General Meeting: 
  Shale Gas, 
  Emerging Fundamentals & 
  Geopolitics

Reservoir Technology 
Symposium 
May 11, 2012

Oil Patch Orientation 
May 9, 2012

Annual Awards Banquet 
May 23, 2012
Respecting our Past, Honoring our Present, and Building for our Future

This month, the Gulf Coast Section will be hosting a celebration to recognize the achievements of its past, current, and future members at the annual Awards Banquet. The evening reception will be held at the historic Rice Hotel in downtown Houston. Marc Vandermeer, better known as the Voice of the Houston Texans, will once again be on hand to provide us a good, lively show with his entertaining dialogue as emcee for the banquet. He definitely has a way with words, and we are very fortunate to have Marc back year after year.

The annual banquet is a social gathering that allows members of our section to “respect our past, honor our present, and build for our future.” What do I mean by this? Well, the span of recognitions during the evening will cover a pretty broad spectrum of people who have, who had, or who will make an impact on our Section and our industry.

First of all, we will be honoring our respected SPE members who have dedicated fifty years of commitment to our professional society. They will be recognized as new incoming members of the prestigious Legion of Honor. Fifty years! Considering that the oil industry in the United States is roughly 150 years old, a third of that time period has been witnessed first-hand by these distinguished individuals. Can you imagine all of the wonderful stories that could be told from their perspective as the oil industry changed and evolved over the years? Truly amazing.

Secondly, our Section will be recognizing our local and regional members, our committee volunteers, and various organizations that have had distinguished accomplishments in our industry throughout the program year. Traditionally, the honors have included Section and Regional Service Awards, Outstanding Study Group Award, Outstanding Committee Award, SPE-GCS nominees for Engineer and Young Engineer of the Year, as well as Regional Awards for outstanding support, volunteerism, and technical achievements. It’s difficult to fully capture all of the successes that our members have had during the program year, so these nods of recognition display our Section’s continued support to deliver on the mission.

Last, but certainly not least, our Section will award scholarships and renewals for the 2012-2013 academic year to the recipients selected from a pool of local applicants. These bright and talented young people are currently enrolled or will be enrolled in engineering programs at colleges and universities throughout the United States with hopes of eventually joining the petroleum industry in the very near future. Having these students at our banquet allows our Section’s membership to place some names and
Shale Gas,
Emerging Fundamentals and Geopolitics

**Speaker:** Kenneth B. Medlock III
Baker Institute at Rice University

**Date & Time:**
11:30 a.m. - luncheon
Thursday, May 10

**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, May 8

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.”

During the past decade, innovative techniques involving the use of horizontal drilling with hydraulic fracturing have resulted in the rapid growth in production of natural gas from shale. Although geologists have long known about the existence of shale formations, accessing those resources was long held to be near impossible due to the state of technology and cost. But, recent innovations have made shale gas production a commercial reality. This, in turn, has resulted in substantial change in the natural gas supply picture in North America. Moreover, it has had a ripple effect around the globe, not only through displacement of supplies in global trade, but also by fostering a growing interest in shale resource potential in other parts of the world.

Shale gas developments in North America have also pushed some to consider exporting liquefied natural gas (LNG), which represents an about-face from previous expectations. However, many developers missed shale gas in North America, which led to significant ex post negative investments in LNG import capacity. Is it possible this will occur abroad, and if so, what does it mean for the prospect of LNG exports from North America? In addition, how might other convoluting factors, such as the role of exchange rates in determining arbitrage opportunities, influence the prospects for LNG exports? The answer to these questions is as much rooted in international trade and finance as it is in geology and resource availability. Moreover, it has significant implications for the development of markets and geopolitical relationships in the coming decades.

**Kenneth B. Medlock III** is currently the James A. Baker III and Susan G. Baker Fellow in Energy and Resource Economics at the James A. Baker III Institute for Public Policy and Adjunct Professor and Lecturer in the Department of Economics at Rice University. Medlock received his PhD in economics from Rice University in 2000. From May 2000 to May 2001, he held the MD Anderson Fellowship at the Baker Institute. Afterward, he held the position of Corporate Consultant at El Paso Energy Corporation where he was responsible for analysis of North American natural gas, petroleum, and power markets.

Currently, Medlock heads the Baker Institute Energy Forum’s natural gas program, and is a principal in the development of the Rice World Natural Gas Trade Model, which is aimed at assessing the future of international natural gas trade. Medlock also teaches introductory and advanced courses in Energy Economics and supervises undergraduate and graduate students in the Energy Field for the Department of Economics.

Medlock has served as an advisor to the US Department of Energy and the California Energy Commission in their respective energy modeling efforts. He also was the lead modeler of the Modeling Subgroup of the 2003 National Petroleum Council (NPC) study of long-term natural gas markets in North America, and was a contributing author to the California Energy Commission and Western Interstate Energy Board’s *Western Natural Gas Assessment* in 2005. He also contributed to the LNG chapter and Peak Oil deliberations of the 2007 NPC study, *Facing the Hard Truths*, and was involved in the latest NPC study, *North American Resource Development*, as well as the recent *Integrated Energy Policy Report* (IEPR) study of natural gas in the western US.
faces to young people who will craft our industry’s future. In addition, our study group and committee volunteers work very hard to put on excellent programs and events that ultimately support our Section’s scholarship program, so this will be a great opportunity to see the fruits of our labor.

I invite you to attend our SPE-GCS Annual Awards Banquet to come see for yourself how our Section is respecting our past, honoring our present, and building for our future. Who knows who you’ll meet there?

May Board Meeting

The Gulf Coast Section board of directors meeting will be held from 7:30 to 10:30 a.m., Thursday, May 17 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**

**March 2012**

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**Volunteer Spotlight**

**José Carlos “JC” Cunha**

This month we are recognizing an SPE volunteer who basically mentors the whole world on the topic of drilling and completions.

José Carlos “JC” Cunha is Drilling Manager for Ecopetrol America, where he is involved in the offshore operations of the company in the Gulf of Mexico and South America. Prior to this position, JC was Well Operations Manager for Petrobras America in Houston, where he was responsible for the company’s ultra-deepwater drilling program in the GOM.

A very active SPE member, JC is the Chair of the *Journal of Petroleum Technology* Editorial Committee, a member of the SPEI Drilling & Completions Advisory Committee, and chairman of the SPE Drilling TIG, one of the Technical Interest Groups that do online mentoring. A former Associate Editor for *SPE Drilling & Completion*, JC was among the first group of SPE members to be recognized as “A Peer Apart” in 2007 for reaching the landmark of 100 or more SPE papers reviewed.

Previously, Cunha was a professor of Petroleum Engineering at the University of Alberta, Canada, where he taught courses on drilling, formation evaluation, and petroleum economics. During his 4.5 years there, he also conducted research on drilling optimization, managed pressure drilling, and risk analysis. Before that, he held several technical and managerial positions for Petrobras and Petrobras International in drilling/completion projects in South America, the GOM, and Africa. JC has a PhD in Petroleum Engineering from the University of Tulsa.

He has authored more than 50 technical articles (including 31 SPE papers) and also wrote chapters for the recently published *SPE Advanced Drilling* book, as well as for the new *SPE Fundamentals of Drilling Engineering* textbook. He has given technical presentations in conferences, seminars, and short courses. JC was an SPE Distinguished Lecturer last year and gave talks to 25 SPE sections in 15 countries.

JC is also on the Program Committees for the upcoming SPE Deepwater Drilling and Completions Conference, to be held June 20-21 in Galveston, TX, as well as for the 2012 SPE ATCE, which will be held October 8-10 in San Antonio, TX.

“Participation in SPE activities has played a major role in my career in terms of both professional and personal development,” Cunha said. “To have the opportunity to give a little back, mainly to our young members, is an honor and a privilege.”

Please renew your SPE membership today!

www.spe.org/join
**AUXILIARY**

Houston SPE AUXILIARY will not meet in May. The next meeting will be in September. If you would like more information, or would like to join our group, please contact Nancy Giffhorn at rgiffhorn@aol.com or at 281-360-4361.

**BOOK CLUB:**
- Date: May 23, 2012
- Time: 10:00 AM
- Book: “Whiter Than Snow” by Sandra Dallas
- Hostess: Maxine Hillman
- Discussion Leader: Lorie Coffelt

The book title is tentative. Book Club will also meet during the summer. For further information contact Lorie Coffelt at 281-859-0057 OR at wrcoffelt@aol.com.

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**Unleashing the Bounty of Marcellus and Utica: Williams’ Atlantic Access and Other Marketing Growth**

**Speakers:**
- Kirk Blackim, Williams Midstream
- Ross Conatser, Williams Transcontinental Gas Pipeline

**Date & Time:**
- 5:00 - 6:00 p.m. - Social Hour
- 6:00 - 7:00 p.m. - Program
- Wednesday, May 23

**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 Deadline:**
- Noon, Monday May 21

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

Production from the Pennsylvania Marcellus shale averaged 1.7 BCFED during the last half of 2011. With continued drilling and over 1000 wells shut-in or still not completed, the surge in production is expected to continue—slowed but not stopped by diminished natural gas prices. Next door in Ohio, the Utica shale is just getting started, fed by the desire for high-value liquids production that is undeterred by gas prices. How will producers find an outlet with markets for this bounty? What are the infrastructure needs? How quickly can they be made available? What will be the combination of domestic and foreign (export) markets? How will they be brought to bear?

**Kirk Blackim** is Manager, Commercial Development, for Williams Midstream, Eastern Region. Blackim is leading the charge with regard to Williams’ growth projects, specifically in Pennsylvania, Ohio, and West Virginia. In his current role, he is responsible for identifying and executing production and asset acquisition opportunities. One of Blackim’s main initiatives will be to create gathering and processing opportunities that can assist Williams in securing commitments to the Atlantic Access, Butler Lateral project, and other natural gas liquids projects for the region.

Prior to joining Williams Midstream in April 2011, Blackim was a partner in Clear Creek Energy Services; owned his own financial consulting business; and worked for Trust Company of the West, Koch Industries, and Kansas Pipeline Operating Company in numerous oil- and gas-related investment and business development roles.

Blackim is a graduate of Washburn University of Topeka, Kansas, graduating with a BBA degree and has passed the Uniform Examination for Certified Public Accountants.

**Ross Conatser** is Senior Marketing Services Representative for Business Development at Williams, Transcontinental Gas Pipeline. Prior to joining Williams, Conatser held positions at Stewart and Stevenson and Dresser-Rand where he managed distributed-generation and gas-compression projects.

He is a graduate of the University of Tulsa where he received a BS in petroleum engineering.

**Terralog Technologies** has opened a new office in Houston specializing in:
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- Los Angeles: 626-305-8460
- Houston: 281-447-5181
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Diagnostic fracture injection testing (DFIT) is an efficient way to derive in-situ information in many rock types. With this technique, a modestly-sized hydraulic fracture is created in the target interval (pay zone or bounding interval) and pressure fall-off during the shut-in period is analyzed to identify fracture closure and an after-closure radial flow period. Injection rate and volume are tailored for interval thickness and leak-off characteristics.

Identification of fracture closure is based on derivative-based diagnostic plots and provides information on rock stress. As well, non-ideal fracture propagation (e.g., fracture height growth, fissure opening, multiple fracture closures) can be identified and evaluated.

After-closure analysis is used to derive rock transmissibility (kh/u) and initial reservoir pressure (Pᵢ). Radial flow is identified and evaluated by type curves and specialty plots.

The parameters derived in DFIT analysis are used to model fracture propagation and optimize fracture design for the indicated reservoir characteristics, and to provide information for reservoir modeling and production forecasting.

The presenter will describe the basic theory and practice of DFIT analysis. Field examples from various locations, completion types and reservoir systems, including shale gas, unconsolidated sand and low-pressure reservoirs, will be reviewed to describe test design and interpretation.

Dave Cramer is an Engineering Fellow in the ConocoPhillips Global Wells Completions Engineering group in Houston, TX. He has over 34 years of experience in designing, implementing and evaluating well stimulation treatments.

Cramer has authored 40 papers, delivered over 160 technical-society presentations on well completion and performance topics, and is a co-inventor of 2 U.S. patents. Industry recognitions include the Henry Mattson Technical Achievement Award by the Denver SPE chapter in 1993 and the SPE International Completions Optimization and Technologies Award in 2011. He was an SPE Distinguished Lecturer from 2003-2004 and the SPE Region Director for the U.S. and Canada Rocky Mountain region from 2004-2007.

Cramer is a registered Professional Engineer in the state of Colorado.
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NATURAL GAS HYDRATES

In Flow Assurance

Colorado School of Mines
Golden, Colorado
May 21-23, 2012

Taught by: E.D. Sloan, C.A. Koh, and A.K. Sum

This course is aimed at engineers and scientists concerned with controlling/managing natural gas hydrate formation during gas/oil production and transportation. Each attendee will receive a CD and hard copy of the course material, including a copy of SPE Monograph Hydrate Engineering, by E.D. Sloan.

The objective of the course is to provide a fundamental review of the practice and theory in natural gas hydrates, with applications primarily in flow assurance.

For information regarding attendance and fees contact: 303-279-5563, email space@mines.edu, http://csmospace.com/events/natgashyd/
Oil Patch Orientation

Speakers: John Farina, Consultant
Ron Hinn, PetroSkills
Brian Musso, MCX
Ken Arnold, Consultant
Marty Stetzer, Consultant

Date & Time: 8:30 a.m. - 5:30 p.m.
Wednesday, May 9

Location: Hilton Westchase Hotel
9999 Westheimer Road
Houston, TX 77042

Cost: $350 per members
$375 for nonmembers & walk-ins

Registration: www.spegcs.org
Deadline: Noon, Monday, May 7

Outline:
* Introduction/Outline of the Day
* The Economics & Future of the Petroleum Industry
* Theory of the Origins of Hydrocarbons
* Reservoir Parameters (eg: Porosity/Permeability)
* Geology of Petroleum & Geophysics
* Drilling Basics
* Well Logging
* Well Completions
* Reservoir Drive Mechanisms
* Production Equipment (sub-surface & surface)
* Midstream & Downstream Topics

This seminar is the most popular SPE-GCS program. The course is designed as non-technical audio-visual guided tour through the oil patch, illustrating the basic equipment and techniques used in the discovery, development and production of petroleum.
May 1919

The oilfields of North and West Texas will soon have YMCA accommodations similar to those in the army cantonments, according to the State Secretary of the YMCA. The plan calls for huts to be set up in the oilfields for the convenience and recreation of workers employed in those areas.

- One of the hottest-selling business machines in oilfield offices is the mimeograph duplicator. (Boomers remember.)
- Spindle Top has its first deep sand producer after 19 years of more or less deep drilling. Gulf Oil’s McFadden #1 came in flowing 250 bbl/day from a depth of approximately 3,000 ft. Most of Spindle Top’s production has come from depths of 700 to 1,000 ft.
- One of the reported biggest logistical needs in the oilfields is paved highways, as dirt roads are not conducive for hauling heavy loads of crude oil or oilfield equipment, and the railroads are badly congested.

May 1926

Chemist and engineer Otto Martin constructs a plant in Sand Springs, Oklahoma designed to extract potentially marketable chemicals from produced salt water. According to Martin, as many as 85 chemicals can potentially be extracted from field brines. (If only it was commercially viable.)

- One of the hot oil sands in the North Texas area is the Swastika sand. (Obviously that symbol predated WW II by quite a bit.)
- Shale gas produced from shallow black shales in eastern Kansas gains popularity, with approximately 1,000 such wells on production and scores more being drilled. Geologists observe that these shallow gas shales are only productive when they are also water-bearing.
- Wildcatters continue to probe Socal beaches for producible oil, with Huntington Beach and Seal Beach as the latest targets.

East Texas crude oil - $0.98/bbl (depending on gravity)

May 1932

With possibly three more years of flowing production in prospect for the East Texas field, area geologists go on record estimating the field’s ultimate oil recovery to be approximately 2,100,000,000 barrels from 100,000 productive acres.

- Oklahoma Governor William Murray issues an executive order to cease all drilling inside the city limits of Oklahoma City for fear of hazards to property and life. The National Guard is put on alert to support the order.
- Reportedly encouraging signs of the recovery of the oil industry in Oklahoma are brought out in the “Five Civilized Tribes Oil Lease Sale” held in Muskogee, in which Indian land sold for an average of $3.90 per acre.
- What are the three leading crude oil producing states circa 1932? Texas, followed distantly by California, and then Oklahoma.

East Texas crude oil - $1.20-2.20/bbl (depending on gravity)
The Rest of the Yarn

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

The ideal solution for Richardson’s financial woes would be to locate a wealthy partner, someone who could fund drilling that might produce enough oil to repay the banks. For most of 1933 loan officers from both of the two largest banks in Dallas and Fort Worth queried their largest customers, but neither proved interested in backing Richardson. Then, in late 1933, Eugene McElvaney, a vice president at First National Bank of Dallas, came up with a new name: Charles E. Marsh, co-owner of several Texas newspapers, including the politically influential Austin American. Marsh, like his Austin neighbors Herman and George Brown of the Brown & Root contracting company, was using his spare cash to bankroll several Texas wildcatters. When McElvaney sent him a telegram at Washington’s Mayflower Hotel, Marsh consented to a meeting.

It is a measure of how totally Sid Richardson cloaked his business in secrecy that the name of Charles Marsh, the man whose backing made Richardson’s fortune possible, remained unknown to Richardson’s family. In all likelihood, Marsh’s name would be lost to history were it not for his subsequent sponsorship of an obscure Texas congressman named Lyndon Johnson. A large man with an even larger ego, Marsh was by every account a self-important blowhard who could be very rude at times. He felt like he could do anything and always wanted to be the great manipulator behind the scenes.

That Marsh and Richardson were polar opposites was obvious. Richardson didn’t care; he just needed money. Marsh’s initial commitment was modest, namely a thirty-thousand-dollar line of credit at First National bank of Dallas. When Richardson quickly drew down that first thirty-thousand dollars, he wanted and needed much more in order to pay off his debt and renew drilling. Marsh resisted extending his line of credit at first, but ultimately negotiated a complicated deal involving First National Bank of Dallas that led to a $210,000 loan followed by another $150,000 loan shortly thereafter. In effect, Richardson had smoozed his way into a partnership that would get him turning to the right again.

Next month, Sid Richardson comes up with the most brazen gamble of his career. (Article excerpted from “The Big Rich.”)

History Quiz

What industry figure is synonymous with the following combination: World War II fighter pilot, bazooka, and completion tools pioneer?

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

Answer to April’s Quiz

In 2002, there were approximately 75,000 retail gasoline stations in China.

Answer to March’s Quiz

The first horizontal oil well was drilled near Texon, Texas in 1929.

Congratulations to March’s winner – Christa Clark with Shell International E&P!!!
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The Losseal® family of reinforced composite mat pills cures static and dynamic mud losses in naturally fractured formations during drilling or prior to cementing once total depth is reached.

In a South American carbonate formation, the use of Losseal mat pills reduced mud losses of 2,000 bbl during drilling without requiring an additional trip, and the cement job was successfully completed without losses.

For more of the story, go to www.slb.com/losseal

Schlumberger
Mark Reynolds is currently at Southwestern Energy where he works in the Fayetteville Shale Drilling group as a Staff Drilling Data Analyst. In this position, he pulls his experiences in data processing, data analysis, and data presentation to improve Southwestern Energy’s work in the natural gas production and mid-stream market.

Mark began developing military avionics systems for General Dynamics and Sikorsky Aircraft. Since 1990, he has been developing Systems and Applications for the Energy Industry including integrated information systems, systems analytics, real-time processing, and operations management.

This presentation explores Southwestern Energy’s focus on learning in solving land-based drilling challenges. Drilling data is examined as an asset to the organization; specifically, the logistics of data asset acquisition and retention, and the potential to improve overall drilling operations. A brief explanation of drilling data acquisition followed by an overview of technologies involved within data acquisition, transmission, storage, visualization, and mining is included with special attention given to industry standards including WITS, WITSML, and PPDM. Finally, a few thoughts about Southwestern Energy’s drilling data vision are shared.
**Gulf Coast Section Awards Banquet**

Speaker: **Felipe Bayon**  
Senior Vice President, Special Projects  
BP

Date & Time: 6:00 p.m. – 10:00 p.m.  
Wednesday, May 23

Location: Rice Hotel  
909 Texas Avenue  
Houston, Texas 77002

Cost: $55 per person preregistered

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

Deadline: Noon, Monday, May 21

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

*Street parking is available after 6 p.m. and valet parking is also available at the Rice Hotel for $10.*

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

The annual SPE-GCS Awards Banquet recognizes the high school seniors and college students who have received an SPE-GCS scholarship for the 2012 academic year. This is a great opportunity to welcome outstanding students into the petroleum industry and to make a positive impression on members of the community. In addition, this event also recognizes our Legion of Honor award recipients as well as our SPE Sectional and Regional award winners. Members of the Legion of Honor have served SPE for fifty years and will be honored for their long-standing commitment to our professional society.

**Felipe Bayon** has 20 years experience in the oil and gas industry in business leadership and technical managerial roles within Exploration and Production (E&P). Previously, he was Regional President Southern Cone for BP and Chief Executive Officer of Pan American Energy (a JV 60% owned by BP), and Head of the BP E&P Executive Office and Colombia Operations Vice President. From 2006 to 2010, he was Chairman to the Argentine chapter of the Latin American Drilling Safety (LADS) organization.

Bayon graduated from Universidad de los Andes, Bogota, Colombia in 1989 with a degree in Mechanical Engineering.

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

Please visit the website for more information or contact James Rodgerson at james.rodgerson@bp.com
The speaker will discuss ethics from a moral reasoning viewpoint in the first part of a three-part study. Among the items that will be covered are: a description of ethics models and misconceptions, moral dilemmas for businesses, the concept of “teaching” ethics, business ethics principles, and a dissection of moral reasoning. The talk will include audience participation in the form of several examples.

This one-hour presentation will result in one Professional Development Hour (1 PDH) for Professional Engineers and others who require ethics courses as part of their certifications.

James Pappas is Vice President for Ultra-Deepwater Programs for RPSEA (Research Partnership to Secure Energy for America) in Sugar Land. Pappas has been involved with SPE for more than 30 years. He has served SPE as a director and chair for various programs and meetings such as the OTC, ATCE, LACPEC and more. He is also past chair of the SPE-GCS.

Pappas has authored over 60 papers, spoken at various conferences, and interviewed on topics such as Monte Carlo reservoir simulation, project management, drilling, government and more.

He holds a BS degree in chemical engineering and a BA in chemistry from the University of Texas at Austin. He also received his MBA from the University of Texas at Tyler.

Pappas received numerous accolades including the SPE-Gulf Coast Section and SPE Gulf Coast Region Service Awards, as well as both the Houston Engineer of the Year in 2007 and Texas Engineer of the Year by the Texas Society of Professional Engineers in 2008. He was selected Distinguished Engineer in Texas by the Texas Engineering Foundation in 2008.

Pappas has been a Registered Professional Engineer in Texas since 1985.

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Shale resource plays often present formidable reservoir-management challenges, particularly with regard to capital utilization and allocation. In spite of significant measurement and analysis, uncertainty typically remains in the physical characteristics of the stimulated reservoir volume (SRV) accessed by hydraulic fracturing, namely: shale permeability, fracture spacing, SRV spatial dimensions, and gas-in-place. To assess the viability and the impact of business and development decisions, a consistent workflow for analyzing well performance and predicting future performance is needed.

In this presentation, well-performance histories of several hundred wells spanning the Haynesville, Woodford, Barnett, Horn River, Montney, and Marcellus Shale plays were investigated with a common and consistent analytical framework that determined a well-productivity measure during transient linear flow, completion pressure losses (between sandface and bottomhole), and the onset of intrafracture interference (internal SRV depletion). Parameters determined from the analyses are key indicators of the combined result of reservoir quality and hydraulic-fracture performance. Results of this multiwell cross-play study provide information about both interplay and intraplay variability and commonality.

**Narayan Nair** is a leader in Object Reservoir’s technology development and directly participates in the R&D for formulating practical and fast methods for analyzing well performance in shale plays. In this capacity and during his four years’ experience with Object Reservoir he has analyzed several hundred wells in the Haynesville, Woodford, Horn River, Montney, and Marcellus Shale plays, focusing on improving capital and operational efficiency for shale well operators.

Nair has an MSE and PhD in petroleum engineering from the University of Texas at Austin.

**Mark Miller** has nearly 38 years of experience as a petroleum engineering practitioner and educator, specializing in reservoir engineering, reservoir simulation, the reservoir engineering aspects of natural gas and naturally fractured reservoirs, thermal oil recovery, and petrophysics. After working for Getty Oil Company in a variety of petroleum engineering capacities, he earned a PhD in petroleum engineering from Stanford University. Miller subsequently served on the petroleum engineering faculty of the University of Texas at Austin until establishing a consulting practice in 2001.
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Logging-while-drilling (LWD) borehole imaging enables a clear, concise 20/20 360-degree view of the borehole structural and sedimentary geology that other services, i.e., gamma ray imaging and seismic, cannot deliver. This enables a very intelligent completion design where faults are avoided that waste huge amounts of pumping-services energy. LWD borehole imaging also enables targeting areas of completion such as brittle or fractured areas. This will bring back great return from the completion investment and can save the customer money by avoiding poor-return areas of very malleable/ductile rock.

The LWD tools are typically a laterolog type of resistivity measurement and can be deployed in wells drilled with water-based drilling mud ranging from a brine to fresh water. The drilling fluids companies are also bringing to market new synthetic oil-based mud substitutes that can enable this service delivery in wells formerly drilled with oil-based mud. LWD borehole imaging also enables you to avoid offset-induced fractures from the neighboring wells’ completion job.

We will review a generic probabilistic value model showing a range on return on investment and the financial potential it can offer. A risk/reward profile will be reviewed showing how it is heavily skewed toward the return and reveals minimal risk exposure.
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Incorporating Judgement and Transparency Into Reserves Evaluation
Ron Harrell, Ryder-Scott

Demonstrating Reasonable Certainty under Principles Based Oil and Gas Reserves Regulations
Rod Sidle, Texas A&M

Session 2  Well/Formation Testing
Moving from Vision to Reality: The State of Optimal Value Testing
Hani Elshahawi, Shell

Mechanistic Rate Decline Analysis in Shale Gas Reservoirs
George Stewart, Weatherford

Mini-frac Tests as a Valuable Tool for Initial Reservoir Pressure in Tight Sands and Shale
Martin Santo, Fekete

Session 3  Shale Oil/Gas
New Algorithms and Integrated Workflow for Tight Gas and Shale Completions
Craig Cipolla, Schlumberger

Probabilistic Reservoir Simulation WF and Unconventional Resource Play: Bakken Case Study
Sunny Luo, Hess

Case History of the Fayetteville Shale Completions
Karen Olsen, Southwestern Energy

Session 4  EOR
Understanding Foam Flow with a New Foam EOR Model Developed from Laboratory and Field Data of the Naturally Fractured Cantarell Field
Jim Erdle, CMG

Enhanced Oil Recovery Pilot Testing Best Practices
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The need to produce oil and gas efficiently, economically, and in an environmentally friendly manner has promoted the development of long extended-reach horizontal and multilateral wells, which enable greater reservoir contact and lower drawdowns to achieve similar rates as conventional wells. However, this increased wellbore length has led to uneven drawdown distribution along such a well, often leading to early breakthrough of water or gas, and causing reduction in oil recovery and uneven sweep of the drainage area. The problem becomes more severe when a heterogeneous reservoir is involved.

To eliminate this problem, flow-control devices have been used widely as a part of completion to control and optimize individual well or overall reservoir performance. The purpose of flow-control devices is to equalize inflow along the length of the wellbore regardless of location and permeability variation; thus, the entire length of the wellbore can contribute to the total production and, thereby, optimize hydrocarbon recovery. They also help prevent annular flow that can often lead to plugging and erosion of screens. Inflow-control devices are choking devices that balance inflow by adding an additional pressure drop at the sandface. They are designed to apply a specific differential pressure at a certain flow rate. The presentation will investigate how and when an inflow-control device can optimize production.

Ding Zhu is Associate Professor and holder of the WD Von Gonten Faculty Fellowship in petroleum engineering at Texas A&M University. Zhu’s main research areas include general production engineering, well stimulation, and complex well performance. She is a coauthor of more than 80 technical papers and the SPE book *Multilateral Wells*. She has been a chairperson and a committee member for many SPE conferences and events and a technical editor for *SPE Production and Operations* journal.

Zhu received a BS degree in mechanical engineering from the Beijing University of Science and Technology, and MS and PhD degrees in petroleum engineering from the University of Texas at Austin.
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This presentation will review the results of a study undertaken to analyze well completion parameters and production data for over 400 Bakken wells in the greater Sanish-Parshall area of North Dakota. The study employed Geographical Information System pattern-recognition techniques along with other data-mining techniques to interpret trends in the datasets. The study incorporated datasets from the North Dakota Industrial Commission O&G Division, public data, and in-house proprietary data.

The study examined trends in the production results for wells completed with frac sleeves and packers, plug-and-perf, and complex completions in an effort to identify differences in productivity and the completion parameters that may have contributed to same. Parameters that were studied, in addition to the type of completion, included frac fluid types and quantities, proppant types and quantities, number of stages and stage lengths, and perforation cluster spacing and length. All parameters analyzed were examined for statistical significance.

The results are significant in that they show that the application of practical data-mining techniques to an intermediate-size shale oil well dataset can reveal key learnings that may not be apparent when working with smaller datasets. The study employed merged reservoir quality proxies, well architectures, completion data, and stimulation data against which production results were placed in the geographical perspective of the Bakken formation for added interpretive value. The results can be employed in the selection of completion systems on the basis of completion time and cost balanced against the production impact of the different systems (frac sleeves, plug-and-perf, and complex systems).

Bill Holcomb is a Senior Applied Engineer for Baker Hughes in their Applied Reservoir Technology group in Tomball, Texas. Holcomb has 37 years of oilfield experience involving conventional sandstone reservoirs in the Rocky Mountains to Gulf Coast frac packs to international experience in the North Sea and China. He has specialized in the application of hydraulic fracturing in both conventional and unconventional reservoirs.

Holcomb received a BS degree in chemistry from Texas A&M University and did additional post-graduate studies at the University of Alabama. Prior to joining Baker Hughes, he worked for BJ Services, Smith Energy Services, and the Western Company of North America, serving in numerous technical, operations, and management roles.
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<td>Kinder Morgan CO2 Company</td>
<td>713-369-9017</td>
<td><a href="mailto:lucy_king@kindermorgan.com">lucy_king@kindermorgan.com</a></td>
</tr>
<tr>
<td>2010-12</td>
<td>Kim Tran</td>
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<tr>
<td>2010-12</td>
<td>Chris Reinsvold</td>
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<td>713-243-2643</td>
<td><a href="mailto:creinsvold@preng.com">creinsvold@preng.com</a></td>
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<tr>
<td>2011-13</td>
<td>Jeff Whittaker</td>
<td>Welltec</td>
<td>281-398-9355</td>
<td><a href="mailto:jwhittaker@welltec.com">jwhittaker@welltec.com</a></td>
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<tr>
<td>2011-13</td>
<td>Marise Mikulis</td>
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<td><a href="mailto:marise.mikulis@bakerhughes.com">marise.mikulis@bakerhughes.com</a></td>
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<tr>
<td>2011-13</td>
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<tr>
<td>Past Chair</td>
<td>Mark Peavy</td>
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<tr>
<td>Regional Director</td>
<td>Sid Smith, Jr</td>
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## Committee Chairs

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<tr>
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<th>Chair</th>
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<tr>
<td>Auxiliary</td>
<td>Paulette Williams</td>
<td><a href="mailto:pegw16209@att.net">pegw16209@att.net</a></td>
</tr>
<tr>
<td>Awards</td>
<td>Kim Tran</td>
<td><a href="mailto:kim.m.tran@gmail.com">kim.m.tran@gmail.com</a></td>
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<tr>
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<td>John Patterson</td>
<td><a href="mailto:john.c.patterson@conocophillips.com">john.c.patterson@conocophillips.com</a></td>
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<tr>
<td>Golf</td>
<td>Cameron Conway</td>
<td>ConocoPhillips</td>
</tr>
<tr>
<td>Internships</td>
<td>Rey Saludares</td>
<td><a href="mailto:rey.saludares@anadarko.com">rey.saludares@anadarko.com</a></td>
</tr>
<tr>
<td>Magic Suitcase</td>
<td>Sean K. O’Brien</td>
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<tr>
<td>Newsletter</td>
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<tr>
<td>Scholarship</td>
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<tr>
<td>Sporting Clays</td>
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<tr>
<td>Tennis</td>
<td>Jim Sheridan</td>
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<tr>
<td>Web Technology</td>
<td>Subash Kannan</td>
<td><a href="mailto:subash_kannan@yahoo.com">subash_kannan@yahoo.com</a></td>
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## Study Group Chairs

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<tr>
<td>Business Development</td>
<td>Chris Atherton</td>
<td><a href="mailto:chris.atherton@energynet.com">chris.atherton@energynet.com</a></td>
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<tr>
<td>Completions &amp; Production</td>
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<tr>
<td>Digital Energy</td>
<td>Carol Piovesan</td>
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</tr>
<tr>
<td>Drilling</td>
<td>Jack Colborn</td>
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</tr>
<tr>
<td>Drilling &amp; Production Waste Mgmt.</td>
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<td>HSE</td>
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<tr>
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<tr>
<td>Permian Basin</td>
<td>Dan Tobin</td>
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<tr>
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<tr>
<td>Projects, Facilities, Constr.</td>
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<tr>
<td>Reservoir</td>
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<tr>
<td>Westside</td>
<td>Alex McCoy</td>
<td><a href="mailto:alexander_mccoy@oxy.com">alexander_mccoy@oxy.com</a></td>
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### May Events

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