



Note Early Start Time

Monthly Meeting October 3rd, 2013

Central Location: Floral Hall A, Moody Gardens, Galveston
(Social Hour at 4:30 PM, Dinner at 6 PM)

Satellite Location: Cilantro's Mexican Restaurant, (Sawdust Rd location in The Woodlands) Dinner at 6 PM, Technical program at 6:45 PM

Inside this issue:

Meeting Details	2
Join 2013 AIChE SPTC	3
Letter from the Chair	4
Young Professional Sections	5-8
K12 Volunteer Opportunities	13
PE Refresher Courses	10-11
Award Information	12
Call for Volunteers	13
Contact Information	16
Subscribe/Unsubscribe	16

Topic: Exploring Space and Investing in the Future: Perceptions and Experiences of a NASA Astronaut

Dinner Speaker: Bonnie J. Dunbar, PhD NAE

Abstract:

The US space program began with dreams of reaching the Moon in the 1960's. We succeeded and the effort transformed the American cultural and technological landscape. Without Apollo, there might not have been the computer or satellites supporting communications, navigation, weather forecasting, and remote sensing— or the thousands of new businesses which were generated. That early success was followed by our first Space Station, Skylab, then the Space Shuttle, and now the International Space Station. With each step, we also performed groundbreaking scientific and engineering research in the microgravity environment of Low Earth Orbit (LEO). We are now poised for the next steps. Dr. Dunbar will share her thoughts on our past and future in space, share experiences as an astronaut aboard five space shuttle flights—and discuss why she has joined the faculty of the University of Houston to help educate the next generation of engineers.

Bio: Professor Bonnie J. Dunbar leads The University of Houston's newly created STEM Center and is also a faculty member in the university's Cullen College of Engineering, Mechanical Engineering department, where she leads the Aerospace Graduate Program.

The STEM Center integrates K-12 and Undergraduate STEM related activities from the colleges of Engineering, Education, Technology, and Natural Sciences and Mathematics. It also works with the external community and Houston Public Media Ch 8 to promote the role of engineers and scientists in society. Prior to joining The UH, Dunbar had her own consulting company, Dunbar International LLC, consulting nationally and internationally on STEM education and space flight technology. She also was the President and CEO of the Museum of Flight in Seattle for 5 years, after retiring from NASA with 27 years of service.

Dunbar earned her Ph.D. from the UH Cullen College of Engineering, and her B.S. and M.S. in engineering from the University of Washington. She also graduated from the Harvard Kennedy School for Government. Her career at NASA included five spaceflights on the Space Shuttle, and seven years in various management roles as a member of the Senior Executive Service.

Dunbar is an elected member of the National Academy of Engineers and the Royal Society of Edinburgh, and is a Fellow of the AIAA, ACerS, and the Royal Aeronautical Society. She has 7 honorary academic degrees and was inducted into the Astronaut Hall of Fame in April, 2013.



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	\$32	\$40	\$40	\$48
Student/unemployed	\$20	\$25	\$30	\$35
North Houston satellite meeting location	\$18	\$18	\$20	\$20

NOTE: You have until 4 PM CST on October 2nd 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— Floral Hall A, Moody Gardens



This month's meeting will be held at [Floral Hall A, Moody Gardens](#) (7 Hope Boulevard, Galveston, Texas 77554) Double click on the map to the left for directions from your location. The satellite meeting will be held at [Cilantro's Mexican Restaurant](#), (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—Cilantro's Mexican Restaurant @ Sawdust Road (formerly Rica's).

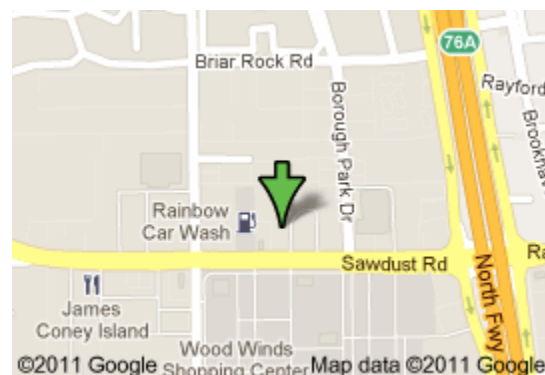
Join us without driving too far for some local networking at The Woodlands/North Houston satellite meeting! We have our own social/networking program.

Due to the wonders of modern technology, via closed circuit broadcast from the main meeting site, we have access to the great speakers provided by STS at the main meeting. This month's meeting Thurs., October 3, will once again be at Cilantro's Mexican Restaurant (**formerly Rico's**) at 314 Sawdust Rd, The Woodlands, TX, 77380, 281-419-3180. On-line pre-registration is available but not required. Order your dinner off the restaurant menu. Contact Ken Walter (kk.walter@comcast.net) with questions or special needs. Guests are welcome, please spread the word!

Schedule (Note Early Start Time):

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

All guests are welcome!



Join 2013 AIChE Southwest Process Technology Conference

The 5th Annual AIChE Southwest Process Technology Conference (SPTC) is upon us! The conference will be held at the Moody Gardens Conference Center in Galveston, October 3 & 4, 2013. SPTC is a favorite gathering for STS members. Don't miss out!

This year's keynote speaker is ExxonMobil Chemicals' Senior Vice President, Lynne Lachenmyer, who will talk on "U.S. Chemical Industry Revitalization: Impact of Abundant Shale Gas Supplies." The technical program also includes sessions on energy efficiency, process safety, reaction engineering, process simulation, distillation & separation, oil refining, upstream oil & gas, and chemical manufacturing, as well as a new track on process control & optimization, and sessions designed specifically for students and young professionals. In parallel to the technical program there will also be an exhibition and a career fair.



The October STS dinner meeting will be held on the Thursday of the conference. Our dinner speaker will be Bonnie Dunbar, a former astronaut who now leads The University of Houston's newly created STEM Center. Her title is: "Exploring Space and Investing in the Future: Perceptions and Experiences of a NASA Astronaut." We will hold a post-conference mixer on the Friday evening.

Also – new this year – we will be offering a "Best Presentation Award," to provide some added drive to further boost the quality of the program. We need judges to select the award winner, so if you are planning to attend and are willing to help in the selection process please let us know at sptc13@aiiche.org.

You will find more information about the conference, including program and registration link, at <http://www.aiiche.org/conferences/regional-process-technology-conference/2013>. If you have any questions, email us at sptc13@aiiche.org.

AIChE South Texas Section 2013 Future Meetings & Speakers

Meeting Date	Topic	Speaker	Location
Nov 7, 2013	TBD	Rafique Janjua, Fluor	Brady's Landing

October 2013 STS-AIChE Chair's Letter – Gary Gildert

Our meeting on September 12th meeting at Pelazzio brought a good friend and former STS Chair back to our stage – Todd J. Willman, PE, MBA. The title of his talk was "Fluid Flow Analysis – Your Key to Success in Chemical Engineering". Fluid flow is clearly his passion, but it also takes practice to be an expert. Todd makes the comparison of chemical engineering to an athlete preparing for four years for the Olympic Games. The Texas Board of Professional Engineers requires four years of practice before applying for licensure. Todd's talk reminded me of a book I read a short while ago, "Outliers", by Malcolm Gladwell. In this book, Gladwell talks about the 10,000 hour rule and how it takes a lot of practice to become an expert at anything, citing many examples in sports and business. Four years full time is approximately 10,000 hours. It fits.

Our next meeting is during the SouthWest Process Technology Conference, October 3, 2013. Our dinner speaker is Dr. Bonnie Dunbar, Leader of The University of Houston's newly created STEM Center and Former NASA Astronaut. Her talk is entitled: "Exploring Space and Investing in the Future: Perceptions and Experiences of a NASA Astronaut". I had the opportunity to hear her speak last spring and look forward to hearing her again. You can add the dinner when registering for the meeting at <http://www.aiche.org/conferences/regional-process-technology-conference/2013/registration-info> or sign up online on our website at: <http://sts.aiche.org/event/sts-aiche-october-social-hour-dinner-program-sptc>.

We have a good number of volunteer opportunities available for our members from half day commitments through multi-year opportunities. Please see the section entitled "Call for Volunteers" later in this newsletter.

We continue to make progress on the webcasting. We have a great crew with Alan anchoring the internet service, Carol on sound, Trevor on video, me as the equipment mule, and a newcomer that I will remain anonymous until he gets his feet wet. We have a dedicated group in the Woodlands, but we are open to others. We are also getting interest from local sections that have difficulty in getting a strong technical program. The invitation is always open for those who want to form a small group to network, watch our announcements and view the technical presentation. There is also the option to "tune in" from your own home, let either. Let Alan or I know via sts-chair@aiche.org.

Please feel free to forward this newsletter and e-mails that you get from me to others that may be interested in our programs and activities. While attendance at our meetings has been good relative to historical standards, I know that there are many more professionals in the region that would benefit greatly from our events, which are open to everyone, not just Chemical Engineers or STS members.

I would also like to encourage everyone to share your ideas and suggestions with me and other members of the Executive Committee. In most cases, we can help you turn a good idea into action. Together, we can continue to make the South Texas Section of AIChE a place of community, fellowship and education for us all.

Sincerely,

Gary Gildert
Johnson Matthey

Young Professionals Sections

YP September Meeting Highlights



Above is the group picture of Young Professionals who participated in the September monthly meeting held at Pelazzio Banquet Hall. Thank you to Matt Kolodney for this photograph.

YP Plant Tours

The Young Professionals wanted to recognize Ron Lutz from Braskem for his hospitality preparing a visit to the LaPorte, TX facility. Braskem is one of the largest polypropylene producers in the US.



Young Professionals Sections (Continued)

YP Giving—Trevor Rice

We want to continue with our YP giving initiative, where the YP's sponsor one young member - including ChE students - at each of our monthly dinner meetings. To qualify, the recipient will have to be involved or share new ideas about YP activities that will be beneficial to the group. If you are interested email 3-4 sentences to sts-yp@aiiche.org and we will let you know if you are considered the winner. Please share this message with your young colleagues and encourage them to participate with us.



1. Tell us about yourself

I'm a recently-turned 25 year old graduate of Rice University (BSChE) currently employed at Chemstations, Inc. In my free time I enjoy coding and practicing guitar.

2. What do you like most about your current job and what are your responsibilities? Please provide examples

Currently, most of my responsibilities include developing additional features for our software and finding various defects in the new code. While that description doesn't sound very chemical-engineering related, a lot of modifications require an understanding of the purpose and meaning of many chemical engineering concepts - even in areas like the user interface that don't require calculations. And I like my current job because of its combination of programming and chemical engineering, our small-company dynamic, and the flexibility software gives in general.

3. How has STS and AIChE benefited you? Please provide examples

Because my job mostly deals with theoretical models and symbolic unit operations, it's difficult (but very important) for me to visualize the real-world analogue of what's being modeled. STS YP's plant tours have given me an excellent look into what each piece of equipment looks like and how they fit together to form a plant, which has been invaluable. Additionally, there are often talks at the various conferences AIChE hosts which discuss real-world optimizations based off of computational models, which help me understand the way people use the various models to achieve their engineering goals.

4. Any advice for the ChE students who will graduate soon? Please provide examples

Two bits of advice: Software is the future. The stronger your software and computer skills, the better off you'll be in the long run. Find the intersection between your other passions and Chemical Engineering. For me, my joy of programming got me a job I very much enjoy. But even odd topics such as linguistics can give light to new and interesting ways to look at chemical engineering.

5. Was there an STS-YP project that you worked on that you found valuable?

The only STS project I've worked on has been webcasting, which is great for helping improve my skills in recording and presenting Audio/Video conferences.

6. Was there an AIChE webinar or e-learning course that you have or would find valuable?

Interestingly enough, a lot of the webinars don't assist in my work because they either address theoretical concepts which are too advanced or practical concepts which are divorced from theoretical models. However, there is a small subset of webinars that discuss how people think and how Chemical Engineers approach problems, which is extremely pertinent to my work and interesting to me personally as it helps me understand how people use our program and its interfaces.

Young Professionals Sections (Continued)

Featured YP of the Month – Aiying (Annie) Li

1. Tell us about yourself

My name is Aiying (Annie) Li. I am a registered Professional Engineer in Texas and currently working at Fluor Enterprises as a Process Specialty Engineer. Previously, I was working at GTC Technology as a Senior Process Engineer for seven years. I received a Bachelors of Science from China Petroleum University in 2003 and a Master of Engineering from Tianjin University China in 2006. Outside of work, I enjoy cycling, jogging, bowling, taking road trips and spending time with friends and families.



2. What do you like most about your current job and what are your responsibilities?

As a FORTUNE 500 company, Fluor is a great company to work for. I greatly enjoy the work atmosphere here. I currently work on revamping the flare system of the large refinery plant. This is the first detailed engineering design project that I have worked on. It allows me to utilize my process engineering knowledge and gives me the opportunity to learn new process design skills in the petrochemical industry. Also, I enjoy working with colleagues from different divisions, and learning from knowledgeable industry experts here at Fluor.

3. How has STS and AIChE benefited you?

I started to attend STS-AICHE meetings in 2008. As a foreign young professional, STS and AIChE have not only provided me with networking and leadership opportunities, but also helped me to improve my English communication skills. The experiences that I gained through STS-AIChE are invaluable. The PE review course provided by STS-AICHE helped me to pass the PE exam readily. I currently volunteer as Position 3 –Communication in STS-AIChE Local section officer team which allows me to continue developing my leadership skills and to assist other fellow members.

4. Any advice for the ChE students who will graduate soon?

In the field of chemical process design, industry experiences and communications skills are very important. I advise young engineers to try to learn as much as possible from senior experts. Don't be afraid to ask questions if you are not sure. Try to participate in professional organizations, such as AIChE, whenever you can. It is a great way to meet professionals in the area and strengthen your connection to the chemical engineering community. Try to set both short term and long term goals in your career. This will give you a clear direction in terms of career development and allow you to succeed step by step. In addition, attempt to take the PE exam as soon as you have gained sufficient experiences. This will save you time later on and bring you tremendous benefits in the future.

5. Was there an STS-YP project that you worked on that you found valuable?

Many activities organized by STS-YP are very valuable. These include happy hours which bring young professionals from different fields together and Plant Tours which give young engineers the chance to gain practical experience on different process operations. I attended one of the very successful Plant Tours in April 2011, the plant tour to the ConocoPhillips Sweeny Refinery, I was able to view the whole plant, ask the questions and listen to the Technical Manager's detail introduction. The experience I gained from the tour is invaluable.

6. Was there an AIChE webinar or e-learning course that you have or would find valuable?

I appreciated many AIChE webinar and e-learning classes, such as process design & development, leadership and career development, which really helped me to improve my engineering design and interpersonal skills. In addition, the classes on cultural diversity were very beneficial in terms of allowing me to fully understand and embrace the wonderfully rich diversity in the workplace. For example, one of webinars "Working Across Cultures" taught by John Hooker provides guidelines for operating successfully in different cultural settings, with an emphasis on project management. If you are engineers who manage international projects, or interact with persons from different cultural backgrounds, the class will benefit you greatly.

Young Professionals Sections (Continued)

YP University Visits

The Young Professionals group will be visiting some of the area campuses giving an informative session to our AIChE student community. Volunteers and Alumni are welcome to join us prior RSVP at sts-yp@aiiche.org

October 1 st	Prairie View A&M University
October 15 th	Rice University
November 5 th	University of Houston

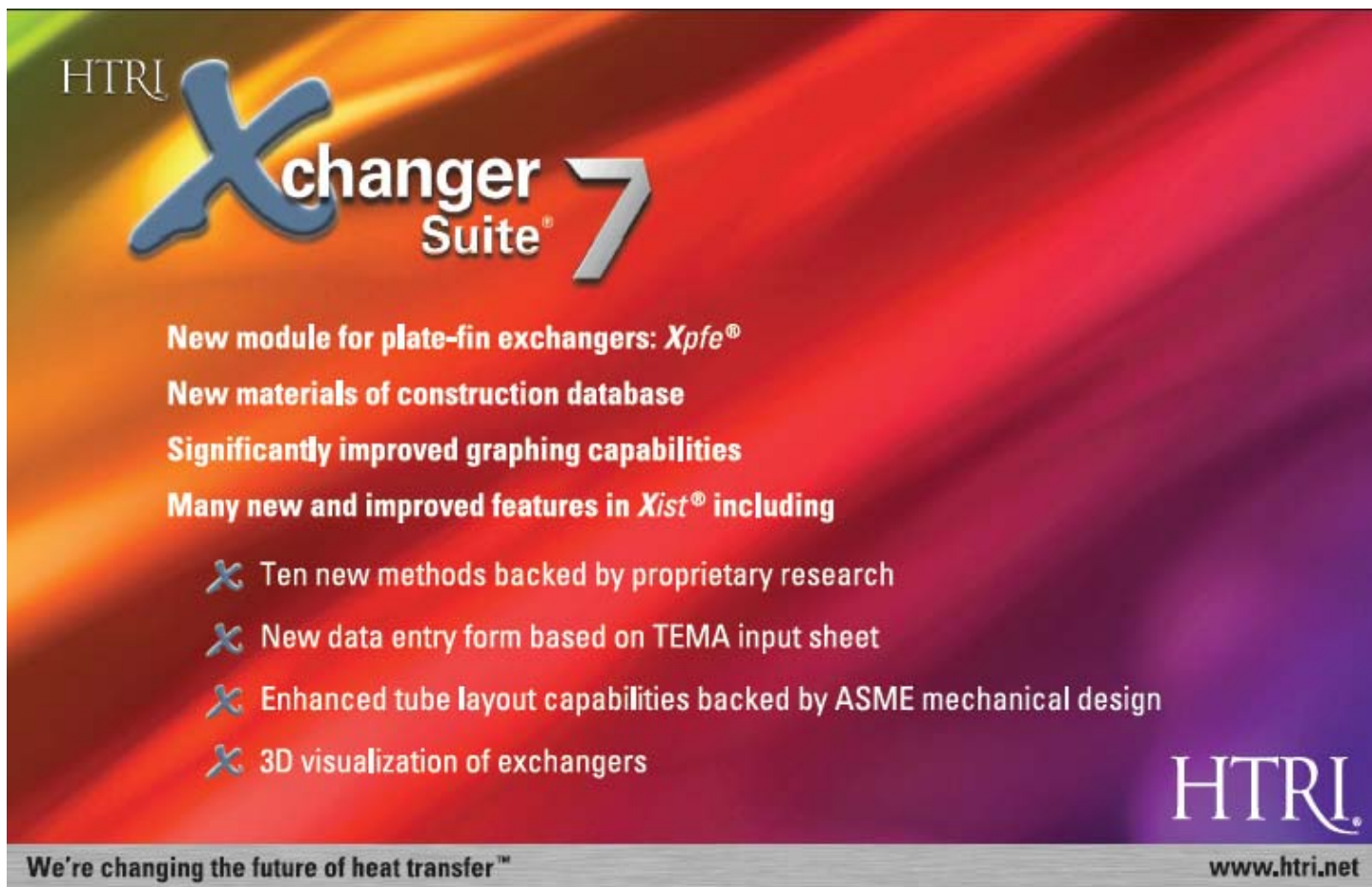
YP Process Development Workshop

The Young Professionals (YPs) made arrangements for the Process Development Workshop "Refining Canadian Heavy Crude Oil" given by Gabriel Castaneda. He gave a comprehensive talk about the processes involved with the Canadian crude refining. Thanks to him for this interesting presentation.



Volunteers needed for Sally Ride Science Festival

The young professionals will once again be volunteering at the Sally Ride Science Festival which will be held at Rice University on October 12, 2013. This event is geared towards exciting students in 4th through 8th grade about math and science-oriented careers. We will be performing a chemical engineering related science experiment with the kids. Stay tuned for more details and volunteer opportunities! Contact Lisa Swanson (lisaswanson@providenceeng.com) with any questions.

The advertisement features a vibrant background with diagonal streaks of orange, red, and purple. In the top left corner, the HTRI logo is displayed. The main title 'Xchanger Suite 7' is prominently shown in the upper center, with a large blue 'X' and a grey '7'. Below the title, four key features are listed in white text: 'New module for plate-fin exchangers: Xpfe®', 'New materials of construction database', 'Significantly improved graphing capabilities', and 'Many new and improved features in Xist® including'. A bulleted list follows, with each item preceded by a small blue 'X' icon: 'Ten new methods backed by proprietary research', 'New data entry form based on TEMA input sheet', 'Enhanced tube layout capabilities backed by ASME mechanical design', and '3D visualization of exchangers'. The HTRI logo appears again in the bottom right corner. At the bottom, a dark grey banner contains the slogan 'We're changing the future of heat transfer™' on the left and the website 'www.htri.net' on the right.

HTRI

Xchanger Suite 7

New module for plate-fin exchangers: Xpfe®

New materials of construction database

Significantly improved graphing capabilities

Many new and improved features in Xist® including

- X Ten new methods backed by proprietary research
- X New data entry form based on TEMA input sheet
- X Enhanced tube layout capabilities backed by ASME mechanical design
- X 3D visualization of exchangers

HTRI

We're changing the future of heat transfer™

www.htri.net

Fifth Annual Engineering Day Is Coming Soon!

The City of Waco Engineering Department (<http://www.waco-texas.com/engineering.asp>) will be co-sponsoring the fifth annual Engineering Day. This year, **Engineering Day 2013** is scheduled for **Tuesday, October 15th** at the Waco Convention Center.

Over the past years attendance has grown from approximately 750 students and 24 firms, to over 2000 students and 3 dozen firms, colleges, and state agencies. The support from local engineers and the participation of the schools in the county continues to exceed all expectations. We have now had over 4,000 students attend in the first four years.

The purpose of engineering day is to generate interest in our field with students at a time when they start to look at career choices. We have reserved the same room as last year with the hope that we can continue to broaden the spectrum of engineering disciplines, adding environmental and construction exhibits, and increase student participation.

We are beginning the process of compiling the layout and coordinating the exhibiter needs (power please bring extension cords; tables, chairs, etc.). There are no costs for the exhibitors or the students.

We have reserved the McLennan Room in the Waco Convention Center for Tuesday, October 18th. The start approximately at 8:30 AM and run until 4 PM.

For more information, Please contact George Hill, P.E. (254-750-6622 or GeorgeH@ci.waco.tx.us) .

Please Come to join in Us !

PE Refresher Course Offered Spring 2014

The STS-AIChE & the University of Houston will sponsor a Chemical Engineering Professional Engineering Review Course, Spring of 2014.

The course will be held at UH from 4:00 to 7:00pm on Friday afternoons beginning January 17 through April 4. The cost for the course (not including books) is \$875 for non-members, \$650 for members of both National AIChE and STS-AIChE.

We have continued to update the curriculum based upon feedback from the students over the past three course offerings.

Registration is open until December 20. Contact Dale Embry at dale.l.embry@member.aiche.org or 832-815-1552 for more information.

Preliminary Schedule - Spring 2014 PE Exam Review Course for Chemical Engineering

Dates 2014	Topic	Instructor
17-Jan	Introduction; Mass/Energy Balances & Thermo I	Dale Embry
24-Jan	Mass/Energy Balances & Thermodynamics II (3)	Gary Gildert/Dale Embry
31-Jan	Thermodynamics III (1); Fluid Mechanics I (2)	Dale Embry; Todd Willman/Carol Schmidt
7-Feb	Fluid Mechanics II (3)	Todd Willman/Carol Schmidt
14-Feb	Heat Transfer I (3)	Dennis Glascock
21-Feb	Heat Transfer II (1); Separations Processes (2)	Dennis Glascock; Jose Bravo
28-Feb	Separations Processes II (3)	Jose Bravo or Carlos Trompiz
7-Mar	Kinetics I (3)	Gary Gildert
14-Mar	Spring Break	
21-Mar	Kinetics I (1); Plant Design & Economics (2)	Gary Gildert; Dale Embry
28-Mar	Plant Design & Operations (3)	Katherine Leskin
4-Apr	Sample Test Exam (3)	

All classes will meet on Fridays from 4:00 - 7:00 P.M.

Important Dates:

PE Exam: Friday, April 11, 2014

Application Deadline: Monday, December 13, 2013

PE Review Course Registration Deadline: Friday, December 20, 2013, 5:00pm

PE Exam Registration Deadline: Thursday, February 20, 2014

UH Contact: Nicolette Solano

Phone: 713-743-4304

Email: nsolano2@Central.UH.EDU

AIChE Contact: Dale Embry

832-815-1552

dale.l.embry@member.aiche.org

Texas Board of Professional Engineers (TBPE) www.tbpe.state.tx.us

National Council of Examiners for Engineering and Surveying (NCEES) www.ncees.org

Books used in the course: Study Materials can be found at <http://ppi2pass.com/> & www.ncees.org

✦ Chemical Engineering Reference Manual for the PE Exam ISBN-10:1-59126-007-8

✦ NCEES PE Exam Chemical Sample Questions and Solutions ISBN:978-1-932613-52-0

2014 Chemical Engineering PE Exam Review Course Registration Form

Books used in the course: Study Materials can be found at <http://ppi2pass.com/> & www.ncees.org

- Chemical Engineering Reference Manual for the PE Exam ISBN-10:1-59126-007-8
- NCEES PE Exam Chemical Sample Questions and Solutions ISBN:978-1-932613-52-0

Name (First Last) _____

Preferred Email Address _____

Phone Number (must accept text messages) _____

Shipping Address

Address _____

City _____ State/Province _____ Postal Code _____

Billing Address check if same as shipping address ☐

Address _____

City _____ State/Province _____ Postal Code _____

Drivers Licence (#,State): _____ Birthdate (mm/dd/yy): _____

Gender ☐ M ☐ F

Payment Type Visa Mastercard Discover Check (enclosed)

Card # _____ Expiration Date _____ Security Code _____

AICHE Membership Number (for discounted membership price) _____

I authorize STS-AIChE to charge \$ _____ for payment of the PE Exam Review Course using the above credit card information provided.

For National AIChE & STS members - \$650

For non-members - \$875

Signature _____ Date _____

Please send this registration form to:

e-mail: dale.embry@member.aiche.org

Mail checks to:

STS-AIChE
P.O. Box 421373
Houston, TX 77242

You will receive a confirmation by email within several days of receipt.

Limited space - reserve your space now (cut-off for class registration – December 20th)

Cancellation Policy –by 12/15 - full refund, 12/20 – ½ refund, after 12/20 – no refund

Syamal Poddar Article received the 2013 F&PD Distinguished Service Award



**Syamal Poddar displays his
2013 F&PD Distinguished Service Award.**

The AIChE Fuels and Petrochemicals Division (F&PD) each year recognizes an individual's outstanding services to the division. For 2013, the Distinguished Service Award winner is Dr. Syamal K Poddar, an active member of over 35 years and a Fellow of the AIChE. The 2013 F&PD Distinguished Service Award was presented during the F&PD Awards Dinner at the past Spring National Meeting in San Antonio on April 20, 2013.

Dr. Syamal Poddar is the Founder President of the consulting company, Poddar & Associates, consulting nationally and internationally. His 35+ year industrial career includes working for two major companies, Exxon Research & Engineering and Bechtel Corporation, with diversified management and global professional & leadership responsibilities. In addition to his industrial career, he maintained his teaching interest as an adjunct faculty, for several years in the past. As a part of his consulting activities, Dr. Poddar has given several technical, project & business development and leadership courses nationally and internationally.

With Bachelors and Masters Degrees in Chemical Engineering from Jadavpur University, India, Dr. Poddar earned his Ph.D. in Chemical Engineering from the University of Pennsylvania. In addition to authoring 44 technical papers and 2 US patents, he has made numerous technical and business presentations at national and international conferences and organized & chaired many such conferences and received several national and international awards and recognitions.

A veteran volunteer, Syamal led social and professional organizations with tangible membership growth with value added activities. Syamal has held practically all leadership roles for F&PD. As treasurer he successfully led the division through a difficult transition. He is a member and past director of the Management Division, member of Board of Trustees of the Foundation, past member of Operating Council (SIOC) and-Environmental Division, and, for many years, a member of the South Texas Section of the Institute. Most recently he has been elected member of the Fellows Council chairing the institute's Speakers Comer. He is a PE registered in the state of Texas.

PROCESS
ENGINEERING ASSOCIATES, LLC
"Excellence in Applied Chemical Engineering"

Process Design Services
Process Modeling & Simulation
Plant Operations Support
Process Safety Services

Chemical Engineering Services - Nothing Else
new Gulf Coast Office in Daphne, AL

www.processengr.com

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.cmhouston.org>) also has outreach programs.

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

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).

More Volunteering Opportunities

K-12 Co-Coordinator. STS participates in several K-12 events a year, and with good planning and publicity, they get a good turnout. Events are conducted by HMNS, IEEE, ECH, OTC, SEFH, schools, the Houston Children's Museum, Boy Scouts, and others. Your job will be to help select events appropriate for STS, publicize our participation within STS, and do some event coordination. The majority of our participants are YPs, so this would be a great experience for a YP. It's also a great way to give something back to the community. If you want to learn more, contact Matt Kolodney (Matthew.Kolodney@tceq.texas.gov).

ECH Councilor. The Engineering, Science, and Technology Council of Houston is an umbrella organization of local sections of national professional societies (such as STS-AIChE), local-only organizations (such as the Houston Geological Society), and local nonprofit organizations such as the Houston Museum of Natural Science. ECH helps behind the scenes with the Science and Engineering Fair of Houston. It gives annual awards for K-12 science & engineering education. STS is entitled to another councilor. Participation is a great way to network with people in other technical areas, to learn from other technical societies bring good ideas back to STS, to participate in intersociety leadership training, and to do things cooperatively that STS doesn't have the resources to do alone. It's also an opportunity to learn more about Greater Houston and provides growth opportunities beyond those of STS and AIChE. You can learn to identify opportunities, organize a program or event, reach out for support, and execute. If you want to learn more, contact Matt Kolodney (Matthew.Kolodney@tceq.texas.gov).

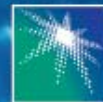
Science & Engineering Fair of Houston. The fair has been transferred from UH Downtown to UH Central, and UH Central Campus is looking to expand and improve it. There are opportunities on a variety of SEFH organizing committees. It's a great opportunity to network and learn about K-12 outreach. If you want to learn more, contact Matt Kolodney (Matthew.Kolodney@tceq.texas.gov).

Excellence in Education Awards. The Engineering, Science, and Technology Council of Houston provides awards for Excellence in Education. ECH asks its member societies (such as STS) to nominate possible awardees. We are looking for programs involving schools and companies or nonprofit organizations. If you would like to learn more or nominate a program, contact Matt Kolodney (Matthew.Kolodney@tceq.texas.gov).

E-Week Committee Representative. Engineers' Week events in Houston are sponsored by the Houston Section of the Texas Society of Professional Engineers (TSPE). However, it is run by a committee, and each local engineering society is encouraged to send a representative. It's a great opportunity for a YP to network with YPs from other engineering societies, and to get project management experience. It's easier to get to the biweekly 5:45 p.m. meetings if you work near or west of Beltway 8. Our representative gets to attend the Engineer of the Year Banquet free. If interested, call Lisa Swanson.

Leadership Development. Leadership is teachable, but is not taught in engineering school, or by many employers. However, you can learn many parts of it at STS and AIChE. The AIChE annual Local Section Leader Workshop (LSLW) is valuable, but doesn't reach enough of our national members. So, AIChE wants to explore new paradigms. If you have new ideas and/or would like to explore the new paradigms, contact Matt Kolodney (Matthew.Kolodney@tceq.texas.gov).

أرامكو السعودية
Saudi Aramco



9:25AM

**PIONEERING ADVANCES IN RESEARCH
TO SHAPE THE FUTURE OF ENERGY**

5:25PM

**PIONEERING UNCHARTED
TERRITORY BENEATH THE WAVES**

RESEARCH & DEVELOPMENT PROFESSIONALS

Join a multidisciplinary team of R&D professionals providing research and consulting services at Saudi Aramco. Work on a wide range of R&D pursuits. Utilize state-of-the-art facilities to develop groundbreaking technologies in petrochemical areas using hydrocarbon as feedstock. Investigate advanced petroleum fuel formulations for next-generation combustion engines. Analyze properties of reservoirs using nano-scale robots. (Resbots™). Collaborate with leading scientists at the Saudi Aramco Research & Development Center and around the world through its global R&D network. Beyond work, enjoy a flexible schedule that offers a chance to explore the wealth of activities in Saudi Arabia. Saudi Aramco provides a work-life balance and a chance to do it all.

Visit us at the AIChE Annual Meeting.

DREAM BIG at www.Aramco.Jobs/AIChE

South Texas Section AICHE

STS AICHE
P. O. Box 421373
Houston, TX 77242

2013 Officers and Contact Information

Officers

Chair Gary Gildert
sts-chair@aiche.org

Chair Elect Carol Schmidt
sts-chairelect@aiche.org

Past Chair James Turner
sts-pastchair@aiche.org

Secretary Kelly Richardson
sts-secretary@aiche.org

Treasurer Ven Pinjala
sts-treasurer@aiche.org

Executive Committee

Position 1: Education
Shane Tierling
sts-position1@aiche.org

Position 2: Outreach
Bill Epling
sts-position2@aiche.org

Position 3: Communications
Aiying (Annie) Li
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: Carlos Salamanca
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>>



SUBSCRIBE/UNSUBSCRIBE INFORMATION

Our newsletter subscription list is by invitation only.

Subscribe: Click on the following link: [Subscribe](#).

Unsubscribe: Click on the following link: [Unsubscribe](#). Your email address will be removed from the subscriber list.

MAINTAIN YOUR CONTACT INFORMATION WITH STS

Maintain your contact information with the South Texas Section using the online community:

<https://www.memberconnections.com/olc/pub/CHM/>

To update your information, log in, then select [Member Directory](#).

Select the link to [View/Update Your Online Directory Listing](#).

Contact the New York office for PERMANENT ADDRESS CORRECTIONS:



xpress@aiche.org



1-800-AICHE (1-800-242-4363)



AICHE Express Service Center
3 Park Avenue
New York, New York 10016-5991

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

Aiying (Annie) Li
Fluor Enterprises, Inc
1 Fluor Daniel Drive
Sugar Land, TX 77478
(281) 263-8607
Aiying.Li@fluor.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

Reserve your ad space! Contact:

Teresa Jurgens-Kowal
Global NP Solutions, LLC
2323 Clear Lake City Blvd., #180
Suite 177
Teresa@globalnpsolutions.com

