

JANUARY 2012



Gulf Coast Section

# GULF COAST SECTION

## NEWSLETTER

**General Meeting:  
New Technology for  
Enhanced Oil Recovery**

**Reservoir:  
SPE Distinguished Lecturer  
E&P Applications of  
Fiber-Optic Technology**



# CHAIRMAN'S CORNER

by Hiep Vu, Shell  
2011-12 SPE GCS Chair

## Happy New Year!

Before I begin this month's column, I want to wish all of our members in the Gulf Coast Section a Happy New Year! Every new year brings us the opportunity to start anew with business, safety, and personal goals that we set forth to benchmark the next 12 months.

**Business goals** normally boil down to making your company more profitable and improving the return on your shareholders' investments. Depending on your side of the business, profitability comes in a multitude of flavors: selling more of your products, optimizing more of your capital spending, reducing more of your operating expenditures, etc. The success (or failure) of business goals, along with your investors' expectations, can drive your company's ability to grow.

**Safety goals** normally address our behaviors and our capabilities to do the job in a safe manner so that we can all go home to our loved ones at the end of the day. In more recent years, the focus on safety has started to branch out from just personal safety to include a broader scope of process safety, or the prevention of unintentional release of chemicals, energy, and other dangerous materials. Although our industry has always had some form of process safety integrated into our business, given the heightened scrutiny from regulators, the media, and the general public, we as an industry should be making our process safety practices more transparent.

**Personal goals** are unique to each individual. While always trying to improve our overall personal value to those who rely and depend on us, we all have a wide variety of drivers, aspirations, strengths, and of course, development opportunities. We'd like to think that our personal perspectives are always crystal clear, but like the old saying goes, on occasion, a few of us may need a little assistance to distinguish the forest from all of those trees.

## Utopia, Texas – Population 373

This saying reminds me of a book a good friend of mine recently gave me to read. He and I are both golf fanatics, and since this is a story about a fictional professional golfer, I immediately dove into it to see if I could discover any helpful tips to improve my lackluster golf game. *Seven Days at the Links of Utopia*, written by Dr. David L. Cook, talks about a young golf pro who finds himself at a fork in the road, figuratively and literally. In the middle of nowhere, he is fortunate to stumble across an old, wise rancher, who turns out to be a "Yoda" of sorts. Seeing that the young man is distraught and a bit lost, the rancher offers him guidance and mentorship. During the time spent with this rancher in Utopia, the young man gains a new perspective on the game of golf, and more importantly, the game of life. I found the



## 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.*

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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 15,000 SPE members in Houston.

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*continued on page 4*

# GENERAL MEETING

## New Technology for Enhanced Oil Recovery

<b>Speaker:</b>	James M. Tour, PhD Rice University
<b>Date &amp; Time:</b>	11:30 a.m. - luncheon Thursday, January 12
<b>Location:</b>	Petroleum Club 800 Bell Street, 43 <sup>rd</sup> Floor Houston, TX 77002
<b>Cost:</b>	\$35 per member preregistered \$40 for nonmembers preregistered Additional \$5 for walk-ins
<b>Registration:</b>	<a href="http://www.spegcs.org">www.spegcs.org</a>
<b>Deadline:</b>	Noon, Tuesday, January 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."*

Dr. Tour will present work performed at Rice University toward developing new technologies that will enhance oil and gas recovery. His presentation will include several nanoscale technologies that can be used in drilling and production operations.

The use of graphene filtration agents in drilling fluids will be discussed. This involves the addition of modified graphene oxides, which are robust 1-nanometer-thick sheets of carbon and oxygen that are 50–100 microns in diameter.

Also, the use of sub-100-nanometer-sized carbon-based nanoreporter sensors will be presented. These sensors can delineate the constitution of the downhole environment, thus indicating the percent oil versus water in the porous rock.

Finally, a mesoporous CO<sub>2</sub> capture media will be presented that can efficiently remove CO<sub>2</sub> from natural-gas streams at room temperature. The captured CO<sub>2</sub> can be effectively removed through a 75°C thermal cycling process.

**James M. Tour** is the T. T. and W. F. Chao Professor of Chemistry, Professor of Computer Science, and Professor of Mechanical Engineering and Materials Science at the Center for Nanoscale Science and Technology at Rice University. Prior to joining Rice, he was on the faculty of the Department of Chemistry and Biochemistry at the University of South Carolina.



In oil and gas research, Tour focuses on “green carbon research” for enhanced oil recovery and environmentally friendly oil and gas extraction. His other research areas include nanoelectronics, graphene electronics, carbon nanovectors for medical applications, graphene photovoltaics, chemical self-assembly, flame-retarding polymer additives, carbon nanotube and graphene synthetic modifications, carbon composites, hydrogen storage on nanoengineered carbon scaffolds, and synthesis of single-molecule nanomachines (which include molecular motors and nanocars). He has also worked on the use of the NanoKids concept for K–12 education in nanoscale science, Dance Revolution and Guitar Hero science educational package development for middle school education, and methods for retarding chemical terrorist attacks. Tour has about 400 research publications and over 40 patents and patent applications.

Tour has won numerous awards, honors, and prizes. In 2009, he was elected Fellow of the American Association for the Advancement of Science. He won the Distinguished Alumni Award from Purdue University, the Houston Technology Center’s Nanotechnology Award, and was ranked one of the top 10 chemists in the world over the past decade by a Thomson Reuters citation per publication index survey. He also has served on a number of boards and advisory panels.

Tour received his BS in chemistry from Syracuse University, PhD in synthetic organic and organometallic chemistry from Purdue University and postdoctoral training in synthetic organic chemistry at the University of Wisconsin and Stanford University.

continued from page 2

story to be very interesting and thought-provoking, and it definitely gave me a different view of “buried lies.” Although it still didn’t help me with my golf swing, I invite you to pick up a copy of the book sometime soon. It might help you sort out some personal goals for 2012. Until next month...

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## January Board Meeting

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



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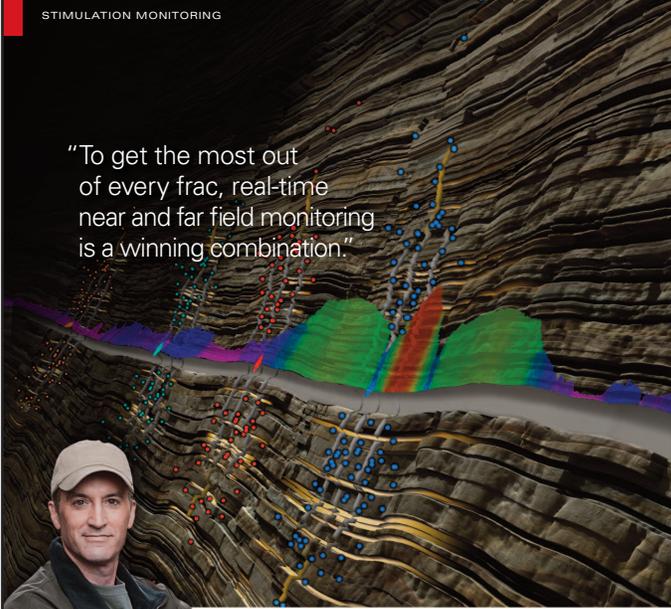
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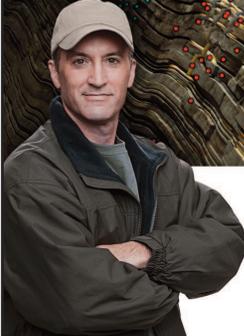
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**Monthly Membership Report  
Gulf Coast Section  
November 2011**

*Volunteer Spotlight*

	Nov-11		Oct-11	
	Total	YP(subset)	Total	YP(subset)
<b>SPE-GCS Members</b>	14,580	2,904	14,372	2,816
New Members	112	50	166	84
Reinstated Members	5	1	9	3
Transferred to Section	73	34	103	33
Transferred Elsewhere	64	21	69	22
Unpaid	1,486	526	1,520	541
<b>Student Members</b>	<b>Paid</b>	<b>Unpaid</b>	<b>Paid</b>	<b>UnPaid</b>
Texas A&M	816	149	804	149
UH/Rice	240	31	230	31
HCC	43	5	38	5
Unassigned	26	1	23	1
<b>Total</b>	1,125	186	1,095	186
<b>Total Paid/Unpaid</b>	<b>15,705</b>	<b>1,672</b>	<b>15,467</b>	<b>1,706</b>
<b>% Paid</b>	<b>90.4%</b>		<b>90.1%</b>	



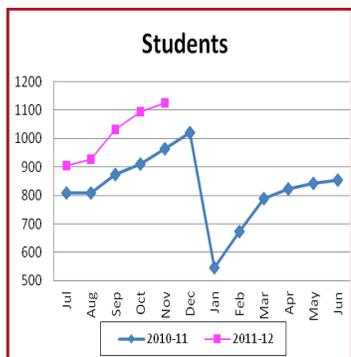
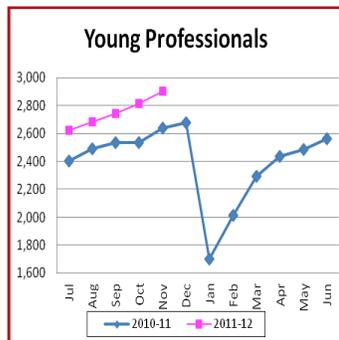
**Jose Reinaldo Villa**

This month we would like to recognize Jose Reinaldo Villa, a dynamic reservoir modeling engineer at Shell Global Solutions, who serves as Program Chair of the Reservoir Study Group. He joined SPE in 2001, when he was a graduate student at Stanford University doing research on unconventional wells for his master's degree. He had graduated magna cum laude from the Universidad Central de Venezuela in 1997 as a BS Petroleum Engineer.

After earning his Master's degree, Jose returned to his alma mater in Venezuela to teach reservoir engineering and applied geostatistics as a professor for four years. He then worked at PDVSA Intevp for ten years as a reservoir engineer, doing heavy oil simulation, offshore gas field development and implementing smart well technology. He came to Houston and joined Shell in 2007, and now focuses on dynamic reservoir simulation, uncertainty assessment, and inverse theory for history matching.

Jose has won some prestigious awards in his professional career. In 2005 PDVSA bestowed the Scientific Innovation Award to him, and two years later he was presented with the Scientific, Technological and Innovation National Award from the Venezuelan Ministry of Science and Technology. This past July he earned a Shell Recognition Award. But even with all his award-winning work going on, he still manages to make time to round up good speakers for the SPE Gulf Coast Section's Reservoir Study Group.

"Jose has been one of the most extraordinary volunteers in the group. He is willing to support every activity and has done very significant collaborations," said Fady Chaban, chairman of the Reservoir Study Group. "He co-chaired our annual Reservoir Forum, preparing the line-up of speakers and organizing all the technical and logistics tasks involved. He was elected to be our study group's current Program Chair, and again he is demonstrating great leadership and skills. His enormous contribution has allowed us to bring and implement new processes and innovative ideas for the benefit of the whole Section."



33% of all members have paid 2012 dues, but only 25% of YPs have as of November 10, 2011.

## AUXILIARY

The SPE-GCS Auxiliary will not have a formal luncheon in January. For information on future activities, to join us, or to receive a future newsletter, contact one of the following:

Paulette Williams	pegw16209@att.net
Evelyn Earlougher	earlougher@comcast.net
Karen Mermis	karoon@charter.net
Darlene Hirasaki	ghirasaki@att.net

### BOOK CLUB:

Date:	January 25, 2012
Time:	10:00 AM
Book:	"Captured" by Scott Zesch
Hostess:	Peggy Kite
Discussion Leader:	Ruth Nell Powers
Call:	Martha Lou Broussard 713.665.4428

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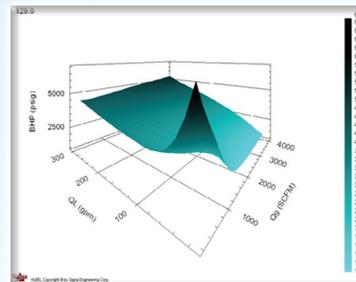
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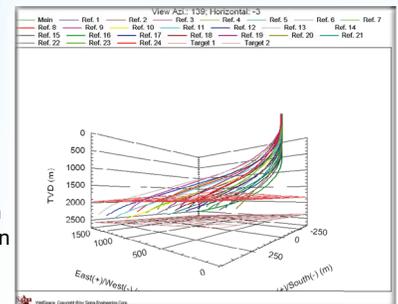
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# BUSINESS DEVELOPMENT

## Financial Tools to Fuel Today's Unconventional Growth

<b>Speaker:</b>	Wil VanLoh, Jr. Quantum Energy Partners
<b>Date &amp; Time:</b>	5:00 - 6:00 p.m. - Social Hour 6:00 - 7:00 p.m. - Program Wednesday, January 25
<b>Location:</b>	Four Seasons Hotel 2 <sup>nd</sup> Floor Mezzanine and Meeting Rooms 1300 Lamar Houston, TX 77010
<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 January 23

*Hors d'oeuvres provided, cash bar available.  
Advanced registration guarantees seating.*

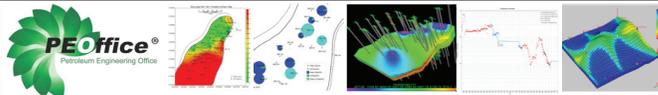
Capital needs encompass a wide spectrum of items. These include land positions, drilling and stimulating wells, separation and compression facilities, and midstream access and assets. Infrastructure needs may range from roads to electric power lines and housing facilities for personnel. Vertical integration may offer long-term savings but add additional upfront cash burdens. Mr. VanLoh will discuss a variety of financial tools that have been utilized by the industry to fund companies involved in these heavily front-loaded endeavors. What are the pros and cons of each method? What are the selection criteria/methodologies to choose the best option for a given position? Should one financial instrument be used? Or several? How vulnerable are each to the impact of potential changes in US tax law? What are the unique challenges impacting small, mid, and large cap companies? Are the answers different for public vs. private enterprises? Do company structures play a role? How dependent is a solution to product diversity?

**Wil VanLoh, Jr.** cofounded Quantum in 1998 and serves as President and CEO of Quantum Energy Partners and as Chairman of the firm's Executive and Investment Committees. In these capacities, he leads Quantum's investment strategy and capital-allocation process, working closely with the investment team to ensure its successful implementation and execution.

Prior to cofounding Quantum, VanLoh cofounded Windrock Capital, Ltd., an energy investment banking firm specializing in raising private equity for and providing merger, acquisition, and divestiture advice to private energy companies. Earlier to that, he worked in the energy investment banking groups of Kidder, Peabody & Co. and NationsBank.

VanLoh has served as a board member and treasurer of the Houston Producers' Forum and currently serves on the Finance Committee of the Independent Petroleum Association of America. He holds a BBA in finance from Texas Christian University.

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## The Geomechanics of Unconventional Reservoirs - Why it Matters

**Speaker:** Larry K. Britt  
NSI Fracturing

**Date & Time:** 11:30 a.m. - luncheon  
Wednesday, January 25

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

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

**Registration:** [www.spegcs.org](http://www.spegcs.org)  
**Deadline:** Noon, Monday, January 23

The geomechanics associated with oil and gas reservoirs has always been an issue even in vertical wells. However, now that seventy percent of all wells and nearly one hundred percent of wells in unconventional reservoirs are drilled horizontally it has become an even more important issue. After all, horizontal wells have become the industry standard for unconventional and tight formation oil and gas reservoirs. Why are the geomechanics and stress state important? How does the geomechanics impact the well completion and stimulation? What role does geomechanics play with regard to the creation of complexity? How can an understanding of the geomechanics be used to increase the profitability of an unconventional resource? These are just a few questions to be addressed during this luncheon.

This presentation will focus on some of the key elements of the reservoir such as geomechanics and permeability and how they apply to horizontal well completions and stimulation practices. The stress state will be addressed to understand the effect of hoop stresses on breakdown pressures and determine the impact on completion and stimulation staging. It will be used to assess reservoir complexity and completion practices such as simulfacs, zipper fracs, bashing, and natural fissure behavior. Optimization studies will be shown and used to highlight the importance of lateral length, number of fractures, interfracture distance, fracture half-length, and fracture conductivity. These results will be used to discuss the

various completion choices such as cased and cemented, openhole with external casing packers, and openhole “pump and pray” techniques.

**Larry K. Britt** is an engineering consultant with NSI Fracturing and President of Britt Rock Mechanics Laboratory at the University of Tulsa. Since joining NSI in early 1999, Britt has specialized in the development and application of tools for the post appraisal of hydraulic fracturing stimulations. His experience includes the optimization, design, and execution of fracture stimulations and integrated field studies throughout the world.



Prior to NSI, Britt worked for Amoco Production Company for nearly 20 years. He was fracturing team leader at Amoco’s Technology Center in Tulsa, Oklahoma. Britt has served twice as an SPE Distinguished Lecturer, as a *JPT* editor on Hydraulic Fracturing, and on several SPE Forum Committees on Gas Reservoir Engineering and Hydraulic Fracturing. He is the coauthor of the SPE book *Design and Appraisal of Hydraulic Fractures* and has authored over 30 technical papers on reservoir management, pressure transient analysis, hydraulic fracturing, and horizontal well completion and stimulations.

Britt received his BS in geological engineering and a professional degree in petroleum engineering from Missouri University of Science & Technology (MS&T). He teaches as an adjunct professor in the petroleum engineering department at the University of Tulsa and MS&T where he also serves on both the petroleum engineering and university engineering advisory boards.

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## 2012 - User Group Meeting

Please join us for our annual User Group Meeting (UGM) in Houston on Tuesday, February 21st 2012 at the Norris Conference Center.

The 2012 UGM will combine a broad range of topics including Flow Assurance, Well Dynamics, Drilling and Completions.

*There is no fee to attend the meeting. Lunch and refreshments will be provided.*

Registration is now open, please visit our website [www.sptgroup.com](http://www.sptgroup.com).

Venue:  
February 21, 2012 8:30am-4pm  
Norris Conference Center  
803 Town & Country Lane  
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## Change Management for Integrated Digital Energy Operations

<b>Speaker:</b>	Jess Kozman Carbon Lifecycle Technology Consulting
<b>Date &amp; Time:</b>	11:30 a.m. - luncheon Wednesday, January 18
<b>Location:</b>	Courtyard at St. James 1885 Saint 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, January 16

One of the frequently overlooked risks of implementing a fully integrated digital energy operation is the impact of change on the organization. A recent project in Southeast Asia focused on the retrofit required for full real-time instrumentation of a 35-year-old offshore brownfield operation. Analysis of the change trajectories of both the operator and their technology partners, and application of a field-tested six-step change-management methodology, focused on the dimensions of change critical to a large shift in business process. Specific metrics were designed and collected to determine the readiness of the organization for integrated digital change. Communication and training deliverables were created to help increase the success of the integrated operations project. This presentation will discuss best practices and lessons learned in designing a change-management plan to address leadership, communications, organizational design, metrics, training, and solution support. The change management plan was one part of an overall rollout scheme that also included workflow and solution architecture, asset process optimization, and the design of a collaborative work environment to link offshore, onshore, and corporate headquarters locations.

**Jess Kozman** is the founder of Carbon Lifecycle Technology Consulting and an international consultant to the resource and technology industries. His recent projects have included knowledge transfer to the resource industry in Australasia, data-management solutions for unconventional gas operators, document back capture and categorization, predictive analytics on offshore equipment, and information reporting architectures for carbon sequestration. He has recently been based in Perth, Western Australia and is a Registered Professional Geoscientist, Certified Petroleum Geophysicist, and a Qualified PRINCE2 Project Management Practitioner.

He holds a BS in geology and geophysics from the Honors College at Michigan State University and has done field and onsite work with geotechnical data from all of the populated continents on the planet.

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Then



Now

by Buddy Woodroof, ProTechnics  
Features Editor

### January 1962

Chrysler is starting the final evaluation of its gas-turbine passenger car, based on a successful run from New York to Los Angeles.

- The price of wildcat acreage under Cook Inlet, Alaska sky-rocket to \$500 per acre. (The paperwork alone costs that much nowadays.)
- The U.S. and the state of Louisiana continue their clash over offshore boundaries. (The Supreme Court is likely to get involved.)
- Iraqis are reportedly miffed because their seizure of Iraq Petroleum operating areas did not lead to the expected rejoicing in other Arab lands, while the company is being pressured to surrender 20% of its ownership along with a larger share of its revenues.
- Shell sets a depth record of 20,800 ft for the Upper Gulf Coast with its Chapman #1 in Waller County (Right in our own backyard).

East Texas crude oil - \$3.25/bbl  
U.S. active rig count - 1,810

### January 1987

The nation's first two diesel buses fueled by natural gas will be road-tested for a year in Tacoma, Washington, using diesel as a pilot to ignite the gas in a 90:10 gas to diesel mix.

- Meanwhile Ford Motor Company is conducting long-term durability tests on flexible fuel vehicles using an 85:15 mix of methanol and gasoline, as Ford believes that

methanol is the fuel most likely to replace gasoline in the next energy crisis.

- Alaska Pacific Refining reports plans to build the first U.S. refinery planned specifically for product export at Valdez, Alaska, with the initial intention of selling jet fuel to the Pacific Rim market.
- Ten African producing countries report plans to meet in Lagos, Nigeria to launch the African Hydrocarbon Association as a forum for consultation, dialogue, and cooperation, but to not conflict with OPEC. (Yeah... right!)
- Rising demand in the Caribbean is prompting consideration of more refining capacity or utilization, and who steps up but none other than Cockrell Oil Corp. in, that's right, Murfreesboro, Tennessee. (Let's hear it from all you Middle Tennessee State grads out there.)

U.S. active rig count - 962

### January 2002

In a study on Arctic gas, two University of Houston professors report that the Mackenzie Valley corridor in Canada almost certainly will prove to be the better choice for the proposed Arctic gas pipeline than a proposed route following the Alaska Highway.

- Syncrude production from the \$4.2 billion Sincor project in Venezuela will soon begin entering the 200 km pipeline on its way to Jose, where the 8.5 deg.

gravity crude will be upgraded to 32 deg. gravity crude for export.

- Lawsuits against federal and state entities over disputed leases sold previously to operators but delayed due to public opposition continue to mount in California and Florida.
- Numerous countries, including South Korea, China, Norway, Nigeria and Australia announce plans to build LNG facilities this year.
- On the information security front, a survey of energy executives indicates that approximately one-third of the energy companies polled believe that their companies are susceptible to a serious violation of information security, with employees topping the threat list, followed by hackers, competitors and customers.

Light sweet crude oil - \$20.59/bbl

Natural gas - \$2.23/MMbtu

U.S. active rig count – 856

## The Rest of the Yarn

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

Faced with potential financial loss due to being up-staged by Humble Oil’s proposed Winkler County oil pipeline, Murchison struggled to find a solution to his pipeline dilemma until one evening while walking down Wink’s muddy main thoroughfare it hit him. Why not offer gas heating and light to the locals? He already had the pipe; it took a matter of weeks to lay it down one side of the street. Residents would be invited to tap into it anywhere they could, five dollars a month for a home, ten dollars a month for a business. Natural gas had been used to heat homes and factories in England for a century but had never caught on in the U.S.; most Texas oilmen simply allowed the gas they found to escape into the atmosphere. Murchison was amazed how simple the business was; once a pipeline was built, all he did was sit back and collect monthly checks. When other West Texas towns expressed interest in having gas lines of their own, Murchison incorporated the Wink Gas Company and built lines to Pecos, Barstow, and Pyote. A friend in Oklahoma said his town could use one too, so Murchison sent work crews north and by mid-1928 had a pipeline furnishing gas to the towns of Kingfisher and Hennessey. He sent salesmen fanning out across South and Central Texas and soon had contracts to supply gas to Navasota, Sealy, Bellville, Eagle Lake, and Columbus.

In late 1928, after taking expansion loans from a pair of Dallas banks, Murchison moved into an apartment in a fashionable Dallas building called Maple Terrace; his roommate, a fastidious, nearsighted boyhood chum named Wofford Cain, ran the Oklahoma side of the pipeline business. The two would remain in business together for decades. In January 1929, in an effort to consolidate the chaotic piles of paperwork in his apartment and San Antonio office, Murchison leased space in the fifteen-floor American Exchange Building in downtown Dallas and, together with his brother Frank and Ernest Closuit, officially merged their far-flung gas operations into a single company they decided to call the Southern Union Gas Company. Murchison had big plans for Southern Union, the kind that occurred to few if any of his peers in Texas oil. He wanted to make it a national company, with stocks and bonds sold in northern stock markets. Murchison would arrange and build the pipelines, Closuit would drill for the gas, and Frank Murchison was sent to Chicago to begin raising money.

Next month, Murchison’s natural gas enterprise spreads west into New Mexico, with or without the necessary funding. (Article excerpted from “The Big Rich.”)

## History Quiz

In 1962 what state could lay claim to the world’s deepest LPG cavern?

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

### Answer to December’s Quiz

In 1961, Illinois ranked third (behind Texas and Oklahoma) in total footage for completed wells in the U.S.

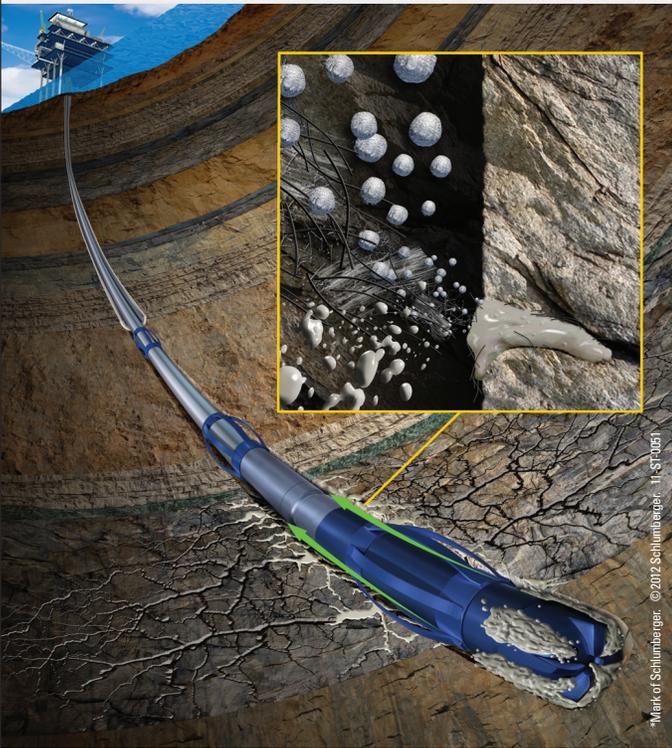
### Answer to November’s Quiz

The West Texas oilfield town of Kermit was named after the son of Theodore Roosevelt, who had visited the small Winkler County settlement on a hunting trip.

**Congratulations to November’s winner –  
Henry Williams with VAM Drilling !!!**

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# DRILLING

## Well Construction Efficiency in the Eagle Ford: Lessons Learned from Anadarko

**Speaker:** Mark Sundland  
Anadarko

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

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

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

**Registration:** [www.spegcs.org](http://www.spegcs.org)  
**Deadline:** Noon, Monday, January 9

Anadarko Petroleum Corporation is a major player in the Eagle Ford shale play in South Texas, currently operating 10 horizontal drilling rigs in Dimmitt, Maverick, and Webb Counties. To date, Anadarko has drilled nearly 300 wells in this emerging play. This presentation will describe various factors that affect operational efficiency in each phase of Eagle Ford horizontal well construction, and present statistical distributions of time data for each of those phases. Recent improvements in pad drilling efficiency will also be discussed.

**Mark Sundland** is the Drilling Engineering Manager for Anadarko's Southern and Appalachia Region, based in The Woodlands, Texas. His 29-year career spans engineering and management positions in drilling, completion, reservoir, and production activities in the Rocky Mountains, the Permian Basin, Alaska, the Gulf of Mexico, East Texas, South Texas, and Algeria. From 2006 to 2010, he managed horizontal drilling operations in the Austin Chalk, Cotton Valley, and Eagle Ford formations in Texas.

Sundland is a Dallas native and a graduate of Texas A&M University where he earned a BS in petroleum engineering in 1982.

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Instructor: John Lee

1–2 February 2012

**Shale Gas Completions, Fracturing, and Production**  
Instructors: Ian Palmer,  
George E. King

7–8 February 2012

**Oilfield Data Mining**  
Instructor: Shahab Mohaghegh

9 February 2012

**Fundamentals of Reservoir Simulation**  
Instructor: J. Robert Gochnour

15 February 2012

**Artificial Lift**  
Instructor: Rajan Chokshi

16 February 2012

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

### Courses Available in Other Locations

5 February 2012

**Hydraulic Fracturing—A Concise Overview**  
Instructor: Michael B. Smith  
The Woodlands, Texas

9–10 February 2012

**Hydraulic Fracturing—Design and Treatment**  
Instructor: Michael B. Smith  
The Woodlands, Texas

4–5 March 2012

**Casing and Tubing Design Seminar**  
Instructor: Peter Erpelding  
San Diego, California

4–5 March 2012

**Introduction to Drilling with Casing Technology**  
Instructors: Ming Zo Tan, Steve Rosenberg,  
Deepak M. Gala  
San Diego, California

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**Reservoir Aspects of Horizontal and Multilateral Wells**  
Instructor: Sada Joshi  
San Diego, California

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**Highlights of Completions, Fracturing, and Production**  
Instructor: Ian Palmer  
Scottsdale, Arizona

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The Woodlands, Texas

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Instructor: Ed Smalley  
The Woodlands, Texas

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## The Evolution of Reservoir Monitoring via Fiber-Optic Integration into Deepwater and Land Wells

- Speaker:** Philippe Legrand  
Baker Hughes
- Date & Time:** 11:30 a.m. - luncheon  
Tuesday, January 10
- Location:** Greenspoint Club  
16925 Northchase  
Houston, TX 77060
- 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, January 6

*Please bring a copy of your credit card receipt if you registered and paid online. If you have special dietary needs, please email the event contact with your prequests PRIOR to arrival at the event.*

Fiber-optic monitoring tools have been used to acquire real-time data to optimize production and monitor well and infrastructure conditions for more than 15 years. They have been deployed to provide downhole characteristics, assurance on the completion and production monitoring, and infrastructure for both land and offshore wells.

This presentation will review some of the advantages of the fiber-optic-based monitoring systems, tools, and interrogation techniques such as distributed temperature sensing, pressure/temperature sensors, fiber Bragg gratings, and distributed acoustic sensing. Their early adoption days to recent groundbreaking developments will be discussed. Deployments in the past few months such as downhole wet connect, strain monitoring of completions, and real-time compaction-monitoring systems will be given as examples.

Further, the applications and benefits of the mentioned fiber-optic sensing tools, field-specific challenges (temperature, monitoring distances, offsets, etc.), choices of fibers for the specific environment, and environmental impacts for the fiber-optic monitoring system will also be covered.

**Philippe Legrand** is part of the Intelligent Production Systems group of Baker Hughes. He joined the company in 2008, and is Baker Hughes' Fiber Optic Product Line Manager. His responsibilities include defining the IPS fiber-optic strategy and introducing new technologies and services.

Prior to joining Baker Hughes, Legrand worked for more than 9 years with various fiber-optics suppliers and instrumentation manufacturers. His experience ranges from subsea connectors, subsea distribution, subsea-tree penetrator systems, umbilical terminations to offshore and land well instrumentation with fiber-optic pressure/temperature gauges, distributed temperature sensing (DTS), as well as opening sales and manufacturing offices. He has several patents being filed and has published papers related to fiber-optic sensing technologies.

Most recently, he has been active in permanent-monitoring solutions such as fiber-optic pressure/temperature gauges, high-temperature applications, DTS and real-time compaction monitoring, and fiber-optic downhole wet connects.

Legrand holds a BS in electrical engineering from Texas A&M and an MS in engineering management from NTU (remote branch of Colorado State University).

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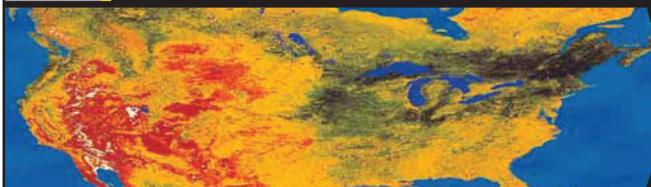


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# PERMIAN BASIN

## CO<sub>2</sub> Strategies: New Sources, New Technologies, New Growth

**Speaker:** Doug McMurrey  
Kinder Morgan CO<sub>2</sub> L.P.

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

**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, January 13

CO<sub>2</sub> tertiary recovery was initiated in the Permian Basin in 1972. Since then, it has been successfully implemented throughout the Permian and other oil-productive basins of the United States and the world. Today more than 140 thousand BOPD of Permian production is associated with CO<sub>2</sub> floods. With prices of \$100/bbl, what are the new engines of growth for this proven method of enhanced recovery? What are the new sources that will be utilized? Where are the new reservoirs to be targeted? Will the recent advances in horizontal drilling and fracture technology play a role? Are there recent developments in existing floods that will impact future demand? What are the capital needs/barriers for new CO<sub>2</sub> floods – is small scale feasible? Is the infrastructure in place to take advantage of these opportunities?

**Doug McMurrey** is the Vice President of Marketing and Business Development for Kinder Morgan CO<sub>2</sub>, L.P., the second largest oil producer for onshore Texas.

Prior to joining Kinder Morgan in 2007, McMurrey was with Societe Generale (SG) as managing director, heading Oil & Gas Client Management in the US and Americas. He also served as the principal of SG Americas Securities LLC and SG Houston Representative Office.

He has extensive experience in complex (multi-source) cross-border project financings, leveraged acquisitions, limited-recourse financings, and reserve-based transactions, including production payments and volumetric production payments and related risk mitigation.

He received his MBA in finance and management from the University of Texas at Austin (1978) and BA from Colby College (1976).

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## How Impending Rule Changes at the Railroad Commission of Texas May Affect You and Your Company

**Speaker:** Dorsey Twidwell  
PGH Petroleum and Environmental Engineers, L.L.C.

**Date & Time:** 11:30 a.m. - luncheon  
Tuesday, February 14

**Location:** Brookhollow Sheraton  
3000 North Loop West  
Houston, TX 77092

**Cost:** \$38 per member preregistered  
\$48 for nonmembers and walk-ins

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

The 2011 legislative session passed two critically important bills affecting the oil and gas industry: First, the hydraulic fracturing bill that outlines hydraulic fracturing chemical disclosure requirements and second, the creation of the Oil and Gas Regulation and Cleanup Fund and provision for the imposition of reasonable surcharges as necessary on fees imposed by the Railroad Commission of Texas (RRC). The RRC is currently moving forward with rule-making and procedural changes to implement these legislation changes and both could directly impact oil and gas companies' daily operations.

The proposed rules, Statewide Rule 29 for fracturing disclosures and Statewide Rule 78 for the new surcharges and fees, and how the RRC intends to implement them will be the subject of the February 7, 2012 lunch talk. The new Statewide Rule 29 requires an operator to submit information about the chemical ingredients and volume of water used in the hydraulic fracturing treatment of a well. Revisions to the Statewide Rule 78 add an additional surcharge of 150% to severance fees, drilling permits, and exception fees, along with other charges. By February 2012, we should have some details of how the RRC will be implementing these changes.

**Dorsey Twidwell** is currently the Senior Regulatory Specialist for PGH Petroleum and Environmental Engineers, LLC, a petroleum, environmental, and regulatory consulting firm in Austin, Texas. He is also an instructor at Midland College's Petroleum Professional Development Center. His next class at Midland College, "Gas Well Regulation in Texas" will be held in the spring of 2012.

Twidwell retired in December 2010 from the Railroad Commission of Texas (RRC) after nearly 30 years of state service. He finished his career as an Assistant Director in the Oil and Gas Division in charge of Administrative Compliance. Twidwell was the Proration Unit Manager for many years prior to his final position and traveled extensively for the RRC teaching proration at seminars across the state. During his Railroad Commission career, he worked on such diverse projects as online filing systems for drilling permits, production and completion filings, gas proration rule revisions, administrative review of legislation affecting the oil and gas industry, and integration of the oil and gas departments within the Commission.

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## E&P Applications of Fiber-Optic Technologies

**SPE Distinguished Lecturer 2011-12**

**Speaker:** Dennis D. Dria  
Myden Energy Consulting

**Date & Time:** 11:30 a.m. - luncheon  
Thursday, January 26

**Location:** Courtyard on St. James  
1885 St. James Place  
Houston, TX 77056

**Cost:** \$35 preregistered  
\$45 Walk-ins

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

Fiber-optic technology, although introduced for use in E&P well and reservoir monitoring only about 15 years ago, has blossomed into a highly reliable set of tools which frequently offer monitoring capability not obtainable with traditional sensors which are either permanently installed or run as logging tools or via other intervention methods. This presentation will provide an overview of optical sensing techniques and sensors such as distributed temperature sensing (DTS), optical pressure gauges, distributed strain measurement for integrity monitoring and distributed acoustic sensing (DAS).

Along with this brief introduction to different fiber-optic measurement technology, a case will be made for the application of these in the E&P industry, and examples provided to demonstrate their value.

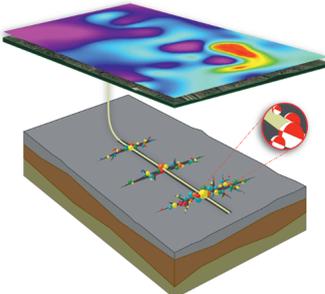
**Dennis D. Dria** is a petroleum technology advisor for Myden Energy Consulting, PLLC. He has more than 20 years of experience with Shell, most recently working as a Staff Research Engineer in the areas of fiber-optic technology development, fiber-optic data management and integration and technology implementation for well and reservoir monitoring, and as Shell's Global Subject Matter Expert for production logging and permanent sensing.



He is author or coauthor of 23 US patents and more than 10 technical publications and is a contributing editor to the current SPE Petroleum Engineering Handbook. Dria is a 25+ year member of SPE, he has chaired the SPE and SPE-GCS Continuing Education Committees, served on the Production Monitoring & Control Technical Subcommittee for the 2010 SPE ATCE, served as a technical program member on several SPE Forums and Applied Technology Workshops. He currently serves as chairman of the SPE Applied Technology Workshops on Distributed Fiber-Optic Sensing for Well and Reservoir Monitoring (2009-2011), and is a 2011-2012 Distinguished Lecturer for the Society of Petroleum Engineers.

Dria earned his BS in physics and mathematics from Ashland University and his PhD in petroleum engineering from the University of Texas at Austin.

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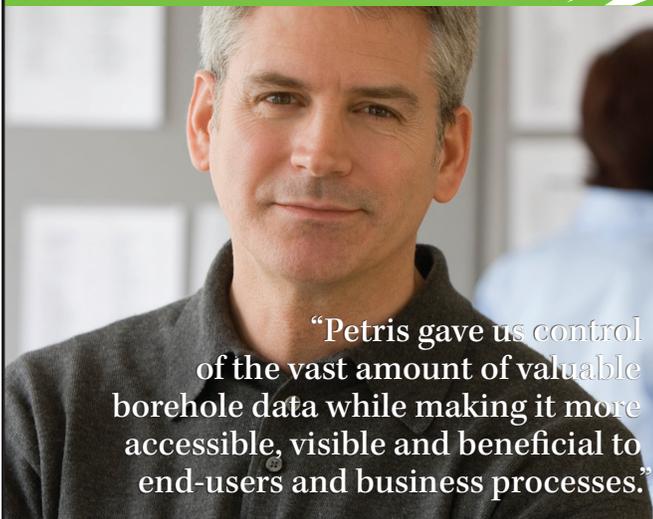


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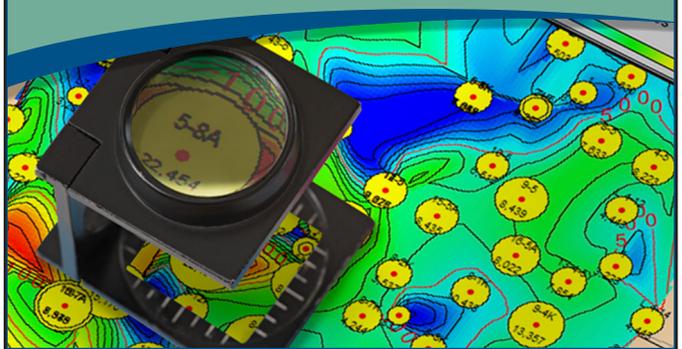


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## Shale Reservoir Properties – Implications for Horizontal Well Completions

**Speaker:** Randy Miller  
Integrated Reservoir Solutions,  
a division of Core Laboratories

**Date & Time:** 11:30 a.m. - luncheon  
Wednesday, January 18

**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, January 16

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if paid on-line*

Shale reservoir properties can have a significant impact on horizontal well completion strategies and ultimate productivity. Key properties that impact productivity are bulk or system permeability, fractures, geochemical maturity, hydrocarbons-in-place, reservoir pressure, reservoir thickness, reservoir heterogeneity, closure stress profile, and matrix permeability, to name a few. Examples of these properties and their variations in various shale reservoirs will be presented, along with their impact on horizontal completion strategies. It is important that these reservoir parameters be fully identified before locating the lateral and optimizing the fracture stimulation design for horizontal wells.

**Randy Miller** is President of Integrated Reservoir Solutions, a division of Core Laboratories, in Houston. He has 29 years of experience in the analysis and evaluation of reservoirs, both domestic and international.

Miller has conducted and directed over 50 joint industry projects including: “Tight Gas Sands of North America - Reservoir Characterization and Fracture Stimulation Optimization” and “Gas Shales - Reservoir Characterization and Production Properties,” as well as regional evaluations of the Haynesville and Bossier Shales, Marcellus Shale, Eagle Ford Shale, Montney Shale, and most recently the Duvernay Shale. His special interests include integrating geology, petrophysics, stimulation, and production analysis for optimizing the exploitation of unconventional reservoirs.

Randy received a BA in chemistry and geology from the University of California at San Diego and pursued graduate studies at Scripps Institute of Oceanography and the University of Houston. He is a member of the American Association of Petroleum Geologists, Houston Geological Society, Society of Professional Well Log Analysts, and Society of Petroleum Engineers.

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## YPs Support New HCC Student Chapter

SPE Gulf Coast Section Young Professionals hosted a pizza party at HCC Energy Institute at the Northeast Campus on Saturday, November 12. The purpose was to ensure a seamless transition from HCC Student Chapter membership to Young Professionals membership.

YP membership chair Heather Ardeel of Carrizo Energy shared information about all the YP activities and invited the students to participate in them even now. Students were also invited to follow social media sites like Twitter, Facebook and LinkedIn to keep abreast of YP activities.



James Sipple III, president of the HCC SPE Student Chapter, tells fellow students about LinkedIn, the professional's preferred social media network, as Jeanne Perdue, SPE-GCS Membership Chair, and Heather Ardeel, SPE-GCS YP Membership Chair, look on.



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# YOUNG PROFESSIONALS

## Channel Fracturing in Horizontal Wellbores: The New Edge of Stimulation Techniques in the Eagle Ford Formation

**Speaker:** Alejandro Pena, *Schlumberger*

17 January 2012 • 11:30 AM-1:00PM

Petroleum Club of Houston, Houston, 77002, Cost: \$20 (member), \$25 (non-member)

**Registration:** <http://spegcs.org/en/cev/2191>

The hydraulic channel fracturing technique relies on the engineered creation of a network of open channels within the proppant pack, which provides for highly conductive paths for the flow of fluids from the reservoir to the wellbore. These channels are created through a process that combines fit-for-purpose geomechanical modeling, surface equipment controls, and fluid and fiber technologies. This talk will explain the first implementation of the channel fracturing technique in horizontal wellbores.

This event will also be available live on GCS Webinar facility.

**Event contact:** Tony Fernandez- [TFernandez@nobleenergyinc.com](mailto:TFernandez@nobleenergyinc.com)

**Event Registration:** <http://www.spegcs.org/en/cev/2191>



**Alejandro Pena** based in Sugar Land, Texas, is Schlumberger Well Production Services Chemistry and Materials Portfolio Manager. He earned his BS in chemical engineering and was an assistant professor at Universidad de Los Andes in Mérida, Venezuela. After completing his PhD in chemical engineering at Rice University in Houston, he joined Schlumberger as a senior chemical engineer. Since then, he has held several field engineering and operations management positions within Schlumberger in North and South America. Pena holds several patents and has authored various publications on stimulation-fluid technology.

## Networking Social at Hughes Hangar

18 January 2012 • 5:30-7:30PM

2811 Washington Avenue, Houston 77007

Cost: FREE!!! Appetizers & Drink Provided

Please join SPE-GCS Young Professionals for an evening of mixing and mingling at the 1920s-themed Hughes Hangar! Come out to catch up with your fellow YPs, socialize, have some food and drinks, and ring in the start of the New Year!

Please note – drink tickets provided on a first come, first serve basis.

Event Contact: Pavitra ([pavitra.a.timbalia@exxonmobil.com](mailto:pavitra.a.timbalia@exxonmobil.com))



## Interested in finding out more about the SPE Young Professionals Committee or joining the board next year?

If so, we invite you to attend our monthly board meetings! Use this as a time to get plugged in more or to meet some new faces in the organization. Please contact **Andrea Hersey** at [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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8	9	10 Northside, p17	11 Drilling, p15	12 Gen Meeting, p3	13	14
15	16	17 Permian, p19 <hr/> YP, p27	18 Digital Energy, p11 <hr/> Westside, p25	19 Board Meeting, p4	20	21
22	23	24	25 Bus Dev, p7 <hr/> C & P, p9	26 Reservoir, p23	27	28
29	30	31				