



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## *The South Texan Newsletter Crew*

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

Contact us at [newsletter@sts-aiche.org](mailto:newsletter@sts-aiche.org) with comments, questions, suggestions, and ideas for next month.

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