

MARCH 2012



GULF COAST SECTION NEWSLETTER

Gulf Coast Section

Reservoir:
SPE Distinguished Lecturer
Releasing Shale-Gas with
Fractured Horizontal Wells



CHAIRMAN'S CORNER

by Hiep Vu, Shell
2011-12 SPE GCS Chair

SPE-GCS Planning for the Future: The Strategic Plan and the 2013-2016 3-Year Plan

In 2005, a strategic plan was created for the Section in order to guide the direction of the Section's growth into the future. The strategic plan had the Section focus its efforts on the following topics: (1) forums for professional competence, (2) social interaction, (3) K-12 outreach, (4) university programs, (5) scholarships, (6) enhancement of public image, (7) volunteerism, (8) membership, (9) attendance, (10) technology dissemination, (11) preparation for the big crew change, (12) financial health, (13) governance, and (14) program diversity. As part of this strategic plan, the Section is to create long range goals to help achieve the plan's objectives. A copy of the current plan can be found at [www.spegcs.org/About SPE-GCS/Governance](http://www.spegcs.org/About%20SPE-GCS/Governance). The long range goals were last revised in 2009 by a committee led by Jane Moring. These goals were recommended and approved by the Board in the fall of 2009. Numerous actions were then put into place to develop and mature these goals to improve on the Section's overall delivery of its mission. Now that we are in 2012, it's that time again to review the Section's Strategic Plan and its long range goals (or more officially known as the 3-Year Plan). Steve Baumgartner, our current Vice Chairman, will be leading the Long Range Planning Committee for the Section. He and his committee of volunteers will spend the next few months reviewing how well the Section has done with executing these goals, and from those findings, the committee will revise/create actions for the next phase of the plan. But, as with most successful organizations, this work should not be done in a silo. Steve and his LRP committee will need input from the Section's general membership regarding any near or long term improvements to existing initiatives and suggestions for new Section initiatives. What can we do better to improve our Section? Let us know what you think!



Study Group News

Is your business directly impacted by drilling and production waste? Are there issues or concerns about waste management that need to be addressed? The Drilling and Production Waste Management Study Group will be starting up very soon. Joe Kilchrist with Ziff Energy has volunteered to head up the study group for the Section, and will be planning to host quarterly meetings in the near future. If you have topics that you'd like to hear about, or if you are interested in helping Joe with this study group, you can contact him at joseph.kilchrist@ziffenergy.com.

The International Study Group has had some recent change to its leadership. Philippe Mitterrand has done a tremendous job revitalizing this study group

Reservations & Information

For all SPE GCS topical luncheons and social activities, please register online at 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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Features	Buddy Woodroof
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For comments, contributions, or delivery problems, contact 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 15,500 SPE members in Houston.

Advertising

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

Change of Address

Society of Petroleum Engineers
Member Services Dept.
P.O. Box 833836
Richardson, Texas 75083-3836
1.800.456.6863
service@spe.org

continued on page 4

GENERAL MEETING

North American Natural Gas and Crude Prices: All Bets are Off!

Speaker: Keith Barnett
Spring Rock Production

Date & Time: 11:30 a.m. - luncheon
Thursday, March 8

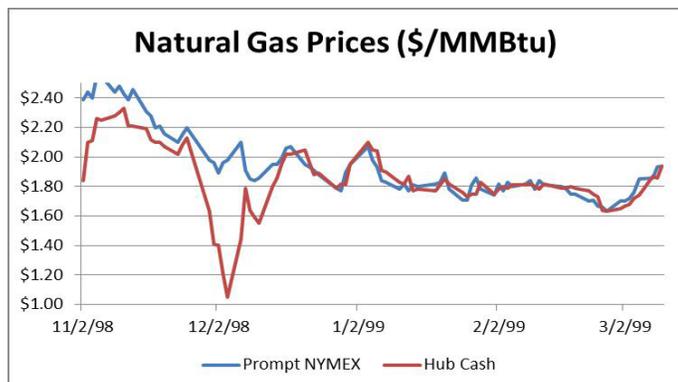
Location: Petroleum Club
800 Bell Street, 43rd Floor
Houston, TX 77002

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

Registration: www.spegcs.org
Deadline: Noon, Tuesday, March 6

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."

The natural gas market has been bailed out of catastrophe by two cold winters combined with two HOT summers, but this winter is failing to deliver cold weather. By the time this speech occurs, we likely will have hit the wall where flowing gas production is shut-in due to the need to finish cycling gas storage withdrawals. Let's hope the experience in December 1998 is not repeated, as shown in the price graph below. The overhang in storage inventories will not be worked off in 2012, thus pressuring gas prices into 2013. Hold on to some hope though, because gas prices will recover as gas demand for power generation ramps up even more over the next several years.



Crude oil, on the other hand, holds enormous promise of sustaining companies and jobs in our industry, as technology is unlocking the resources in North America and global demand should sustain relatively high prices. The only storm cloud on the horizon is how wobbly Europe is, from a fiscal sense. Further major problems in Europe could cause a short-term price decline (collapse), but supply and demand balances suggest it would not sustain lower prices.

Keith Barnett has over 30 years of experience in the energy industry with leading companies like Chevron, Columbia Gas Transmission, American Electric Power, and Merrill Lynch Commodities. He has held engineering, managerial, and executive positions with those companies in the areas of production, drilling, offshore platform design, natural gas marketing, fuel procurement, trading and structuring analytics, and corporate strategy.



Barnett has participated in two National Petroleum Council studies, including leading the power demand team in the 2003 natural gas study and serving on the steering and report writing committees. He was also the Natural Gas Task Force lead for the Edison Electric Institute for several years.

Barnett has testified before the Federal Energy Regulatory Commission and the Senate Sub-committee on Energy on natural gas and power matters. He is a frequent speaker on natural gas, power, and global energy markets. In his previous position as Director of Strategic Analysis for Merrill Lynch Commodities, Barnett led the effort to create an integrated global point of view for energy commodities that could serve short-term trading and longer-term investment horizons.

Barnett recently joined Spring Rock Production, an affiliate of Waterborne LNG, which is producing a state-of-the-art natural gas and oil production forecast for the USA and Canada. He will retain his consulting firm, BarnHill Energy Resources, which currently serves a select group of clients on energy market analytics, regulatory policy issues, and risk management.

Barnett has an engineering degree from Texas A&M University.

continued from page 2

by addressing international topics that affect our Section and our industry. However, due to recent changes to Philippe's work and international travel schedule, he has elected to step down as the ISG Chair. Chris Reinsvold, one of the Section's Directors-at-Large and a past chair of the General Meeting, has volunteered to take over the chairmanship of the International Study Group.

I'd like to take this opportunity to recognize and thank Joe, Philippe, and Chris along with all of our Section's study group and committee volunteers for your continued efforts on making our Section a success. Your individual dedication to SPE and your hard work are instrumental in keeping our Section moving towards the right direction for the future!

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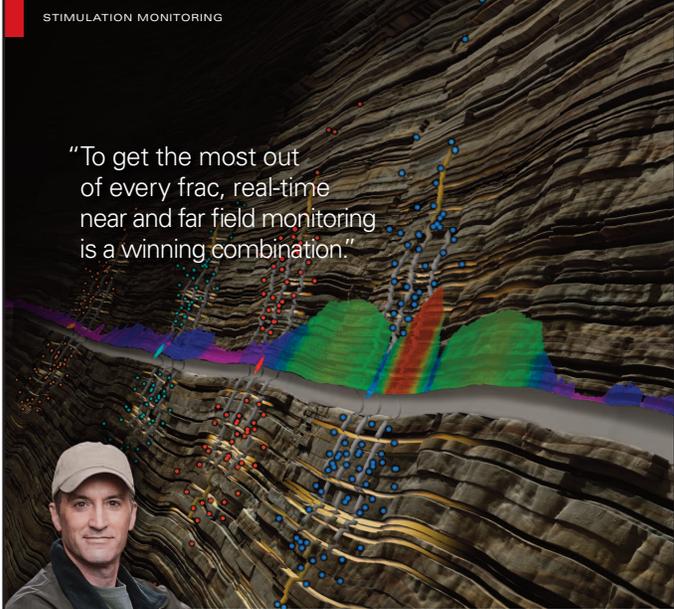
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March Board Meeting

The Gulf Coast Section board of directors meeting will be held from 7:30 to 10:30 a.m., Thursday, March 15 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 or contact Sharon Harris at 713.457.6821 or sharris@spe.org.

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**Monthly Membership Report
Gulf Coast Section
January 2012**

Volunteer Spotlight

	Jan-12		Dec-11	
	Total	YP(subset)	Total	YP(subset)
SPE-GCS Members	9,750	1,648	14,592	2,929
New Members	113	40	93	42
Reinstated Members	13	5	8	3
Transferred to Section	93	31	54	30
Transferred Elsewhere	23	10	78	21
Unpaid	5,274	1,580	1,430	506
Student Members	Paid	Unpaid	Paid	Unpaid
Texas A&M	317	351	822	149
UH/Rice	98	107	244	31
HCC	17	17	43	5
Unassigned	11	6	27	1
Total	443	481	1,136	186
Total Paid/Unpaid	10,193	5,755	15,728	1,616
% Paid	63.9%		90.7%	



Andrea Hersey

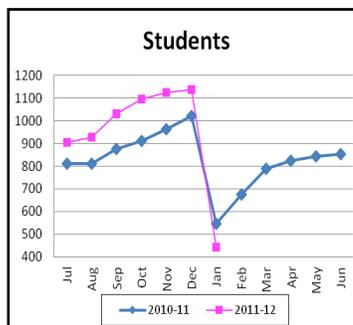
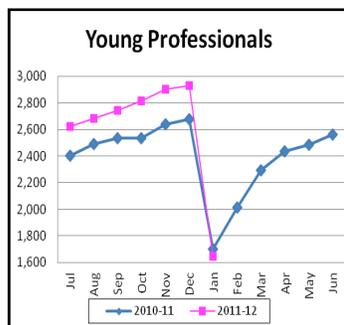
Andrea Hersey, a Sales Analyst for Momentive Specialty Chemicals' Oilfield Technology Group, is the prize winner for the Gulf Coast Region in SPE's 2011 Build the World of SPE Membership Recruitment Contest. Andrea recruited 8 SPE members during 2011, more than anyone else in the SPE Gulf Coast region, helping to push SPE past the 100,000 member milestone. For her membership recruiting efforts, Andrea received \$500 and a letter of appreciation from 2012 SPE President Ganesh Thakur of Chevron.

"Due to the dedicated service of SPE members such as you, our society continues to grow and maintain its position as the foremost professional society of the E&P industry," Thakur said. "Congratulations on earning the regional grand prize for the Gulf Coast North America Region for the 2011 member recruitment contest. More importantly, thank you for continuing to encourage others to join SPE."

But that's just the icing on the cake.

Andrea has been the Chair of the Young Professionals (YP) Committee in our Section for two years as the YP board transitions from the old structure to the new leadership structure that ensures continuity from year to year for the many big events the group organizes. Andrea is also the first YP Chair to serve on the Gulf Coast Section Board of Directors, after a recent amendment to the Bylaws.

Membership Chair Jeanne Perdue, who has been the Board liaison to the YP Committee for two years, had this to say about Andrea's volunteer commitment: "Andrea has really blossomed as a leader in her role as YP Chair. Her organization skills in running YP meetings, her diplomacy in handling issues, and her presentations to the Board have been quite impressive. Her drive and enthusiasm were key factors in our YPs achieving the Outstanding YP Award at this year's SPE Annual Meeting. Her volunteer service to SPE has truly helped her to grow both personally and professionally. It has been a pleasure being her mentor."



Please renew your SPE membership today!
www.spe.org/join

AUXILIARY

Date & Time: 11:00 a.m.
Friday, March 9

Location: Raveneaux Country Club
9415 Cypresswood Drive
Spring, TX 77379
281-370-6370

Cost: \$32 (Checks Only, Please)

Deadline: Noon, Tuesday, March 6
(Deadlines are Firm)

Program: A Representative of the
San Jacinto Council of Girl Scouts

BOOK CLUB:

Date: March 28, 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

Contacts:

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

Evelyn Earlougher
earlougher@comcast.net
1-281-419-1328

Editor Updates:

Our March newsletter cover is courtesy of **FMC Technologies**. Thank you for your continued support to the section!

Announcement from SPEi: the Gus Archie Memorial Scholarship. For more information about the program visit the link below. The deadline for completed submissions is **30 April**.

The submission process is all electronic, and to apply, students should visit:

<http://www.spe.org/scholarships/archie.php>

Regina Ew

PetroSkills

PetroSkills will offer over 250 sessions in the Houston area in 2012, including new Unconventional Resource, Operations & Maintenance, and Virtual offerings. Here is what is coming up in late March and April:

Drilling, Production, and Completions

- Directional, Horizontal, and Multilateral Drilling; Larry Wolfson, Apr 16-20
- Drilling Fluids Technology; Hector Moreno, Mar 12-16
- Electrical Submersible Pumps; Dr. James Lea, Apr 23-27
- Flow Assurance for Offshore Production; Dr. Phillip Notz, Mar 26-30
- Gas Lift; Thomas Nations; Mar 12-16
- Gas Production Engineering; Dr. Mohan Kelkar, Mar 19-23
- Hydraulic Fracturing Applications; Alfred Jennings, Apr 9-13
- Managing Wellsite Operations; Morgan Jones, Apr 16-20
- Primary Cementing - Cementing I; Jerry Calvert, Apr 23-26
- Water Management for Unconventional Gas; Dr. Mukul Sharma, Apr 2-4
- Well Design and Engineering; Marc Summers, Mar 19-30

Reservoir Engineering

- Oil and Gas Reserves Evaluation; Robert Wagner, Mar 26-30
- Well Test Design and Analysis; Dr. John Spivey, Mar 26-30

Geology, Geophysics, and Petrophysics

- Basin Analysis Workshop: An Integrated Approach; Dr. John Pigott, Apr 16-20
- Petroleum Geochemistry: Tools for Effective Exploration & Development; Dr. Mark McCaffrey, Apr 16-20
- Applied Seismic Anisotropy for Fractured Reservoir Characterization; Dr. Heloise Lynn, Apr 16-20
- Seismic Velocities and Depth Conversion; Dr. David Muerdter, Apr 9-13
- Applied Rock Mechanics; Dr. Robert Skopec, Apr 2-4
- Capillarity in Rocks; David Patrick Murphy, Mar 21-23
- Coring and Core Analysis; Dr. E.C. Thomas, Mar 19-23
- Foundations of Petrophysics; Robert Lippincott, Mar 26-30
- Petrophysics of Unconventional Reservoirs; Mr Richard Bateman, Mar 12-14
- Well Log Interpretation; Dr. E.C. Thomas, Apr 9-13
- Wireline Formation Testing and Interpretation; Dr. Andrew Chen, Mar 12-16

Introductory & Multi-Discipline

- Basic Petroleum Engineering Practices; Robert Lippincott, Apr 16-10
- Overview of the Petroleum Industry; Dr. George Slater, Mar 19-20

Operations & Maintenance

- Production Field: Field Operations, Apr 23-May 4

Petroleum Business

- Fundamentals of International Oil and Gas Law; William Hughes, Apr 9-13
- International Petroleum Contracts; Dr. Richard Seba, Apr 9-13

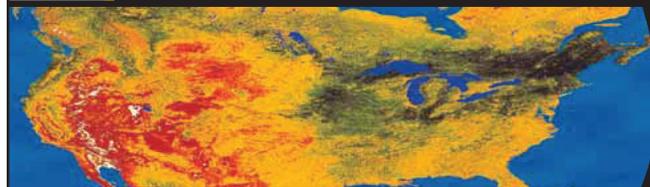
Health, Safety, Environment

- Strategic Thinking: A Tool-Based Approach; John Scruton-Wilson, Apr 2-4
- Applied HSE Management; Stephen Asbury, Mar 19-23
- Risk Based Process Safety Management; Clyde Young, Apr 9-13

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Navigating the Storm of Low Natural Gas Prices

Speaker: Sylvia K. Barnes
KeyBanc Capital Markets

Date & Time: 5:00 - 6:00 p.m. - Social Hour
6:00 - 7:00 p.m. - Program
Wednesday, March 28

Location: Four Seasons Hotel
2nd Floor Mezzanine and
Meeting Rooms
1300 Lamar
Houston, TX 77010

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

Registration: www.spegcs.org
Deadline: Noon, Monday March 26

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

Natural gas prices peaked at \$13 in 2008 only to quickly collapse, briefly reaching a low of \$3 in September 2009, before generally leveling out between \$4 and \$5/mmBtu. With futures consistently indicating a quick return to levels of \$6, or higher, companies have invested enormous amounts of capital to acquire and develop newly discovered unconventional assets. Since July 2011, that bubble has burst with NYMEX Spot reaching the low \$2.20s—IN JANUARY! What are the drivers of this sudden downturn in prices? What is the supply-side interplay of storage levels, rig counts, lease expiries, capital commitments, expanding pipeline capacities, and continuing technological advancements? When will demand arrive like the cavalry to soak up this excess supply? Through what mechanisms? Will exports play a significant role? Ms. Barnes will shed some light on the fundamentals behind this movement and provide us with her thoughts on the future.

With this stormy forecast, how are established and new growth E&Ps to chart a course through this challenging economic environment? Do their plans differ with scale, location, and age? Do they join the stampede to high-

liquid-yield unconventional plays? Or batten down the hatches to sail through the cyclone while remaining dry-gas focused? Are there contrarians who view this as an opportunity to acquire gas reserves “on the cheap”?

Sylvia K. Barnes joined KeyBanc Capital Markets as Head of Oil & Gas Investment and Corporate Banking in October 2011 with over 20 years of financial experience and a background in engineering.



Previously, Barnes was Head of Energy Investment Banking at Madison Williams. Prior to Madison Williams, Barnes served as Managing Director at Merrill Lynch & Co.'s energy investment banking practice, joining Merrill Lynch as part of the firm's 2006 acquisition of Petrie Parkman & Co. During the six years Barnes was at Petrie Parkman and Merrill Lynch, she successfully executed a variety of merger, acquisition, and divestiture transactions for energy clients, advised on public and private equity offerings, and structured and placed private debt and equity. Prior to joining Petrie Parkman, Barnes was with Enron Energy Services as Vice President, responsible for executing energy management contracts with large industrial clients, including refineries and chemical companies.

Barnes began her career as a reservoir engineer for a subsidiary of Exxon, and is a licensed petroleum engineer. She received a BS in mechanical engineering (Dean's List) from University of Manitoba, and an MBA from York University. Barnes is active in oil and gas industry activities and the Houston community. She is currently a board member of the Houston Energy Finance Group and Chairperson of the Santa Maria Hostel Foundation, and recently served as a board member for the Harris County Houston Sports Authority and the Houston Producers' Forum.

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COMPLETIONS & PRODUCTION

Sleeve Technology for Cemented Horizontal Wells in North America

Speaker: Yuyi Silumesii
Halliburton Energy Services

Date & Time: 11:30 a.m. - luncheon
Wednesday, March 28

Location: Greenspoint Club
16925 Northchase Drive
Houston, TX 77060

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

Registration: www.spegcs.org
Deadline: Noon, Monday, March 26

Lateral lengths for horizontal wells are increasing as production from conventional resources is on a decline and the need for energy independence is becoming apparent. Techniques to successfully complete these long laterals in a safe and most cost effective way have become priority number one to the industry. Proven stimulation sleeves that offer more multi-entry points in a single zone are becoming one of the most important solutions to this challenge. This presentation is a case study based on the success of sleeve technology for cemented applications in North America, including South Texas.

Yuyi Silumesii is a Technical Advisor at Halliburton Energy Services, working with horizontal and vertical completion products for both cemented and uncemented applications. He holds a BS degree in electrical and computer engineering from Brigham Young University - Idaho.

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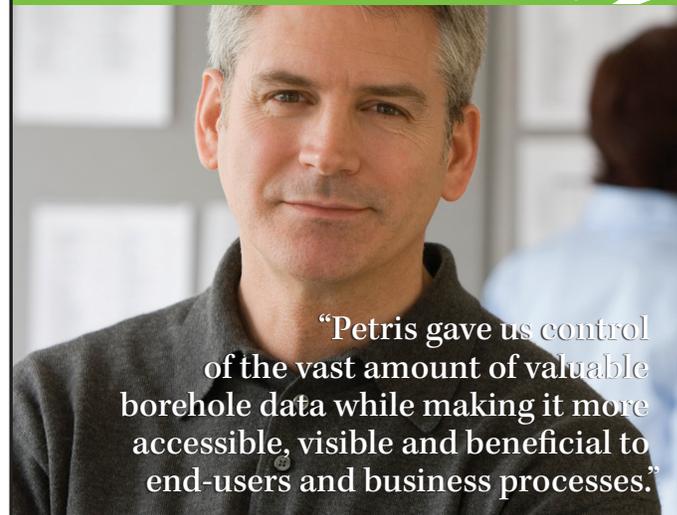
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Industry Standard Data Exchange in the Digital Oilfield

Speakers:	Mark Crawford ExxonMobil
	Rodney Brown ExxonMobil
Date & Time:	11:30 a.m. - luncheon Wednesday, March 21
Location:	Courtyard at St. James 1885 Saint James Place Houston, TX 77056
Cost:	\$35 per members \$40 for nonmembers and walk-ins
Registration:	www.spegcs.org
Deadline:	Noon, Monday, March 19

In the past, it may have been possible to individually manage each data exchange between the various parties involved in a venture. As the rate of digital data increases and the number of interested parties grows, a one-off approach for each data exchange becomes increasingly untenable. This talk will discuss the expanding use of industry standard formats and web services for integrating and managing the data flow between multiple parties in the digital oilfield.

This talk will focus on how software developers within an organization are enabled with these standards. Software developers need to incorporate these standards into applications before end users can make practical use of them. However these standards are large and complex. For a software developer new to these standards, working with them can be a daunting task.

Recently, ExxonMobil undertook an effort to produce Energistics WITSML (Wellsite Information Transfer Standard Markup Language) and PRODML (Production Markup Language) Devkit. This DevKit is a library designed to allow developers to read and write standards compliant data, but stay entirely in the .NET and Visual Studio environment while doing so. In the spirit of increasing standards uptake ExxonMobil decided to release this DevKit to the open source community.

The speakers will also provide an overview of ExxonMobil's DevKit. They will discuss the feedback, the impact and the future direction in the open source community.

Mark Crawford is an Integration Advisor for ExxonMobil Technical Computing Company. He has 25 years of upstream experience with approximately half of that time as an operations engineer for Mobil E&P US and half in various central technical computing support roles for Mobil and ExxonMobil. Crawford is the Executive Team Chairman for the Energistics PRODML Special Interest Group.

Rodney Brown is a Technical Software Engineering Advisor and Application Design Lead for ExxonMobil Technical Computing. He focuses on the integration of upstream technical applications and systems. Brown has 13 years of experience developing and managing upstream software and data integration. He is an active participant in the Energistics Technical Architecture Work Group.

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Then



Now

by Buddy Woodroof, ProTechnics
Features Editor

March 1972

Colonel Qadhafi issues severe tongue-lashing to Soviets for failing to provide technical aid following Libya's nationalization of BP's oil concession. Libyan Premier Jallud's request for such aid has fallen on deaf ears.

- Lone Star Producing prepares to run a 5" liner to test the world's deepest hole – the 30,050 ft Baden #1 in Beckham County, Oklahoma.
- Crude oil imports hit a record volume of 2,541,000 bbl/d.
- After a failed attempt to merge with Continental Oil, Burmah Oil approaches Cities Service as a possible merger candidate in an effort to enter the U.S. market.

U.S. active rig count – 1,055

March 1987

Oklahoma Senator Don Nickles (No, not Don Rickles) presses for a \$0.30/bbl tax on imported crude oil in order to finance an additional 2 million bbl/yr for the Strategic Petroleum Reserve.

- Conoco begins construction of the world's first tension leg well platform, to be set on Green Canyon Block 184 offshore Louisiana.
- Baker International rejects a merger proposal Hughes Tool Company claims would avoid Justice Department consent decree provisions.

- Nymex President Rosemary McFadden predicts that natural gas futures will begin trading by the fourth quarter.

U.S. active rig count – 801

March 2002

Shell E&P shuts in production from the Gulf of Mexico Brutus tension leg platform (2,985 ft water depth) for repairs and production capacity expansion. Upon completion of the work, its production capacity will expand from 60,000 b/d of oil to 130,000 b/d.

- Marathon proposes the construction of a regasification complex to be built in Tijuana, Mexico that will take LNG from Indonesia's Pertamina, regasify it, and export it for use in southern California. (A local shale gas reservoir sure would make things simpler in LA-LA land.)
- Who had the most winning bids in the latest central Gulf of Mexico offshore lease sale? Chevron? BP? BHP? Would you believe... Spinnaker Exploration and Magnum Hunter Production?

Light sweet crude oil - \$24.37/bbl
Natural gas - \$2.98/MMbtu
U.S. active rig count – 753

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.

Once his natural gas franchises were secured, the challenge became building a pipeline 150 miles across the Continental Divide to link Santa Fe and Albuquerque with the gas wells in the mountains. It was an engineering effort that would have daunted lesser men. Murchison surveyed the route from an airplane, dropping flag-tipped bags of flour to mark the route he wanted. Roads needed to be laid across canyons and mountainsides, then huge sections of pipe trucked in and buried, often in rain and snowstorms. The pipe alone cost three million dollars, all of which Murchison got on credit. He had hoped his brother Frank could raise money to repay the loans in Chicago, but their brokerage firm, Peabody & Co., ran into management problems, and Frank was forced to step in and actually run Peabody himself. Still, Murchison was confident that once the pipeline was complete, gas sales would allow him to repay the banks and his main trade creditor, the Oilfield Supply Company.

Construction had just begun in the fall of 1929 when the stock market crashed. In a matter of weeks America sank into a national depression. Murchison watched in dismay as his cash flow sputtered, coughed, and then finally stopped altogether. He couldn't pay his workers, endangering the entire pipeline project. One week he made payroll only by borrowing forty thousand dollars from one of his father's friends. When the pipeline reached a point seven miles outside Albuquerque, they ran out of money once more. Only when Wofford Cain appealed to the mayor to return a portion of their cash bond was the pipeline finally completed.

All through the worst months of the Depression during 1930 and 1931 Murchison signed up new customers for

Southern Union, and barely two years after its founding, he could boast of service to forty-three towns in six states—this despite the weekly struggle to meet payroll. What saved him was the fact that he knew more about banking than any other oilman in Texas. He coaxed every last dollar he could out of the Dallas banks, then pushed back repayment, all but daring the bankers to foreclose. By 1932 his debt had grown to more than four million dollars, far more than his net worth. “Aren't you concerned about owing all this money you can't repay?” Ernest Closuit asked him. “No,” Murchison said with a smile. “If you're gonna owe money, owe more than you can pay, then the people can't afford to foreclose.”

Next month, a look at how Sid Richardson fared during the Depression years. (Article excerpted from “The Big Rich.”)

History Quiz

In what state was the world's first horizontal oil well drilled?

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

Answer to February's Quiz

In 1959, Texaco overtook Standard Oil of New Jersey as the nation's largest crude producer.

Answer to January's Quiz

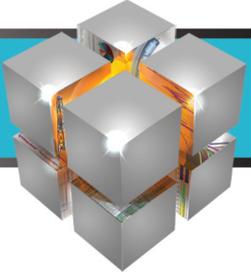
In 1962 the world's deepest LPG storage involved Dakota Salt and Chemical's salt-layer storage operations which were conducted through a trio of wells at 8,400 to 8,500 ft near Williston in Williams County, North Dakota (surrounded by all that Bakken oil!).

**Congratulations to January's winner –
Fred Growcock with Occidental Oil & Gas!!!**



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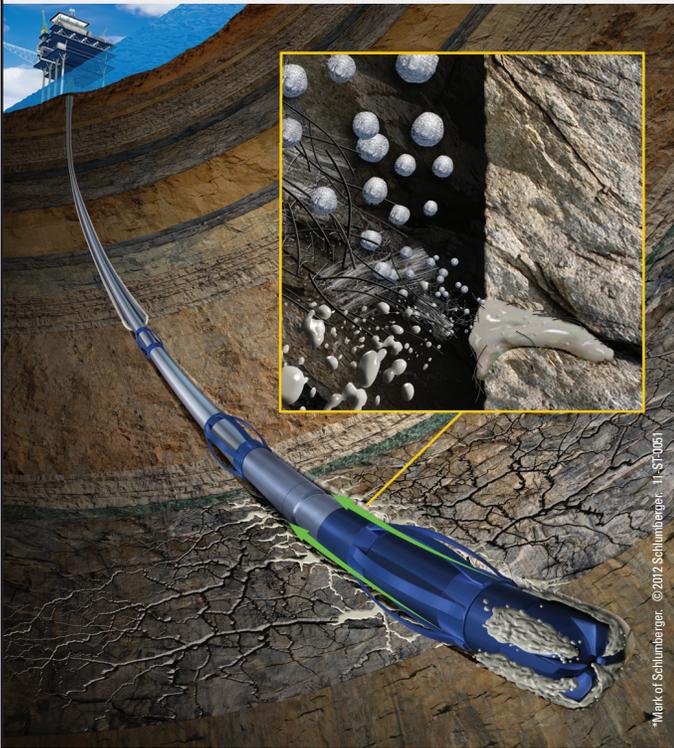
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INNOVATIVE TECHNOLOGY FOR REMOVING STUCK TUBULARS

Remote Drilling Services – New Concepts Enable More Accurate and Timely Decisions

Speaker: Andreas Sadlier
Baker Hughes

Date & Time: 11:30 a.m. - luncheon
Wednesday, March 14

Location: Greenspoint Club
16925 Northchase Drive
Houston, TX 77060

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

Registration: www.spegcs.org
Deadline: Noon, Monday, March 12

Remote operations centers are often considered basic data monitoring facilities or a means to provide remote technical support, usually after a problem has occurred. However, with increased drilling costs, shortage of available expertise, and the safety related issues with personnel at the wellsite, providing interpretation and advisory services remotely has received greater interest and consideration.

Remote centers enable scarce subject matter experts (SMEs) to work on multiple, geographically dispersed wellsite operations concurrently without having to be on location. They also facilitate the ability for multiple experts to assemble quickly and collaborate to solve complex challenges on a single operation without the HSE risk of additional personnel in the field.

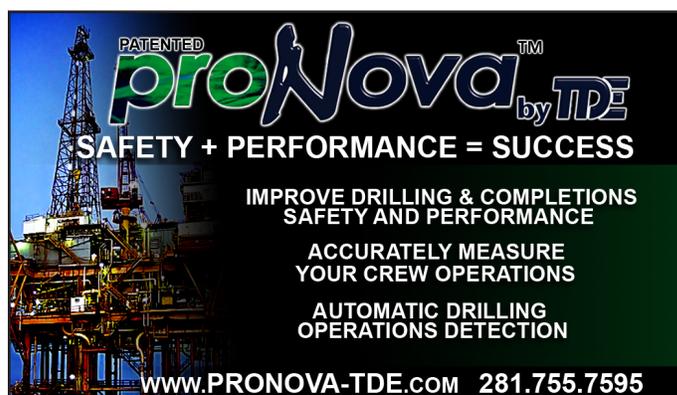
This presentation outlines capabilities such as data aggregation, remote visualization, and advanced decision support needed to ensure successful remote service delivery. Other industries have used predictive analytics, decision modeling, and pattern recognition to detect credit card fraud, estimate risk and event probability for actuaries, optimize marketing campaigns, or predict equipment failures. They achieve this by coupling historical data patterns, predictive models, and real-time data streams using complex event-processing technologies. Enhanced decision-making capabilities will enable remote drilling

operations centers to provide the best advice faster and more consistently to reduce unplanned events, minimize risk, and optimize drilling efficiency.

Andreas Sadlier is the Product Manager at Baker Hughes for Remote Drilling Services responsible for bringing innovative remote visualization and interpretation services into the marketplace. He joined Baker Hughes in 2007 with the marketing services group in drill bit systems where he led their technical software team to develop and support various marketing intelligence systems. There he also led much of the technology development for the launch of the weekly Baker Hughes Rig Count geographic information systems (GIS) map. More recently, he worked in the US Gulf of Mexico region to bring the remote service center online and launch the real-time remote pressure management service. Prior to joining Baker Hughes, he worked as a senior technology consultant for a business and data solutions provider delivering custom software platforms to customers in their oil and gas business segment.



Sadlier holds a BS degree in mechanical engineering from Louisiana State University as well as an MBA from Sam Houston State University. He is a member of SPE and the Product Development and Management Association (PDMA). He is also a member of the SPE Drilling Systems Automation Technical Section (DSATS) and has coauthored and presented a number of pieces on remote services and drilling automation topics.



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Courses at the SPE Houston Training Center

6 March	Practical Aspects of CO ₂ Flooding EOR and Introduction to CO ₂ Geosequestration	Charles Fox, Michael Stein, Sam Avasthi, Jay Avasthi
22–23 March	Modern Production Data Analysis of Unconventional Reservoirs	David Anderson
26–27 March	Reservoir Simulation for Practical Decision Making	Miles Palke, Dean Rietz
11–12 April	Fundamentals of Reservoir Description and Modeling with Geostatistics Reservoir Descriptions and Dynamics	David Ogbe

Live Webinar

23 February 8:30 AM CST	Estimating Reserves in Unconventional Resources	John Lee
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Courses at SPE Events

27–28 March	SPE Coiled Tubing and Well Intervention Conference and Exhibition, The Woodlands	
16–18 April	SPE Latin American and Caribbean Petroleum Engineering Conference, Mexico City	
24–27 April	ASME-IPTI/SPE Petroleum Training Week, Houston	

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Leveraging Experience to Make the Extraordinary Ordinary: Hydraulic Fracturing Tight Gas under HP/HT Conditions

Speaker: Mark Machala
Halliburton

Date & Time: 11:30 a.m. - luncheon
Tuesday, March 13

Location: Greenspoint Club
16925 Northchase
Houston, TX 77060

Cost: \$30 per member preregistered
\$35 for nonmembers preregistered
\$40 for walk-ins

Registration: www.spegcs.org
Deadline: Noon, Friday, March 9

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.

Oil and gas exploration and production companies searching for viable commercial production have been required to venture deeper into the Earth's crust and consequently have been forced to contend with extreme environments in the form of hotter working temperatures and higher pressures. These conditions have become commonplace in that the companies operating under high pressures and high temperatures (HP/HT) have been contending with these conditions on a near-daily basis for the past two to three decades in North America, depending on their region of operation.

Topics to be discussed are wellhead equipment, such as wellhead isolation tools and fracture valves, fracturing-pump equipment and blenders, logistics planning, the proper application of stimulation "iron" (2-in. 1502 and 3-in. flanged connections), fracturing materials for gelling, crosslinking, and nonemulsifying, and ways to effectively prop hydraulic fractures at high temperatures. Also, pump-in minifrac tests and pressure-decline diagnostics performed to help service companies and operators deliver a safe and effective method for HP/HT hydraulic fracturing on a consistent basis will be explained.

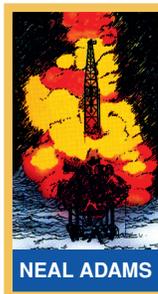
This presentation is intended to provide a better understanding of the many components that should be addressed when preparing for a HP/HT treatment so that operators can apply these components to any field anywhere in the world.

Suggested reference: SPE 140815: Leveraging Experience to Make the Extraordinary Ordinary: Hydraulic Fracturing Tight Gas under HP/HT Conditions by Mark E. Keller, Mark Machala, and Stephen Drylie, SPE, Halliburton

Mark Machala has served as the Team Lead for Unconventional Resources in Halliburton's Global Technical Solutions Group in Houston, Texas, since 2007. He has 34 years of experience in the oil and gas industry and has spent 19 years with Halliburton, where he got his start as a fracturing engineer, designing and executing massive hydraulic fracturing treatments in "tight gas" formations. In recent years, Machala's work has primarily focused on fracturing operations and production enhancement technologies. He is a two-time recipient of Halliburton's prestigious MVP Award—once in 2000 for his work on a highly successful fracturing campaign in the North Sea, and again in 2009 for his efforts on a deep tight gas fracturing project in Saudi Arabia.



Machala earned his BS degree in agricultural engineering from Texas A&M University and has worked extensively on both domestic and international projects, including a 7-year tenure in Algeria. He is a long-time member of SPE and is the coauthor of several SPE technical papers on fracturing in tight gas reservoirs.



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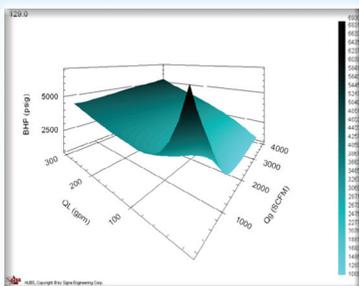


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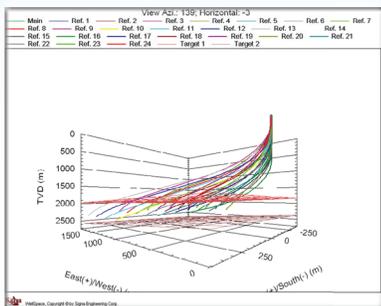
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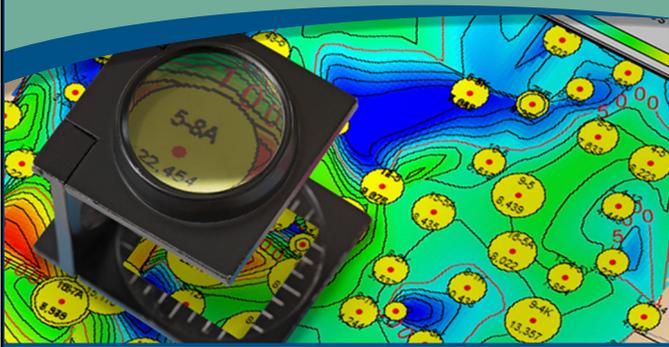
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Do You Really Know Where Your Well is?

Speaker: James M. Stolle
TGS Geological Products

Date & Time: 11:30 a.m. - luncheon
Tuesday, April 10

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
Deadline: Noon, Friday, April 6

Directional survey data provides critical well-control information on the spatial positioning of drilled wells and their 2D/3D well paths. Geologists, geophysicists, and engineers rely on properly located well paths for their diverse efforts. Very few in these disciplines would recognize the many ways well paths can be located incorrectly. As an interpreter, I was clueless about the issues of well-path positioning.

There are two main issues adversely affecting those that use well-path control. One is the issue of whether the maps or databases being used represent all the drilled well paths/wellbores. Second, are the wells in the right place? It might be better to say, "Are they spatially correct?," as there are also the important elements of depth and elevation that need to be considered. Incorrectly positioned well-path control can certainly adversely affect the efforts of geologists, geophysicists, and engineers. Care needs to be taken to make sure well-path control is complete and spatially correct. Else, they can also cause expensive, multi-million-dollar mistakes, like drilling wells in the wrong place (sometimes on somebody else's leases), decisions to lease the wrong acreage, and drilling wells that did not need to be drilled.

James M. Stolle is the Directional Survey Data Business Development Manager for TGS Geological Products. The first half of his career of over 37 years was in exploration and development operations and interpretation, initially as a geologist progressing to geological/geophysical interpreter. Some of the areas of interpretation were onshore and offshore California, offshore Alaska, Nevada, Canada, Rockies, Gulf of Mexico, and the North Sea.

Stolle has led projects building directional survey data in the Gulf of Mexico, onshore So. Louisiana Gulf Coast, onshore Texas Gulf Coast, Texas bays and inland waters, Texas Barnett Shale area, the Haynesville play, and Beverly Hills, California. These projects have resulted in almost 100,000 wells with directional surveys. Directional survey efforts provided an invaluable education on API numbering and particularly on what does and does not work with the current API Well Numbering standard. In 1996, Stolle organized an industry API symposium to review the API number, its function, weaknesses, and needed enhancements. Well data integration problems resulting from API numbers became obvious as did the realization that these problems will not fix themselves. Stolle is currently one of the Co-chairman of the PPDM's steering committee over the effort to rewrite the API D12A Well Numbering standard.

Stolle attended Oregon State University and later Brigham Young University. He received a BS in geology, and subsequently an MS in geology with a specialty in stratigraphy.

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- Speaker:** Hans Evald Henriksen
Minox Process Systems
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Tuesday, March 20
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- Cost:** \$35 per member preregistered
\$40 for nonmembers preregistered
\$45 for walk-ins
- Registration:** www.spegcs.org
- Deadline:** Noon, Friday, March 16

The Minox Deoxygenation process is based upon gas stripping of dissolved oxygen from water in a closed loop of circulating nitrogen gas, in which the oxygen is being removed in a low temperature catalytic process. The process operates on positive pressure, thus the booster pump step prior to the injection pumps may be eliminated. Since 1992, about 30 systems have been delivered world-wide. Minox units are installed on fixed platforms, ppars, FPSOs and onshore facilities. During the years the process has been continuously developed and improved and today it is a reliable, robust and field proven technology.

The presentation will explain the principle of the technology, alternative set-up and give examples of recent systems that have been put in operation.

Hans Evald Henriksen is the Global Sales and Marketing Manager for Minox Process System of the Grenland Group. He has been in this position for the past 5 years.



Prior to the Grenland Group, Henriksen spent more than 15 years with Ciba Specialty Chemicals. In this position he was responsible for sales to the polymer and oil industry and oilfield chemicals in Norway and Scandinavia.

Henriksen has a BSc in Chemical Engineering.

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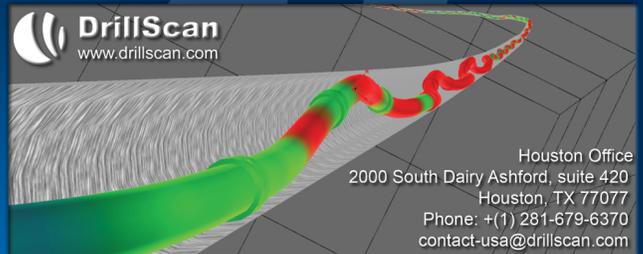
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Gulf Coast Section

Reservoir Engineering Technology Symposium

Mark your calendars!

Friday, May 11, 2012

8:00 AM to 3:30 PM

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Releasing Shale-Gas with Fractured Horizontal Wells

SPE Distinguished Lecturer 2011-12

Speaker:	Erdal Ozkan Colorado School of Mines
Date & Time:	11:30 a.m. - luncheon Thursday, March 22
Location:	Courtyard on St. James 1885 St. James Place Houston, TX 77056
Cost:	\$35 per member preregistered \$40 for nonmembers preregistered \$45 Walk-ins
Registration:	www.spegcs.org
Deadline:	Noon, Tuesday, March 20

In the last decade, our understanding of shale reservoirs has progressed significantly. It is now agreed that a major factor for the productivity of shale reservoirs is the existence of a pervasive reservoir fracture network around the well. Accordingly, a common practice is to use hydraulically fractured horizontal wells to improve the connection with the reservoir fractures. Flow in these unconventional systems is considered linear in the fractured volume around the well and is usually interpreted with conventional reservoir engineering wisdom. The flaw in this interpretation is an inaccurate accounting of the matrix contribution due to the unconventional nature of flow in nano-darcy shale matrix.

This lecture presents a discussion of the characteristics of shale reservoirs and their impact on the performance of fractured horizontal wells. Various flow mechanisms in shale matrix and fluid transfer from matrix to fracture network are explained. Key parameters of productivity are identified and explained. Emphasis is given to the estimation of the extent of reservoir fracture network, prediction of the efficiency of matrix drainage, and their impact on the estimation of well's drainage volume. The main idea to take away from this lecture is that some conventional reservoir engineering interpretations and practices may not be adequate (or appropriate) for shale reservoirs. For example, hydraulic fracture conductivity is

usually not a key parameter for wells in shale reservoirs. Examples are presented to highlight practices/problems in the interpretation of well performance from fractured horizontal wells in shale reservoirs.

Erdal Ozkan is a Professor of petroleum engineering and Co-director of Marathon Center of Excellence for Reservoir Studies at Colorado School of Mines. Previously, he was on the faculty at Istanbul Technical University, Turkey. His research interests are horizontal well technology, pressure-transient analysis, modeling fluid flow in porous media, and shale reservoirs.



Ozkan is the author or co-author of more than 100 technical papers, co-author of a book, and has contributed chapters to the Well Testing monograph and Reservoir Engineering Handbook of SPE. He has served as the executive editor of *SPEREE*, chief editor of The Journal of Petroleum Science and Engineering, and the associate editor of *JERT*. He has been involved in the organization of several SPE conferences, forums, and workshops, including the recent meetings on shale reservoirs. Ozkan is a member of the SPE R&D Advisory Committee and a Technical Director of the SPE Research and Development Technical Section. He is a Distinguished Member of the SPE and the recipient of the 2007 SPE Formation Evaluation Award.

Ozkan holds BS and MS degrees from Istanbul Technical University and a PhD degree from the University of Tulsa, Oklahoma, all in petroleum engineering.

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Gulf Coast Section

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- \$500.00 _____ **Corporate Sponsor:** As a corporate sponsor, your company name will be on the sponsor board.
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- \$250.00 _____ **Station Sponsor:** As a station sponsor, your company name will appear on the sponsor board. As part of your sponsorship, you will be asked to set up a tent at an assigned station to provide refreshments for shooters throughout the day.

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

Please check the level of sponsorship you wish to choose. All sponsors receive preference on shooting times when possible. All profits will be used for SPE-GCS scholarships, local charities, community service projects, and member services.

Company: _____ Contact Name: _____

Mailing address: _____ Phone(_____) _____

City/State/Zip: _____ Fax(_____) _____

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713-628-3341 grachal@slb.com

SPORTING CLAYS



Subject: 2012 SPE-GCS Sporting Clays Tournament

January 2, 2012

Dear SPE Members, Oil and Gas Industry Associates and Fellow Shooters:

On behalf of the officers and committee members of the 2012 Society of Petroleum Engineers Gulf Coast Section Sporting Clays Tournament, it is my pleasure to announce this year's event. Prior to detailing this year's tournament, I would like to take this opportunity to thank each of you for making last year's tournament a success. ***Due to your incredible support, the tournament contributed more than \$31,000 to the SPE-GCS Scholarship Fund and \$10,000 to the Bright Light Foundation.*** This in itself speaks volumes of the companies and people who make up our industry. Again thank you very much.

For the 2012 tournament, the SPE Committee has decided to hold the tournament at Rio Brazos on Friday the **8th of June**. The management team at Rio Brazos is extremely excited about hosting the tournament again for this year. The facility will be available for practice on the Monday through Thursday preceding the tournament from 12:00 PM to 6:00 PM. **If you would like to rent Golf Carts for the tournament, please contact Rio Brazos at 713-854-5876.**

Please visit the SPE-GCS website (www.spegcs.org) and find the link for the tournament, either call or fax your entries to register teams, sign up for a sponsorship, purchase carts, etc. **Please get your sponsorship and team entries entered early, as the tournament will fill quickly. THERE WILL BE NO ONLINE REGISTRATION THIS YEAR.**

Once again, we are pleased to announce that in addition to the SPE-GCS Scholarship Fund this year the committee has decided to support the Bright Light Foundation (BLF) as our outside charity. The Bright Light Foundation's mission is ***to raise funds, in the spirit of compassion and fun, to assist with the medical needs of those within the oilfield community stricken by catastrophic illness.*** The funds raised by this foundation are distributed among selected families to assist with medical cost due to major illness. Last year this foundation was able to assist seventeen families and I invite each of you to visit the BLF web site to read their stories: www.bright-light-foundation.com. I think everyone will agree with the committee that this is a worthwhile foundation for the funds raised at this year's event.

The tournament is limited to the first 700 shooters (140 five-man teams). Sponsoring companies will receive a shooting spot preference and those with sponsoring levels that include a team will be guaranteed a spot. **At least one team member must be a current SPE member** and TBA's (To Be Announced) participants are acceptable. SPE-GCS reserves the right to limit the number of team entries per company, depending upon the response to the tournament. Door prizes will be awarded and given out after each flight. Trophies will be given to the top three teams in each class and the top male and top female shooters.

Please help make this year's tournament a success by showing your support in purchasing sponsorships, donating door prizes and/or participating in the event. **Your support is vital to the success of the tournament.**

Thank you for your participation and I look forward to seeing everyone on June 8, 2012.

Respectfully,
Tim Riggs
Orange Directional Services
2012 SPE-GCS Sporting Clays Chair
triggs@orangedirectional.com
(713) 201-4290

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Fracture Shadowing: A Direct Method for Determining the Reach and Propagation Pattern of Hydraulic Fractures in Horizontal Wells

Speaker:	Ali Daneshy Daneshy Consultants International
Date & Time:	11:30 a.m. - luncheon Wednesday, March 21
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
Deadline:	Noon, Monday, March 19

Please print and bring credit card receipt if paid on-line

This presentation will report on the results of field measurements in four horizontal wells, all of which were fractured in the course of this investigation, with a total of 68 fractures. The engineering basis for these measurements was the detection of fracture shadowing created by the extending fractures. The results are used to develop a field-based engineering foundation for the determination of fracture orientation and extent, spacing between wells, and optimum number and spacing between fracture stages.

All of the created fractures had a consistent northeast-southwest orientation. Many were asymmetrical with respect to the wellbore. Their propagation pattern was off-balance, and none of them intersected any of the many other existing fractures within the experiment's domain. Some of the fractures had intersected and extended beyond the adjacent cased horizontal holes. The results provided working approximations of the created fracture lengths. The major advantages of the proposed approach are simplicity of operations and consistency of results.

Ali Daneshy is President of Daneshy Consultants International and an Adjunct Professor at the University of Houston. He has over 40 years of experience in both the theoretical and operational aspects of hydraulic fracturing, with virtually all of his present activities focused on horizontal wells.

Daneshy holds an MS degree from the University of Tehran in mining engineering, an MS from the University of Minnesota and a PhD from the University of Missouri-Rolla, both in mining engineering (rock mechanics). He is a past SPE Distinguished Lecturer (hydraulic fracturing), an SPE Distinguished Member and received the SPE Distinguished Service Award for his contributions to hydraulic fracturing.



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Please join SPE-GCS Young Professionals for an evening of painting at Painting With a Twist. Come out to catch up with your fellow YPs, socialize, and paint at the same time. Please check the SPE website, www.SPEGCS.org for more information.



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

SPE-GCS Young Professionals Executive Club

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

1. Attend SPE YP Networking events (100 points per event attended)
2. Attend SPE YP Professional events (225 points per event attended)
3. Volunteer for SPE YP events (50 points per hour volunteered)

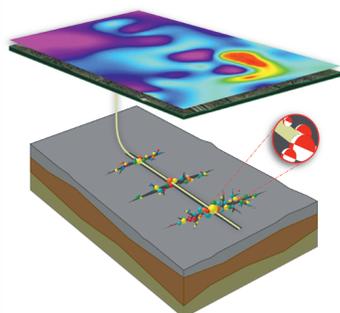
We certainly hope you become either a Platinum, Gold or Silver member of the Executive Club soon. For questions or inquiries, please contact **Sanup Sebastian at sanupmathew@gmail.com**.

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 (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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March Events

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1	2	3
4	5	6	7	8 Gen Meeting, p3	9 Auxiliary, p6	10
11	12	13 Northside, p17	14 Drilling, p15	15 Board Meeting, p4 <hr/> YP, p30	16	17
18	19	20 PF&C, p23	21 Digital Energy, p11 <hr/> Westside, p29	22 Reservoir, p25	23	24
25	26	27	28 Bus Dev, p7 <hr/> C & P, p9	29	30	31