



Gulf Coast Section

OCTOBER  
2012

# CONNECT

SPE GULF COAST SECTION NEWSLETTER

## New Microbial Enhanced Oil Recovery System

GENERAL MTG P. 13

NOVEMBER 7<sup>TH</sup>  
SPE 2ND ANNUAL  
UH-RICE STUDENT  
CHAPTER GOLF  
TOURNAMENT

P. 11

## CONTINUING EDUCATION

*Oil Patch Orientation* P. 31

## CAREER MANAGEMENT

P. 26-27

## Then and Now

*Buddy Woodroof* P. 5

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# CHAIRMAN'S CORNER

STEVE BAUMGARTNER  
2012-2013 SPE-GCS Chair



The SPE Annual Technical Conference and Exhibition (ATCE) will be held October 7-10. The ATCE signals an annual change in leadership of SPE. Congratulations to all of our Gulf Coast Section members who are beginning terms on the SPE Board of Directors and thank you to our Gulf Coast Section members whose terms expired.

The Gulf Coast Section has been selected to receive the 2012 Most Innovative Section Award. This prestigious award recognizes SPE sections that use new ideas, methods or ways of thinking to improve and grow their section activities. The use of webinars to attend study group meetings or seminars remotely and the use of web metrics to monitor technology dissemination through the GCS website are two examples of new ideas and methods. An initial pilot webinar program in 2010-11 developed into seven study group meetings offered via webinar in 2011-12. Webinars were viewed from locations outside of the Gulf Coast Section, including the SPE Middle East Technical University and Northern Cyprus Campus Student Chapter. We expect the use of webinars to continue to grow in 2012-13. The leadership of Russ Neuschaefer (Technology Transfer) and support of Mark Peavy (2010-11 Chair) and Hiep Vu (2011-12 Chair) contributed to the Gulf Coast Section receiving this award. Congratulations to the Gulf Coast Section committees and members who will receive awards at ATCE.

The Gulf Coast Section Kickoff meeting was conducted in late August. The Kickoff

meeting signals our annual change in GCS leadership. We had four past chairs of the GCS Board of Directors attend and the programs, event operations and volunteer breakout sessions were well attended. The GCS has over 15,000 members and the Board of Directors has set goals for 2012-13 to achieve operational excellence and financial responsibility. Our mission statement provides guidance for the Board of Directors. "The Gulf Coast Section of the Society of Petroleum Engineers enhances technical knowledge among our members through local events, promotes camaraderie and networking in our industry, educates and serves the community, and provides scholarships to students entering the oil and gas industry."

We would like to know how we can serve your interests with Gulf Coast Section programs. We encourage you to become active in a study group or committee. Based on my experience, the investment of time and talent will be repaid with dividends. Do you like the new format Gulf Coast Section *Connect*? Do you like the new Gulf Coast Section website? Please send me your comments and suggestions at [sbaumgartner@marathonoil.com](mailto:sbaumgartner@marathonoil.com)

# CONNECT

Information

## Newsletter Committee

CHAIRMAN *Kim Tran*

SALES *Pat Stone*

BOARD LIAISON *Valerie Martone*

EDITOR/DESIGN *Deuce Creative*

[deucecreative.com](http://deucecreative.com)

For comments, contributions, or delivery problems, contact [editor@spegcs.org](mailto:editor@spegcs.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 15,000 SPE members in Houston.

## SPE Houston Office

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Monday through Friday

## Advertising

For information on advertising in this newsletter or on the SPE GCS website, please contact:  
*Pat Stone* | 281-530-9711  
[starlite1@sbcglobal.net](mailto:starlite1@sbcglobal.net)

## Photo Submissions

We are looking for member photos for upcoming issues! Email your high resolution pictures to:  
[editor@spegcs.org](mailto:editor@spegcs.org)

This month's cover photo of a 'Wolfcamp' well was taken by Dan Moss during the early 1980s in the Permian Basin after a spring thunderstorm. Dan is currently a Sr. Engineering Tech at SM Energy.

THURS  
October 11

7:30 AM TO 10:30 AM

## SPE-GCS BOARD OF DIRECTORS MEETING

### LOCATION

SPE Houston Office  
10777 Westheimer Rd.  
Suite 1075  
Houston, TX 77042

### EVENT CONTACT

*Sharon Harris*  
713-457-6821 EXT. 821  
713-779-4216 FAX  
[sharris@spe.org](mailto:sharris@spe.org)

# FEATURES

October 2012

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by Buddy Woodroof

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MON-WED  
October  
**8-10**

# UNCONVENTIONAL WISDOM ATCE 2012

## *SPE Annual Technical Conference and Exhibition*

Harry B. Gonzalez Convention Center | San Antonio, TX

Since its first conference 88 years ago, the Society of Petroleum Engineers' Annual Technical Conference and Exhibition (ATCE) has attracted more than half a million of the E&P industry's greatest minds from more than 50 countries around the world. Technical sessions, presented with an exhibition, focus on all phases of oil and gas exploration and production, and special events allow E&P professionals to network with colleagues from around the world and celebrate key successes in the industry.

### TOP REASONS TO ATTEND ATCE 2012

ATCE 2012 is one of the best ways that you can gain technical knowledge and make valuable contacts while saving on consulting and research costs. Here are the top 5 reasons you should attend:

- 400+ peer-selected technical papers covering current applications and future technologies
- Expanded technical content and events for projects, facilities, and construction professionals
- 400+ exhibiting companies—the largest in ATCE's history—showcasing the latest technologies, new product launches, and valuable industry services

- Numerous networking events & student and young professional activities
- Pre- and post-show training courses. ATCE also offers the opportunity for SPE volunteers to share best practices for their committees and sections

### HOW TO JUSTIFY YOUR ATTENDANCE

- Offer to prepare and deliver a short presentation to your colleagues to share what you've learned so that others on your team will gain the benefits of your attendance
- Explain what you plan to get out of attending and how that will benefit your company
- Be ready with a plan that shows who will cover for you while you are attending the conference
- Offer to share a room to reduce hotel expenses and/or utilize our complimentary hotel shuttle service to avoid renting a car
- Share presenter handouts and exhibiting companies' materials with your colleagues. SPE On Demand offers you unlimited access to many of the presentations and audio from the ATCE technical sessions
- Receive continuing education credits for attending
- SPE members can take advantage of discounted registration

For more information, visit: <http://www.spe.org/atce/2012/>



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# THEN & NOW

Column by  
BUDDY WOODROOF

## October 1962

Does anyone doubt the power of advertising? American Petrofina went public with its “pink campaign” featuring pink pennants, pink washrooms, pink gasoline transports and, soon, “pink air”. Their retail sales spurred to new records and are still climbing.

Indictments were expected by Upshur County grand jury in latest phase of the slant-hole drilling scandal, where indictees claimed lack of control on down-hole steering.

The world’s first floating refinery was launched in Belgium for towing to Libya. Upon arrival in Libya, the refinery plant, mounted on a concrete raft, will be towed along a specially dug canal to the ultimate refinery site, and then the canal will be closed and dried out.

Mohole drillers planned a coring test in Puerto Rico to study the characteristics of the serpentine rock. They expected to have to drill through on the way to the earth’s mantle. U.S. active rig count – 1,643

## October 1987

Texaco CEO James Kinnear declared that America is once again looking down the barrel of the gun with regard to declining oil production and soaring imports. He went on to say that the No. 1 culprit is the “windfall profits tax.”

Texas Railroad commissioner Kent Hance (currently the Texas Tech Chancellor) reported that the TRC would seek official observer status with OPEC.

Iranian crude production fell 800,000 bbl/day due to the lifting of the ceasefire and resumed attacks on Iran’s Kharg Island shuttle tankers by Iraqi Mirage jets. Meanwhile, Iraqi production increased by 200,000 bbl/day.

BP reported a mid-1990’s target for commercialization of its diverless subsea production system rated to work in more than 1,300 ft of water. It would entail a subsea well template with modular equipment and ROV servicing. WTI crude oil - \$19.55/bbl; U.S. active rig count – 1,094

## October 2002

As hurricane Lili approached the Louisiana coast, natural gas futures prices soared above \$4.00/Mcf. It was feared that the hurricane could cause long-term damage to the GOM’s production infrastructure.

The Santa Barbara County Board of Supervisors denied Houston-based Nuevo Energy’s bid to slant-drill from Platform Irene in federal waters of the Santa Barbara Channel to tap reserves under state waters. The project would have been the first new offshore lease application within California’s 3-mile limit since the infamous 1969 Union Oil of California platform blowout in the channel.

The terrorist attack on the double-hulled oil tanker Limurg off Aden, Yemen underscored the potential for Al Qaeda to target the global oil industry.

Encana Corp., Calgary and Quicksilver Resources, Fort Worth, began development drilling in the first coal bed methane commercial development in Canadian history, located in the Palliser Block in southern Alberta. Light sweet crude oil - \$29.69/bbl; Natural gas - \$4.26/MMbtu; U.S. active rig count – 843

## The Rest of the Yarn

In 1902, the United States took little notice when the head of the Royal Dutch Company formed an alliance with Shell Transport and Trading Co. and the Paris Rothschilds to create Asiatic Petroleum Co. and go after the Far East market. In Europe, however, this was hailed as the first real threat to the hated Standard Oil monopoly.

Asiatic was only a marketing company that bought oil and rented tankers and facilities from its three owners. Royal Dutch had the best end of this deal, as it was able to expand its production and refining in the East Indies, while Shell encountered many delays and difficulties. Spindletop crude gave Shell a boost for awhile, but soon that production began to decline.

Royal Dutch capitalized on the mushrooming market for gasoline. Its crude and refining facilities permitted it to maximize gasoline production, whereas Shell and the Rothschilds could not. Shell tankers, which unloaded kerosene in the Far East, were rented by Royal Dutch at very low rates to take gasoline back to Europe. This gave Royal Dutch high earnings while Shell was barely breaking even. In 1906, the head of Royal Dutch decided to make his move on Shell’s Sir Marcus Samuel to complete his dream of an oil empire.

Next month, a unique and far-reaching business arrangement is fashioned.

### ANSWERS TO SEPTEMBER’S QUIZ

*The full names for the following 50-yr or older oilfield abbreviations are:*

- a) J&A (*junked and abandoned*)
- b) SDR (*shut down for repairs*)
- c) o, t & s (*odor, taste and stain*)
- d) TSTM (*too small to measure*)

### OCTOBER HISTORY QUIZ

**What was the first oil field in the U.S. produced from a fractured shale reservoir?**

CONGRATULATIONS TO MAY’S WINNER  
JOEY HOPEWELL WITH PRECISION DRILLING

*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 October 15. The winner, who will be chosen randomly from all correct answers, will receive a \$50 gift card to a nice restaurant.*

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# SPE-GCS MEMBERSHIP REPORT

August 2012

## AUGUST

Total: 14,550

YP: 2,886

## JULY

Total: 14,297

YP: 2,766

	JULY		MAY	
	2012	2011	2012	2011
<b>SPE-GCS Members</b>	<b>14,550</b>	<b>2,886</b>	<b>14,297</b>	<b>2,766</b>
New Members	135	60	282*	114
Transferred to Section	130	N/A	110	N/A
Transferred out of Section	72	N/A	51	N/A
Unpaid	1,859	687	1,918	701
<b>Student Members</b>	<b>Paid</b>	<b>Unpaid</b>	<b>Paid</b>	<b>Unpaid</b>
Texas A&M	680	146	653	149
UH/Rice	250	61	246	63
HCC	41	14	38	15
Total	971	221	937	227
Total Paid/Unpaid	15,521	2,080	15,234	2,145
% Paid	88.2%		87.7%	



## VOLUNTEER SPOTLIGHT

### James Pappas, RPSEA

To Receive Distinguished Service Award at ATCE

Our former Gulf Coast Section Chairman, James Pappas, will be receiving a SPE Distinguished Service Award the evening of October 9 at the Awards Banquet at the 2012 SPE Annual Technical Conference & Exhibition in San Antonio. A graduate of the University of Texas with bachelor's degrees in chemistry and chemical engineering and a master's degree in business administration, James currently serves as Vice President of Ultra-Deepwater Programs at RPSEA. He has also worked on offshore projects for Devon Energy, and as a reservoir engineer for Santa Fe/Snyder, Fina, UPRC, and Amoco.

On the SPE International level, James was the Production and Operations Technical Director on the SPEI Board of Directors, where he chaired the Technical Directors Committee and the Staff Compensation Committee. He also chaired the Technical Programs and Meetings Committee, which is responsible for about 70% of SPE's revenues, and worked on the Long Range Planning Committee designing the 2009 SPEI Strategic Plan.

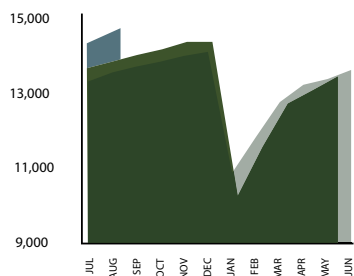
Author of more than 35 technical papers, James chaired sessions on flow assurance and facilities at the 2004 and 2005 SPE ATCE, and he has served on numerous technical program committees for SPE meetings around the world. He has also worked to expand the SPE technical awards to the regional level, including the addition of the Completions Optimization & Technology Award.

After being named 2007 Houston Engineer of the Year, he testified to Congress following the Macondo disaster, explaining offshore technology in layman's terms, and he led a team of experts in reviewing GOM regulations and writing the resulting white paper.

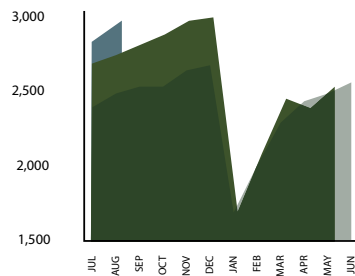
James is a technical guy who communicates clearly, an ethical guy who lives a life of service, and a humble guy who judges children's science fair projects. Congratulations on being an SPE Distinguished Member!

2010-2011      2011-2012      2012-2013

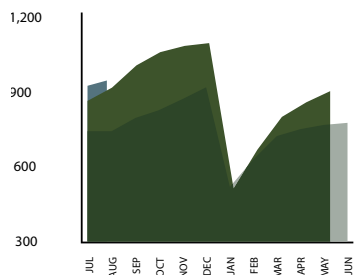
PROFESSIONALS



YOUNG PROFESSIONALS



STUDENTS





FRI/SAT  
October  
5/6

FRI 4:00 PM - SAT 8:00 PM

# SPE-GCS 29<sup>TH</sup> Annual Tennis Tournament

We are pleased to announce the 29<sup>TH</sup> Annual Society of Petroleum Engineers Gulf Coast Section Tennis Tournament, which will be held on October 5 & 6, 2012 at The Houston Racquet Club located at 10709 Memorial Drive in Houston, Texas.

Tournament activities will begin on Friday evening with registration starting at 4:00 PM. Social Mixed Doubles and some flights of Tournament Doubles will start at 6:00 PM along with hors d'oeuvres or light dinner. On Saturday, registration will begin at 8:30 AM with play beginning at 9:00 AM. Time permitting, a FUN Scrambles Tournament will be arranged in the afternoon. Saturday evening will consist of a wonderful dinner, door prizes, and award ceremony.

Entry fees (per person) are \$125.00 which covers Tournament Double and Social Mixed doubles, or \$50.00 for those only playing Social Mixed Doubles. The charge for non-playing spouses or guests will be \$25.00. Please be ready for playing lots of tennis, meeting old friends and making new ones, receiving an official tournament t-shirt and more nice gifts (contributed by our sponsors), drawing of valuable door prizes, winning awards, and enjoying all meals (Friday dinner through Saturday dinner) and beverages.

Participation is limited and entries will be accepted on a first-come, first-served basis. The deadline for tournament entry is Monday, October 1st, 2012. **Entry and sponsorship forms are available online.** Please consider sponsoring this year's event either by donations, door prizes, or ditty bag items. We appreciate your support, and if you need more information please call.

**On behalf of the entire 2012 SPE-GCS Tennis Committee, we look forward to seeing everyone for two fun-filled days of tennis!**

## QUESTIONS

Jim Sheridan  
281-432-9209  
Jim.Sheridan@bakerhughes.com

Suzanne del Rosario Davis  
713-839-2135  
sdelrosariodavis@lgc.com

## LOCATION

The Houston Racquet Club  
10709 Memorial Drive  
Houston, TX 77024  
713-464-4811

## EVENT CONTACT

Joanne Hresko  
74 Hessenford Street  
Sugar Land, TX 77479  
joannehresko@comcast.net

## DEADLINE

October 1, 2012  
Participation is limited and  
entries will be accepted on  
a first-come, first-served basis

## EVENT INFORMATION

Mixed Doubles - Friday, October 5th - 6:00 PM  
Tournament Doubles - Saturday, October 6th - 9:00 AM

The tournament doubles event is open to men and women and is a combined bracket. Partners may be of the same gender or mixed.

The committee will assist players who do not have a partner for any event.

## FLIGHTING

Championship – Advanced Players  
A – Regular & Advanced Players  
B – Intermediate Players  
C – Non-regular players & beginners

The SPE-GCS Tennis Committee reserves the right to allocate players to a different flight if necessary

## WHAT TO EXPECT

Lots of tennis, meeting old friends and making new ones.  
Door prizes, T-shirts, awards, meals and beverages.

Friday – light dinner  
Saturday – breakfast, lunch and snacks

Hit & Grab – Saturday after lunch  
Award presentations, door prizes & heavy appetizers at 4PM

## RULES OF ENTRY

The event is open to members, non-members, guests, and friends of SPE. The only restriction is that tennis professionals are not allowed.

## REGISTRATION

Friday, October 5th 4 - 6 PM  
Saturday, October 6th 8:30 – 9:00 AM

## IMPORTANT NOTICE

All paid participants must wear their "Name Tags" during this event to have access to the food and drinks

## ENTRY FEE INFORMATION


\$125.00 - Fee covers Tournament and Mixed Doubles for an individual player.

\$50.00 for those only playing Mixed Doubles.

\$25.00 – Spouse/Guest (Not Playing)

Fees are due with entry form.  
Make checks payable to: SPE-GCS Tennis.

**More information and forms available at [spegcs.org](http://spegcs.org).**



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# Society of Petroleum Engineers 2<sup>ND</sup> Annual UH-RICE Student Chapter Golf Tournament

*Prizes for top teams, hole prizes, & more. All proceeds benefit SPE UH-Rice Student Chapter.*

*All entries include: Greens fees, golf carts, range balls, breakfast and lunch, on-course beverages and open bar. Register by October 29, 5 PM. \$20 late entry fee will be charged after registration date. Field limited to 120 players.*

## SPONSORSHIP LEVELS

**Platinum Sponsor \$5,000**

*(Includes two 4-person team entries)*

**Gold Sponsor \$3,000**

*(Includes one 4-person team entry)*

**Beverage Sponsor \$1,500**

*(Single entry into golf tournament)*

**Silver Sponsor \$1,000**

*(Single entry into golf tournament)*

**Hole Sponsor \$500**

*(Signage for Long Drive, Closest to Pin, etc.)*

**Hole Sponsor \$250**

*(Signage at any non-event hole)*

## Event Info

### LOCATION

*BlackHorse Golf Club  
12205 Fry Road  
Cypress, TX 77433*

### REGISTRATION FEE

*\$150 – Single Entry  
\$550 – 4-Person Entry*

### REGISTRATION

*Kyndall Semones  
klsemones@uh.edu  
903-312-6127*

### SPONSORSHIP:

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only extracts a fraction of the reservoir oil, leaving the majority of the oil underground. The AERO™ System provides a new, viable option to recover this trapped oil with minimal new footprint or investment.

Glori provides its services to oil producers to significantly increase their production. In addition, the company's Phoenix Initiative acquires end-of-life and abandoned assets and deploys the AERO™ technology to increase the value of these assets.

## Brian Brazeal

Brian Brazeal is USA Director of Business Development for Glori Energy, Inc. He joined Glori Energy after serving four years as Senior Business Development Manager for an EOR/IOR technologies organization headquartered in Edmonton, Canada.

He also served as President and Founder of Texrock Land and Energy, where he was responsible for initiating and negotiating large acreage positions in the Barnett Shale of North Texas for several large independent producers. He also served 10 years as Chief Executive Office of MEC Inc. in Dallas, Texas.

Mr. Brazeal's background is also inclusive of exploration and drilling in the Permian Basin. His expansive industry knowledge and contacts will be applied in expanding Glori Energy's business efforts in the US market through targeted field acquisitions and increased field re-development projects.

## Event Info

### SPEAKER

*Brian Brazeal*  
Director of USA Business Development, Glori Energy, Inc.

### LOCATION

*Petroleum Club*  
800 Bell Street, 43rd floor  
Houston, TX 77002

### EVENT CONTACT

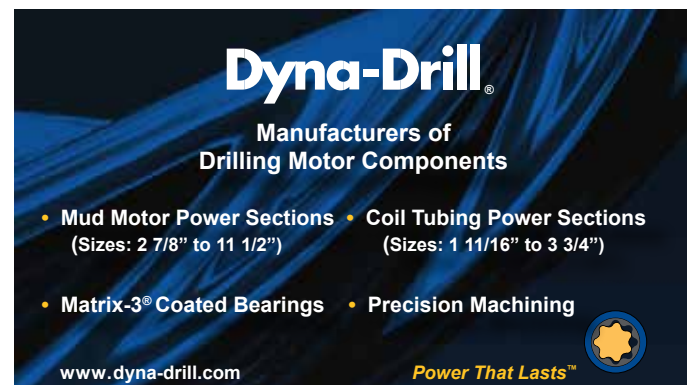
*Barry Faulkner*  
281-627-8790  
barryfaulkner@earthlink.net

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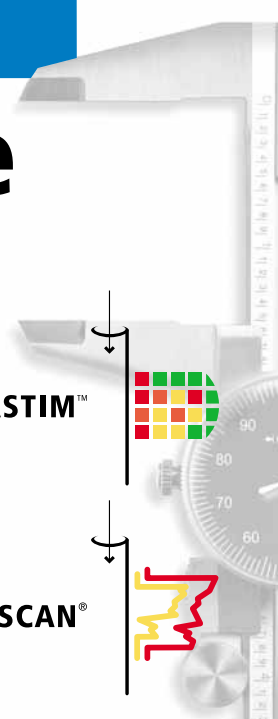
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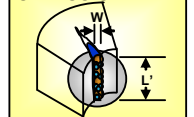
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# Wellbore Isolation - Regulations, Standards & Resulting Best Practices

The national debate has turned from fracturing to one of wellbore isolation. In response to the debate, regulators have adopted and proposed a wide array of rules in an attempt to address the concerns over hydrocarbon leakage. Some rules are quite prescriptive and may not address the true goal of the regulation, which is to assure the wells do not leak hydrocarbons into water supplies.

Assuring both regulators and the public that the well has been built correctly and completed and operated properly are key areas of our license to operate. The presentation will take a brief look at current regulations within the US, the role of API standards related to wellbore isolation and steps to be taken to assure the goal of "Build It Right" is met.

## Glen Bengé

Glen Bengé recently retired from ExxonMobil where he served as a Senior Technical Advisor and assisted with the oversight of the cementing and wellbore isolation technologies for the global drilling operations. He has 35 years of experience associated with all aspects of oil field cementing and has authored numerous papers and texts on all aspects of cementing design and application.

## Event Info

### SPEAKER

Glen Bengé,  
Senior Technical Advisor,  
Exxon Mobil

### LOCATION

Greenspoint Club  
16925 Northchase Drive  
Houston, TX 77060

### EVENT CONTACT

Mark Chapman  
281-921-6522  
mark.chapman@carboceramics.com

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WED  
October 24

11:30 AM TO 1:00 PM

# Application of Intelligent Agents in Oil & Gas Production Management and Operations

Intelligent-agent systems are computational systems comprising multiple agents, which are capable of making decisions and taking actions in an autonomous way. Agents maintain information about their environment and make decisions based on their perception about the state of this environment, past experiences and goals. Agents can also communicate with other agents and collaborate to reach common objectives. In this way, agents emulate the social behavior of humans: share partial views of a problem, enable collaboration and cooperation to make right and timely decisions and reach common objectives.

Agents are successfully implemented in both Internet and manufacturing industries. In the E&P industry, the application of multi-agent systems is still incipient, but the potentialities of these kinds of systems are acknowledged in the industry and there are several R&D groups working in specific applications of agent technology in asset operation and management.

We will present one agent-based workflow automation, which tries to leverage the features of agent systems in an application for the oil production management, and try to show how the nature of oil & gas production management can be represented over the information technology infrastructure using multi-agent system, reaching full-automated and intelligent workflow automation.

## Dr. César Bravo

Dr. César Bravo is the Senior Consultant at Intelligent Operation Solutions management at Lankmark -Halliburton. He is a system engineer and has a Master's Degree in process control and industrial automation from Universidad de los Andes – Venezuela, and a Ph.D. in applied sciences from Universidad de los Andes – Venezuela and Laboratoire d'Analyse et d'Architecture de Systèmes – France.

Dr. Bravo has 12 years of experience in the oil and gas industry, and has been involved in the design and implementation of workflow automation solutions for national and international oil companies with operations in the US, Latin America and the Middle East. He has more than 20 scientific papers published in conferences and peer reviewed journals subscribed to important professional organizations like SPE and IFAC. His specialization is the application of artificial intelligence in the oil & gas production management.

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## Event Info

### SPEAKER

*Dr. César Bravo,*  
Senior Consultant -  
Intelligent Operation Solutions  
at Halliburton

### LOCATION

Courtyard on St James  
1885 Saint James Pl  
Houston, TX 77056  
P: 713-621-0555

### EVENT CONTACT

Carol Piovesan  
949-232-6353  
chrobon@yahoo.com

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# Special Considerations in the Design Optimization of High Rate, Multistage Fractured Shale Wells

Typical shale well completions involve massive, multistage fracturing in horizontal wells. Aggressive trajectories (with up to 20°/100 ft dog legs), multistage high rate fracturing (up to 20 stages, 100 bpm), and increasing temperature and pressure of shale reservoirs result in large thermal and bending stresses which are critical in the design of production casing. When cement voids are present and the production casing is not restrained during fracturing, thermal effects can result in magnified load conditions. The resulting loads can be well in excess of those deemed allowable by regular casing design techniques, and the loads are often ignored in standard well design, exposing casing to the risk of failure during multi-stage fracturing.

## Catherine Sugden

Catherine Sugden, Senior Technology Development Engineer at Blade Energy Partners, has been working in a professional role in well engineering for over seven years. Starting at Woodside in Australia, she has worked in supervisory roles in both drilling and completions operations on semi-submersible rigs for big bore gas wells. Since joining Blade in 2008, Cathy has been extremely active in HPHT and deepwater well design, often using stochastic techniques to quantify risk and optimize designs. She has led numerous design and failure investigation studies for shale gas wells. Education credits include a PhD in Mechanical Engineering from the University of Tasmania.

## Suri Suryanarayana

Suri Suryanarayana, EVP Engineering and R&D at Blade Energy Partners, has 18 years of professional experience, including an extensive background in tubular mechanics, Coiled Tubing technology, multiphase flow modeling and probabilistic design (Quantitative Risk Analysis) techniques. He is currently one of the lead instructors for Blade in their Advanced UBD Well Design and Advanced Casing and Tubing Design courses. Suri is one of the founding partners of Blade Energy and is a member of several organizations, including SPE. He has authored or co-authored over 40 archival papers in the industry, and made numerous invited presentations.

## Event Info

### SPEAKERS

*Catherine Sugden, Senior Technology Development Engineer at Blade Energy Partners*

*Suri Suryanarayana, EVP Engineering and R&D at Blade Energy Partners*

### LOCATION

*Petroleum Club of Houston  
800 Bell, 43 Floor  
Houston, TX 77002  
713-659-1431*

### EVENT CONTACT

*Amy Timmons  
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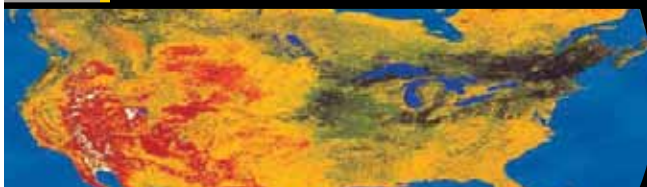
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# Best Practices for Multizone Isolation Using Composite Plugs

Treatment isolation using composite plugs (CPs) has been practiced for over 20 years in North America and continues to be among the most economical ways to stimulate horizontal and multi-layer vertical wells. Despite this long experience, many end users still experience problems in these applications because of sub-optimal choices regarding product selection, run-in and removal options, and unrealistic expectations regarding plug life in downhole environments.

This presentation identifies Best Practices for using CPs, based on technical literature, field experience, and manufacturers' published data. These practices maximize the chances of successfully installing CPs in multi-zone treatment applications, improving the economics of oil and gas plays requiring multiple stimulation treatments per well.

As multi-zone completion activity increases in emerging regions of the world, treatment applications using CPs will also increase in those regions. Those who use CPs in multizone stimulation in emerging regions will conclude that consistently high mechanical success will be achieved by applying the Best Practices identified in this presentation.

## Doug Lehr

Doug Lehr is Director of Wellbore Intervention Engineering at Baker Hughes in Houston, and has more than 30 years experience in the development of downhole tools for production and well servicing applications. Doug has held management positions in engineering and quality assurance, and has worked internationally and domestically. He has authored papers on various completion and well servicing topics including multizone stimulation, stage cementing, and HPHT service packers. Doug holds a Bachelor's degree in Mechanical Engineering from the University of Texas and a Master's degree in Finance and Marketing from the University of Houston. Doug has been awarded 16 U.S. Patents, a Meritorious Engineering Award, was a Finalist in the 2008 World Oil Awards, and is an SPE Distinguished Lecturer.

## Event Info

### SPEAKER

*Douglas Lehr, Director,  
Wellbore Intervention  
Engineering, Baker Hughes*

### LOCATION

*Greenspoint Club  
16925 North Chase Drive  
Houston, TX 77060  
Phone: 281-875-0191*

### EVENT CONTACT

*Matthew Strom  
281-618-7848  
Matthew\_Strom@SWN.COM*

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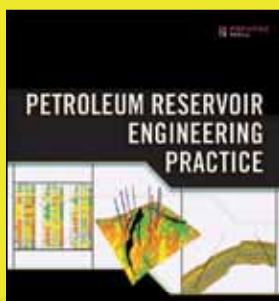
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TUES  
October  
16

11:30 AM TO 1:00 PM

# Fracture Optimization Based on Field Fracture Monitoring

Two key parameters for optimizing the production outcome of horizontal well hydraulic fracturing are spacing between wellbores, and between separate fractures in the same well. Our past efforts have been mainly based on trial and error, through comparison of production results with different well and fracture spacing. This methodology has resulted in reduced well spacing, and high frequency of fracturing pressure interference with adjacent offset wells. In this presentation we will discuss how fracturing pressure interference can provide guidelines for the next generation of optimization efforts.

## Dr. Ali Daneshy

Dr. Ali Daneshy has an MS in Mining Engineering from the University of Tehran, an MS in Mineral Engineering (Rock Mechanics) from the University of Minnesota, and a Ph.D. in Mining Engineering (Rock Mechanics) from the University of Missouri-Rolla. He has held various management positions in the areas of well stimulation, reservoir management, and software development. As the Vice president of Integrated Technology Products at Halliburton from 1996-1998, he was responsible for integrating leading-edge technologies into the oil and gas industry.

Dr. Daneshy was the Director of the Petroleum Engineering Department at the University of Houston from 2004-2007, where he continues as an adjunct professor. He was an SPE Distinguished Lecturer from 2004-2005 and has received multiple awards from SPE, including the SPE Distinguished Service Award for contributions to hydraulic fracturing.

Dr. Daneshy is currently the President of Daneshy Consultants International Inc, a consulting company that specializes in well completion, hydraulic fracturing, geo-mechanics, intelligent completions, ICD applications and design, and water control. He is considered a leading expert in the field of hydraulic fracturing and an outstanding lecturer.

## Event Info

### SPEAKER

*Dr. Ali Daneshy,  
Daneshy Consultants Int'l*

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### LOCATION

*Norris Westchase Center  
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# The Big Crew Change

How are we managing the “Great Crew Change” as an industry? This lingering event is the result of actions taken (and not taken) as long as 30 to 40 years ago, and we don’t have nearly that much time to deal with it. Technological improvements have helped solve some of the prior problems that occurred during the early 1980s, but those same improvements also are enabling us to push the limits of newer issues, such as deepwater operations and advanced fracturing techniques. How do we manage our bimodal experience in the industry to handle this?

## Cheryl Collarini

Cheryl Collarini holds a Bachelor’s degree in civil engineering from M.I.T. and an MBA from the University of New Orleans. She worked for Mobil Oil as a civil engineer, operations engineer, development projects engineer, and reservoir engineering supervisor. She formed Collarini Engineering Inc. in 1985 to conduct independent reserve appraisals and field studies. One of her long term clients, Mobil, then ExxonMobil, engaged her for over 18 years to teach Petroleum Investment Decisions, including authoring the requisite manuals. In 1995, she founded Collarini Energy Staffing to provide technical staff to customers on-site, placing upstream

professionals, temporary and fulltime, in positions all over the world. In 2003, she accepted a partnership in Explore Enterprises LLC and served as VP Engineering. In 2005, she returned to Collarini Energy Staffing as Chairman after a successful sale of the Explore Enterprises assets and started Etroa Resources LLC in 2008, another exploration and production company located in Covington, Louisiana.

Having recently left Etroa, her current roles are as Chairman of Collarini Energy Staffing and Manager and owner of DGC Energy, which invests in oil and gas projects.

## Event Info

### SPEAKER

*Cheryl Collarini, Chairman, Collarini Energy Staffing*

### LOCATION

*Sheraton Brookhollow  
3000 North Loop West  
Houston, TX 77092  
713-688-0100*

### EVENT CONTACT

*Jessica McCormick  
713-929-1633  
jmccormick@blackstoneminerals.com*

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TUES  
October 16

11:30 AM TO 1:00 PM

# Are You a Professional or Just an Engineer?

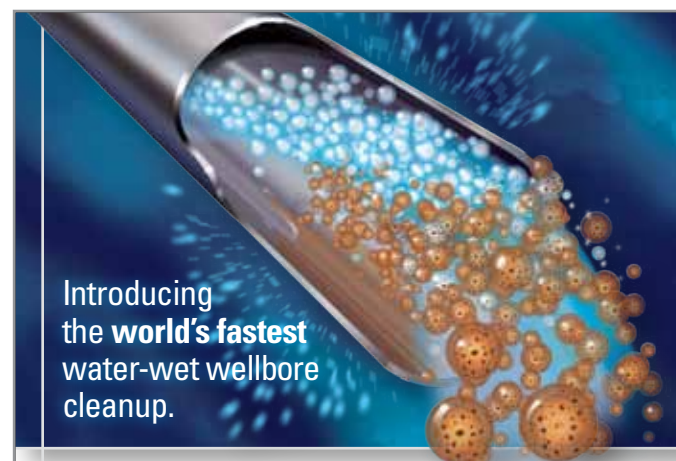
This presentation discusses the actions required by an engineer to be truly a “professional” as opposed to an individual who responds to “givens,” “deliverables,” and “time allotted.” Too often some engineers define their role as merely applying the science and knowledge of engineering to defined tasks. Is that all there is to being a professional, or are there additional standards that must be met to distinguish between professional behavior and just plain good engineering? If so, what are these standards and how do you as an individual stack up against them? You may be surprised and find out that you have not always acted as the professional you think you are.

## Kenneth E. Arnold, PE, NAE

Kenneth E. Arnold has over 45 years of industry experience with 16 years at Shell Oil Company. He founded Paragon Engineering Services in 1980, which was voted one of the best places in Houston to work by the *Houston Business Journal*. In 2005 Paragon was purchased by AMEC. In September 2007, Ken retired from AMEC and formed K Arnold Consulting, Inc (KACI). In 2010 he joined WorleyParsons as a part-time Senior Technical Advisor while maintaining KACI for independent consulting work.

Ken is co-author of two textbooks and author of over 50 technical articles on project management and facilities design. He has twice been chosen as an SPE Distinguished Lecturer. He is the VP of Finance on the Board of SPE, Treasurer-Elect of The Academy of Medicine, Engineering and Science of Texas and a former member of the Marine Board of the National Research Council. He is currently Chair of the National Research Council Committee preparing a report for the Department of the Interior on Evaluating the Effectiveness of Safety and Environmental Management Systems for Offshore Operations.

Ken has taught facilities engineering at the University of Houston as well as for several oil companies. He is a registered professional engineer and serves on the advisory board of the engineering schools of Tulane University and Cornell University.



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## Event Info

### SPEAKER

*Kenneth E. Arnold, PE, NAE,  
President / Senior Technical  
Advisor, K. Arnold Consulting Inc.  
WorleyParsons*

### EVENT CONTACT

*William Kinney  
281-249-2799  
wkinney@technip.com*

### LOCATION

*Norris Center City Center  
803 Town and Country Ln.  
Suite 210  
Houston, TX 77042  
Phone: 281-497-6567 x 509*

### MEMBERS

*\$35 before 10/16/12, \$40 after*

### NON-MEMBERS

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# Stimulation Optimization of Unconventional Resources - Improved Numerical Modeling from First Physics

With the success of the Barnett shale gas play and the discovery of global reserves of this cleaner energy source, shale gas development has become a major topic for energy companies and governmental organizations alike. However, shale gas development remains economically challenged due to significant development issues such as proper resource and reservoir characterization, optimized completion design, and accurate estimation of both production performance and total recovery. These challenges are often related to the extreme heterogeneity and complexity of fractured or bedded shale gas formations. Due to the often nanodarcy permeability of the shales, multi-stage hydraulic fracturing (HF) stimulation is typically required to make shale gas wells economic. However, billions of dollars are spent every year on HF completions using a trial-and-error design process and/or by looking at completion and production trends from data mining efforts. This occurs because the conventional HF design tools, most based upon simple two-dimensional analytical solutions developed more than 40 years ago, lack the proper physics required to understand the hydro-thermo-mechanical

processes involved in the propagation of a hydraulic fracture in a naturally fractured rock mass.

Solutions are being developed to address the limitations of the common design tools, but the predictive capacity of these models for new plays and new geological/ petrophysical conditions is very limited. Emerging numerical techniques are available that can address hydraulic fracturing in naturally fractured formations and that are based upon the proper, 'first physics' of the mechanical and flow behavior of fractured formations. These techniques will allow the industry to gain greater insight and understanding of how natural fracture geometry and intensity, fracture hydro-mechanical properties, and stress field affect HF performance in the presence of different operational parameters such as perforation cluster spacing, injection rate and pressure, fluid viscosity, and stage volume.

## Marisela Sanchez-Nagel

Marisela Sanchez-Nagel is Principal Engineer and General Manager for Itasca Houston - the O&G office of Itasca International, a global geomechanics consulting and software company. Sanchez-Nagel holds a BS in Mining Engineering, a Master's in Geotechnical Engineering, and a Ph.D. in Geological Engineering. As a geomechanics specialist and practitioner, for nearly 20 years she has performed engineering analyses and modeling for O&G applications such as stress analysis, 3D geomechanical modeling, borehole stability, compaction and subsidence, and the characterization and hydraulic fracture stimulation of fractured reservoirs around the world.

## Event Info

### SPEAKER

*Marisela Sanchez-Nagel*

### LOCATION

*Courtyard on St James  
1885 St James Place  
Houston, TX 77056  
713-621-0555*

### EVENT CONTACT

*Miles Palke  
713-750-5490  
miles\_palke@ryderscott.com*

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TUES  
October 16

11:30 AM TO 1:00 PM

# The Center for Offshore Safety – Working Together with Industry to Establish a Culture of Safety

After extensive review and development, the oil and natural gas industry has approved the creation of the Center for Offshore Safety, which will promote the highest level of safety for offshore operations, through an effective program that addresses management practices, communication and teamwork, and independent third-party auditing and verification. The Center for Offshore Safety will draw on the lessons learned from successful, existing safety programs, applying the best elements of these programs to accommodate the unique challenges of offshore oil and natural gas operations. The Center will be based in Houston and will be open to all companies that operate in deepwater exploration and production.

## Jack Toellner, P.E., CSP

Jack Toellner is a Senior Safety Consultant for ExxonMobil and has responsibility for providing technical safety and leadership support to construction and management teams around the world. He has been with ExxonMobil for 30+ years, and has professional and management experience in construction management, engineering and design, environmental affairs, and safety. He is both a registered professional engineer and a certified safety professional.

Mr. Toellner holds a Bachelor of Science degree in Civil Engineering from Texas A & M University, and a Master's of Public Health degree in Occupational Safety and Health Management from Tulane University. His

business and industry support activities have taken him to 25 + countries around the world, and he has received multiple awards and recognitions throughout his career for his contributions to improving the development and execution of environmental and safety programs both for ExxonMobil and industry. He will be representing the Center for Offshore Safety which has defined its mission as promoting the highest level of safety for offshore drilling, completions & operations by facilitating effective leadership, teamwork, utilization of disciplined management systems, and independent third-party auditing & certification.

## Event Info

### SPEAKER

Jack Toellner, P.E., CSP,  
Senior Safety Consultant,  
ExxonMobil  
Development Company

### LOCATION

Petroleum Club of Houston  
800 Bell St, 43rd Floor  
Houston, TX 77002  
Phone: 713-659-1431

### EVENT CONTACT

Christa Henager  
281-600-1090  
christa.henager@erm.com

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# Exploring for Shale Gas in Europe: Lane Energy/ConocoPhillips Baltic Basin Horizontal Well Project

In 2011 Europe's first two horizontal well completions in shale gas reservoirs were stimulated with multi-stage hydraulic fracturing programs. In a step-by-step approach, this presentation will describe the process utilized in planning, executing and evaluating the results of the stimulation treatments used for these wells.

Topics covered in the presentation include: reservoir characterization by integrating well log, core and DFIT data, vertical well pre-test, hydraulic fracture and reservoir modeling, project logistics, real-time design adjustment based on surface treating pressure responses, evidence for and impact of stress shadowing, treatment diagnostics and post-job appraisal. The presentation will conclude by examining lessons-learned and path-forward recommendations.

## Dave Cramer

Dave Cramer is an Engineering Fellow in the ConocoPhillips Global Completions Engineering group in Houston. He has over 34 years of experience in designing, implementing and evaluating well stimulation treatments. Dave has authored 40 technical papers and is a co-inventor of two U.S. patents. His industry recognitions include the Henry Mattson

Technical Achievement Award by the Denver SPE chapter in 1993 and the SPE International Completions Optimization and Technology Award in 2011. He was an SPE Distinguished Lecturer from 2003-2004 and the SPE Region Director for the U.S. and Canada Rocky Mountain region from 2004-2007. Dave is a registered Professional Engineer in the state of Colorado.

## Event Info

### SPEAKER

*Dave Cramer, Engineering Fellow, ConocoPhillips*

### LOCATION

*Norris Center - Westchase  
9990 Richmond Avenue  
South Bldg. Suite 102  
Houston Texas 77042  
713-780-9300*

### EVENT CONTACT

*Alex McCoy  
713-366-5653  
alexander\_mccoy@oxy.com*

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COMMITTEE CAREER MANAGEMENT

# ETHICS TRAINING

## 1 HR REQUIREMENT FOR TEXAS P.E.

The Society of Petroleum Engineers Gulf Coast Section will present a continuing education seminar which will discuss ethics. This 1 hour seminar will qualify attendees for their annual ethics training requirement by the Texas Board of Professional Engineers.

THURS  
October 11

3:00 PM TO 4:00 PM

**SPEAKER**

George P. Hartmann, P.E.

**LOCATION**

SPEI Houston Training Center  
10777 Westheimer Rd. Suite 1075  
Houston, TX 77042

**CONTACT**

David Flores  
281-381-5828  
dflores@lucaseenergy.com

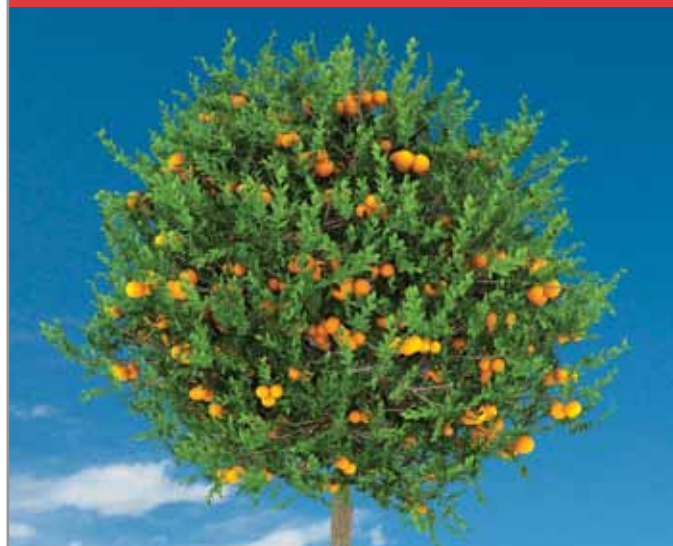
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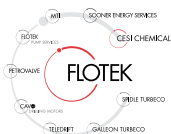
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# SOFT SKILLS COUNCIL: A NEW SPE INITIATIVE

An increasing demand for energy, complexity of resources, developing new technologies, management of the supply and demand for skilled human workforce, and the urgency of rapid knowledge transfer are daunting challenges for our industry. Future industry professionals must equip themselves with an expanded set of competencies that include organizational abilities to effectively develop and deliver technical solutions—soft skills.

SPE formed the Soft Skills Council to help SPE fulfill its mission, vision, and values and to respond to a growing conversation within the industry about the need to help our professionals develop interpersonal skills to add business value in the future.

In today's multicultural global organizations, workers are expected to display greater creativity and autonomy for problem solving. To cope with modern complexities, we need to learn and refine a number of important non-technical competencies that have a great impact on the bottom line.

THURS  
October  
18

12:00 PM TO 1:00PM

## SPEAKER

*Susan Howes*  
Reservoir Management Organizational  
Capability Consultant, Chevron

## LOCATION

SPEI Houston Training Center  
10777 Westheimer Rd. Suite 1075  
Houston TX 77042

## CONTACT

*David Flores*  
281-381-5828  
dflores@lucasenenergy.com

## DEADLINE

Thursday October 18, 2012  
Total Seats: 30

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## COMMITTEE YOUNG PROFESSIONALS

# REBUILDING TOGETHER - HOUSTON

One of our most popular events from the previous year, the SPE-YP group will once again be working with Rebuilding Together - Houston!

Rebuilding Together Houston identifies disabled homeowners in need and helps design wheelchair ramps to be installed by volunteers. This wonderful group of volunteers helps to revitalize neighborhoods by providing home repair and renovation services to low income homeowners in need. In the past, their services have helped the elderly, veterans, and the handicapped. This Saturday October 20th, it'll be the Young Professionals rolling up their sleeves alongside Rebuilding Together - Houston to improve the lives and homes of our Houston neighbors.

Volunteers of all building skill levels are welcome, and remember to bring your own tools and safety gear!

October **SAT**  
**20**

9:00 AM TO 5:30 PM

## INFO

[rebuildingtogetherhouston.org](http://rebuildingtogetherhouston.org)

## CONTACT

*Sudiptya Banerjee*  
281-460-1973  
[sudiptya.banerjee@gmail.com](mailto:sudiptya.banerjee@gmail.com)

TUESDAY  
October **30**

6:00 PM TO 8:00 PM

## YOUNG PROFESSIONALS

## HALLOWEEN PARTY

## EVENT CONTACT

*Rachel Phillips*  
512-944-6005  
[racheldphillips@gmail.com](mailto:racheldphillips@gmail.com)

## DETAILS COMING

*Come dressed as your favorite comic book character!*

WED  
November **14**

5:30 PM TO 7:30 PM

## YOUNG PROFESSIONALS

## THANKSGIVING SOCIAL PARTY

## EVENT CONTACT

*Rachel Phillips*  
512-944-6005  
[racheldphillips@gmail.com](mailto:racheldphillips@gmail.com)

## DETAILS COMING

*Please join us for an evening of good company.*

## COMMITTEE AUXILIARY

## HOUSTON SPE AUXILIARY ACTIVITIES

FRIDAY, 10/12 @ 11:00 AM

## EVENT

*Check [spegcs.org](http://spegcs.org) for more information*

## LOCATION

*Brio In Town and Country*  
12808 Queensbury Lane #100  
Houston, TX 77024  
713-973-9610

## CONTACT

*If you would like more information, or would like to join our group, please contact Nancy Giffhorn at [rgiffhorn@aol.com](mailto:rgiffhorn@aol.com) or at 281-360-4361*

OCTOBER  
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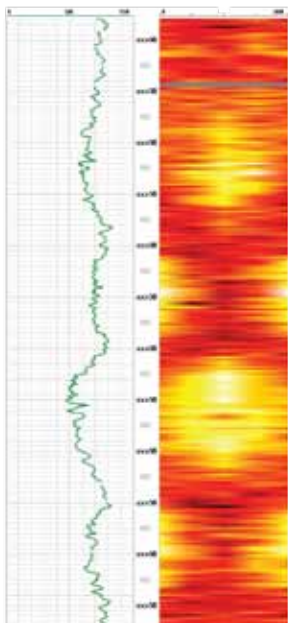
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WED  
October 31

8:30 AM TO 5:30 PM

## OIL PATCH ORIENTATION

### SPEAKER

John Farina, Ron Hinn, Susan Howes, Ken Arnold,  
and Marty Stetzer

### LOCATION

Hilton North  
12400 Greenspoint Drive  
Houston, TX 77060

### MEMBER PRICE

Pre-registered by  
October 26th \$350  
Walk in \$375

### CONTACT

Regina Eco  
713-308-0329  
reco@millerandlents.com

### NONMEMBER PRICE

Pre-registered by  
October 26th \$350  
Walk in \$375

### EVENT DESCRIPTION

This seminar is the most popular SPE program. The course is designed as non-technical audio-visual guided tour through the oil patch, illustrating the basic equipment and techniques used in the discovery, development and production of petroleum.

The event will begin with an introduction and an outline of the day. The following topics will be discussed: the economics & future of the petroleum industry, theory of the origins of hydrocarbons, reservoir parameters (e.g., porosity and permeability), geology of petroleum & geophysics, drilling basics, well logging, well completions, reservoir drive mechanisms, production equipment (subsurface & surface) and midstream & downstream topics.

## COMMUNITY SERVICE PROGRAMS

SATURDAY  
October 20

8:00 AM TO 6:00 PM

### REBUILDING TOGETHER HOUSTON

### DETAILS

Many people in our community are not able to leave their homes without assistance. Rebuilding Together Houston identifies individuals who live in homes that need assistance and helps design ramps to be installed by volunteers. SPE-GCS works closely with Rebuilding Together Houston to provide the skilled labor required in order to bring these designs into reality for a worthy homeowner. We are in need of an eager crew of 5 to 10 individuals with some carpentry skills and tools. In addition, helpers/learners are also welcome. Project timing is flexible and the task size can be adjusted to fit the crew's skill level. Join us for a rewarding experience of building-in-place design and complete a ramp in one day. This can open up the world of one of our neighbors! Come join us! For details, please visit: [http://www.rebuildingtogetherhouston.org/about\\_us/programs\\_overview.htm](http://www.rebuildingtogetherhouston.org/about_us/programs_overview.htm)

Project Managers looking to earn credits towards their PMP certification are invited to volunteer for this program.

SATURDAY  
October 20

11:00 AM TO 5:00 PM

### ENERGY DAY

### LOCATION

Hermann Square,  
Houston City Hall

### CONTACT

Xuan Harris  
xuan.harris@gmail.com

### DETAILS

SPE Booth with interactive engineering activities: Magic Suitcase, Porosity Demonstration, etc. For additional details, please visit [www.energydayfestival.org](http://www.energydayfestival.org)

### VOLUNTEER FOR THE HIGH SCHOOL GUEST LECTURE PROGRAM

Make math and science more meaningful inside the classroom by sharing your experience and opportunities in the energy industry. Westside, Milby, and the Young Women's College Preparatory are looking for guest speakers to discuss career choices, what you do on a daily basis, and your experience with a topic taught in class.

Volunteers will visit a class this fall between September and November but sign up begins today. For more information please contact Ochiagha Victor Ananaba (OAnanaba@slb.com).



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FALL 2012/  
SPRING 2013

## HIGH SCHOOL RECRUITING CAREER FAIRS

### CONTACT

Xuan Harris  
xuan.harris@gmail.com

The Gulf Coast Section holds its annual high school recruiting fairs throughout the Greater Houston Area to encourage talented young students to consider a future in the oil & gas industry. Each recruiting fair is 2-3 hours long and held at a different high school each night. At these fairs, we provide information to high school students and parents about petroleum engineering degrees, careers and SPE scholarships and internships.

We are looking for a team to lead and help organize this program. If you are interested in volunteering contact Xuan Harris.

# Year Round

## ENERGY4ME CLASSROOM PRESENTATIONS

### DETAILS

*Energy4Me is a classroom program that both connects industry volunteers with teachers and teachers with the tools they need to bring the oil and gas industry into the classroom. This program puts activities and lesson plans directly into the teacher's hands. While Energy4Me was designed with teachers in mind, we have successfully used this platform as a way for volunteers to step into the classroom for an hour or two to bring their own experiences to students of all ages.*

### CONTACT

*For additional information on how to bring a speaker to your classroom, or to volunteer to bring the program to an area school, please contact Kim Tran at kim.m.tran@gmail.com*

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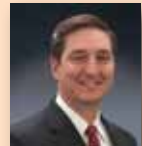
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President  
Swift Energy



David Biegler  
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Southcross Energy



John D. Clayton  
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lucy\_king@kindermorgan.com

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## Information

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# CALENDAR

October 2012

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					29th Annual SPE-GCS Tennis Tournament	29th Annual SPE-GCS Tennis Tournament
		1	2	3	4	5
	SPE Annual Technical Conf.	PetroTech Northside	Drilling	General Meeting Career Management BOD Meeting	Auxiliary	
7	8	SPE Annual Technical Conf.	9	10	11	12
		Permian Basin Projects, Facilities, & Construction	Westside	Career Management		Young Professionals
14	15	Safety & Environment	16	17	18	19
			Digital Energy Completions & Productions	Reservoir		
21	22	23	24	25	26	27
		Young Professionals	Continuing Education			
28	29	30	31			