

# Gulf Coast Section

NEWSLETTER



Gulf Coast Section

## General Meeting

Meeting the Global Resource Challenge -  
Unlocking the Potential of Heavy Oil and Deepwater in  
Latin America

## Technical Meetings & Luncheons

Reservoir Fluid Properties (PVT): Issues, Pitfalls & Modeling  
Distinguished Lecturer 2010-11 Lecture Season

Taking the Right Next Step:  
Building an Upstream Oil and Gas M.L.P.

Worker Safety & Health -  
NIOSH Perspectives from the Deepwater Horizon Response

## Social Activities

GCS Annual Awards Banquet  
Sporting Clays Tournament

# Chairman's Corner

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

The month of May is a time of the year when the Gulf Coast section acknowledges and celebrates the contributions of many of our volunteers. A benefit of volunteerism within the SPE GCS is the opportunity to build and strengthen your reputation by increasing the level of respect from others. It's been said that the key to a good reputation is character, and that a person's character is like a fence, it cannot be strengthened with paint. Earning the respect of others is found through integrity, humility, dependability, priority living, generosity, and spirituality. Integrity is a cornerstone of the foundation of respect. Respectable people do not tell lies. In regards to humility, it's been said to be humble or you'll stumble and anyone who listens to correction is to be respected. Don't brag; remember that it isn't the whistle that pulls the train. Respect is also earned through dependability, which is the greatest ability of all. Being dependable means being there because you gave your word. The challenge occurs in the defining moments when it isn't necessarily convenient to spend time doing what you promised to do. In regard to priority living, respect comes from setting and working on goals that are worthy and good. Respect is also earned through generosity. Givers make the difference, and we should do our giving while we are living. Lastly, respect is earned through spirituality. Put God first, and know that good people will be remembered as a blessing. Remember that life is a journey and that earning the respect of others occurs day by day, moment by moment, along this path. Know that the resulting optimism spawned through growing your respect is more than just an attitude. As Andy Greenberg has stated, "It's a self-fulfilling prophecy."



Please join me on **Tuesday, May 17th at the Gulf Coast Section Awards Banquet** where Steve Turk will be our keynote speaker as we honor our volunteers, special award winners, and scholarship winners.



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## 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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*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

## Meeting the Global Resource Challenge – Unlocking the Potential of Heavy Oil and Deepwater in Latin America

Speaker :	<b>Ali Moshiri</b> Chevron Africa and Latin America Exploration and Production Company
Date & Time:	11:30 a.m. luncheon Thursday, May 12
Location:	The Petroleum Club 800 Bell Street Houston, Texas 77002
Cost:	\$35 per member preregistered \$40 per nonmembers and walk-ins
Registration:	<a href="http://www.spegcs.org">www.spegcs.org</a>
Deadline:	5 p.m., Tuesday, May 10

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

This presentation will describe the resource potential of key Latin America producers – Venezuela and Brazil, and the possible role they could play relative to the global energy equation. Venezuela's vast extra heavy oil resources are one of the largest global discovered resources. This talk will touch on the Orinoco Belt's potential as well as some of the key development challenges. Additionally, Deepwater Brazil has recently emerged with the largest remaining offshore resource accumulation in the world. The development of these highly complex deep and ultra deep water resources will also be a key ingredient to help meet long term global demand.

**Ali Moshiri** is president of Chevron Africa and Latin America Exploration and Production Company, based in Houston, Texas.



Ali joined Chevron in 1978 as a reservoir engineer and later became a drilling engineer. In 1983, he became senior production engineer with supervisory responsibilities in the Gulf of Mexico.

From 1983 to 1987, he served as supervisor of reservoir and facilities engineering for Chevron Energy Technology Company in Houston, with responsibilities supporting upstream activities.

In 1987, he joined Chevron Overseas Petroleum in the United Kingdom as manager of technical applications for exploration and production activities in the North Sea.

In 1991, he became supervisor of petroleum engineering for Chevron Overseas Company, with responsibilities for petroleum engineering activities in international operations. Between 1992 and 1997, he held a variety of positions of increasing responsibility as manager of petroleum and facilities engineering operations, including worldwide operational support; new opportunity assessment and operational feasibility; and support for petroleum and capital projects within existing operations.

Ali was named general manager of strategic planning and assets evaluation for Chevron Overseas in 1997, with responsibility for 10 international strategic business units, including mergers and acquisitions and new business development.

In 2000, he assumed the position of general manager and advisor to the vice chairman of the board for Chevron Corporation Exploration and Production.

In October 2001, he was appointed managing director of Chevron Latin America Exploration and Production Company, where he was responsible for upstream operations in Argentina, Brazil, Colombia, Mexico, Trinidad, and Venezuela.

Ali graduated from the University of Tulsa with BS and MS degrees in petroleum engineering in 1978.

## Monthly Membership Report Gulf Coast Section March 2011

	Mar-11		Feb-11	
	Total	YP (subset)	Total	YP (subset)
<b>SPE-GCS Members</b>	<b>12,583</b>	<b>2,295</b>	<b>11,458</b>	<b>2,011</b>
New Members	143	70	181	80
Reinstated Members	18	6	22	10
Transferred to GCS	55	21	103	41
Transferred out of GCS	37	11	102	39
Unpaid	2,302	760	3,215	965
<b>Student Members</b>	<b>Paid</b>	<b>Unpaid</b>	<b>Paid</b>	<b>Unpaid</b>
-Texas A&M	604	175	539	214
-UH/Rice	152	38	111	48
-HCC	24	5	17	7
-Unassigned	9	3	7	4
Total	<b>789</b>	<b>221</b>	<b>674</b>	<b>273</b>
<b>Grand Total Paid/ Unpaid</b>	<b>13,372</b>	<b>2,523</b>	<b>12,132</b>	<b>3,488</b>
<b>% Paid</b>	<b>84.1%</b>		<b>77.7%</b>	

Section Demographics: We have ~10% females in our Section. YP Chair Andrea Hersey recruited 8 new SPE members.

## Monthly Board Meeting

The Gulf Coast Section board of directors meeting will be held from 7:30 to 10:30 a.m., Thursday, May 19 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).

## Two Houstonians Nominated to SPEI Board

Two local Gulf Coast Section members were nominated to serve as Technical Directors on the SPE International Board. [Cindy Reece](#), technical computing manager for ExxonMobil's upstream business, was nominated as Technical Director, Management and Information; and [Roland Moreau](#), VP of ExxonMobil Research, was nominated as Technical Director, Health, Safety, Security, Environment, and Social Responsibility. Both have worked for ExxonMobil for 30+ years and will represent the Gulf Coast Section well. Congratulations, Cindy and Roland!



Cindy Reece



Roland Moreau

## Opportunity NOx.



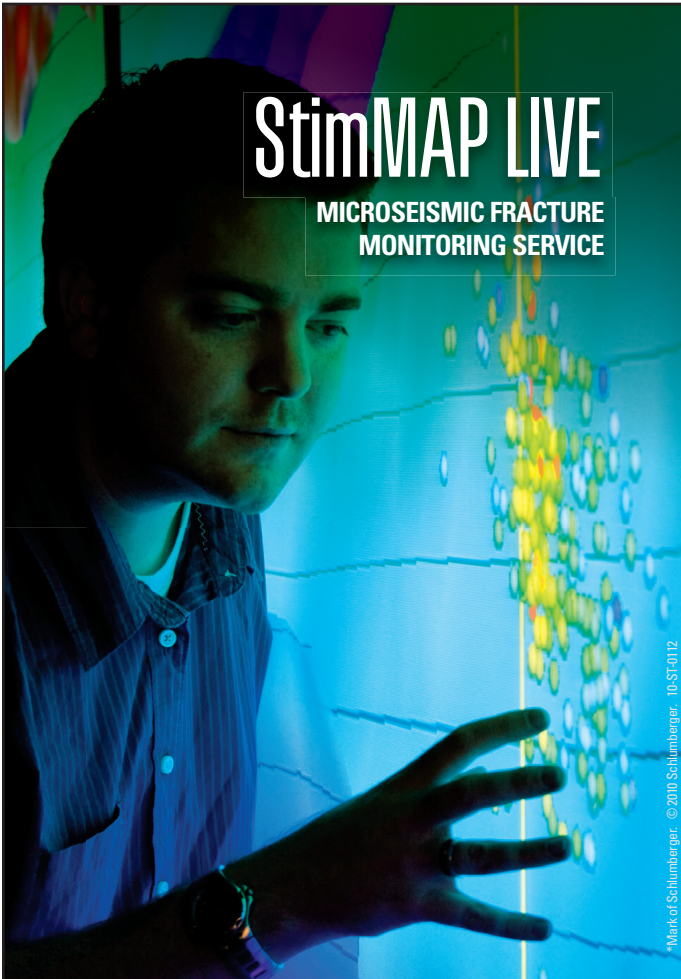
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## Volunteer Spotlight



**Kishor Pitta**

Kishor Pitta is a staff reservoir engineer at Occidental Petroleum, where he works on the South Texas asset development team. He also serves on the steering committee of Oxy's Early Career Engineer Network. Prior to Oxy, he worked at Knowledge Reservoir, where he provided reservoir engineering support for various companies including Repsol YPF, DeepStar, Samson Resources, and Pegasus International. He earned his BS in chemical engineering from Andhra University in India, and his MS from the University of Missouri-Rolla.

Fady Chaban, program chairman of the SPE-GCS Reservoir Study Group, praised Kishor's volunteer leadership. "Kishor is the current Reservoir Study Group Chairman and was the Program Chair for 2009-2010. His contributions to the group and the SPE Gulf Coast Section are outstanding. Dedication, organization and discipline are the basis to get the extraordinary results in all the activities involved. Thanks to Kishor for his distinguished and exceptional work!"

### Engineers - need technical document development help?

- Drilling & completion programs
- Engineering reports & specifications
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### Introductory and Multi-Discipline

- Basic Petroleum Engineering Practices, 6-10 June
- Oil and Gas Teams: How to Make Them Work, 13-17 June
- Overview of the Petroleum Industry, 20-21 June
- Basic Petroleum Technology, 27 June-1 July

### Geology, Geophysics and Petrophysics

- Integration of Rocks, Log and Test Data, 6-10 June
- Geochemical Techniques for Solving Reservoir Mgmt and Field Dev. Problems, 6-10 June
- AVO, Inversion, and Attributes, 13-17 June
- Foundations of Petrophysics, 13-17 June
- Seismic Acquisition Field Techniques, 11-15 July

### Drilling, Completions, and Production

- Production Operations 1, 6-17 June
- Solids Control Systems, 13-17 June
- Production Technology for Other Disciplines, 20-24 June
- Drill String Design and Optimization, 20-24 June
- Gas Well Deliquification, 27 June-1 July
- Basic Drilling Technology, 11-15 July
- Completions and Workovers, 11-15 July
- Artificial Lift Systems, 18-22 July
- Drilling Fluids Technology, 18-22 July
- Stuck Pipe Prevention, 18-20 July
- Advanced Hydraulic Fracturing, 18-22 July

### Reservoir Engineering

- Waterflooding A to Z, 6-10 June
- Reservoir Simulation Strategies, 13-17 June
- Applied Reservoir Engineering, 18-29 July

### Petroleum Business

- Economics of Worldwide Petroleum Production, 6-10 June
- Petroleum Risks and Decision Analysis, 13-17 June
- Advanced Decision Analysis with Portfolio and Project Modeling, 20-24 June
- Petroleum Finance and Accounting Principles, 20-24 June
- Cost Management, 27 June-1 July
- Strategic Thinking: A Tool-Based Approach, 11-13 July
- Basic Petroleum Economics (3 day and Extended 5 day versions), 18-22 July
- Petroleum Project Management: Principles and Practices, 18-22 July

### Petroleum Data Management

- Geomatics: Geodesy and Cartography, 14-15 Apr **NEW**

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# Gulf Coast Section Awards Banquet

<b>Speaker :</b>	<b>Stephen Turk</b> Weatherford
<b>Date &amp; Time:</b>	6:00 p.m. - 10:00 p.m. Tuesday, May 17
<b>Location:</b>	Rice Hotel 909 Texas Avenue
<b>Cost:</b>	\$55 per person preregistered
<b>Registration:</b>	<a href="http://www.spegcs.org">www.spegcs.org</a>
<b>Deadline:</b>	Noon, Friday, May 13

*This event is expected to sell out early. Please register in advance online. Walk-ins accepted on a space-available basis only.*

*Valet parking available at the Rice Hotel for \$8.*

Plan to attend an inspirational evening where we will celebrate the multi-faceted achievements of several generations of superstars in the energy industry.

The annual SPE-GCS Awards Banquet recognizes the high school seniors and college students who have received an SPE-GCS scholarship for the 2011 academic year. This is a great opportunity to welcome outstanding students into the petroleum industry and to make a positive impression on members of the community. In addition, this event also recognizes our Legion of Honor award recipients as well as our SPE Sectional and Regional award winners. Members of the Legion of Honor have served SPE for fifty years and will be honored for their long-standing commitment to our professional society.



## **Keynote Speaker: Stephen Turk, Vice President of US Sales for Weatherford**

Stephen Turk is Vice President of US Sales for Weatherford International, North America Region.

Mr. Turk joined Weatherford in 2003 as general manager of Capillary Technologies. He became the US business development manager for the Completion and Production Systems division in 2004. In 2007, he accepted additional responsibilities as global director of the Completion and Production Systems division, and he served both roles until he was appointed to vice president in 2009.

Prior to Weatherford, he was operations manager for Mission Resources Corporation, formerly Bargo Energy, from 1999 to 2003. He gained extensive experience in reservoir and production engineering working in a variety of engineering and managerial positions at Halliburton from 1997 to 1999, and Mitchell Energy and Development Corporation, where he began his career in 1984.

A native of Pennsylvania, he earned a Bachelor of Science degree in petroleum engineering from Marietta College in Ohio. He is a member of the Society of Petroleum Engineers.

Sponsorships are also available. SPE-GCS is requesting that companies sponsor tables at the banquet. This sponsorship will entitle the sponsor company to two seats at a table and a marquee on that table. The sponsor company will also be recognized in the program for their contribution to the evening. The cost for sponsoring a table will be \$550 donated to the SPE-GCS, a non-profit organization, for the scholarship program.

Please visit the website for more information or contact [Kim Tran at kim.m.tran@gmail.com](mailto:kim.m.tran@gmail.com).

# AUXILIARY

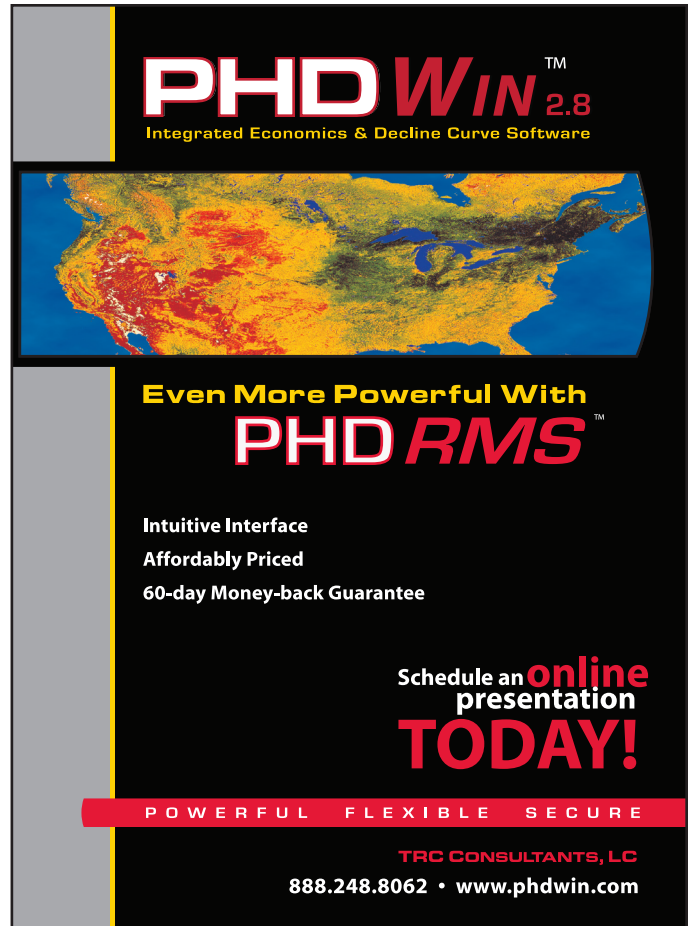
## May 2011 Activities

- DATE:** Friday, May 13, 2011
- TIME:** 11:00 AM
- PLACE:** Champions Golf Club  
13722 Champions Drive, 77069  
281-444-6262  
**Venue is Tentative  
Call to Confirm**
- PROGRAM:** Special Olympics (**Tentative**)  
Call to Confirm  
Installation of Officers
- COST:** To Be Announced
- DEADLINE:** Tuesday, May 10 (Deadlines are Firm)
- BOOK CLUB:**  
**Book:** "Olive Kitteridge"  
**Author:** Elizabeth Strout  
**Discussion Leader:**  
Dot Jenkins  
**Hostess:** Sally Pesce  
**Date:** May 25

**CONTACTS:**

Nancy Hill  
[nancyhill2444@sbcglobal.net](mailto:nancyhill2444@sbcglobal.net)  
281-435-1619

Evelyn Earlougher  
[earlougher@comcast.net](mailto:earlougher@comcast.net)  
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# Business Development Study Group

## 2011 U.S. Oil & Gas Prospectus at mid-Recovery: Where will the “Smart” Money go next?

**Speakers :** **Bruce H. Vincent**  
Swift Energy Company

**TBA**

**Date & Time:** 5:30 p.m. - 6:30 p.m. Social Hour  
6:30 p.m. - 7:30 p.m. Program  
Wednesday, May 18

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

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

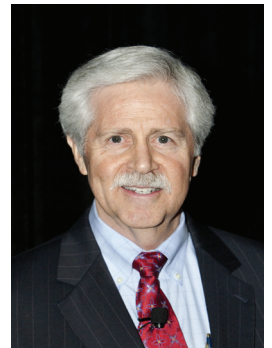
**Registration:** [www.spegcs.org](http://www.spegcs.org)  
**Deadline:** Noon, Monday, May 16

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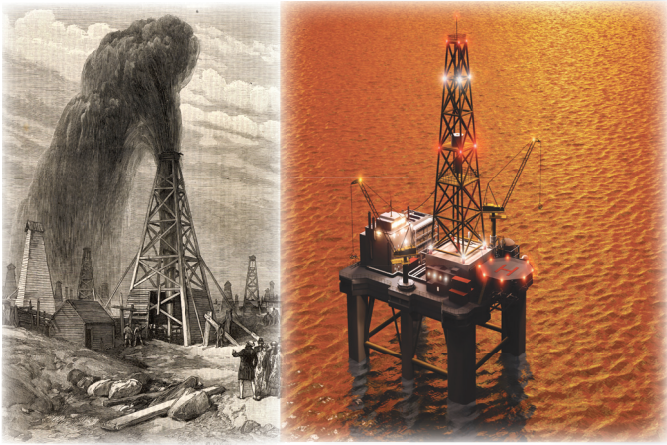
After 2+ years of depressed oil and gas demand, low natural gas prices, and business / regulatory uncertainty, economists and businessmen are acknowledging definite signs of a recovery-in-progress. For our industry, oil prices are strong, and political events overseas may cause additional upward movement in short order. Natural gas demand is actually forecast to grow in 2011, and despite continued robust increases in shale gas production, the decline of offshore production promises to tighten markets this year, exerting upward pressure on \$ / mmbtu.

Financial institutions are ready to invest in good deals with strong fundamentals and proven management teams. Established oil and gas companies of all sizes have been hoarding cash for the time when risk and reward ratios signal a time of high-potential growth, based on lower costs and more stable demand. Are we there yet? If we are, then where should your “Smart” money be invested? We hope these seasoned executives will provide you with some valuable insights whether you’re investing in mega-deals or managing your own savings plan!

**Bruce H. Vincent** is president and director of Swift Energy Company where he has been employed since 1990. Swift Energy Company, founded in 1979 and headquartered in Houston, engages in developing, exploring, acquiring and operating oil and gas properties, with a focus on oil and natural gas reserves in the onshore and inland waters in Texas and Louisiana. Over the company’s 30-year history, Swift Energy has shown long-term growth in its proved oil and gas reserves, production and cash flow through a disciplined program of acquisitions and drilling, while maintaining a strong financial position.



## THEN & NOW



by Buddy Woodroof, ProTechnics  
Features Editor

### May 1961

What would you say would be the toughest thing to steal in the oil patch? How about an oil well? A brazen gang of well-equipped thieves with time and technical know-how pulled it off in eastern Oklahoma. The thieves took 1,400 ft of 4 1/2" casing, 2" tubing, and 5/8" sucker rods, a pumping unit, two 100-bbl tanks, two separators, the engine powering the pump, a gas regulator, all the lines and connections to the tanks, the wellhead, along with some extra pipe and fittings. If you think you know how they managed to get away with this, raise your hand. If you guessed it was a repossession, you get to take the rest of the day off. • This month is the 50th anniversary of the Supreme Court's monumental decision that Standard Oil is an illegal trust, monopoly, or combination, and thereby decreed its dissolution.

East Texas crude oil - \$3.25/bbl  
U.S. active rig count – 1,775

### May 1986

Mobil Corp. comes up with its own version of the "poison pill" by giving holders of each common share preferred share purchase rights. The rights take effect if anyone acquires 20% or more of Mobil's common stock or tenders for 30% or more of the stock. • Elf reports drilling its first horizontal well through unconsolidated sands a few meters thick, a 1,148 ft lateral in the Paris Basin. • President Reagan orders Marathon, Occidental Amerada Hess, Grace Petroleum, and Conoco to end operations and sell their Libyan assets within 60 days. (déjà vous?) • The rotary rig count in North America sets a post-war low with 866 active rigs combined in the U.S. and Canada.

U.S. active rig count – 828

### May 2001

New Mexican President Vicente Fox approves a variety of petroleum industry projects designed to elevate oil and gas production, including the expansion of the Cantarell offshore complex which includes a platform being constructed by a joint venture between a Mexican shipyard and Enron Offshore Services and Technology. (Up they pop again!) • China follows the U.S. model and reports plans to build a strategic oil supply over the next five years. • As expected, the International Maritime Organization approves a global timetable that would phase out single-hull crude tankers by the year 2015. • Brazil's federal environmental agency fines Petrobras 10 million for oil spills from two platforms in the Campos Basin, one being the oft-photographed P-36 semisubmersible production platform that listed and ultimately sank after a series of blasts that killed 10 workers.

Light sweet crude oil - \$28.09/bbl  
Natural gas - \$4.27/MMbtu  
U.S. active rig count – 1,232

### 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 began his oilfield experience in 1911 as a laborer, hauling pipe by day and apprenticing on derrick floors by night, likely in the Elektra field west of Fort Worth. In one of his favorite stories during this period of time, Sid claims to have been working alone one night shoveling coal into a derrick furnace, when he was suddenly surrounded by coyotes. He reportedly spent the hours until dawn atop the red-hot furnace, hopping from one foot to the other, until rescued by the arrival of day-shift workers. Shortly thereafter, his education attracted some notice, and he was hired as an office boy for the Oil Well Supply Company in Wichita Falls. This job came to an abrupt end after engaging in a fistfight with a bookkeeper. The fight somehow impressed one of his boss, however, who decided to send him back out to the field as an oil scout in Louisiana. Since oil scouts spent their days driving from well to well, checking production trends, gauging competitors' strategies, and picking up rumors, it was a job where his adeptness as a natural raconteur came in very handy.

A career in oil was not really Richardson's dream as a young man. What he really wanted to do was to trade cattle. After two years in the oil fields, he

returned to Athens in 1914, borrowing money from Clint Murchison's father to purchase a herd. This venture did not last long. As Sid told a Fort Worth newspaper reporter, his herd died of tick fever and he lost a toe as a result of his cattle ranching experience. What's more, he now owed Clint Murchison's father six thousand dollars. He decided to go back to Wichita Falls and make another try at the oil business.

In his return to the oil business, he decided to try his hand at oil trading. He tells the story of returning to Athens shortly after experiencing some success as an oil trader. He claims to have entered the town square behind the wheel of a new Cadillac and circled the square twice so everyone would see him. He then marched into the bank, where he repaid Mr. Murchison his money in cash, to the amazement of all the townspeople. Many of the men that observed his flamboyance decided then and there that if this ne'r-do-well could make so much money in the oil business, by golly they were going to give it a go themselves. One of those who was suitably impressed was the young Clint Murchison.

Next issue, Richardson and Murchison join forces. (Article excerpted from "The Big Rich.")

### **History Quiz**

Prior to the mid-70's when the Bureau of Mines demonstrated that coal beds can yield substantial quantities of pipeline-quality natural gas, U.S. coal mines were venting approximately what volume of natural gas to the atmosphere: a) 50 MMcfd, b) 100 MMcfd, c) 200 MMcfd, or 500 MMcfd?

*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 May 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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### **Answer to April's Quiz**

The two critical wartime commodities that were targeted for expanded production thanks to Standard Oil's development of the first fluid catalyst refining unit in 1942 were 100-octane aviation gasoline and the raw materials required for the manufacture of synthetic rubber.

### **Answer to March's Quiz**

The German immigrant who funded the building of the first commercial American-built diesel engine was Adolphus Busch.

### **Congratulations to March's winner – Lalit Karlapalem with National Oilwell Varco**

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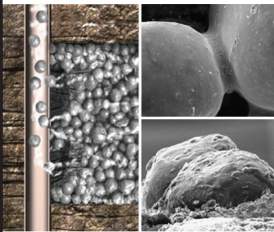


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The objective of the course is to provide a fundamental review of the practice and theory in natural gas hydrates, with applications primarily in flow assurance. **For information regarding attendance and fees contact: 303-279-5563, email [space@mines.edu](mailto:space@mines.edu), [http://www.mines.edu/Educational\\_Outreach](http://www.mines.edu/Educational_Outreach)**

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# Completions & Production Study Group

## Optimizing Refracture Treatments in Horizontal Shale Oil and Gas Reservoirs

<b>Speaker :</b>	<b>Robert Barba</b> Integrated Energy Services, Inc.
<b>Date &amp; Time:</b>	11:30 a.m. luncheon Wednesday, May 25
<b>Location:</b>	Greenspoint Club 16925 Northchase (77060)
<b>Cost:</b>	\$35 per member preregistered \$40 for nonmembers and walk-ins
<b>Registration:</b>	<a href="http://www.spegcs.org">www.spegcs.org</a>
<b>Deadline:</b>	Noon, Monday, May 23

In the shale resource plays most of the activity to date has been in drilling and completing new wellbores and holding acreage by production. In virtually all shale plays operators have increased the number of frac stages and generally obtained better production results. This suggests that the original completions may not have adequately stimulated the length of the original wellbore and that refracture treatments in the unstimulated rock may be beneficial. Refracs in long perforated horizontal wellbores pose several challenges in their design and execution. Production logs typically show 80% of the production from 20% of the perforation clusters. If the producing clusters have been drawn down below the reservoir pressure of the unstimulated rock the frac may not initiate in the virgin rock where the majority of the reserves remain. Mechanical isolation of existing perforation clusters becomes critical, and working inside existing tubulars provides some challenges. Determining the optimum cluster and stage spacing requires an estimation of effective permeability and in-situ stress from DFIT testing which may not have been available prior to the initial completion. A methodology is proposed to identify refracture candidates, mechanically isolate existing perforations, determine the optimum cluster and stage spacing, and successfully execute frac treatments in a horizontal shale reservoir.

**Robert Barba** spent 10 years with Schlumberger as an open hole field engineer, sales engineer, and product development manager.

While at Schlumberger he was the North American product champion for the FracHite and Quantifrac products that integrated wireline, testing, and pumping inputs to optimize hydraulic fracture treatments. He was also the product development manager for the QLA program that made the field log analysis "Cyberlook" program available to customers on personal computers. Since then he has spent 19 years consulting to over 175 companies on petrophysics and completion optimization. He served as a SPE Distinguished Lecturer on integrating petrophysics with the hydraulic fracture treatment optimization process. He has focused on the integration of petrophysics with completion designs in a variety of reservoirs in North America, conducting numerous field studies for operators evaluating the "completion efficiency" of over 1200 wells and providing "best practices" recommendations based on the study results (SPE 90483). His latest SPE paper (125008) focuses on the refracturing optimization process. He has been responsible for the petrophysical analysis of 35 major fields worldwide as part of integrated reservoir characterization studies identifying remaining mobile hydrocarbons. He has authored 33 technical papers on the integration of petrophysics with completion designs, horizontal wells, and reservoir characterization projects. His most recent project has been working with two major operators optimizing their completion practices in the Marcellus shale. Bob has a BS from the US Naval Academy and MBA from the University of Florida. He is also a member of the SPE, SPWLA, AAPG, and Petroleum Society of the Canadian CIM.



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# Digital Energy Study Group

## Virtual World Technologies - Applications to the Digital Oilfield

<b>Speaker:</b>	<b>Rick Morneau</b> Consultant
<b>Date &amp; Time:</b>	11:30 a.m. luncheon Wednesday, May 18
<b>Location:</b>	Courtyard on St. James 1885 St. James Place (77056)
<b>Cost:</b>	\$35 per member preregistered \$40 for nonmembers and walk-ins
<b>Registration:</b>	<a href="http://www.spegcs.org">www.spegcs.org</a>
<b>Deadline:</b>	Noon, Monday, May 16

Virtual worlds are 3D immersive environments that allow multiple users to inhabit the same virtual environment and interact with each other, as well as objects, within the environment. Each user within the environment is represented by their virtual self which is referred to as an avatar. The virtual environment can be a processing plant, an offshore platform, an oilfield or any environment that one wishes to create.

This presentation will discuss applications of virtual world technologies in three topical themes:

1. No other way to do it –for example, it is not possible to have realistic enactment of an explosion and fire on an offshore platform with the ensuing chaos. However, this technology can provide realistic simulation taking into account human behavior which cannot be accomplished any other way.
2. Application to operations an maintenance.
3. Does this make sense? There are places where one could apply virtual world technology but does it make sense?

It is the author's intent to use the presentation material as a means of having a discussion around this topic. This presentation will not discuss the intersection between virtual world technology, complex simulation and augmented reality.

**Rick Morneau** recently retired from Chevron after 27 years. Prior to retirement, Rick held the position of manager strategic research and technology development for transformational information technology for the previous seven years. He has a BS from University of Arizona and MS from Purdue University both in Geophysics.

He started in the energy business at Schlumberger - Doll Research Center in Ridgefield, Connecticut, and joined Chevron in 1983. He has managed internal software development and started Chevron's Information Management for major capital projects group.

Rick's passion is applying virtual worlds technology through business strategy development and work process focused implementation practices and, work process focused information management.



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Shale Oil & Gas  
Better Reservoir-Data Management  
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Time	Title	Speaker
8:00	Continental breakfast	
8:15	Introductions / safety briefing	
<b>Session 1 – Shale gas, hydraulic fracturing and microseismic</b>		
8:30 – 9:00	Thirty Years of Gas Shale Fracturing: What Have We Learned? (SPE 133456)	George King, Apache
9:00 – 9:30	Hydraulic Fracture Monitoring to Reservoir Simulation: Maximizing Value (SPE 133877)	Craig Cipolla, Schlumberger
9:30 – 10:00	Shale Engineering: Building A Shale Well Model. The Way It Is Constructed, One Piece At A Time, Suits Better for Forecasting What Will Happen After A Long Time	George Vassilellis, Gaffney Cline
10:00 – 10:30	Break	
<b>Session 2 - Digital Energy and Workflow Integration</b>		
10:30 – 11:00	Accelerating Progress Towards Achieving Digital-Oilfield Workflow Efficiencies (SPE 134107)	Rick Morneau, Chevron
11:00 – 11:30	Reservoir Modeling: From RESCUE To RESQML (SPE 135280)	Mike King, Texas A&M
11:30 – 12:00	Reservoir Management With Real-Time and Periodic Surveillance Data (SPE 132967)	Shah Kabir, Hess
12:00 – 1:00	Lunch	
<b>Session 3 – Deepwater GOM</b>		
1:00 – 1:30	K2 Field Reservoir Characterization-Coupled Surface/Subsurface Simulation and Evaluation of Recovery Options.	Walt Dobbs and Rich Drumheller, Anadarko
1:30 – 2:00	10 Rules for Turbidites to Live by... and The Significance of Those Rules	Henry Posamentier, Chevron
2:00 – 2:15	Break	
<b>Session 4 – Deepwater GOM / Chemical EOR</b>		
2:15 – 2:45	The Effects of Live Crude on ASP Formulations: Implications of Final Formulation Design (SPE 135357)	Jeff Southwick, Shell
2:45 – 3:15	Investigation of Oil-Trapping Mechanisms in Deepwater Gulf of Mexico (SPE 130927)	Joe Lach, Knowledge Reservoir
3:15 – 3:30	Wrap-up	
3:30	Adjourn	

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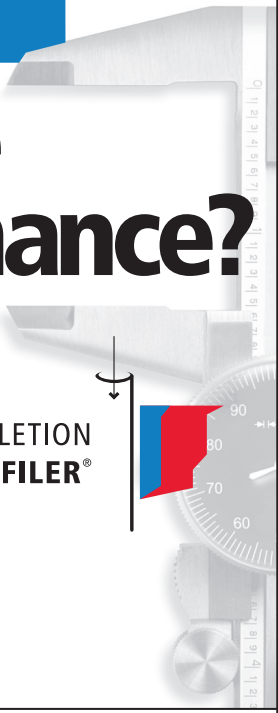
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# Northside Study Group

## Channel Fracturing: Changing the Game in the Stimulation of Unconventional and Conventional Reservoirs

<b>Speaker:</b>	<b>Alejandro Pena</b> Schlumberger Well Services
<b>Date &amp; Time:</b>	11:30 a.m. luncheon Tuesday, May 10
<b>Location:</b>	Greenspoint Club 16925 Northchase (77060)
<b>Cost:</b>	\$30 per member preregistered \$35 for nonmembers and walk-ins registered \$40 per members/nonmembers post registration
<b>Registration:</b>	<a href="http://www.spegcs.org">www.spegcs.org</a>
<b>Deadline:</b>	Noon, Friday, May 6

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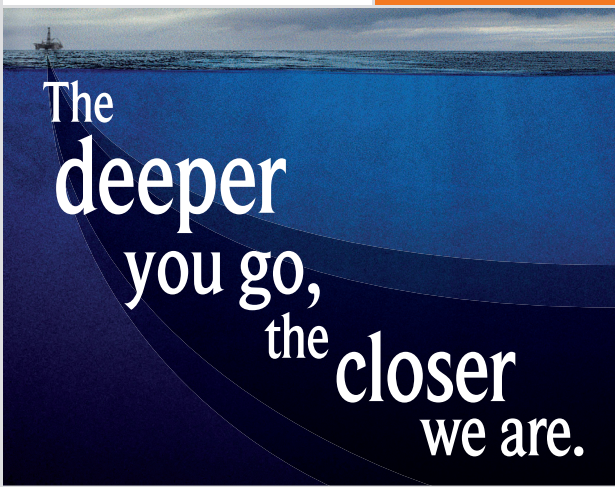
The channel fracturing technique combines fit-for-purpose fracture modeling, materials and pumping methods to generate a network of highly conductive channels within the proppant pack. These channels expedite the delivery of hydrocarbons from the reservoir to the wellbore and allow for improved effective stimulated reservoir volumes. Observed benefits from more than 800 treatments performed to date in four different countries (USA - Eagle Ford, Lance and Clear Fork formations, Argentina - Sierras Blancas formation, Mexico - Burgos Basin, and Russia - Western Siberia) include sustained increases in production (typically 10-50%) and estimated recovery (typically in excess of 13%) relative to wells fractured with conventional methods. It has also been observed that the technique allows for more reliable job execution: Incidence of near-wellbore screen-outs with the channel fracturing technique is below 0.3%, in contrast with the average rate for conventional methods in the areas in which it has been implemented (5%).

This presentation will review basic aspects of this breakthrough technology and summarize relevant case histories in unconventional (tight and shale plays) and conventional reservoirs, both in vertical and horizontal completions.

**Alejandro Pena** works as the worldwide product champion for Schlumberger's well stimulation technologies. He has gathered 10 years of experience in academia and industry as assistant professor in chemical engineering, followed by several technical and operational positions within Schlumberger since 2003 (senior development engineer, field engineer, fracturing manager, well services operations manager).



Alejandro is an inventor with six granted patents and author of two book chapters and over twenty articles in peer-reviewed journals and SPE-sponsored technical meetings. He earned a B.Sc. degree in chemical engineering from Universidad de Los Andes, Venezuela, and a Ph.D. degree in chemical engineering from Rice University, USA.



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# Permian Basin Study Group

## TAKING THE RIGHT NEXT STEP: BUILDING AN UPSTREAM OIL AND GAS M.L.P

<b>Speaker:</b>	<b>Steve H. Pruett</b> Legacy Reserves, LP
<b>Date &amp; Time:</b>	11:30 a.m. luncheon Tuesday, May 17
<b>Location:</b>	Westlake Club 570 Westlake Park Blvd (77079)
<b>Cost:</b>	\$35 per member preregistered \$40 for nonmembers preregistered Add'l \$5 for walk-ins (\$40 members/\$45 nonmembers)
<b>Registration:</b>	<a href="http://www.spegcs.org">www.spegcs.org</a>
<b>Deadline:</b>	Noon, Friday, May 13

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**Steven H. Pruett** has served as president & CFO of Legacy Reserves LP since its founding in 2005. Prior to co-founding Legacy, Steve was briefly a managing director and venture partner focused on forming upstream MLPs at Quantum Energy Partners, an E&P private equity firm. For two


years prior to joining Quantum, he was the president of Petroleum Place, an acquisition and divestment advisor and broker, and was president of its subsidiary, P2 Energy Solutions, an oil & gas accounting and land software systems and outsourcing provider. Prior to P2, Mr. Pruett was President & CEO of First Permian LLC until he helped sell it in 2002.

From 2000 to 2001, Steve worked at Enron, where he managed 12 active oil and gas partnerships and served as chairman of CGAS, an Appalachian gas company.

In 1995, he joined First Reserve Corporation, an energy private equity investment firm, opening their Texas office as Vice President focused on E&P investments. While at First Reserve, he co-founded and became president & CEO of First Reserve Oil & Gas, a Permian Basin and Mid-Continent secondary recovery-focused oil company which he helped sell in early 2000. Prior to First Reserve, Steve worked for a year in New York and Houston as an oil & gas investment banking associate with CS First Boston.

Steve has a BS in petroleum engineering, with high honors, from the University of Texas at Austin in 1984. Following graduation, he worked for ARCO for five years as an operations/analytical engineer in Tulsa, Denver and Midland, focused on EOR while earning a professional engineer registration in Texas. He left ARCO to pursue an MBA at The Harvard Business School where he graduated as a Baker Scholar in 1991. Following business school, he worked for Amoco in planning and economics in Denver and business development in Houston and Mexico.

Steve serves on the Board of Trustees of Midland Memorial Hospital, Trinity School of Midland, the Executive Advisory Committee of the University of Texas at Austin Department of Petroleum and Geosystems Engineering. He is a vice president and director of the Permian Basin Petroleum Association, is active as a deacon in the First Presbyterian Church of Midland, and enjoys being an instrument-rated private pilot.




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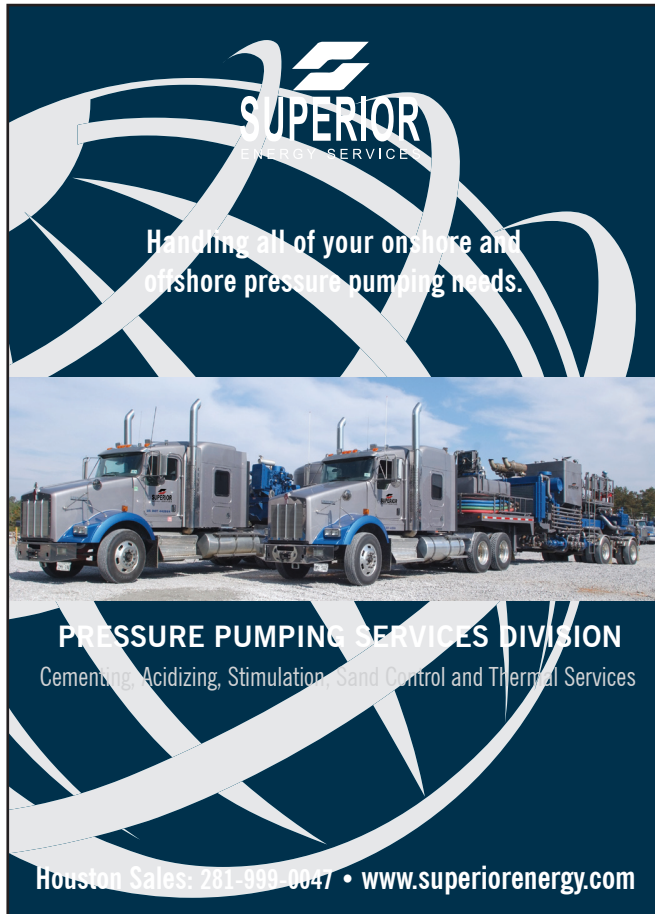
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# Projects, Facilities, & Construction Study Group

## An Operator's Perspective on Floating LNG

**Speaker :** **Dave Hartell**  
Hess

**Date & Time:** 11:30 a.m. luncheon  
Tuesday, May 17

**Location:** Norris Conference Center - City Centre  
803 Town and Country Lane #210 (77024)

**Cost:** \$35 per member preregistered and prepaid  
\$40 for nonmembers preregistered and prepaid  
\$45 for walk-ins

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

**Deadline:** Noon, Friday, May 13

Large remote deepwater gas discoveries are attractive candidates for Floating Liquefied Natural Gas (FLNG) developments. However, balancing technical, commercial, and contractual issues with the Production Sharing Contracts (PSCs) requirements of various countries is an essential consideration for the selection and successful actualization of FLNG developments.

This presentation will discuss PSC requirements involving government or regulatory rules on taxation; cost, commercial, and contractual issues; marketing issues; and technical requirements. These requirements affect decisions for whether a FLNG development is the best decision for a gas discovery. For many large remote deepwater gas discovery scenarios, FLNG will be the recommended option and proper presentation of the decision inputs and outputs will help an operator obtain the necessary governmental approvals in a timely manner.

**Dave Hartell** has more than thirty-four (34) years of onshore and offshore oil and gas developments experience including facilities engineering, construction, installation, project management, and production operations. His developments experience has ranged from onshore remote locations to offshore deepwater locations. He has more than twenty-five (25) years of international experience working with national energy companies, energy ministries, and governmental regulators. He has extensive work with subsurface asset, drilling and completion, and production operations teams. He has been working for over five years on development options for remote deepwater gas discoveries.

Dave has presented papers at international conferences in Brazil, U.K., United States, Malaysia, and Indonesia. He received his BS and MS in civil engineering from Rice University in Houston, Texas. He is a Registered Professional Engineer in Texas and a member of the Society of Petroleum Engineers.



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# Reservoir Study Group

## Distinguished Lecturer 2010-11 Lecture Season

### Reservoir Fluid Properties (PVT): Issues, Pitfalls and Modeling

<b>Speaker :</b>	<b>Birol Dindoruk</b> Shell International Exploration and Production Company
<b>Date &amp; Time:</b>	11:30 a.m. luncheon Thursday, May 26
<b>Location:</b>	Courtyard on St. James 1885 St. James Place (77056)
<b>Cost:</b>	\$35 per member preregistered and prepaid \$40 for nonmembers registered and prepaid \$45 for walk-ins
<b>Registration:</b>	<a href="http://www.spegcs.org">www.spegcs.org</a>
<b>Deadline:</b>	11:30 a.m., Tuesday, May 24

In reservoir studies, from material balance calculations to simulation, fluid properties are always required to estimate in place volumes, EOR (Enhanced Oil Recovery) potential, and the transport parameters that interact with the flow. The variations of PVT (Pressure-Volume-Temperature) properties during depletion phase are also needed to evaluate the reservoir performance and to design surface and subsurface facilities. In general fluid properties are central to almost all the applications in the form of input.

In recent years, rising number of offshore projects has made the modeling of reservoir fluid properties even more important. In addition to behavior of the fluids at reservoir/wellbore conditions, behavior of the fluids at sub-sea conditions is also needed for modeling/flow assurance. Some of the frequently encountered key issues are:

1. Sampling issues (near-saturated fluids, contamination and quality)
2. Laboratory and measurement related issues
3. Modeling issues (Equation of State, lean condensates, near critical fluids and integrated fluid characterization)

Fluid properties (or PVT properties) play important role in petroleum engineering applications. In field-wide modeling, near-critical fluids, compositional variations from well to well/cluster to cluster, and EOR applications pose challenging problems for fluid property modeling.

The final goal of a successful "PVT program" is to represent/model the reservoir fluid from reservoir to refinery with a single set of adjustable parameters (modeling consistency).

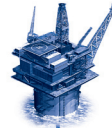
**Birol Dindoruk** is a principal technical expert in reservoir engineering working for Shell International E&P since 1997, and an adjunct faculty at the University of Houston, Department of Chemical Engineering. He is a global consultant for Fluid Properties (PVT) & Miscible/Immiscible Gas Injection EOR & Simulation. Before joining Shell, he has worked at Amoco Tulsa Research Center on compositional simulator development projects. He holds a PhD degree in petroleum engineering from Stanford University and an MBA degree from University of Houston. He is a recipient of Society of Petroleum Engineers' (SPE) Cedric K. Ferguson Medal in 1994. He was one of the Co-executive Editors of SPE Formation Evaluation/Reservoir Engineering Journal (2004-2006) and currently the Editor-in-Chief for Journal of Petroleum Engineering Science and Engineering (JPSE).



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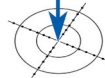
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# Westside Study Group

## Horizontal Completion Experience in Low-Pressure Shales of the Southern Appalachian Basin

<b>Speaker :</b>	<b>Mark Mulkern</b> EQT Production
<b>Date &amp; Time:</b>	11:30 a.m. luncheon Wednesday, May 18
<b>Location:</b>	Westlake Club 570 Westlake Park Blvd (77079)
<b>Cost:</b>	\$35 per member preregistered \$40 for nonmembers and walk-ins
<b>Registration:</b>	<a href="http://www.spegcs.org">www.spegcs.org</a>
<b>Deadline:</b>	Noon, Monday, May 16

*Please print and bring your receipt if you paid by credit card online*

EQT Production (formerly Equitable Resources) has been drilling horizontal wells in the southern Appalachian Basin since 2006. The main formation targets are the low-pressure shales in the Upper Devonian section of the stratigraphic column. This presentation will include an examination of cased hole log data, an overview of fracturing operations, lessons learned, and a review of current completion optimization activities.

**Mark Mulkern** is the manager of completion and production engineering for EQT's Lower Huron Shale properties in Kentucky, West Virginia, and Virginia, based in Pittsburgh, Pennsylvania. He has over twenty-five years experience in various facets of oilfield operations. Prior to joining EQT, he worked in the wireline and completion products business areas.

Mark has extensive experience in wellsite operations (both onshore and offshore) and has worked in Canada, Australia, Southeast Asia, and Central and South America, prior to his current work in the Appalachian Basin. His current responsibilities involve investigating all potential opportunities for optimizing hydraulic fracturing operations in EQT's Southern Appalachian Basin properties.

Mark has a mechanical engineering degree from Marquette University and an MBA in global business from the University of Phoenix.

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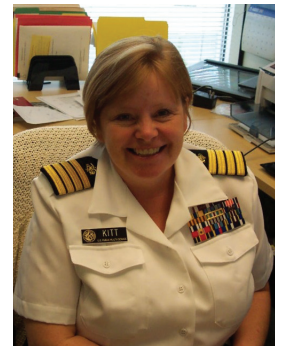
The advertisement features a background image of a drilling rig at night. In the center, there is a circular inset showing a computer monitor displaying various data graphs and charts. The text is overlaid on this background.

# Safety & Environment Study Group

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

- Speaker :** **Dr. Margaret M. Kitt, MD, MPH**  
NIOSH - National Institute of Occupational Safety & Health
- Date & Time:** 11:30 a.m. luncheon  
Tuesday, May 17
- Location:** Petroleum Club  
800 Bell Street (43<sup>rd</sup> Floor)  
Houston, TX 77002
- Cost:** \$40 per member preregistered  
\$50 for nonmembers and walk-ins
- Registration:** [www.spegcs.org](http://www.spegcs.org)  
**Deadline:** Noon, Friday, May 13

**Dr. Margaret M. Kitt** received a Bachelor of Science from the State University of New York at Albany, a Doctor of Medicine from the University of Rochester School of Medicine and Dentistry, and a Master of Public Health from the University of Washington. She is certified by the American College of Preventive Medicine in both Aerospace Medicine and Occupational Medicine. Margaret 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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# Young Professionals

## **BOEMRE Reforms, Regulations, and the Ongoing Reorganization**

**Michael R. Bromwich, Director, Bureau of Ocean Energy Management, Regulation and Enforcement**

*Date, Time & Location: 2 May 2011, 7.30AM-10AM, Houston Hyatt- Downtown, Registration: <http://www.spegcs.org/en/cev/1983>*

Bureau of Ocean Energy Management, Regulation and Enforcement (BOEMRE) reforms, regulations, and the ongoing reorganization as well as how things have changed since April 20th 2010.

BOEMRE has undertaken an aggressive overhaul of the offshore oil and natural gas regulatory process, increasing safety and ensuring oil and gas development is conducted responsibly. They have implemented enhanced safety standards through new regulations and guidance, and they are working with companies to ensure compliance.

Michael R. Bromwich (Director-BOEMRE) has served in that position since June 21, 2010. He was asked by President Obama and Interior Secretary Ken Salazar to lead reforms that will strengthen oversight and regulation of offshore oil and gas development and oversee the fundamental restructuring of the former Minerals Management Service, which was responsible for overseeing oil and gas development on the Outer Continental Shelf. For questions or inquiries, please contact Stephen Ingram at [stephen.ingram2@halliburton.com](mailto:stephen.ingram2@halliburton.com)

## **Volunteer to make an impact at OTC 2011 !**

*Date, Time & Location: 4 May 2011, 9AM-12PM, Reliant Park, Houston Registration: <http://www.spegcs.org/en/cev/1967>*

The SPE Gulf Coast Section Young Professionals invites you to join us as we guide high school students through the 2011 OTC exhibits. We will pair you with 10-15 students and 1 chaperone. This is an opportunity to share your experience in the oil and gas industry while making an impact in the lives of high school students. Complimentary conference badge and parking pass will be provided by OTC for your participation. Free admission to the conference! For questions or inquiries, please contact Ghislain Fai-Yengo at [GFai-yengo@slb.com](mailto:GFai-yengo@slb.com).

## **Young Innovator Showcase- Children's Museum of Houston**

*Date, Time & Location: 14 May 2011, 8AM-4PM, Children's Museum of Houston, 1500 Binz, Houston, TX 77004*

The Children's Museum of Houston is looking for volunteers for the 2011 Young Inventors' Showcase. The Young Inventors' Showcase is an opportunity for students in kindergarten to eighth grade to participate in a campus-wide invention exhibit at their school or a city-wide invention showcase at the Children's Museum.

Volunteers are needed to help provide a successful event at the city-wide showcase, which will take place on Saturday May 14<sup>th</sup>, at the Children's Museum of Houston. Volunteers are requested for any of the following 2 hour timeslots: 8am - 10am, 10am - 12pm, 12pm - 2pm, and 2pm - 4pm. Volunteers will help with registration, guide participants to their designated display location, assist participants with setting up their display, and assist with tallying up participant evaluation points for judging. Volunteer commitments are requested at least 2 week in advance of the event so that the event coordinators can plan appropriately. For questions or inquiries, please contact Reilly Bliton at [reilly.j.bliton@exxonmobil.com](mailto:reilly.j.bliton@exxonmobil.com)

## **Emerging Engineers Conference (EEC)-2011**

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

Do have a new energy related project you've been helping to develop? The young professionals in SPE-GCS encourages you to share your knowledge, ideas, expertise, innovations, best practices and case studies by submitting an abstract to the 2011 Emerging Engineers Conference (EEC) Poster Session held at the WesternGeco facility in Houston on Thursday, June 2nd. The EEC is the most highly attended conference among young professional in SPE-GCS, and this is an excellent opportunity to showcase your success in a poster session. Please submit an abstract (500 words max) of a project you have made a significant contribution to Jonathan Wood ([jwpp@chevron.com](mailto:jwpp@chevron.com)). Please include your company, years in the oilfield, and contact information with your abstract. This poster session will provide project exposure among your peers as well as prominent industry speakers that will be attending the event. The deadline to submit an abstract is extended to Friday May 13, 2011. Cash prizes for 1st, 2nd and 3rd place!! Door prizes will include an iPad! Sign up at <http://www.spegcs.org/en/cev/1970>

## **Roughneck Camp-2011**

*Date, Time & Location: 14 July 2011, 8AM-6.30PM, El Paso Exploration, 10001 Louisiana St, Houston TX 77002 USA*

The 2011 SPE-GCS Young Professionals Roughneck Camp (RNC) is working toward "Bridging the Gap". Our speakers include several Executive level officers from around the industry that will give presentations on developing your career and what it means to be a young professional able to bridge the generation gap. Other topics will cover shale gas/oil and what that means to your careers and how it is changing the landscape of our industry as well as latest technologies and services that will put you on the fast track in your company.

RNC is an excellent opportunity for professionals with less than 5 years experience as well as your summer interns looking to network, learn and become more involved in order to be the next leaders of our industry. The conference will have a networking social immediately following the final presentation. Sign up at <http://www.spegcs.org/en/cev/1988>. For questions or inquiries, please contact Daniel Rohling at [Daniel.Rohling@elpaso.com](mailto:Daniel.Rohling@elpaso.com)

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

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11 – 12 May, Houston Training Center, Houston, Texas

Instructed by: **Dean Rietz and Miles Palke**

The instructors will discuss all of the important facets of the reservoir modeling process. Previous models conducted by the instructors will be presented for discussion and attendees are encouraged to bring materials and data (non-confidential) relating to a potential project that they may be involved with in the future.

**Managing Your Business Using PRMS and SEC Standards** *This class is being offered in conjunction with the 2011 Reserves and Resources Symposium co-sponsored by SPE/AAPG/SPEE. Check our website for special package pricing.*

18 July, Houstonian Hotel, Houston, Texas

Instructed by: **John Etherington and Rawdon Seager**

The PRMS provides an industry standard approach to classifying petroleum resources based on the status of the applied development projects and categorizing the project sales volumes according to the range of associated technical and commercial uncertainties. This course reviews and compares the key features of PRMS and SEC-2009 and provides insight into how companies may combine the two standards to better manage their business.

**Forecasting Production and Estimating Reserves in Unconventional Gas Reservoirs** *This class is being offered in conjunction with the 2011 Reserves and Resources Symposium co-sponsored by SPE/AAPG/SPEE. Check our website for special package pricing.*

21 July, Houstonian Hotel, Houston, Texas

Instructed by: **John Lee**

On completion of this course, participants will have developed competence in their ability to forecast production and estimate reserves for individual gas and oil wells and reservoirs using state-of-the art methodology.

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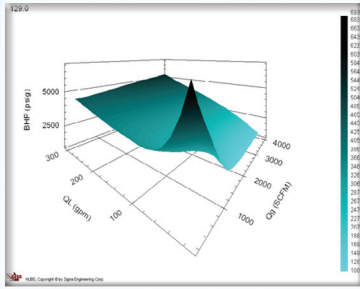
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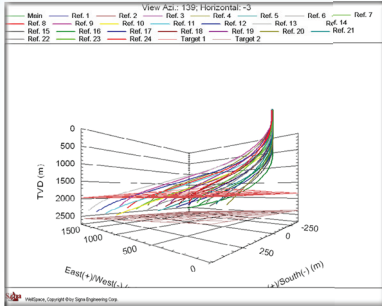
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## May Events

Sunday      Monday      Tuesday      Wednesday      Thursday      Friday      Saturday

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