

October 2011



Gulf Coast Section

# GULF COAST SECTION

## NEWSLETTER



**General Meeting:**  
Industry Analysis &  
Outlook

**1<sup>st</sup> Annual UH-Rice  
Student Chapter  
Golf Tournament**

**PF&C:**  
Produced Water  
Treatment: Yesterday,  
Today & Tomorrow

# CHAIRMAN'S CORNER

by Hiep Vu, Shell  
2011-12 SPE GCS Chair

## President's Award for Section Excellence

"And the winner is ..." Congratulations to the members of the SPE Gulf Coast Section! As this year's SPE-GCS chairman, it is my privilege and honor to inform our membership that our section has been recognized as a winner of the SPE President's Award for Section Excellence. 2011 SPE President Alain Labastie will be presenting this award to our section during the ATCE President's Luncheon on November 2<sup>nd</sup> in Denver, Colorado. I want to extend my deepest appreciation to all of our volunteers who have tirelessly committed their time and efforts to helping this section deliver on its mission. Our volunteers truly are the heart and soul of our section. If you know of a fellow GCS volunteer, please take the time to thank them for their hard work and dedication. If you have an employee who volunteers for our section, thank you for your continued support of their volunteerism.



The selection process for the SPE President's Award for Section Excellence is solely based on each section's annual report. This report is filed with SPE International every June and contains the documentation of every single meeting, technical luncheon, seminar, workshop, sporting event, scholarship, community outreach, etc. for the last 12 months. Considering the number of events that our section hosts on an annual basis, this is definitely not a small task! I'd like to take this opportunity to specially recognize **Jane Moring, Mark Peavy, Bill Davis, Jeanne Perdue**, and all of our study group and committee members who contributed to the compilation of the Gulf Coast Section's Annual Report. The SPE-GCS 2010-2011 Annual Report can be found on our [www.SPEGCS.org](http://www.SPEGCS.org) homepage, so I invite you to download a copy and review our section's activities from last year.

## Innovations and New Initiatives

A couple of things that SPEI looks for in section excellence are innovation and initiative. In this past year, the Gulf Coast Section has implemented a number of new and innovative ideas to help improve on our delivery of our mission. (1) We began testing **webinar technology** at a few of our study group meetings and even at our monthly board meetings. Although this technology is not intended to replace the act of attending meetings, it does provide our members with an alternative for working around scheduling conflicts. The webinar trials were deemed quite successful, so the section hopes to further expand upon this innovative technology for the 2011-2012 program. (2) The section also **upgraded its financial controls** to serve the study groups and committees better. The improved functionalities will allow each study group and committee a faster means for processing

## 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, Discover, 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.*

## SPE Houston Office

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Monday through Friday

## Newsletter Committee

Chairman	<b>Kartik Ramachandran</b>
Treasurer	<b>Manas Gupta</b>
Features	<b>Buddy Woodroof</b>
Editor	<b>Regina Eco</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

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# GENERAL MEETING

## INDUSTRY ANALYSIS AND OUTLOOK

**Speaker:** Andrew Lees  
Invesco Energy Fund

**Date & Time:** 11:30 a.m. - luncheon  
Thursday, October 13

**Location:** Petroleum Club  
800 Bell Street, 43<sup>rd</sup> Floor  
Houston, TX 77002

**Cost:** \$35 per member preregistered  
\$40 for nonmembers preregistered  
Additional \$5 for walk-ins

**Registration:** [www.spegcs.org](http://www.spegcs.org)  
**Deadline:** Noon, Tuesday, October 11

*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."*

**Andrew Lees** is the lead portfolio manager for both the Invesco Energy team and the Gold and Precious Metals team.



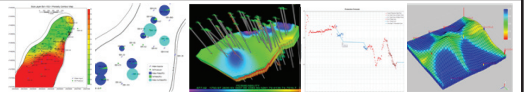
Andrew entered the financial industry in 1994 before joining Invesco in 2005. Previously, he was director of investment banking with Trinity Capital Services. He also served as an energy analyst with RBC Capital Markets, Stifel, Nicolaus & Co., Petrie Parkman & Co. and A.G. Edwards. In 1998, he joined Merrill Lynch Canada as vice president of investment banking.

He earned a BA in economics from the University of Western Ontario and an MBA with concentrations in finance and accounting from McGill University.

This presentation will be a review of the energy markets from the perspective of a mutual fund company and the capital markets. Oil, natural gas and alternative energy markets will be discussed. Global oil supply and demand, oil in emerging markets, oil and gas prices, and natural gas supply and demand are some of the topics to be discussed.

As painful as it has felt, the global recession is expected to be just a bump in the road of continuously increasing energy consumption. By 2012, excess supply of crude oil is likely to again be woefully inadequate and additional sources of energy will have to be developed and/or procured. The lion's share of incremental demand in recent years has come from developing nations. This trend is expected to continue as the economies in developing countries (China, India, etc.) continue to grow. Renewable fuels such as wind and solar are expected to gain global market share within the next two decades.

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continued from page 2

expenses as well as providing real-time accounting of their group's activities. (3) In addition, Mark Peavy, our past chairman, will be creating an **SPE-GCS Advisory Board** comprised of our past section chairmen. This Advisory Board is intended to strengthen the section's focus on technical content. (4) And last, but not least, our **monthly section newsletter** underwent a complete transformation and is now in full color! However, we are always looking for better ways to serve our membership. If you have any novel ideas that you would like the board to consider during this program year, please contact me or any board member.

### Revisions to our Bylaws

It's been a little over two years since the last amendment to the bylaws, but with progress, there comes a need for change. The board has recently approved new amendments to the SPE-GCS Bylaws and has posted the proposed revisions on our section's homepage. The board will be presenting them to the general membership for a vote during the SPE-GCS General Meeting's October 13<sup>th</sup> luncheon at the Petroleum Club. The general membership is invited to this luncheon to review and vote on the proposed changes to the bylaws.

I hope to see you there!

### Editor Updates:

Our cover for this month is courtesy of **FMC Technologies**. The frac trees photo was taken at the Barnett Shale outside of Fort Worth courtesy of.

These are 10,000-psi frac trees with a safety platform for a pad of two groups of wells, 10 in one area and 11 in the other.

*Regina Ewo*

## October Board Meeting

The Gulf Coast Section board of directors meeting will be held from 7:30 to 10:30 a.m., Thursday, October 20 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).

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# Volunteer Spotlight



Joseph Ayoub

## Monthly Membership Report Gulf Coast Section August 2011

	Aug-11		Jun-11	
	Total	YP (subset)	Total	YP (subset)
<b>SPE-GCS Members</b>	13,969	2,681	13,579	2,560
<b>New Members</b>	74	25	111	41
<b>Reinstated Members</b>	11	3	21	5
<b>Transferred to GCS</b>	49	19	68	30
<b>Transferred out</b>	43	17	30	9
<b>Unpaid</b>	1,618	572	1,723	618
<b>Student Members</b>	Paid	Unpaid	Paid	Unpaid
<b>-Texas A&amp;M</b>	685	164	627	164
<b>-UH/Rice</b>	189	35	179	35
<b>-HCC</b>	33	5	32	5
<b>-Unassigned</b>	19	2	15	2
<b>Total</b>	853	206	842	210
<b>Grand Total Paid/Unpaid</b>	14,895	1,809	14,432	1,929
<b>% Paid</b>	89.2%		88.2%	

In our monthly Volunteer Spotlight, we normally feature SPE members who are active in section-level activities. However, there are also many Gulf Coast Section members who serve on committees at the SPE International level. This month we want to feature Joseph Ayoub, the domains career leader for the reservoir and production & completion engineering domains at Schlumberger, who has pretty much done all of his SPE volunteering at the international level.

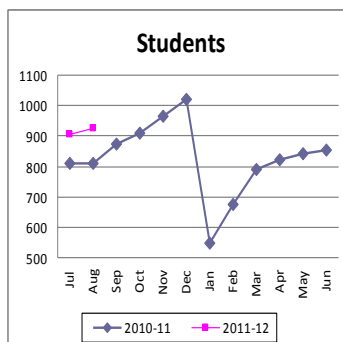
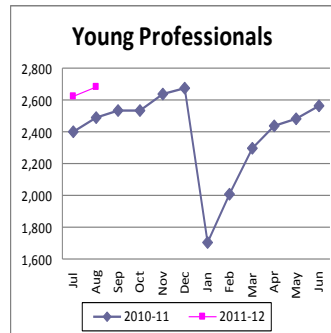
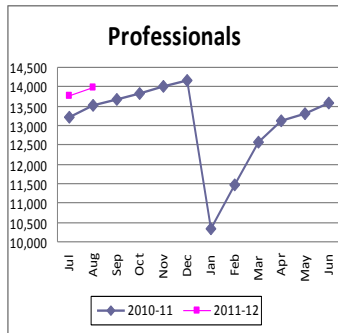
Although he joined SPE in 1980, Joseph did not actively participate in SPE right away. He was encouraged by his management to attend local SPE meetings in the UAE where he was assigned, and in 1983 he wrote his first SPE paper titled "Pressure Buildup in Gas-Lift Oil Wells, Falah Field, Offshore Dubai." In 1988, he volunteered to serve on the SPE Editorial Review Committee to peer review SPE papers. He has written or helped write 30 SPE papers over the years and holds several US Patents.

Joseph served as an SPE Distinguished Lecturer in 1998-99 and again in 2009-10. On his first tour, he shared tips for "Improving the Productivity of Sand Control Completions" to Sections all around the world. His second world tour featured a lesson on "Realizing the Full Potential of Hydraulic Fracturing – Damage Mechanisms and Mitigation."

He currently serves on the SPEI Board of Directors as the technical director for drilling & completion.

So how does one go about volunteering for such international committees?

"Well, you write SPE papers and you go to SPE meetings, where you meet other SPE colleagues, learn from them and share your own contributions," Joseph said. "Participate in technical events, which by their nature are more international in scope. That's how you get to know the SPE members who serve on the committees and organize the meetings. Those committees are always looking for volunteers."



## AUXILIARY

**Date & Time:** 11:00 a.m.  
Friday, October 14

**Location:** Carmelo's Ristorante Italiano  
14795 Memorial Drive  
Houston, TX 77079  
281-531-0696

**Cost:** TBA (Checks Only, Please)

**Deadline:** Noon, Tuesday October 11  
(Deadlines are Firm)

**Program:** John Gonzales  
*Bay City Historical News* and  
*News Copy Editor* for the  
*Houston Chronicle*

**Contacts:**

Nancy Hill  
nancyhill2444@sbcglobal.net  
281-435-1619

Evelyn Earlougher  
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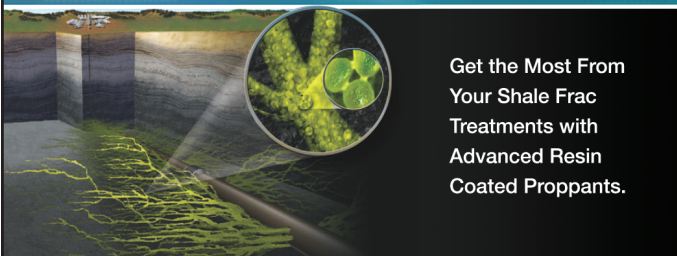
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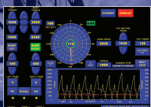
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# COMPLETIONS & PRODUCTION

## EVOLUTION OF BAKKEN COMPLETION STYLES, STAGES AND RESULTS

**Speakers:** Andronikos Demarchos  
Thomas Lenney  
Hess Corporation

**Date & Time:** 11:30 a.m. - luncheon  
Wednesday October 26

**Location:** Greenspoint Club  
16925 Northchase Drive  
Houston, TX 77060

**Cost:** \$35 for preregistered  
\$40 for walk-ins

**Registration:** [www.spegcs.org](http://www.spegcs.org)  
**Deadline:** Noon, Monday October 24

Production data are plotted at 30 days, 90 days, 180 days, 270 days and one year. The data show a very good relationship of total oil produced to number of stages pumped (wells identified as being in Parshall Field have been removed). Normalized production volumes by the number of frac stages pumped are also plotted.

When these same wells are plotted using BOPD per stage versus number of stages, the two types of fracture stimulations (sleeves and plug and perf) show comparable production rates. Early on, the plug and perf method enabled the operator to pump many more stages than available frac sleeve technology. However, today it is possible to pump 34-40 stages using frac sleeves.

This presentation will show how Bakken-Three Forks multi-stage completion practices have evolved through time, and the corresponding production associated with these completions.

Over 1,000 wells have been used in this analysis. The NDIC (North Dakota Industrial Commission) is the main source of data; however, data from press releases and wells currently not released are also used. Neither individual wells nor companies will be identified. Only multi-stage completions will be discussed.

The data shows how the number of fracture stages has increased through time from 2009 until early 2011. Several companies pumped 40 stage stimulation jobs (March 2010 - March 2011), and it would appear that 40 stages may be too many. The data seems to suggest a convergence towards 32-38 stages for a 1280 acre DSU (Drilling Spacing Unit).

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## Integrated Planning – Key Management Approach for Achieving Operational and Capital Efficiency

<b>Speaker:</b>	Horia Orenstein SAS Institute
<b>Date &amp; Time:</b>	11:30 a.m. - luncheon Wednesday, October 12
<b>Location:</b>	Courtyard at St. James 1885 St. James Place Houston, TX 77056
<b>Cost:</b>	\$35 per members \$40 for nonmembers and walk-ins
<b>Registration:</b>	<a href="http://www.spegcs.org">www.spegcs.org</a>
<b>Deadline:</b>	Noon, Monday, October 10

New projects and mature fields alike face the challenge of maintaining recovery rates with reasonable capital and operational efforts. This is challenging in today's upstream world, where regulatory environment is more stringent, the natural environment where oil is found is more difficult and knowledgeable human resource talent is a bigger competitive advantage than ever before.

The presentation describes an innovative approach for Integrated Planning, where human knowledge is captured, activities previously performed by humans are automated and uncertainties are quantified and controlled. The approach assumes management buy-in, staff mobilization, regular business process reviews, and organization and better integration of operator and contractor tasks -- all enabled by software analytics.

Referencing business cases, the presentation will share the benefits on production, asset life, costs and productivity, achievable with this new approach.

**Horia Orenstein** has 17 years experience in the oil and gas industry. He received his MSc from Polytechnical Institute in Bucharest, Romania.

At SAS Oil and Gas Global Business Unit, his leadership responsibility includes the development, standardization and implementation of innovative business concepts and solutions. He also collaborates with international customers and industry stakeholders in the areas of integrated operations, integrated asset management, asset portfolio management, integrated planning, production management and optimization, facility integrity.

He has served in strategic roles developing and implementing concepts and solutions for a variety of leading oil and gas companies.

Prior to SAS, he was a business consultant and manager with AspenTech, Invensys, and Simulation Sciences, and a business consultant with ComputerVision.

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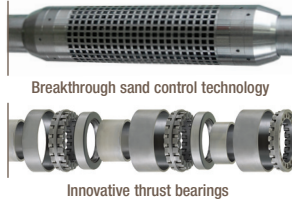
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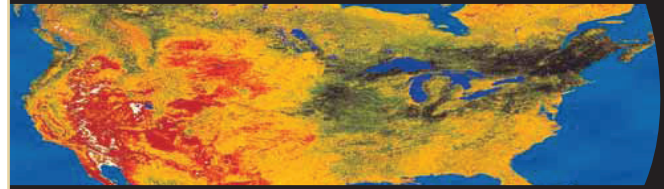
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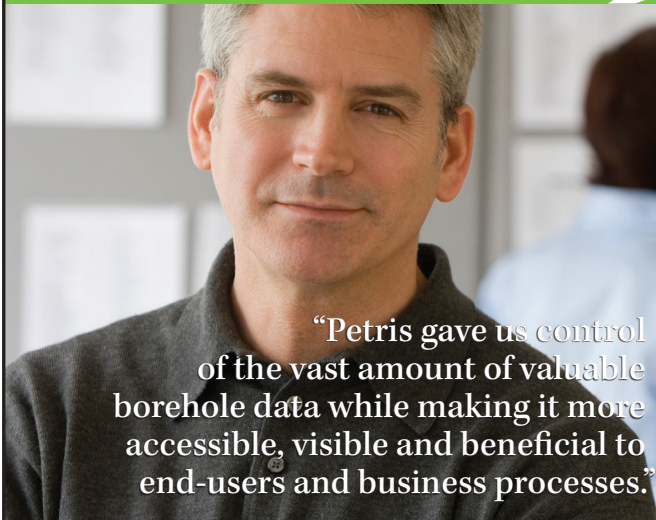
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## Courses Coming to the SPE Houston Training Center

### **Oil and Gas Economics and Uncertainty**

Rodney Schulz  
8–9 November

### **Waterflooding Concepts, Design Prediction and Optimization**

Iraj Ershaghi  
10 November

### **Basic Pressure Transient Test Analysis**

John Lee  
14–15 November

### **Cement Evaluation and Remediation**

James Smolen and Bill Ott  
16–17 November

### **Screening of Reservoirs for EOR/IOR**

Ashok Singhal  
29 November

### **Field Piloting for EOR/IOR Schemes**

Ashok Singhal  
30 November

### **Practical Aspects of Thermal EOR**

Paul Bondor, Ashok Singhal,  
and Sam Avasthi  
1 December

### **Practical Reservoir Surveillance and Management Techniques for Primary, Secondary, and Tertiary Oil Recovery Projects**

Paul Bondor, Ashok Singhal,  
and Sam Avasthi  
2 December

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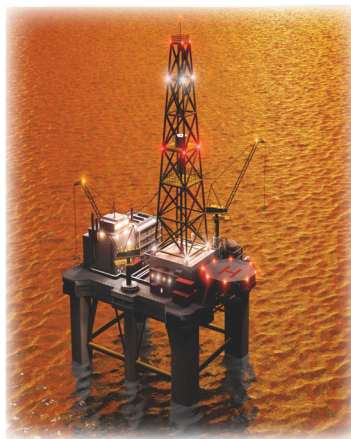
Be sure to check the schedule for courses being offered at SPE Annual Technical Conference and Exhibition, 30 October through 2 November in Denver.

Register today—go to [www.spe.org/go/trainingcourses](http://www.spe.org/go/trainingcourses).

Society of Petroleum Engineers



# Then



# Now

by Buddy Woodroof, ProTechnics  
Features Editor

## October 1961

An aluminum string of drill pipe passes ultrasonic inspection after 100,000 total ft of drilling. (Must have been a sight to watch two men loading joints onto a pipe rack.)

- Before year's end, it is predicted that there will be a gas turbine driving a drilling rig in the field. (So what next... directional drilling?) How about storing frigid LNG in a hole in the ground topped by an insulated aluminum roof? Simply employ a "freeze pipe" refrigerant system to freeze the ground before excavating, dig a 20 ft deep x 20 ft diameter hole, cap the hole with the insulated aluminum roof, and fill 'er up with the -258 deg F liquid. (Sounded better than a good hockey fight to the Canadians.)
- Texas congressman Frank Ikard announces plans to resign his seat in the House of Representatives to become executive vice-president of the API. (Speaker of the House Sam Rayburn lambasts Ikard for leaving government to get a real job outside of government.)

East Texas crude oil - \$3.25/bbl  
U.S. active rig count - 1,830

## October 1986

Sir Peter Walters, chairman of British Petroleum, predicts that world oil prices will remain at \$15/bbl until 1990. (Why don't we attach "Sir" to the names of the chairmen of U.S.-based international E&P companies...Sir Rex Tillerson, Sir James Mulva? Just a thought.)

- Meanwhile, some of the industry think-tanks predict that oil prices will reach \$24/bbl sometime next year.
- Mexico and Venezuela continue their efforts to control the marketing of oil in Central America and the Caribbean by signing agreements to provide oil to nine of those countries. (Mexico probably wishes they had some of that oil back now.)
- If Proposition 65 (The Safe Drinking Water and Toxic Enforcement Act) passes on the November ballot, a "bounty hunter" provision will enable anyone to sue to enforce provisions of the act and will entitle "citizen enforcers" to 25% of the penalties collected.

U.S. active rig count - 814

## October 2001

On the heels of the terrorist attacks in New York City and Washington D.C. and OPEC's hints that it would not change production quotas, oil futures prices fall to 22-month lows.

- The terrorism aftermath is also pushing natural gas storage levels to an anticipated 3.1 tcf within a month.
- Meanwhile discussions are underway as to potential methods that could be employed to expand the Strategic Petroleum Reserve to 1 billion bbl.
- Petrobras resumes development of its Roncador field off Rio de Janeiro state in the same area where its P-36 semisubmersible platform sank earlier this year.



- Two multibillion-dollar deals of note surface during the month, namely, Burlington offering to buy the stock of Canadian Hunter Exploration and Shell agreeing to buy Texaco's 44% interest in Equilon Enterprises to help finalize the Chevron-Texaco merger.

Light sweet crude oil - \$21.81/bbl  
 Natural gas - \$2.29/MMbtu  
 U.S. active rig count - 1,141

## 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.

Richardson claimed that he made his first million at Burkburnett, however, he didn't keep it long. Richardson and Murchison had been trading leases for barely nine months when disaster struck, at a time when almost all of their money was tied up in drilling blocks along the Red River. In early 1920 the overheated commodities markets collapsed, forcing the price of oil down from \$3.50 a barrel to a dollar. Richardson and Murchison awoke one morning to find all of their capital invested in land no one would be drilling anytime soon. Worse still, they had borrowed money—probably from Murchison's father—to assemble the block, and both men now faced their first serious debts.

Unable to afford even room and board, the two sheepishly moved into Doc Bass's house in Wichita Falls, which soon became a clubhouse for their oilfield friends. Murchison, meanwhile, used the idle time to court the girl he hoped to marry, Anne White, the charming, petite daughter of one of Tyler's wealthiest families. He had proposed to Anne as a teenager, but at that time, Anne's father judged her to be too young to marry. Now during a visit to Wichita Falls, she accepted his proposal and this time her father consented. The wedding, representing the union of two of East Texas's most prominent families, was the social event of the year in Tyler. Richardson limped down the aisle as an usher. Either Murchison's fortunes had improved overnight, or his father had given him more money, because the newlyweds left the reception in a yellow Rolls-Royce, Clint's wedding gift to Anne.

By the time Murchison returned to Wichita Falls oil prices had recovered and Clint went to work buying new leases. For the first time he actually began drilling his own oil wells.

Chronically short of cash—like most wildcatters—he would trade a share in one lease for a rig to drill another. He called it "financing by finagling" and other oilmen watched him in awe. However, by this time Murchison was no longer working with Richardson. Exactly why is not really known, although family members speculate that as a bachelor Richardson was willing to take more risks. The fact was Murchison no longer needed Richardson; he knew the oil game now, and unlike Richardson, he had the family money to play it. County leasing records suggest it took years for Richardson to unload the last of his land along the Red River, at which time he was virtually broke and down but not out.

Next month, Richardson battles his way through the recession years. (Article excerpted from "The Big Rich.")

## History Quiz

Massachusetts adventurer and rubber heir Edgar Davis is credited with discovering the Luling oil field following a séance with what noted mystic?

*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.*

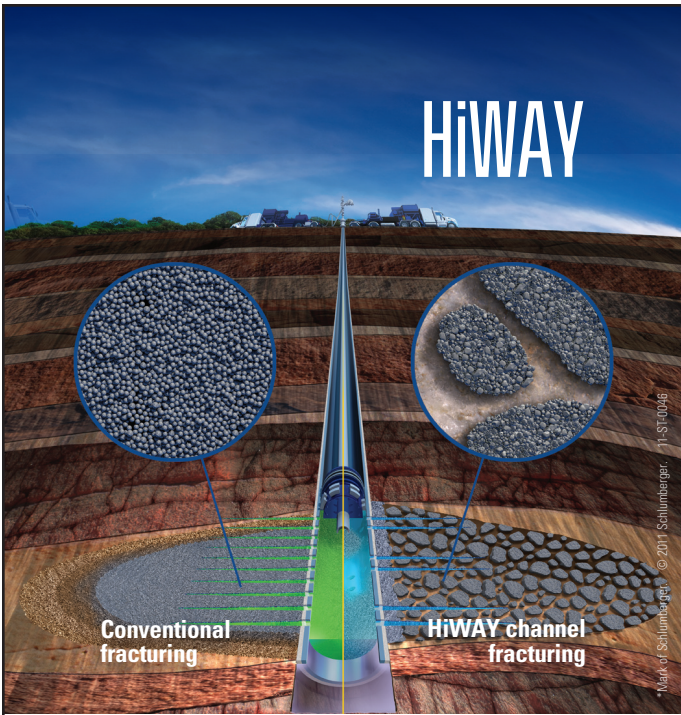
### Answer to September's Quiz

The site of the first oil refinery in Central America was Puerto Matias de Galvez, Guatemala, and the year was 1961.

### Answer to May's Quiz

Prior to the mid-1970's when the Bureau of Mines demonstrated that coal beds could yield substantial quantities of pipeline-quality natural gas, U.S. coal mines were venting approximately 200 MMcfd of natural gas to the atmosphere.

**Congratulations to May's winner - Walt Laffin with Baker Hughes.**



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## Conventional vs. RSS Drilling

**Speaker:** John B. Willis  
Occidental Petroleum Corporation

**Date & Time:** 11:30 a.m. - luncheon  
Wednesday, October 12

**Location:** Petroleum Club  
800 Bell Street, 43<sup>rd</sup> Floor  
Houston, TX 77002

**Cost:** \$40 per member preregistered  
\$45 for nonmembers and walk-ins

**Registration:** [www.spegcs.org](http://www.spegcs.org)  
**Deadline:** Noon, Monday, October 10

**John B. Willis** is chief of drilling for Occidental Oil & Gas Corporation, a subsidiary of Occidental Petroleum Corporation.

John joined Oxy in 2006 as manager of Drilling Performance and Technology in Houston. He served as drilling manager for Oxy in Libya, and then Oman, returning to Houston in 2010. As chief of drilling, he manages the Oxy headquarters staff group responsible for global systems and experts.

He graduated from Texas A&M University with a degree in chemical engineering. He started his career at Exxon, then operated a drilling software and consulting company, and worked with global service companies.

John is an active SPE member for more than 25 years. He has also chaired two SPE Forums, and chaired the 2003 SPE/IADC Drilling Conference.

Rotary Steerable Systems (RSS) have been in use for drilling since the late 1990's. Initially used only on expensive wells or special situations due to their high cost, they are now commonly used on even simple land development wells. Some in the industry believe RSS could replace conventional drilling systems.

John Willis, chief of drilling for Occidental Oil & Gas Corporation, will review Occidental Oil & Gas Corporation's experience using RSS and other kick-off and steerable systems on land drilling operations, comparing and contrasting results, and the value between RSS and other methods in Oxy's operations.



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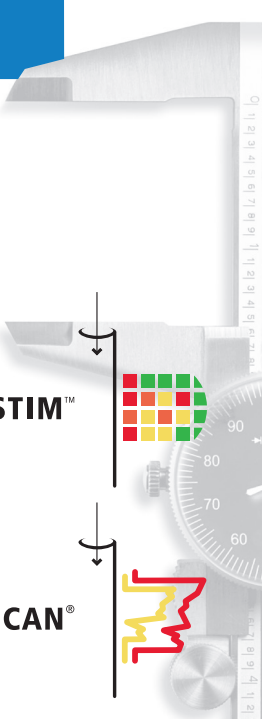
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## Reliability Based Design – The Inevitable Evolution in Complex Wellbore Tubular Design

<b>Speaker:</b>	David B. Lewis Blade Energy Partners
<b>Date &amp; Time:</b>	11:30 a.m. - luncheon Tuesday, October 11
<b>Location:</b>	Greenspoint Club 16925 Northchase Drive Houston, TX 77060
<b>Cost:</b>	\$30 per member preregistered \$35 nonmember preregistered Additional \$5 for walk-ins
<b>Registration:</b>	<a href="http://www.spegcs.org">www.spegcs.org</a>
<b>Deadline:</b>	Noon, Friday, October 7

This lecture focuses on the application of reliability-based design for complex wells. Traditional design approaches and their limitations will be reviewed briefly.

The evolution of design to limit states, as exemplified by the recent ISO TR 10400 and API TR 5C3 documents for casing and tubing, will be discussed in some detail, along with the rationale for reliability-based design.

The rigorous statistical basis and the standards that govern the development of reliability based designs will be discussed and placed in the context of the natural tolerance and aversion of a society to risk.

The concept of “Design Levels” based on the sophistication and probabilistic nature of the approach will be presented to show that reliability-based design approaches are standard in virtually every other structural and civil design discipline, with our industry being a late adopter of this critical enabling technology.

**David B. Lewis** is currently the president and CEO of Blade Energy Partners. He has over 30 years of domestic and international experience in oil & gas exploration and production. He has a management and a strong engineering background in drilling, completions and offshore structures with experience in deepwater, big bore (mono bore) and high pressure - high temperature wells (surface pressures of 30,000 psi and surface temperatures of 450 degrees F).



His expertise includes technology management, deepwater drilling, HPHT wells, reliability-based design, tubulars, connections, marine drilling risers, conductors, pipelines, offshore structures, down-hole equipment, project management, training and finite element analysis.

David is very active in API and ISO committee work serving on seven different committees and is the current chairman of API Committees: API 5-EX (Solid Expandables), API RP 16Q (Marine Drilling Risers) and API 16R (Marine Drilling Risers Connectors). He has over twenty five archival publications in various areas of tubular mechanics and structural engineering.

He is a Registered Professional Engineer in the State of Texas, and a member of ASCE and SPE. In 2009 and 2010 he served as a Distinguished Lecturer for SPE. David received his BS and MS degrees in civil engineering from University of Missouri-Rolla.

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# PERMIAN BASIN

## Shortening the Learning Curve in Horizontal Well Liquids Extraction in the Permian

**Speaker:** Doug Walser  
Pinnacle  
A Halliburton Service

**Date & Time:** 11:30 a.m. - luncheon  
Tuesday, October 18

**Location:** Westlake Club  
570 Westlake Park Blvd  
Houston, TX 77079

**Cost:** \$35 per member preregistered  
\$40 for nonmembers preregistered  
Additional \$5 for walk-ins

**Registration:** [www.spegcs.org](http://www.spegcs.org)  
**Deadline:** Noon, Friday, October 14

This presentation will focus on completion practices and liquids-rich reservoir realities that appear to have influenced the acceleration of reserve recovery to the greatest degree in the Avalon, Bone Spring and Wolfcamp horizontal plays.

Our industry is currently focusing on unconventional plays that have proven critical in arresting the decline of Delaware and Midland Basin hydrocarbon production. The Avalon, Bone Spring, and Wolfcamp horizontal plays in particular have materially impacted both rig count and the rate of acceleration of reserve recovery. All three of these plays are combinations of low thermal maturity resource reservoirs and conventional volumetric decline Darcy-parameter reservoirs, with unique defining characteristics that point toward the need to perform up-front science prior to positioning development wells and designing a completion schema.

Stimulation practice cannot generally be “cook-booked” across these plays, as quite a bit of variation exists with respect to geological, geophysical, geochemical and reservoir parameters. However, localized practice may be standardized to the point that the acceleration of reserve recovery is optimum under some pre-defined net present value (NPV) condition. In a given localized segment of a particular liquid hydrocarbon play, natural parameters may

be statistically similar, enough so that consistent D&C practices define what many industry participants define as a “field development plan”, “standardized practices” or “manufacturing mode.”

Manufacturing process as it relates to standardized D&C practice involves numerous inter-related exercises. However, as in other industrial segments, application of the Pareto Principle suggests that focusing on a relatively few core principles and practices results in “dovetailing” toward an optimum process.

**Doug Walser** has extensive (32 years) Permian Basin, Mid-continent, Appalachia, Rockies, and South Texas experience with Pinnacle, Dowell Schlumberger, The Western Company of North America, and BJ Services.

Doug has specialized in the calibration of three-dimensional fracture modeling via a number of methods, including historical production transient analysis, and calibration by various fracture mapping processes.

He has taught numerous seminars and short courses on subjects related to his fields of interest, including mini-frac evaluation, 3-D pressure matching, horizontal completion best practices, fracture mapping techniques, and others. Most recently, he has specialized in the examination and comparison of the various emerging resource plays in North America, and more specifically, plays with liquid hydrocarbons.

Doug holds a BS in natural gas engineering from Texas A&I University, and has worked for Pinnacle for the last 9 years. He has authored 15 papers, and holds 3 patents in his areas of interest.



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**Date & Time:** 7:30 a.m. - Registration  
8:00 - 5:00 p.m. Workshop  
5:00 - 6:00 p.m. Networking Social  
Wednesday, October 26

**Location:** Norris Center  
803 Town & Country Blvd  
Houston, TX 77024  
713-590-0950

**Cost:** \$300 per member preregistered  
\$375 for nonmembers preregistered  
\$450 on-site registration

**Registration:** [www.spegcs.org](http://www.spegcs.org)  
**Deadline:** Noon, Monday, October 24

As the oil and gas industry continues to mature, the experience gap between the industry's newest entrants and those on the cusp of retirement continues to widen. Certain disciplines and particular areas of expertise are more prone to this generational loss, often due to unintentional neglect by the industry in favor of higher-profile disciplines such as reservoir management and subsea production. One of the most notable of these is the area of **Produced Water Treatment**. This workshop brings together a panel of some of the industry's foremost experts in the treatment of produced water for a single day workshop. Topics to be covered span the broad spectrum of treatment methods available and recommended for this complex constituent of our production efforts. The format allows each speaker a 35-40 minute presentation followed by a panel discussion with the speakers and attendees at the end of the day. We hope you can join us for this informative event and take advantage of the experience and knowledge possessed within this panel of experts.

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## Engineering Aspects of Tight Gas Sands and Gas Shales

- Speaker:** Dr. Thomas B. Blasingame  
Texas A&M University
- Date & Time:** 11:30 a.m. - luncheon  
Thursday, October 27
- Location:** Courtyard on St. James  
1885 St. James Place  
Houston, TX 77056
- Cost:** \$35 per member preregistered  
\$40 for nonmembers preregistered  
\$45 for walk-ins
- Registration:** [www.spegcs.org](http://www.spegcs.org)
- Deadline:** Noon, Tuesday, October 25

This work provides a roadmap of practice and theory for reservoir and production engineering that can (and should) be used for the description, assessment, and modeling of unconventional gas systems. There are many substantive engineering challenges which exist and are likely to remain with regard to unconventional gas systems.

The proposed workflow constitutes more than simply “best practices,” but rather, the means to develop optimal or fit-for-purpose processes and procedures for the engineering aspects of tight gas sands and gas shales. The application of this approach is demonstrated via anonymous field cases and literature materials and data.

### Dr. Thomas B. Blasingame

is a professor and holder of the Robert L. Whiting Professorship in the Department of Petroleum Engineering at Texas A&M University in College Station Texas. He holds BS, MS, and PhD degrees from Texas A&M University — all in petroleum engineering. In teaching and research activities, Dr. Blasingame focuses on petrophysics, reservoir engineering, analysis/interpretation of well performance, exploitation of unconventional reservoirs, and technical mathematics. He has made numerous contributions to petroleum technology in pressure transient test analysis, analysis of production data, reservoir management, characterization of reservoir performance, and general reservoir engineering.



Dr. Blasingame is a Distinguished Member of the Society of Petroleum Engineers (2000) and he is a recipient of the SPE Distinguished Service Award (2005), the SPE Uren Award (for technology contributions before age 45) (2006), and he has served as an SPE Distinguished Lecturer (2005). He has also received several teaching and service awards from Texas A&M University.

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## Worker Safety and Health - NIOSH Perspectives from the Deepwater Response

<b>Speaker:</b>	Dr. Margaret M. Kitt NIOSH
<b>Date &amp; Time:</b>	11:30 a.m. - luncheon Tuesday, October 18
<b>Location:</b>	Petroleum Club 800 Bell Street, 43rd Floor Houston, TX 77002
<b>Cost:</b>	\$40 per member preregistered \$50 for nonmembers and walk-ins
<b>Registration:</b>	<a href="http://www.spegcs.org">www.spegcs.org</a>
<b>Deadline:</b>	Noon, Friday, October 14

On April 20, 2010, the Deepwater Horizon (DWH) Offshore Drilling Unit, located 45 miles southeast of the Louisiana coast, suffered a massive explosion that culminated in a fire which ultimately sunk the unit. Eleven workers lost their lives and seventeen other workers were injured in the explosion and fire. Oil began flowing into the Gulf of Mexico soon after the explosion and continued to flow until the well was finally capped on July 15, 2010.

This disaster presented significant challenges in protecting and ensuring the safety of the tens of thousands of responders, geographically spread across the Gulf of Mexico region in Louisiana, Mississippi, Alabama, and Florida. As part of the response effort, the National Institute for Occupational Safety and Health (NIOSH) supported the Unified Area Command (UAC) by leading several initiatives to help protect DWH responders. These activities included rostering of workers, conducting health hazard evaluations, providing technical guidance and communication/educational materials, conducting health surveillance activities, and performing toxicity testing on samples of the oil dispersant and the crude oil itself.

**Dr. Margaret M. Kitt** received her BS from the State University of New York at Albany, and her MD from the University of Rochester School of Medicine and Dentistry, and a MPH from the University of Washington. She is certified by the American College of Preventive Medicine in both Aerospace Medicine and Occupational Medicine.


Dr. Kitt was a senior flight surgeon in the U.S. Air Force, serving for 14 years. In 2002, she joined the U.S. Public Health Service and the National Institute for Occupational Safety and Health (NIOSH) in the Division of Respiratory Disease Studies. She has served as the NIOSH Associate Director for the Emergency Preparedness and Response Office and is currently the NIOSH Deputy Director for Program.

During the Deepwater Horizon Response Dr. Kitt functioned as the NIOSH Operational Lead for the event.




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### ENTRY FORM 28<sup>th</sup> ANNUAL SPE GULF COAST SECTION SCHOLARSHIP TENNIS TOURNAMENT ENTRY DEADLINE – FRIDAY OCTOBER 28, 2010

(1 entry form per player)

Tournament Doubles - Fee \$125 per person cash or credit.

Please Print Information

Your Rank (circle): Championship A B C      T-Shirt size (circle): M L XL XXL

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#### REGULAR MEMBERS DOUBLES:

Are you playing member doubles? (circle) YES NO

Partner's name for Tournament Doubles (Partner must send in own entry form) \_\_\_\_\_

Partner's Ranking (circle): CHAMPIONSHIP A B C

Or do you need a partner? (circle) YES NO

#### SOCIAL MIXED DOUBLES:

Are you also playing in the Social Mixed Doubles? (circle) YES NO

Additional \$50 if Social Mixed doubles partner is not playing in Tournament Doubles.

Social Mixed Doubles Partners Name: \_\_\_\_\_

Social Mixed Doubles Partner's Rank: (circle) Championship A B C

#### Method of Payment:

Payment (circle): Check Visa MC Amex Card # \_\_\_\_\_ EXP Date: \_\_\_\_\_

If paying with credit card you may E-mail entry to: SPE-GCS Tennis c/o – joannehresko@comcast.net

Name as it appears on the credit card: \_\_\_\_\_

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Please mail entry form with payment to: (make checks payable to: SPE-GCS Tennis)

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c/o Joanne Hresko  
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July 1, 2011

Dear SPE Supporter:

The Twenty Eighth Annual Society of Petroleum Engineers Tennis Tournament (Gulf Coast Section) in support of "Scholarships for our future Petroleum Engineers" will be held on November 4<sup>th</sup> & 5<sup>th</sup> at The Houston Racquet Club (713-464-4811) located at 10709 Memorial Drive in Houston, Texas.

We had a very successful tournament last year with over 80 players participating and contributing over \$14,900 to the SPE-GCS Scholarship Fund. In combination with other SPE functions there have been 20 new scholarships for incoming college freshman studying petroleum engineering, and 89 renewed scholarships which include sophomores, juniors and seniors with their continued education in petroleum engineering. More than \$1 Million in scholarships have been awarded since 1963 to students through this program.

Sponsors are a welcome and essential part of making this event a success. 100% of the net proceeds from the tournament is used to supplement the SPE-GCS Scholarship Fund for graduating seniors interested in a career specializing in the Oil and Gas Industry. We need your support, please.

In an effort to increase the percentage of the donation, we are also inviting your company to be a sponsor of the tournament by donating prizes which will be given away at the awards ceremony with due recognition of your organization. All sponsors will be recognized in the tournament program and on the sponsorship billboard that is exhibited throughout the tournament. Please see Sponsor Form for sponsorship levels. We appreciate your support, and if you need more information please call.

Jim Sheridan	Tournament Chairman	281-432-9209
Joanne Hresko	Treasurer	281-618-7521
Suzanne del Rosario-Davis	Awards Chair	713-839-2135
Bob Fu	Communication Chair	713-591-9808
Gurjeet Jauhar	Facilities	713-683-3413

Please send your contributions to the following address:

**SPE-GCS Tennis**  
**c/o: Joanne Hresko**  
**74 Hessenford Street**  
**Sugar Land, Texas 77479**  
**E-Mail: joannehresko@comcast.net**

Sincerely,

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 2011 SPE-GCS Tennis Tournament Chairman





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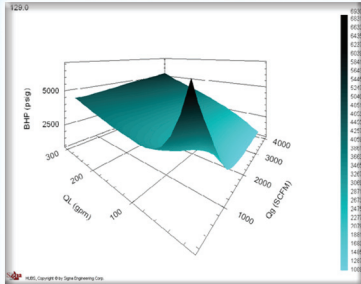



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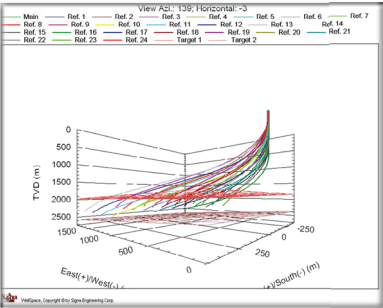
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Back-to-School 2011 SPE-GCS YP Volunteers (left to right): Simeon Eburi, Sandeep Pedam and Shiv Patil.

## Optimizing Hydraulic Fracture Placement in Eagle Ford Horizontal Completions Utilizing Limited Entry

**Speaker:** Scott McCarthy  
Lewis Energy

**Date & Time:** 11:30 a.m. - luncheon  
Wednesday, October 19

**Location:** The Westlake Club  
570 Westlake Park Blvd  
Houston, TX 77079

**Cost:** \$35 per person preregistered  
\$40 per person walk-in

**Registration:** [www.spegcs.org](http://www.spegcs.org)

**Deadline:** Noon, Monday, October 17

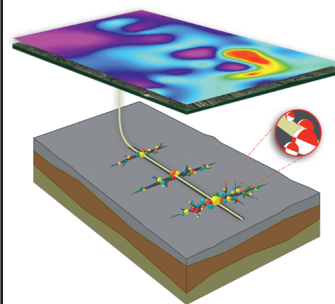
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In order to make the Eagle Ford shale an economic success, horizontal drilling and multi-stage hydraulic fracturing are essential. Placement of perforation clusters across the laterals is driven by rock quality, gas shows and sometimes simply by mathematics, all in an effort to effectively drain the reservoir. If the hydraulic fracturing treatments do not effectively treat all of the targeted intervals, then portions of the lateral can go unstimulated, thus stranding hydrocarbons in place. Lewis Energy has performed quite a bit of diagnostic testing to determine the optimum perforation design to ensure that the fracturing treatments are being diverted across all of the targeted intervals. Case histories will be presented that reflect the lessons learned.

**Scott McCarthy** is the completions manager for Lewis Energy in San Antonio, where his primary focus is the optimization of horizontal completions. Prior to Lewis Energy, Scott worked for a number of service companies and operators in engineering completions for deepwater soft rock to low perm hard rock reservoirs. He has a number of patents and technical papers to his credit relating to hydraulic fracturing.

Scott graduated from Texas A&I in Kingsville with a BS degree in natural gas engineering.

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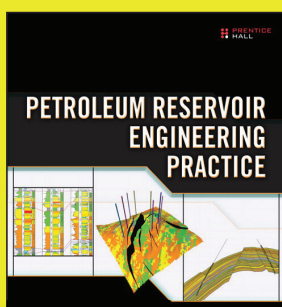
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# YOUNG PROFESSIONALS

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## Call for Volunteers!!!

### Earth Science Week Family Festival

**Where:** Houston Museum of Natural Science, **When:** 8 Oct 2011, **Time:** 11:30 a.m.-4 p.m.

To kick off National Earth Science Week, families are invited to join us for the Earth Science Family Festival. Scientists and engineers specializing in all types of earth sciences will be at the Museum's Wiess Energy Hall, the Paleo Hall, and the Cullen Hall of Gems & Minerals. There will be plenty of fun facts and activities to help you earn your badges. More about Earth Science Week: [www.earthsciweek.org/whatisesw](http://www.earthsciweek.org/whatisesw). Please contact Sandeep Pedam ([spedam@slb.com](mailto:spedam@slb.com)) if you'd like to volunteer. For more information, please visit SPE GCS website (<http://spegcs.org/en/cev/2095>).

Speak for 20 to 30 minutes on why you chose your major, why you chose the industry, your career path and opportunities etc., and then share a visual, problem solving activity, lab, or game to engage the students and help them understand more about your role or the industry. For questions or inquiries, please contact **James Prescott at [jprescott@flexpipesystems.com](mailto:jprescott@flexpipesystems.com)**

## Energy Day 2011

15<sup>th</sup> October 2011

Hermann Square, Downtown Houston, 77030

An official City of Houston event, Energy Day is a public, family-friendly festival on Saturday, October 15, 2011 that celebrates and highlights the importance of energy in our daily lives. This day-long festival takes place at Hermann Square in front of City Hall in Downtown Houston, Texas. There will be energy exhibits, live music, food, contests and fun for all ages. Geared toward K-12 students, Energy Day's mission is to highlight and demonstrate innovation in energy and to spark the interests of our next generation in energy-related careers. Through exciting, fun and interactive formats, Energy Day will give students and their families an opportunity to learn about various forms of energy, scientific breakthroughs and technology through educational displays, demonstrations, contests and presentations.

Interactive exhibits will be focused on innovation, energy production, processes and efficiencies that will create eye opening experiences for visitors. The students will be able to touch state-of-the-art technology, interact with the experts and ask questions. Together with our sponsors and partners, including Houston Mayor Annise Parker, Consumer Energy Alliance hopes to amplify how truly integral energy is in our daily lives while motivating, challenging and inspiring young minds to explore career paths in the energy field.

Volunteers are needed to distribute marketing materials, visit schools to talk about Energy Day and hand out flyers, and help on the day of the event. Please contact **Sandeep Pedam ([spedam@slb.com](mailto:spedam@slb.com))** if you'd like to volunteer. For more information, please visit SPE GCS website (<http://spegcs.org/en/cev/2096>)

## PetroBowl-X

31<sup>st</sup> October 2011

SPE ATCE 2011, Denver, Colorado

PetroBowl matches SPE student chapter teams against each other in a fast-paced quiz competition. The competing teams are challenged to answer both technical and non-technical questions associated with the oil and gas industry. Hosted annually at SPE ATCE by the Gulf Coast Section Young Professionals, the event has grown in size and popularity every year since its debut in 2002.

Please join us in supporting our student competitors at the largest Petrobowl yet! There will be a celebratory reception held the evening of October 31<sup>st</sup>. Please contact **Charles Meyer ([charles.s.meyer@exxonmobil.com](mailto:charles.s.meyer@exxonmobil.com))** or **Roy Borkhoche ([Roy.Borkhoche@bakerhughes.com](mailto:Roy.Borkhoche@bakerhughes.com))** if you have any questions. For more information, please visit SPE GCS website (<http://www.spegcs.org/en/cmt/?30>)

## Want to Know More about the SPE Young Professionals Committee?

We invite you to attend our monthly YP 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!



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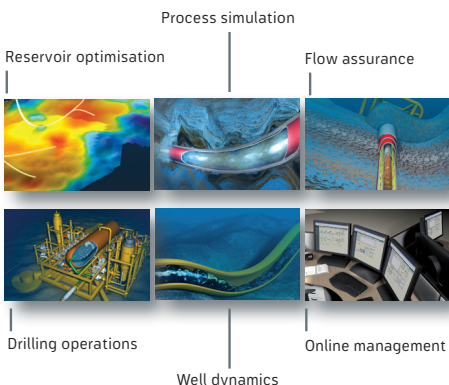
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Northside	Shawn McCleskey Rimassa	BASF	713-428-4902	<a href="mailto:shawn.rimassa@basf.com">shawn.rimassa@basf.com</a>
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## October Events

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1
2	3	4	5	6	7	8
9	10	11 Northside, p17	12 Digital Energy, p9 Drilling, p15	13 General Meeting, p3	14 Auxiliary, p6	15 Earth Day
16	17	18 Permian, p19 S & E, p25	19 Westside, p29	20 Board Meeting, p4	21	22
23	24	25	26 C & P, p7 PFC p21	27 Reservoir, p23	28	29
30	31 PetroBowl					