

# Gulf Coast Section

NEWSLETTER



Gulf Coast Section

## General Meeting

RPSEA: A Unique Sort of Oilfield Technology  
Development Program

## Technical Meetings & Luncheon

Shale Gas Completion Technology Symposium

Petrobras - Preparing for the Future

Drilling Optimization Reduce Drilling Costs -  
Distinguished Lecturer 2010-11 Lecture Season

2011 YP HSSE Conference

## Social Activities

37th Annual SPE GCS Golf Tournament

YP Networking Westside

RWTC Call for Volunteers

# Chairman's Corner

by Mark Peavy, KinderMorgan CO2  
2010-11 SPE GCS Chair

In January, I shared that 'one person with a commitment can generate interest to more than 100 people'. What was meant to be said was that 'one person with a commitment can produce more than 100 people with an interest'. The more commitment one has, the more likely one will make an impact. The question becomes where does commitment come from? The answer is passion. My message this month is about passion, and the direction of Gulf Coast Section educational initiatives.



Passion is closely intertwined with fierce resolve, the second half of servitude leadership. It is an intense driving, deeply stirring desire for or devotion to some activity, object, or concept. It comes from within the heart, and is the difference between frustration and serenity. Passion is behind the energy of greatness. People with passion live in the 'now' and make changes in the world today. But when we are filled with pride, it is hard to be filled with passion. I encourage you to show that you care for those around you, and know that 'today' is the day to live. Know that time is life, and if you waste your time, you waste your life. Focus on all 24 hours of the day. Take time for your own emotional and physical needs, and know that time management is energy management. Match your daily priorities with your passions because 20% of our time produces 80% of our results. Always work on your strengths so that your strengths overcome your weaknesses and your weaknesses become irrelevant. Lastly, please consider giving a small portion of your passion to your industry's professional society, the Society of Petroleum Engineers, and thank you to those who already give of their time and energy.

Over the past four years the GCS has aggressively pursued a plan of putting more of our assets into worthwhile educational programs within the community with the purpose of creating foundations to elicit more interest in the petroleum industry. In 2006-07, section assets were \$1MM dollars and climbing. As a result, an ad-hoc education committee was formed to evaluate options for educational giving. This resulted in the section supporting five educational programs: SPEGCS merit scholarships, CISH 'at-risk' scholarships, an endowment for the undergraduate petroleum engineering program at the University of Houston, the Collaborating in Houston for the Advancement of Science and Engineering (CHASE) program, and scholarships for the Houston Community college (HCC) Petroleum Engineering Technology program.

The first program is merit based scholarships, and are the traditional scholarship provided by the GCS. Over the past three average

## Reservations & Information

For all SPE GCS topical luncheons and social activities, please register online at [www.spegcs.org](http://www.spegcs.org). You must provide your SPE member number to receive member prices. Guests who have not made a reservation online will be charged an additional amount at the door. Walk-ins are not guaranteed admittance.

- Reservations and cancellations required for all events.
- No-shows will be billed.
- Walk-ins will be charged extra.

*Mastercard, Visa, American Express, and Diner's Club are accepted for advance reservations only. The technical and other opinions expressed by speakers at the Gulf Coast Section meetings may not have been reviewed by SPE and do not necessarily reflect the position of SPE, the Gulf Coast Section, its officers, or members. The only forum for rebuttal and discussion is during the meeting.*

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## SPE Houston Office

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## Newsletter Committee

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Treasurer	<b>Manas Gupta</b>
Features	<b>Buddy Woodroof</b>

*For comments, contributions, or delivery problems, contact [gcsnewsletter@spemail.org](mailto:gcsnewsletter@spemail.org). The deadline for each issue is 6 weeks before publication on the first of each month. The SPE Gulf Coast Section newsletter is published eleven times each program year and is mailed to more than 14,000 SPE members in Houston.*

## Advertising

*For information on advertising in this newsletter or on the SPE GCS web site at [www.spegcs.org](http://www.spegcs.org), please contact **Pat Stone**, Star Lite Printing, at (281) 530-9711, [starlite1@sbcglobal.net](mailto:starlite1@sbcglobal.net) or [rstone51@comcast.net](mailto:rstone51@comcast.net).*

## Change of Address

Society of Petroleum Engineers  
Member Services Dept.  
P.O. Box 833836  
Richardson, Texas 75083-3836

1-800-456-6863  
[service@spe.org](mailto:service@spe.org)

# General Meeting

## RPSEA: A Unique Sort of Oilfield Technology Development Program

Speaker :	<b>James Pappas</b> RPSEA (Research Partnership to Secure Energy for America)
Date & Time:	11:30 a.m. luncheon Thursday, March 10
Location:	The Petroleum Club 800 Bell Street Houston, Texas 77002
Cost:	\$35 per member preregistered \$40 per nonmembers and walk-ins
Registration:	<a href="http://www.spegcs.org">www.spegcs.org</a>
Deadline:	5 p.m., Tuesday, March 8

*Valet parking is available at the ExxonMobil Building for \$7. If you have special dietary needs, please note your meal request when you register on-line in the box labeled "Optional comments for the event planner."*

This presentation will discuss the structure, membership, and mission of the Research Partnership to Secure Energy for America (RPSEA).

The presentation will then focus on the United States Government's Section 999 Research & Development (R&D) program by reviewing selected projects. The process of project selection and technology dissemination will be discussed. This R&D program utilizes \$37.5 million per year of directed United States Department of Energy (DOE) funds.

The presentation will close out with an explanation of the RPSEA's current status and plans.

**James Pappas** is vice president of Ultra-Deepwater Programs for RPSEA (Research Partnership to Secure Energy for America) in Sugar Land.



He has been involved with the Society of Petroleum Engineers for 30 years.

He has served SPE as a director and chair for various programs and meetings such as the OTC, ATCE, LACPEC and more. He is also past chair of SPE GCS.

He has authored over 40 papers, spoken at various conferences, and interviewed on topics such as Monte Carlo reservoir simulation, project management, drilling, government and more.

James holds a BS degree in chemical engineering and a BA in chemistry from the University of Texas at Austin. He also received his MBA from the University of Texas at Tyler.

He received numerous accolades including the SPE-Gulf Coast Section and SPE Gulf Coast Region Service Awards, as well as both the Houston Engineer of the Year in 2007 and Texas Engineer of the Year by the Texas Society of Professional Engineers in 2008, and he was selected Distinguished Engineer in Texas by the Texas Engineering Foundation in 2008. He has been a Registered Professional Engineer in Texas since 1985.

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Continued from page 2

merit based scholarship spending has averaged \$214,000 ( \$3000 scholarships for 71 students). The second program is Communities in Schools Houston (CISH). The scholarships are provided to 'at-risk' youths to attend college classes. The CISH mission is to prevent kids from dropping out of school. The program is a nationwide program, and locally has over 2,000 volunteers contributing over 68,000 hours this past year. At-risk based scholarships have averaged \$50,000 over the three- year period, but have steadily increased from \$30,000 to \$69,000. The third program was a gift to the University of Houston's undergraduate petroleum engineering program of \$250,000. The fourth program is the CHASE program, an initiative to provide math training to 8th grade algebra teachers to make them more effective in the classroom. This program was developed as a 'grassroots' pilot project by the SPE GCS in collaboration with HCC and the University of Houston, and was based upon significant data that indicated that 8th grade math is a hinge point in a student's path towards advanced science and engineering curriculum. Shell currently co-sponsors this program with the GCS. The three-year average funding for CHASE was \$40,219, and has grown based upon moving from a Phase 1 - six teacher program to a Phase 2 - fifteen teacher program. A larger Phase 3 program is expected. It is the hope that other companies within the industry will come alongside Shell and the GCS. The last program is the two- year HCC Petroleum Engineering Technology program scholarship. This program began in September 2007 with a SPE GCS gift of \$40,000. To date, scholarship awards total \$39,826. Fifty two scholarships have been rewarded to twenty nine students with an average of \$766 per semester. Highlights of this program are that (1) the HCC received approval for a student chapter of the SPE, (2) Fifteen students have graduated from the program with eleven receiving support by the SPEGCS, and (3) four of the graduates are currently enrolled at the UH petroleum engineering undergraduate program.

The time has now come to begin throttling back on these programs in order to maintain a stable asset level of approximately \$500,000 per year. Please feel free to research these programs further on the GCS website at SPEGCS.org, and share your thoughts with me (email : Mark\_Peavy@kindermorgan.com) or another board director.

## Monthly Board Meeting

The Gulf Coast Section board of directors meeting will be held from 7:30 to 10:30 a.m., Thursday, March 17 at the SPE Houston office, 10777 Westheimer Road, Suite 1075 (77042). Board meetings are open to any SPE member, but you must register in advance because seating space is limited. If you would like to attend, please register online at [www.spegcs.org](http://www.spegcs.org) or contact Sharon Harris at 713-457-6821 or [sharris@spe.org](mailto:sharris@spe.org).

The GCS Board of Directors will be evaluating these programs to determine the appropriate future spending levels for these projects in the month ahead.

### Monthly Membership Report Gulf Coast Section January 2011

#### Have You Forgotten to Pay your 2011 Dues?

The chart below shows that our unpaid members doubled from 1,452 to 2,937. As of January 1, if you have not paid your dues, you will no longer receive *JPT* or be considered an SPE member. Renewing is easy: visit [www.spe.org](http://www.spe.org) and pay by credit card. Don't miss out on the many benefits of SPE membership. Renew today!

	Jan-11		Dec-10	
	Total	YP (subset)	Total	YP (subset)
<b>SPE-GCS Members</b>	<b>10,344</b>	<b>1,702</b>	<b>14,154</b>	<b>2,675</b>
New Members	98	54	112	56
Reinstated Members	10	2	5	2
Transferred to Section	75	28	68	24
Transferred out of Section	86	24	52	17
Unpaid	2,937	1,213	1,452	483
<b>Student Members</b>	<b>Paid</b>	<b>Unpaid</b>	<b>Paid</b>	<b>Unpaid</b>
- Texas A&M	457	242	802	132
- UH/Rice	73	54	179	58
- HCC	10	8	24	2
- Unassigned	6	4	15	6
<b>Total</b>	<b>546</b>	<b>308</b>	<b>1,020</b>	<b>198</b>
<b>Grand Total Paid/Unpaid</b>	<b>10,890</b>	<b>3,245</b>	<b>15,174</b>	<b>1,650</b>
<b>% Paid</b>	<b>77.0%</b>		<b>90.2%</b>	

**Congratulations to Ray Chavers of Baker Hughes**, who is the Gulf Coast Region's Membership Recruiting Contest winner. He recruited 5 or more members and won \$500!

Thanks also go to **Tracy Fowler**, who got a lapel pin from SPE for recruiting her first SPE member.

## Volunteer Spotlight



**Fady Chaban**

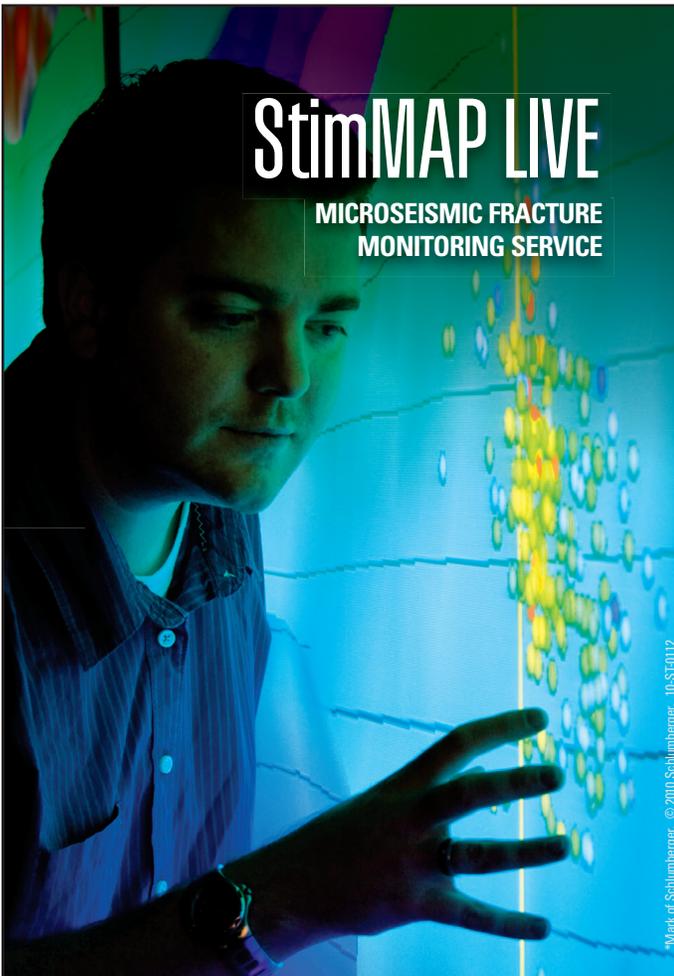
This month SPE Gulf Coast Section would like to recognize **Fady Chaban**, senior technical consultant at Gate LLC, for being a trusted volunteer for the reservoir study group.

After earning his MS in petroleum engineering from Texas A&M, Fady was a reservoir engineer at PDVSA Intevep, where he won a big prize for his outstanding technical contribution to the company in 2001. Afterward, he was promoted to Ayacucho technical coordinator for PDVSA's Magna reserve project, here he estimated reserves, potentials, property definition, and technological strategies for future exploitation of the heavy oil area located in Orinoco belt. Today he does reservoir engineering studies, numerical reservoir simulation and characterization, and offshore waterflood design, monitoring and optimization at Gate LLC, a deepwater engineering consulting company.

Fady also authored SPE Paper #124857, "*A Unified, Multidisciplinary Approach to the Planning and Design of Deepwater Waterflooding Projects.*"

Jaime Villatoro, chairman of the reservoir study group, praised Fady's active participation, citing his extra effort as co-chair of the 2010 Reservoir Forum. "Fady played a lead role in obtaining and organizing speakers, especially finding a replacement for a last-minute cancellation. He was an energetic and key part of the team."

Thank you, Fady, for pitching in and helping out in a pinch. Employers in our industry value such qualities highly.



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# Business Development Study Group

## Resource Play & Shale Reservoir Appraisal & Development through Microseismic and related Technologies

**Speakers :** **Chris Neale**  
MicroSeismic, Inc.

**Craig Cipolla**  
Schlumberger

**Date & Time:** 5:30 p.m. - 6:30 p.m. Social Hour  
6:30 p.m. - 7:30 p.m. Program  
Wednesday, March 23

**Location:** Four Seasons Hotel  
1300 Lamar, (Between Caroline & Austin)  
2nd Floor Mezzanine and Meeting Rooms

**Cost:** \$35 members (in advance online)  
\$40 nonmembers (in advance online)  
\$40 at the door

**Registration:** [www.spegcs.org](http://www.spegcs.org)  
**Deadline:** Noon, Monday, March 21

*Advance registration guarantees your reservation & printed name tag!  
Hors D'Oeuvres Provided, Cash Bar*

Our March meeting will feature Senior Technological Pioneers representing leading developers, providers and E&P users of the Award winning innovations in the science of Microseismic, and related technologies. Their accomplishments, and the resulting stimulus on Oil and Gas Resource play development, have impacted the Industry in the U.S. and abroad.

Our members and guests will be briefed on recent highlights and performance of microseismic, and gain insights on key topics such as Shale reservoir characterization, fracture mapping and monitoring, surface and buried-array monitoring, geophysical processing, analysis, and visualization, geological interpretation, and enhanced drilling and drilling safety.

We welcome you to join us for this informative discussion, as well as the fellowship and networking of the popular Social Hour at 5:30 pm. Enjoy the opportunity to meet with colleagues and gain a number of key insights for profitably growing, optimizing, and financing your business.

**Chris Neale** spent 18 years with Texaco working and living in Saudi Arabia, China, Scotland, Indonesia and Australia, initially as a reservoir engineer, and subsequently moving into engineering and operations management.



Prior to joining MicroSeismic, Inc. in 2003, he spent two years as the director of energy business development

for the Houston Technology Center and as director of business development for Cogos Software, Inc. He was a founding participant of the Houston Technology Center's energy program executive committee. He has a BS in mechanical engineering from Texas A&M University and an MBA from Rice University. He is a past chairman of the Saudi Arabia Section of the SPE.

**Craig Cipolla** is an engineering advisor for Schlumberger, Houston, currently focusing on the application of microseismic fracture mapping to improve stimulation designs and field development strategies.



Before joining Schlumberger, his most recent positions were vice president of stimulation technology for Carbo Ceramics and vice president of engineering for Pinnacle Technologies. He also held positions with Union Pacific Resources, CER Corporation, and Dresser Titan. Craig's 29 years of worldwide experience includes the application of microseismic and tilt-meter fracture mapping technologies, the design and evaluation of hydraulic fracturing treatments, tight gas reservoir engineering, integrated field studies, training, and supervising stimulation treatments. He has co-authored over 50 technical papers and was an SPE Distinguished Lecturer on hydraulic fracturing in 2005-2006. He holds undergraduate degrees in engineering and chemistry from the University of Nevada-Las Vegas and a MS in petroleum engineering from the University of Houston.

# AUXILIARY

## March 2011 Activities

**DATE:** Friday, March 11, 2011

**TIME:** 11:00 AM

**PLACE:** Lynn's Steak House  
955½ Dairy Ashford 77079  
281-870-0807

**PROGRAM:** Tentative: Houston Bonsai Society  
Call to Confirm

**COST:** \$32 (Checks Only Please)

**DEADLINE:** Tuesday, March 8  
**Deadlines are FIRM**

**CONTACTS:**

Nancy Hill  
281-435-1619  
[Nancyhill2444@sbcglobal.net](mailto:Nancyhill2444@sbcglobal.net)

Evelyn Earlougher  
281-419-1328  
[earlougher@comcast.net](mailto:earlougher@comcast.net)

**BOOK CLUB:**

**DATE:** March 23  
**TIME:** 10:00 AM  
**PLACE:** Audrey Van Inwagen  
**DISCUSSION LEADER:** Karen Mermis  
**BOOK:** "A Reliable Wife" by Robert Goolrick  
**CALL:** Martha Lou Broussard at 713-348-4492

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# Shale Gas Completion Technology Symposium

Sponsored by the SPE-GCS Completions & Production Study Group

Mark your calendars!

**Tuesday, March 1, 2011**

9 am – 4 pm

Anadarko Tower (Allison Hall Conference Center)  
1201 Lake Robbins Drive, The Woodlands, TX

Cost: \$80.00

Did you miss the SPE-ATCE Conference in Florence this year? If you did, then come join us as we bring a little bit of Italy to you, with this special SPE-GCS Completions & Production Study Group sponsored symposium. This symposium will bring several outstanding author-presenters who presented their papers at the SPE-ATCE in September; they will speak on topics of interest in the shale gas completion production technology arena. Among the confirmed presenters are subject matter experts from several operating companies and service companies who will discuss fracturing treatments, field studies, re-stimulations, etc. **Sign up now. Limited capacity!**

9:00 – 9:45 AM - SPE 135502 - Proppant Selection and Its Effect on the Results of Fracturing Treatments Performed in Shale Formations; Authors: J.M. Terracina, SPE, J.M. Turner, SPE, D.H. Collins, SPE, and S.E. Spillars, SPE, Hexion.

9:45 – 10:30 AM – SPE 134330 - Refracs – Why Do They Work, And Why Do They Fail In 100 Published Field Studies? Author: M.C. Vincent, SPE, consultant to CARBO Ceramics, Inc.

10:30 – 10:45 AM - Break

10:45 – 11:30 AM – SPE 134165 - Improving Stimulation Effectiveness – Field Results in the Haynesville Shale. Authors: C.D. Pope, SPE, Complete Shale; T.T. Palisch, SPE, CARBO Ceramics; E.P. Lolon, SPE, and B.A. Dzubin, SPE, StrataGen Engineering; and M.A. Chapman, SPE, CARBO Ceramics.

11:30 – 12:15 PM SPE 133380 - Methods for Enhancing Far-field Complexity in Fracturing Operations; Authors: Loyd East, Jr., SPE, Halliburton; M.Y. Soliman, SPE, Pinnacle—A Halliburton Service; and Jody Augustine, SPE, Halliburton.

12:15 – 1:15 PM – Lunch – *Best Lunch in Houston.*

1:15 – 2:00 PM – SPE 135386, Comparative Study of Cemented Versus Uncemented Multi-Stage Fractured Wells in the Barnett Shale; Authors: Darrell Lohoefer, SPE, Eagle Oil & Gas, and Daniel J. Snyder, SPE, Rocky Seale, SPE, and Daniel Themig, SPE, Packers Plus Energy Services.

2:00 – 2:45 PM – CSUG/SPE 136757, Re-stimulation of Unconventional Reservoirs: When are Refracs Beneficial? Author: M.C. Vincent, Consultant.

2:45 – 3:00 PM – Wrap-up.

3:00 PM – Adjourn

## THEN & NOW



by Buddy Woodroof, ProTechnics  
Features Editor

### March 1981

Soviet Premier Brezhnev's energy message to the Communist Party Congress is to continue producing oil from western Siberia primarily for export and for the Russians themselves to expand coal, gas, and nuclear energy production for domestic consumption. • Occidental Chief Armand Hammer reports that the U.S. could help Mexico double its oil production in 3-5 years and hike exports to the U.S. from 700,000 BOPD to 2 million BOPD, thus leading to a dramatic shift in U.S. dependence on Middle East sources. • St. Thomas Island's fragile economy appears to be on the bubble, as Amerada Hess threatens to shut down its St. Croix refinery, the world's largest, if St. Thomas does not back down from its proposed tax levies. • A number of major operators launch efforts to diversify into minerals, namely Standard Oil of Ohio's bid for Kennecott Copper and Standard Oil of California's bid for Amax Mining.

U.S. active rig count – 3,563

### March 1991

A joint venture between the Soviets and Halliburton Geophysical reportedly plans extensive seismic surveys in Soviet offshore frontiers. • ARCO gives the green light to develop the Point McIntyre field—at an estimated 300 million bbl the biggest U.S. discovery in almost a decade—on Alaska's North Slope. • Exxon is reportedly balking at Alaska's \$1.2 billion proposal to settle its lawsuit related to the Exxon Valdez oil spill and its counteroffer was dismissed. • Ali al-Qabindi, coordinator of Kuwait's well fire containment campaign, claims that it will take 5 years to complete the reconstruction of Kuwait's oil industry. • The Port of Corpus Christi begins measuring support among companies shipping oil across Corpus Christi Bay for the

Gulf of Mexico's first inshore deepwater oil port.

Light sweet crude oil - \$19.83/bbl  
U.S. active rig count – 949

### March 2001

The Canadian oil sands boom continues apace, as Husky Energy and Imperial Oil both report plans to invest \$1 billion+ to expand their oil sands operations. • The Polar Lights project in Russia, a joint venture of Conoco and Russian partners Arkhangelskgeoldobycha and Rosneft and the first Russian-American JV company to develop an oil field in Russia, reports passing the 75 million bbl production mark in its harsh arctic tundra environment 1,000 miles northeast of Moscow. • A natural gas leak from an underground salt storage unit that erupted in Hutchinson, Kansas killing two residents remains a mystery and continues to haunt local residents. • The Bush administration reports the need to develop more refining capacity to prevent future product shortages. In support of this proposal, they mentioned that there had been no new refineries built in the U.S. in 25 years.

Light sweet crude oil - \$27.06/bbl  
Natural gas - \$5.01/MMBTU

### The Rest of the Yarn

This month we continue our look-back at the life and times of Sid Richardson, one of the "Big Four" oilmen who laid the foundations of a flamboyant lifestyle that would come to define the image of Texas Oil.

Much of what is known about Richardson's early years comes from stories Richardson himself told to friends, family, and rarely a reporter, but any listener knew to take them with a grain of salt. He came from humble beginnings, that much is sure. Born in 1891, his mother named him Sid Williams after an itinerant evangelist. As was Clint Murchison, Richardson was born in Athens, Texas, one of seven children; three of his siblings died before the age of seven. He grew up living behind the family's business...a saloon. In later years Richardson joked that his family was so poor that he sometimes slept on the pool table. Friends joked that Richardson, a heavy drinker in his youth, had probably passed out there. Family stories suggest that Richardson, unlike his close friend Clint Murchison, was not exactly a go-getter early-on. He was fired from an after-school job at a cotton press for laziness. As a youth he had a reputation for not paying his debts, and his father tried numerous ways to straighten him out. At the age of eight, Richardson's father gave him a small downtown lot to teach him about business. Shortly thereafter, his father offered to take back the lot in return for a bull. Sid took the bull—only to realize

that he then owned a large male cow with nowhere to put it and no female cows with which to breed. When he was eleven, his father suggested it was time for him to own a horse. Upon asking when his dad would give him the horse, he was told that he would have to buy it from him. So, Sid worked all summer crating peaches to raise the money, only to discover after he bought the horse from his dad that the horse was blind. Upon accusing his dad of cheating him, he was told to let the buyer beware. He often commented about how his dad taught him some hard lessons about trading, but in the process, he made him a trader for life.

Richardson's career would be marked by an ability to befriend those who could help him most, and one suspects that sixteen-year-old Sid's interest in eleven-year-old Clint Murchison was his father's money. The elder Murchison, in fact, later lent Richardson several thousand dollars to buy cattle. Taking Clint under his arm wasn't just an amiable deed. It proved to be smart business. During his senior year in high school in 1909, Richardson claimed to have made thirty-five hundred dollars in profits.

Next month, Richardson drinks his way through college, gets his introduction to the oil patch, and a buggy accident almost cost's him a leg. (Article excerpted from "The Big Rich.")

### History Quiz

What German immigrant funded the building of the first commercial American-built diesel engine?

*If you would like to participate in this month's quiz, e-mail your answer to [contest@spe.org](mailto:contest@spe.org) by noon March 15. The winner, who will be chosen randomly from all correct answers, will receive a \$50 gift card to a nice restaurant.*

### Answer to February's Quiz

When Standard Oil was dissolved, it was done on a state-by-state basis. The merger of the original companies Standard Oil of New York and Standard Oil of New Jersey has ultimately resulted in present day operator ExxonMobil.

### Answer to January's Quiz

In 1999 there were 26 rigs working in the deepwater (1,000 ft or more water depth) Gulf of Mexico. That number climbed to a record-setting 40 in the year 2000. At the close of the year 2000, there were 7 rigs working in the 5,000 ft or greater ultra-deep water depths.

### Congratulations to January's winner – Erica Frederick with Southwestern Energy

Some estimate that 90% of U.S. onshore gas wells are producing below the critical rate, are liquid loaded, and production is impaired.



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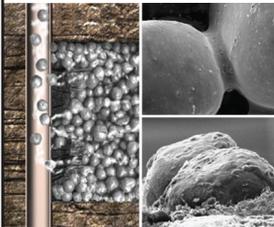
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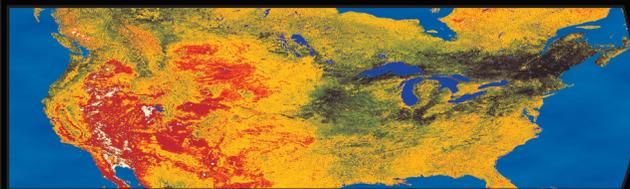
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### When

Monday, April 18<sup>th</sup>, 2011 (Morning and Afternoon rounds)

### Where

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**All sponsorship levels will receive next year's tournament information approximately one month before the general membership mail-out.**

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# Drilling Study Group

## Climbing the Ladder to Cultural Maturity in HSE: Shell's Journey to Goal ZERO

<b>Speaker :</b>	<b>Nicole Baird</b> Shell International Exploration & Production Company
<b>Date &amp; Time:</b>	11:30 a.m. - 1:00 p.m. Wednesday, March 9
<b>Location:</b>	Greenspoint Club 16925 Northchase (77060)
<b>Cost:</b>	\$35 per member preregistered \$40 for nonmembers and walk-ins
<b>Registration:</b>	<a href="http://www.spegcs.org">www.spegcs.org</a>
<b>Deadline:</b>	Noon, Monday, March 7

Over the past few years in Shell, a significant movement towards building a sustainable culture around Health, Safety & Environment (HSE) has been achieved as part of our organization's journey towards "GOAL ZERO". For us, a sustainable culture around HSE means the progression upwards towards an environment of generative behaviors ("it's the way that it's done here) which is achieved through the realization that simplicity drives compliance and compliance is fundamental to achieving a highly reliable organization. Additionally, from a GOAL ZERO perspective, we know that violations are a major cause of incidents and procedural complexity is a major source of violations. This keynote address will delve into the journey that our Wells organization has made, as part of achieving GOAL ZERO, and provide insights & learnings in terms of where we are headed and the challenges that we will face.

**Nicole Baird** currently holds the position of vice president, Global Wells Business & Performance Improvement for Shell. In this capacity, she has the responsibility for global strategies associated with Shell's real-Time Operations Centers, rDtL (revitalized Drilling the Limit) Performance Implementation & Execution, as well as development of Wells IMIT portfolio to ensure efficiency of both engineering staff and operations. In her career, she also has served as a drilling & completion engineer, deepwater drilling engineer, rig supervisor/company representative and shallow hazards coordinator.



She holds a BS in chemical engineering from the University of Southern California and an MBA from Tulane University.

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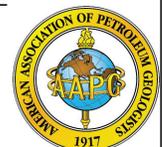
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# International Study Group

## Petrobras – Preparing for the Future

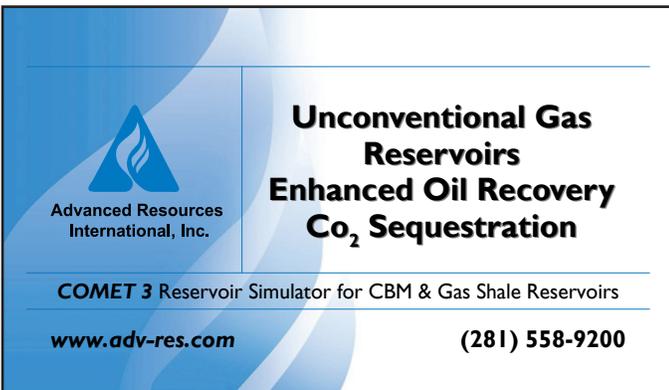
<b>Speaker :</b>	<b>Ted Helms</b> Petrobras
<b>Date &amp; Time:</b>	11:30 a.m. luncheon Thursday, March 31
<b>Location:</b>	Petroleum Club 800 Bell Street (43 <sup>rd</sup> Floor) Houston, TX 77002
<b>Cost:</b>	\$35 per member preregistered \$45 for nonmembers and walk-ins
<b>Registration:</b>	<a href="http://www.spegcs.org">www.spegcs.org</a>
<b>Deadline:</b>	Noon, Tuesday March 29

Mr. Helms will discuss how Petrobras thinks about the future, including its views on oil, gas, and renewables. The presentation will address funding plans for Petrobras' ambitious investment program during the next five years, as well as the company's involvement in developing and shaping Brazil's economy. Regions and segments where capital is currently being allocated and long term capex projections will be addressed. Lastly, a brief introduction to Petrobras' partnership with other IOCs/NOCs will also be given.

**Ted Helms** has a long and varied career in finance and investor relations in Latin America. He graduated from Columbia College in the City of New York in 1981 with a degree in philosophy/economics. He worked for Manufacturers Hanover Trust Co. (now merged with JP Morgan) from 1981 to 1991, as an international banking officer for the Caribbean and Andean regions. His tenure at the bank included representative positions in Peru and Venezuela.

He worked in the New York office of Petroleos de Venezuela S.A. from 1991 to 1999, where he assisted the company in raising corporate and project finance debt to support the company's significant expansion plan throughout the decade.

He joined Petrobras in 1999 as the general manager of the New York office of Petrobras, where he has been involved in a wide range of finance related activities to support the company's growth. He has actively participated in Petrobras's efforts to access the international debt and equity capital markets, including working with the ratings agencies to obtain an investment grade rating for Petrobras. In August of 2007, he was named as the executive manager of investor relations for the company. In 2010, the company completed a \$70 billion secondary offering which was the largest capitalization in history.



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# Northside Study Group

## Utilizing Fluid and Proppant Tracer Results to Analyze Multi-Fractured Well Flow Back in Shales: A Framework for Optimizing Fracture Design and Application

<b>Speaker:</b>	<b>Dick Leonard</b> PROTECHNICS
<b>Date &amp; Time:</b>	11:30 a.m. luncheon Tuesday, March 8
<b>Location:</b>	Greenspoint Club 16925 Northchase (77060)
<b>Cost:</b>	\$30 per member preregistered \$35 for nonmembers and walk-ins pre-registered \$40 per members/nonmembers post registration
<b>Registration:</b>	<a href="http://www.spegcs.org">www.spegcs.org</a>
<b>Deadline:</b>	Noon, Friday, March 4

*Please register early to help us better plan and streamline the luncheon.  
Walk-ins accepted on a space-available basis.*

*Parking: Use the contract entrance. Push the button on the kiosk and tell security you are with the SPE Northside Study Group in the Greenspoint Club.*

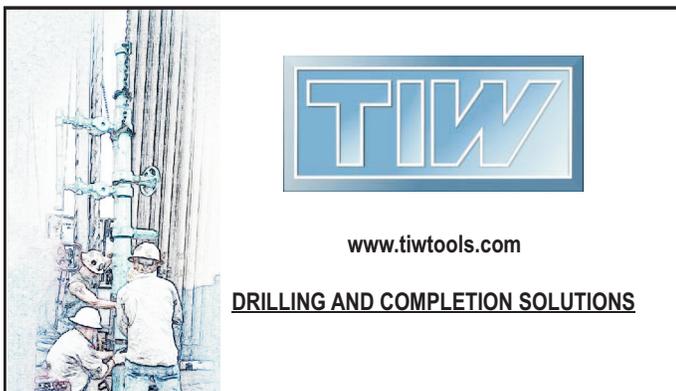
Fluid and proppant tracers and other simple measurements in returning load water flow back can be very useful in helping to describe fracture development in shales; including such parameters as fracture complexity, frac conductivity, height growth, frac barrier effectiveness, well-to-well and frac-to-frac interference, water entry points and general fracturing execution.

This presentation will discuss fluid and proppant tracer results from over a hundred shale frac stages in horizontal wells along with other measurements of frac flow back and blend them with microseismic, frac pumping records, production logging and production results to build a framework for better analysis of frac flow back.

**Dick Leonard** joined ProTechnics after working for 19 years with Union Pacific Resources in several engineering & supervisor positions. At UPR, the majority of his engineering experience dealt with the stimulation of tight sands in East & South Texas & horizontal development in North Louisiana. While he was an engineering supervisor for East Texas, his group pioneered the water-frac technology that is currently being used in many tight sand & shale formations throughout the country. During the last ten years, most of Dick's focus has been on the diagnostic analysis of various shale plays throughout the country.



Dick has co-authored several SPE papers on hydraulic fracturing and diagnostic analyses. He received a BS in petroleum engineering from the University of Texas.





# Permian Basin Study Group

## Residual Oil Zone Symposium

- Speakers :** TBA
- Date & Time:** 11:30 a.m. to 5:00 p.m.  
Monday, April 4
- Location:** Westlake Club  
570 Westlake Park Blvd (77079)
- Cost:** TBA
- Registration:** [www.spegcs.org](http://www.spegcs.org)  
**Deadline:** Noon, Monday, March 28

Residual Oil Zones are formations that contain oil at saturations too low to be produced by primary production or waterflood. However, some projects have already recovered significant new reserves, and the remaining potential for additional floods is great both underneath existing CO<sub>2</sub> floods and even on previously unproductive acreage.

Speakers from University of Texas Permian Basin (UTPB), Kinder Morgan, Legado, Ryder Scott and Hess would share vivid experience in the field of analysis of potential ROZ and its development.

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# Petro-Tech Study Group

## Drilling Optimization Reduce Drilling Costs

### Distinguished Lecturer 2010-11 Lecture Season

<b>Speaker:</b>	<b>Dr. Geir Hareland</b> University of Calgary
<b>Date &amp; Time:</b>	11:30 a.m. luncheon Tuesday, March 8
<b>Location:</b>	Brookhollow Sheraton Hotel 3000 North Loop West (77092)
<b>Cost:</b>	\$35 per member preregistered \$45 for nonmembers and walk-ins pre-registered
<b>Registration:</b>	<a href="http://www.spegcs.org">www.spegcs.org</a>
<b>Deadline:</b>	Noon, Thursday, March 3

Drilling simulation and optimization tools in drilling engineering was lacking behind the other three petroleum engineering disciplines until a global drilling engineering optimization simulator was developed in the late 1990s. The drilling simulator simulates the drilling of wells in advance using offset wells drilling operational data, lithology description and bit records. Based on this information the simulator generates drillability or rock strength log, which is correlated to the formations to be penetrated on the new, planned well.

The simulation of the new well is done by trying different bit designs, pull depths, combination of bit operating parameters and drilling hydraulics. The most economical bit selection and corresponding operating parameters are then selected and sent to the field. During the drilling of the planned wells constant updates are done and the progress monitored, comparing the field data to the pre-planned as well as updating with daily new calculations of critical parameters like bit wear and rock strength.

The past 10 years this approach has been utilized by major operators in the North Sea and Western Canada. The approach has been applied on more than 200 wells with an average depth of 3000m. The results indicate that the drilling learning curve is sharply reduced and that more consistency in the drilling days per well is seen.

The cost reduction in total days has been shown

to be 15-25 percent in mature fields where more than 10 wells were previously drilled and as much as 40-50 percent in areas where less than 5 wells were drilled. This presentation will give the general information about the development and functionality of the drilling simulator technology and how it has been and currently is applied with sample field cases.

The main idea for the members to take away from this presentation is that the drilling simulation is heretoday with real time applications and that large drilling cost saving are possible today by application of this simulation technology.

**Dr. Geir Hareland** holds a BS in mechanical engineering from University of Minnesota, MS in petroleum engineering from University of Tulsa and PhD in mechanical engineering from Oklahoma State University. He has worked with rate of penetration modeling since his days at Amoco Research Center in Tulsa, Oklahoma in the late 1980s. During his tenure as an associate professor at New Mexico Institute of Mining and Technology in the 1990s and from 2000-2004 with Drops Technology in Norway he developed the drilling simulation technology integrated in the DROPS drilling optimization simulator. Since 2004 he has been the CAODC (Canadian Association of Oilwell Drilling Contractors) and NSERC (National Science and Engineering Research Council of Canada) drilling engineering chair and is currently a professor in the Schulich School of Engineering at the University of Calgary.

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# Reservoir Study Group

## Investigating the Expected Long-Term Production Performance of Shale Reservoirs

<b>Speaker :</b>	<b>George D. Vassilellis</b> Gaffney, Cline & Associates
<b>Date &amp; Time:</b>	11:30 a.m. luncheon Thursday, March 24
<b>Location:</b>	Courtyard on St. James 1885 St. James Place (77056)
<b>Cost:</b>	\$35 per member preregistered and prepaid \$40 for nonmembers registered and prepaid \$45 for walk-ins
<b>Registration:</b>	<a href="http://www.spegcs.org">www.spegcs.org</a>
<b>Deadline:</b>	11:30 a.m., Tuesday, March 22

There is worldwide interest in the development of shale plays: North America has attracted noteworthy investments, while other continents are ready to follow that example. Besides the increasing commercial significance of shale plays, traditional volumetric and material balance approaches that are used for petroleum asset evaluation fail to address the special attributes of such formations, or they cannot rely on measurable and practical input. The current practice is to statistically analyze historical records in developed areas and to apply the derived type curves in new areas by assuming performance similarity. Provided that there is a sufficient statistical record base, the assumption of similarity is challenged by the multitude of parameters influencing performance. These tend to differ, introducing considerable uncertainties into predictions. As the advanced drilling and fracture stimulation techniques were introduced in the last decade, historical records support only the early production history, while late performance is extrapolated without many reference points to match.

This presentation investigates the applicability of traditional and non-traditional empirical, analytical and numerical methods that are used to predict shale well performance. The goal is to rationalize the link between natural/stimulated rock description with oil and gas recovery mechanisms in a way that is practical at various scales of resolution and covers early and late times.

**George Vassilellis** is a lead reservoir engineer at Gaffney, Cline & Associates (GCA). He specializes in modeling and forecasting performance with unconventional reservoirs (heavy oil, tight gas and coal bed methane) simulating thermal EOR operations, and has extensive experience in property evaluation, economics and strategic planning.

Previously, he has worked with STA and SI International in California and with Richardson Operating Company in Colorado. George has BSc in geology from Aristotle University, Thessaloniki, Greece, and an MS in petroleum engineering from the Colorado School of Mines. He is a registered professional engineer and has authored several technical articles. He is a member of the SPE for more than 20 years and has served the society in many occasions.

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# Westside Study Group

## Engineering and Evaluation of Stimulation Treatments in the Eagle Ford Shale

<b>Speaker :</b>	<b>Neil Stegent</b> Pinnacle
<b>Date &amp; Time:</b>	11:30 a.m. luncheon Wednesday, March 23
<b>Location:</b>	Westlake Club 570 Westlake Park Blvd (77079)
<b>Cost:</b>	\$35 per member preregistered \$40 for nonmembers and walk-ins
<b>Registration:</b>	<a href="http://www.spegcs.org">www.spegcs.org</a>
<b>Deadline:</b>	Noon, Monday, March 21

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Unconventional reservoirs, the Eagle Ford shale in particular, require a completion strategy that is reservoir specific. Completion analogies in similar reservoirs are a good place to start, but care must be taken to fine-tune design parameters which may have a significant impact on production. Completion engineers need to work closely with the geologist and reservoir engineer to understand how to use reservoir information to design effective completions. Understanding rock properties (YM, embedment, Brinell Hardness, etc.), mineralogy (clay content, TOC, Brittleness Index, kerogen, etc.), and type of productive hydrocarbon (oil, condensate, dry gas, etc.) are all needed to properly apply the correct treatment type (water frac, hybrid, or conventional fracturing fluid system). Analyzing the production and completion efficiency is extremely important so that improved design changes can be made based on quantifiable evaluations as opposed to qualitative comparisons.

This presentation will discuss some of the current completions strategies and production evaluation techniques currently being used in the Eagle Ford shale, with the primary focus in the high liquid production areas.

**Neil Stegent** is a technology manager for fracturing with Pinnacle (a Halliburton Service) in Houston. He has worked for over 30 years for Halliburton Energy Services in various roles including engineering, technical sales, management, and technical marketing. He has been working with the Pinnacle group for the past year and is currently involved with integrating frac mapping technologies with real-time on-site fracture decision making and frac design alteration.

Neil graduated from Texas A&M with a degree in agricultural engineering. He is a member of SPE and is a registered Professional Engineer in the state of Texas. He has written numerous technical papers and holds multiple patents.

# Continuing Education

## Oil Patch Orientation

**Speakers :** **John Farina**, Consultant  
**Ron Hinn**, PetroSkills  
**Susan Howes**, Chevron  
**Ken Arnold**, Consultant  
**Marty Stetzer**, Consultant

**Date & Time:** 8:30 a.m. - 5:30 p.m.  
Thursday, April 21

**Location:** Hilton Houston North Hotel  
12400 Greenspoint Drive  
Houston, Texas 77060

**Cost:** \$300 per member preregistered  
\$350 for nonmembers and walk-ins

**Registration:** [www.spegcs.org](http://www.spegcs.org)  
**Deadline:** Noon, Monday, April 18

*No refunds one week prior to the event.*

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**Reservoir Aspects of Horizontal and Multilateral Wells**  
Sada Joshi

31 March 2011  
Houston Training Center

# Young Professionals

## 2011 Health, Safety, Security, & Environmental Conference

### 1<sup>st</sup> Annual Young Professionals Session

*Date, Time & Location: 21 March 2011, 10AM-4PM, Westin Galleria Hotel, Cost for YP Session: \$50*

*Registration Link: <http://www.spe.org/events/hsse/2011/pages/general/registration.php>*

The session will kickoff with brief presentations from industry experts to provide background on some of the challenges associated with aligning industry HSSE performance expectations. Participants will then break out into teams to develop an approach or idea to address this challenge. What would be your approach/ideas to drive better performance and gain industry alignment in regards to HSSE? Industry is often judged (by regulators, public, and governments) by the lowest performers. Is there a way to build a more consistent and collaborative culture across industry so that everyone shares the same objectives of reducing safety incidents to zero and protecting the environment? And if so, can this be done without sacrificing individual companies' competitive advantages or antitrust concerns? The topic scope includes all aspects of Health, Safety, Security, and Environment as well as all types of industry companies, including operators, drillers, and service companies.

#### Speaker List

##### ▪ Industry Collaboration

*Jack Toellner, Senior Technical Advisor-Safety, ExxonMobil*

##### ▪ Environmental Industry Trends

*Judy Freeman, Principal, Green SEED Energy*

##### ▪ Safety/Security Industry Trends

*Tom Knode, HSE Manager, Halliburton*

##### ▪ Generations in the Workplace

*Mike Thompson, Safety Manager, BP*

## Networking Event: Young Professionals Westside Networking Happy Hour

*24th March, 2011, 5:30PM-7:30PM, Hotel Sorella CityCentre, 800 Sam Houston Parkway North, Bldg 9, Houston, TX 77024*

*Registration cost: FREE, Registration Link: <http://www.speqcs.org/en/cev/1953>*

Please join SPE-GCS Young Professionals for an evening of networking on Thursday, March 24th. SPE has teamed up with TYP to meet and mingle with fellow Houston young professionals in the Energy Corridor. Please visit the SPE-GCS website for more details. The SPE-GCS YP organization is comprised of Houston area young professionals from all areas of the energy industry. The monthly happy hours are great opportunity to network and get involved in SPE. For questions or inquiries, please contact Heather Ardeel ([heather.ardeel@crzo.net](mailto:heather.ardeel@crzo.net))

## Emerging Engineers Conference (EEC)

*Date, Time & Location: 2nd & 3rd June 2011, 8AM-5PM, WesternGeco, 10001 Richmond Ave, Houston TX 77042 USA*

Do have a new energy related project you've been helping to develop? The young professionals in SPE-GCS encourages you to share your knowledge, ideas, expertise, innovations, best practices and case studies by submitting an abstract to the 2011 Emerging Engineers Conference (EEC) Poster Session held at the WesternGeco facility in Houston on Thursday, June 2nd. The EEC is the most highly attended conference among young professional in SPE-GCS, and this is an excellent opportunity to showcase your success in a poster session. Please submit an abstract (500 words max) of a project you have made a significant contribution to Jonathan Wood ([jwood@chevron.com](mailto:jwood@chevron.com)). Please include your company, years in the oilfield, and contact information with your abstract. This poster session will provide project exposure among your peers as well as prominent industry speakers that will be attending the event. The deadline to submit an abstract is Friday April 29, 2011.

## SPE GCS Young Professionals Executive Club

We are extremely excited to introduce you to the prestigious SPE Gulf Coast Young Professionals Executive Club. The Executive Club aims at recognizing our dedicated members who are truly tomorrow's leaders. Being a part of the SPE YP Executive Club is easy! It's a simple 3 step process - Participate, gain points and win gift cards, prizes and recognition every quarter!

1. Attend SPE YP events (100 points per event attended)
2. Volunteer for SPE YP events (50 points per hour volunteered)
3. Bring your friends to attend SPE YP events (100 points per referral)

We certainly hope you become either a Platinum, Gold or Silver member of the Executive Club soon. Please contact Sandeep Pedam ([spedam@slb.com](mailto:spedam@slb.com)) if you have any questions.

**Interested in finding out more about the SPE Young Professionals Committee or joining the board next year?** If so, we invite you to attend our monthly board meetings! Use this as a time to get plugged in more or to meet some new faces in the organization. Please contact Andrea Hersey ([Andrea.Hersey@momentive.com](mailto:Andrea.Hersey@momentive.com)) for more information or check the GCS calendar for upcoming meetings. We look forward to meeting you!

**Email Blasts and Social Networks:** To ensure you receive our monthly email blasts sign-in at [www.spegcs.org](http://www.spegcs.org). Click on "Member Services", then "My Email Alerts". Check the "Committee-Young Professionals" box! For more information on SPE GCS Young Professionals, please check us out on LinkedIn, Facebook, Twitter & Youtube.

## **Red Cross Ready When the Time Comes**

### **Call for Volunteers 2011**

The Houston Area Red Cross learned during hurricanes Katrina and Rita that while many Gulf Coast residents are willing to volunteer their time in the immediate wake of a disaster, the ability to quickly bring these volunteers into the Red Cross system, train and give them meaningful assignments was limited. A disaster response program was subsequently created by the Red Cross that recruits, trains, organizes and positions local volunteers so that they can quickly and effectively go straight to work helping their neighbors.

This program, called Ready When the Time Comes (RWTC) establishes a volunteer force of area residents that are trained and available to the Red Cross for shelter operations, large group meals, bulk distribution of supplies, damage assessment, phone bank operations and other assignments as needed. This volunteer force is drawn primarily from community organizations and corporations.

In 2009 the SPE Gulf Coast Section became part of this force. Via 'calls for volunteers' in 2009 & 2010, approximately 45 SPE-GCS members have been trained by the Red Cross to serve as RWTC Volunteers. From this group, Team Captains have been assigned who maintain rosters and serve as points of contact for Red Cross staff when calling out and assigning Volunteers in response to a disaster. Many of our Volunteers have acquired additional Red Cross training and participated in local disaster drills.

In order to increase the size and availability of our force, we are circulating this 'Call for Volunteers -2011' to SPE-GCS members who may be interested in this volunteer opportunity. We plan to have our 2011 SPE-GCS RWTC training sessions in May at the Houston Area Red Cross Command Center.

If you are interested in quickly and effectively helping out our community in the wake of a disaster, you should consider this volunteer opportunity. Volunteers can be family members and friends; however, they must be at least 18 years old. As a RWTC Volunteer, your only commitments are to participate in Red Cross RWTC training (one six-hour session), agree to a full background check, and through your own best effort and availability, respond when called upon in the event of a disaster.

The SPE-GCS website registration link is <http://www.spegcs.org/en/cev/1954>. Specific dates and times for the training will be emailed to those signed up. The deadline to sign up is April 15, 2011.

For more information on the Red Cross RWTC Program, visit their website at <http://www.houstonredcross.org/rwtc/>.

Mother Nature has been kind to us recently with no need to call out RWTC Volunteers to respond to a disaster in our area. We may not be so fortunate in the future. As such, we hope you will help us increase the ranks of SPE-GCS Members who are Ready When the Time Comes.

Sincerely,

Ted Cammarata, SPE-GCS RWTC Coordinator

[ted.patty@sbcglobal.net](mailto:ted.patty@sbcglobal.net)

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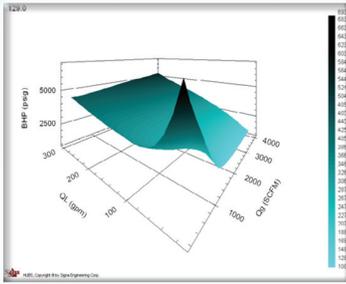
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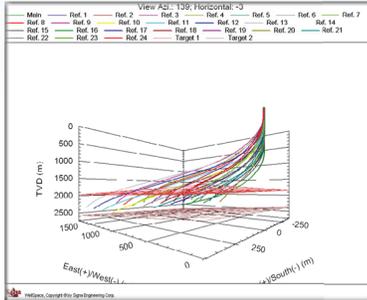
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## March Events

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1 C & P, p9	2	3	4	5
6	7	8 Northside, p19 Petro-Tech, p23	9 Drilling, p15	10 Gen Mtg, p3	11 Auxiliary, p8	12
13	14	15	16	17 Board Mtg, p4	18	19
20	21 YP HSSE, p29	22	23 Bus Dev, p7 Westside, p27	24 Reservoir, p25 YP, p29	25	26
27	28	29	30	31 International, p17		