



Gulf Coast Section

FEBRUARY  
2014

# CONNECT

SPE GULF COAST SECTION NEWSLETTER

## How to Design a Well & Execute Well Operations Safely and at Maximum Potential

GENERAL MEETING P. 9

## Measuring and Driving Consistent Drilling Performance – a Drilling Contractor’s Perspective

DRILLING P. 17

## IDENTIFYING AND MANAGING IP IN OIL & GAS TECHNOLOGY DEVELOPMENT – PANEL DISCUSSION

RESEARCH & DEVELOPMENT P. 23

## PERMIAN BASIN PANEL: THE RED HOT WOLFCAMP SHALE PLAY

BUSINESS DEVELOPMENT P. 11



# CHAIRMAN'S CORNER

MIKE STRATHMAN  
*2013-2014 SPE-GCS Chair*

February is approximately half way through the 2013-14 program year for the Gulf Coast Section. Innovation in the types of events has been a common theme. Last month I commented on the new format for the Production Facilities & Construction study group. In December, the Technology Committee hosted a special event to highlight technologies from other industries. This February, the HSSE-SR and the Young Professionals (YPs) will host a movie night intended to be a social and educational opportunity. The movie they will screen is FrackNation, a documentary about one of the key technologies in the news today, fracturing. One of the added value parts of the evening will be an expert panel discussion following the movie. We hope you enjoy this unique event. Check this issue of the Connect Newsletter for more complete details. Please let me know how you like the event.

The SPE-GCS Nominating Committee has selected Simeon Eburi, Chevron Energy Technology Company (CETC), as the 2014 SPE-GCS Young Engineer of the Year. He will receive his award during Houston Engineers Week, February 16-22. The Young Engineer of the Year Banquet will be held February 17, 2014 from 6pm – 9pm. See the Houston Engineers Website, [www.houstonengineersweek.org](http://www.houstonengineersweek.org), for further details. Congratulations to Simeon for his contributions to the SPE Gulf Coast Section and the community.

The Texas A&M University SPE Student Chapter has sold out its three day event designed to promote technical learning and networking opportunities for students, “Increasing Your Field’s IQ: The Digital Oilfield”. This is a forum for students and faculty to network with the industry and discuss technology. Congratulations to Michael Stewart and his team at the Texas A&M University Student Chapter.

## NEW GULF COAST SECTION LEADERSHIP

At the December meeting, the SPE-GCS Board of Directors approved the slate of candidates presented by the Nominating Committee and the Succession Planning Committee for open positions for the 2014-15 program year. There were many qualified candidates considered and we appreciate that so many professional leaders are willing to serve. The bios and photos of the Board of Directors’ approved nominees are on pages 32 and 33.

According to Article VI, Section 3 of the SPE-GCS Bylaws, “... All nominees of the Nominating Committee reported to the Section shall stand as elected unless Section members nominate additional candidates by February 15....”. We ask your support for the Board nominated slate of leaders.

## THOUGHT YOU SHOULD KNOW...

Every year there are members who will miss the annual membership renewal date of 12/31/2013. If you have forgotten, you are not alone. Please renew your membership online at [www.spe.org/renew](http://www.spe.org/renew). Another benefit you should know about is the opportunity to download the membership logo to use on your professional CV, business card, LinkedIn profile, etc. Using it effectively identifies your professional credential with the SPE. [www.spe.org/members/benefits](http://www.spe.org/members/benefits)

Thanks for being a member.

We want you to be involved with the section’s activities and there are lots of ways to be involved. Visit the website and explore the Study Groups of most interest to you or attend an event and bring a friend. I personally welcome your comments and ideas to help the SPE Gulf Coast Section serve you and your career better. Please contact me at [mike-strathman@att.net](mailto:mike-strathman@att.net).

# FEATURES

February 2014

## STUDY GROUPS

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2/6/14

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*Technology Transfer: Powerful Stories of the Unexpected Crossover of Data Analytics Techniques Between Industry Sectors, and What it Could do for Oil & Gas*

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*Fracture Spacing, Well Spacing and Fluid Selection in Pad Fracturing of Horizontal Wells*

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2/26/14

*Permian Basin Panel: The Red Hot Wolfcamp Shale Play*

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*The 'Hard' & 'Soft' Side of the E&P Business*

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*Young Professionals & Northside Study Group*

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### EDUCATION

*2014-2015 SPE-GCS Scholarship*

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*December 2013*

### VOLUNTEER SPOTLIGHT

*Tony Fernandez*

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### THEN & NOW

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### SPE GULF COAST SECTION DIRECTORY

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THU  
February  
13

7:30 AM TO 10:30 AM

## BOARD OF DIRECTORS MEETING

### LOCATION

*SPE Houston Office  
10777 Westheimer Rd.  
Suite 1075  
Houston, TX 77042*

### EVENT CONTACT

*Sharon Harris  
713-457-6821 EXT. 821  
713-779-4216 FAX  
sharris@spe.org*



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# SPE-GCS MEMBERSHIP REPORT

December 2013

DECEMBER 2013      NOVEMBER 2013

Total: 16,545

YP: 3,918

Total: 16,322

YP: 3,789

SPE-GCS Members	DECEMBER		NOVEMBER	
	Total	YP	Total	YP
New Members	137	84	267	115
Reinstated	0	0	0	0
Transferred to Section	10	6	4	2
Unpaid	1,996	684	2,069	700

Student Members	DECEMBER		NOVEMBER	
	Paid	Unpaid	Paid	Unpaid
Texas A&M	904	168	876	172
Rice	54	2	53	2
HCC	138	11	97	11
UH	433	49	414	49
Total	1,529	230	1,440	234

Total Paid/Unpaid	18,074	2,226	17,762	2,303
% Paid	89.0%		88.5%	



## VOLUNTEER SPOTLIGHT

Tony Fernandez

NOBLE ENERGY

This month the SPE Gulf Coast Section would like to recognize Tony Fernandez for his leadership of the 2013 PetroBowl competition at the SPE ATCE in New Orleans. Tony helped formulate the PetroBowl Vision, a plan for qualifying teams for the global competition through regional tournaments, and he and PetroBowl co-chair Sathish Kulathu are mentoring other YP sections around the world on how to run a proper PetroBowl event.

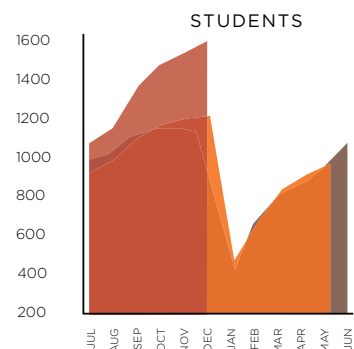
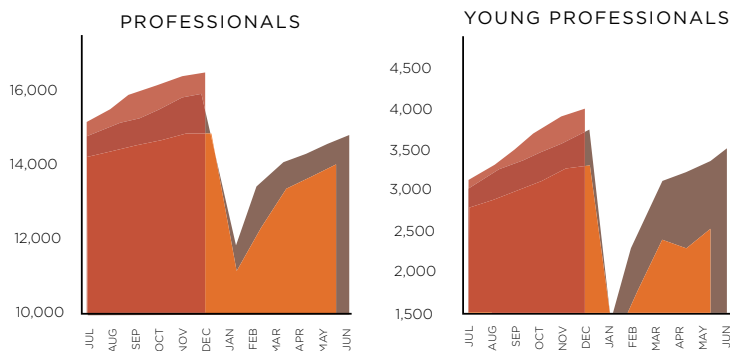
Tony has been very active in our Section's YP program, where he earned the Executive Club Platinum level in 2011 for amassing so many volunteer credits. In 2012-13, he organized the speakers for eight YP Professional Development Dinners, increasing attendance by 60% over the previous year. He put together the YP Salary Survey in 2013, garnering some interesting results that he shared with the Section Board of Directors.

Tony has also been very involved at the international level of SPE as an Editor for *The Way Ahead* magazine, writing the popular interview articles. He did such a good job that he worked his way up to Lead Editor, then Deputy Editor-in-Chief this year, and he will be Editor-in-Chief next year.

In his paying job, Tony is the only reservoir engineer assigned to appraise Noble Energy's Cyprus-A field in the deepwater Mediterranean Sea. He does the modeling and economics himself, and coordinates with representatives from other disciplines to create the optimal field development plan for that asset. Basically, he's in charge of all studies and communications for that project, liaising with upper management and government agencies – quite a weighty responsibility for a young professional!

Tony has a BS in Economics, a Master's degree in Petroleum Engineering, which he earned while working full-time as an economic analyst at Valero, and he is a registered professional engineer in the State of Texas. He serves on the Duke University Admissions Committee and has also raised more than \$20,000 over three years for Multiple Sclerosis research, riding his bicycle from Houston to Austin in the MS-150.

2011-2012      2012-2013      2013-2014



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[spe.org/join](http://spe.org/join)

# THEN & NOW

Column by  
BUDDY WOODROOF



A headline in a Canadian newspaper creates a stir by stating “Jupiter’s Oil Reserves Put at 3,023,761 bbl” (Jupiter Oils, Ltd., a Canadian producer, not the planet!).

An unassuming geologist for Cosden Petroleum in Big Spring, Texas named George H. O’Brien who served in Korea, returns to work after receiving the Congressional Medal of Honor for heroism in capturing an enemy hill despite being shot through his right arm and knocked down three times by mortar fire.

Another former warrior is disrespected by smart-aleck school kids who claimed that February was “Birthington’s Wash-day.” Those of us in the oil patch should recall that not only was George a soldier, but also an engineer, a businessman, and a wildcatter, who could easily have become Father of the Oil Industry had he not been preoccupied as Father of our Country.

The growing concern over the welfare of corporate executives makes news as the company doctor for California’s General Petroleum Corp. makes 250 executives take off a collective 2,500 lbs of excess avoirdupois.

East Texas crude oil - \$2.90/bbl; U.S. active rig count – 2,590



As U.S. rig activity continues to climb, manpower shortages make it a seller’s market for geologists, geophysicists, landmen, and petroleum engineers, with petroleum engineering graduate’s starting salaries forecasted to reach \$40,000 by 1989.

As a show of desperation, Iran refuses to allow a Norwegian jackup to leave Iranian waters for repairs unless a \$22 million deposit is made, for fear that it will not return due to a Norwegian economic boycott of Iran.

A Wall Street secret known to analysts and now revealed to the public is that “The Street” favors oil stocks with lease acreage within a couple hundred miles of a fresh U.S. discovery.

Despite the U.S.G.S.’s latest oil and gas resource estimates of 8 million bbl of oil and 860 billion cubic ft of gas for the mid-Atlantic Baltimore Canyon area, the industry does not appear turned off on the area (Good money after bad?).

U.S. active rig count – 2,630



A power struggle is apparently underway within the family of Iraqi President Saddam Hussein, with him placing his wife under house arrest (Don’t try this at home!), his son Uday reportedly paralyzed after surviving an assassination attempt, and another invasion of Kuwait being heavily debated.

A glimmer of light is seen in efforts to open up Mexico’s E&P efforts to foreign participation, namely in the form of a three-well turnkey Gulf of Campeche drilling contract awarded to Transocean.

The API begins polling its members as to the level of interest in a proposed multimillion-dollar public relations campaign to improve the oil and gas industry’s image.

A U.K. electric utility agrees to take power from a new combined-cycle gas plant to be built at Sutton Bridge, England by Enron Capital & Trade Resources. In return, the utility will provide a related volume of gas to Enron (Caution is warranted here!).

Light sweet crude oil - \$23.48/bbl;  
Natural gas - \$2.36/MMbtu;  
U.S. active rig count – 833

## THE REST OF THE YARN

This month we continue our look back at the life and times of Henry Ford.

Henry’s wife Clara, whom he married in 1888, supported his inventive efforts with total faith. He called her “The Believer.” Finally, in 1903, after a couple of false starts, he and his partners incorporated Ford Motor Company and started selling a few cars.

The automobile market was obviously quite small in those years. Most autos were either inexpensive vehicles lacking power and reliability or expensive hand-built numbers that were out of reach for ordinary people. Most automakers felt the industry’s future would be limited to luxury vehicles.

A few visionary men thought about building an inexpensive, highly dependable, easy-to-repair car that millions of people would buy. R.E. Olds created the first mass-market auto, but lost his financial backing. Ford poured his early profits into research and development, kept refining his ideas, and in October 1908 unveiled his dream car: the Ford Model T, selling for \$825, about half the price of many other cars of the day.

It was a miraculous combination of low cost, simplicity, toughness, and power, and it soon became wildly popular, fulfilling all of Ford's dreams for it. The "Tin Lizzie," as it was nicknamed, was probably the single most important product ever introduced in America—it ushered in the era of mass production, the consumer-driven economy, and opened up a major market for the fledgling oil industry.

Next month, as the Ford Motor Company becomes the world's biggest car company and America's highest profile firm, Henry's dark side begins to emerge.

## Then & Now February QUIZ

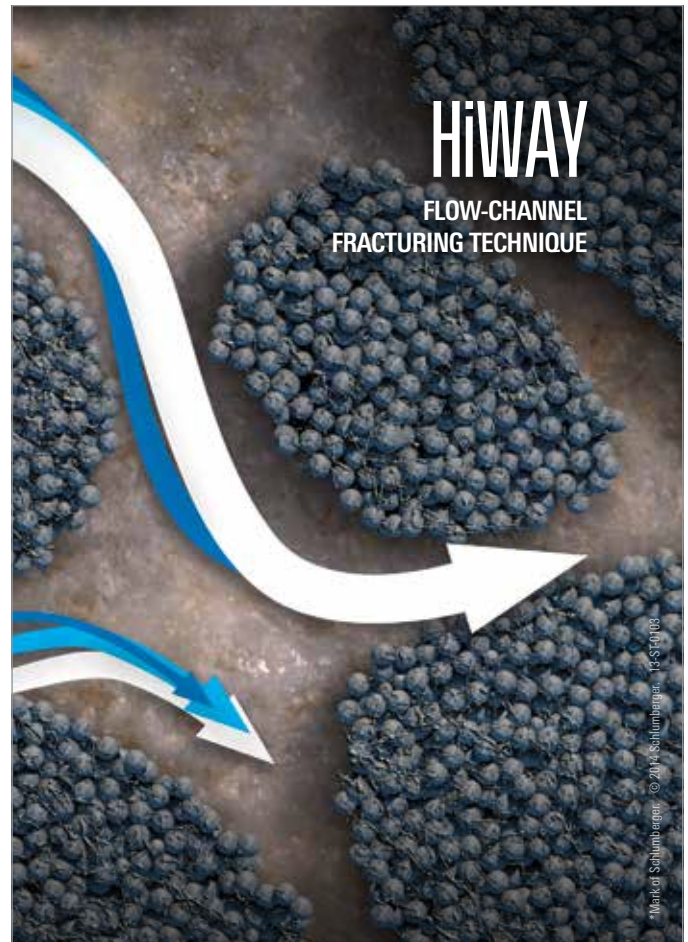
Which of the following operators did not earn \$1 billion or more in calendar year 1979:  
a) Gulf, b) Sohio, c) ARCO,  
d) Texaco, or e) Phillips?

### Answer to January's Quiz

*The country which was the world's seventh largest oil consumer circa 2003 and which was expected to become the fifth largest oil consumer by 2020 was India*

**Congratulations to  
December's Winner  
GAIL GLOVER, DRIL-QUIP, INC.**

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



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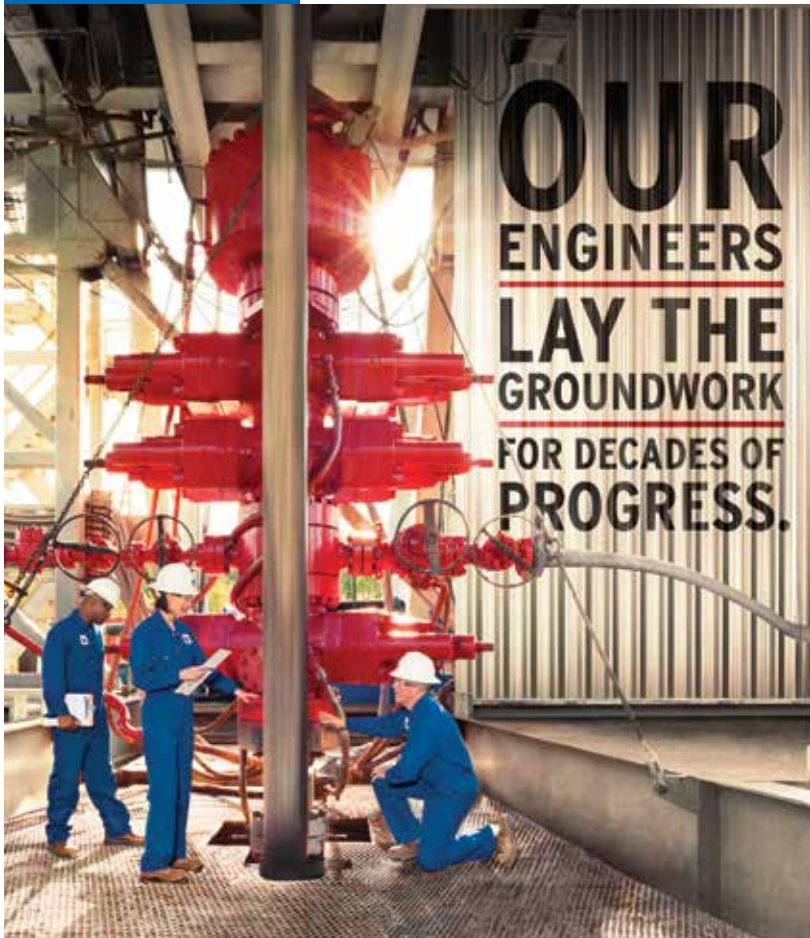
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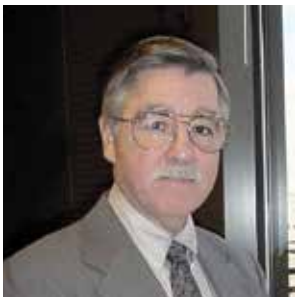
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 Email us at: [info@abrado-intl.com](mailto:info@abrado-intl.com)



# How to Design a Well & Execute Well Operations Safely and at Maximum Potential

The IADC is sponsoring a series of peer-reviewed books about drilling, including *The Driller's Knowledge Book*, which is being peer-reviewed now and should be ready for publication during the first half of 2014. The speakers have drawn on their many years of worldwide drilling experience in compiling the information in this book, and the presentation will cover some of the key ideas discussed in it, such as the importance of proper well design and execution of many different well operations required to drill a well safely and efficiently. The material uses complex well examples to describe how wellbore parameters and conditions, section objectives, final well utility, and risk tradeoffs are used in making critical well design and operational procedures decisions. Another objective of this presentation is to promote, encourage and emphasize the importance of communications and sharing of experiences between engineers and field supervisors when planning a well or a critical procedure and when executing well plans.

## Juan Garcia



Juan Garcia joined Humble Oil & Refining Company after graduating with honors from Texas A&M University. During his 39-year career with Exxon, he worked and managed drilling operations in numerous geographic areas, both domestic and international. When he retired in 2005, he was Drilling Manager for ExxonMobil's worldwide operations. Juan has been an active member of the SPE, the API and the IADC, serving on several national SPE Committees and on the Program Committee for the SPE/IADC Drilling Conference. He has authored several SPE & ASME papers and holds several patents for drilling and completions equipment. He is a Registered Professional Engineer in the State of Texas.

## Dr. Leon Robinson



Dr. Leon Robinson spent 39 years with Humble/Esso/Exxon Production Research before he retired in 1992. He made contributions in many technology areas, such as mud cleaners, explosive drilling, drilling data telemetry, subsurface rock mechanics, modular mud systems, drilling and hydraulic optimization techniques, tertiary oil recovery, on-site drilling workshops, world-wide drilling fluid seminars, and rig site consultation. He currently is teaching drilling courses for PetroSkills. He also serves as chairman of the IADC Technical Publications Committee, is an API task group leader for solids control, and

is a member of the AADE national fluids conference planning committee. He has been awarded 39 US Patents; 22 International Patents; the 1985 SPE Drilling Engineering Award; the SPE Legion of Honor (2003); and has received Service Awards from AADE (1999), API (2006), and IADC (1984 & 2013).

## Event Info

### SPEAKERS

*Juan A. Garcia*  
Drilling Manager, Retired  
ExxonMobil Development Company

*Dr. Leon Robinson*  
Research Scientist, Retired  
Exxon Production Research

### LOCATION

Petroleum Club of Houston  
800 Bell St. 43rd Floor  
Houston, TX 77002

### EVENT CONTACT

*Barry Faulkner*  
281-627-8790  
barryfaulkner@earthlink.net

### MEMBERS

\$35

### NON-MEMBERS

\$40



# Permian Basin Panel: The Red Hot Wolfcamp Shale Play

Join us at the Four Seasons Hotel as we discuss the red hot Wolfcamp Shale play in the Permian Basin and what is behind the headline catching well results, increase in transaction activity, and lack of rental cars and hotel rooms in Midland. The popular format of a Business & Social Networking hour, with complimentary hors d'oeuvres and a cash bar, followed by an hour and a half long program including a Q&A session, will begin at 5:00 PM in the Mezzanine.

The Wolfcamp Shale play has seen a tremendous ramp up in activity in both the Delaware Basin and Midland Basin driven by horizontal drilling and impressive well results. The strong well results have been seen across multiple benches of the Wolfcamp Shale including the A, B, C, and D (Cline) benches. In addition other stacked plays above and below the Wolfcamp, including the Clearfork, Spraberry, Atoka, and Mississippian intervals have shown tremendous potential. Valuations of public companies focused on developing these plays have skyrocketed and valuations on asset transactions have reflected the tremendous potential as well.

What is all the hype about? What is driving these results in a "mature" basin in which so much oil has already been produced? What are the primary differences between the Wolfcamp Shale play in the Delaware Basin vs. Midland Basin? What are operators most excited about in the play going forward? What is the potential of the other horizons above and below the Wolfcamp? What are the key issues that operators face as they go forward developing multiple stacked horizontal laterals? Will transaction activity continue in the Wolfcamp Shale play in 2014?

## Chris Paulsen

Chris Paulsen is VP of Business Development for Pioneer Natural Resources. Since joining Pioneer in 2002, Chris has served in various areas including investor relations, M&A, operations, budgeting and planning and subsurface operations. Over the past several years, Chris has presided over \$2 billion in JVs and asset sales, including the Wolfcamp Joint Venture between Pioneer and Sinochem Group in the southern Midland Basin. Chris has a BBA from Baylor and an MBA from the University of Texas.

## Peter Dillett

Peter will provide a brief geologic overview of the Basins and discuss why the strong well results are supported by favorable geologic characteristics. Peter has a BS in Geology from Wisconsin-Oshkosh, an MS in Geology from Kansas, and an MBA from Tulane.

## Event Info

### SPEAKER

*Chris Paulsen*  
VP, Business Development  
Pioneer Natural Resources

*Speaker2: TBA*

### INTRODUCTION

#### SPEAKER:

*Peter Dillett*  
VP A&D Group  
Wells Fargo Securities

### LOCATION

*Four Seasons Hotel*  
1300 Lamar  
(Between Caroline & Austin)  
Houston, TX 77010

### EVENT CONTACT

*Ricardo Concha*  
ricardo.concha@credit-suisse.com  
713-890-1418

### MEMBERS

*\$40 in advance, \$50 at door*

### NON-MEMBERS

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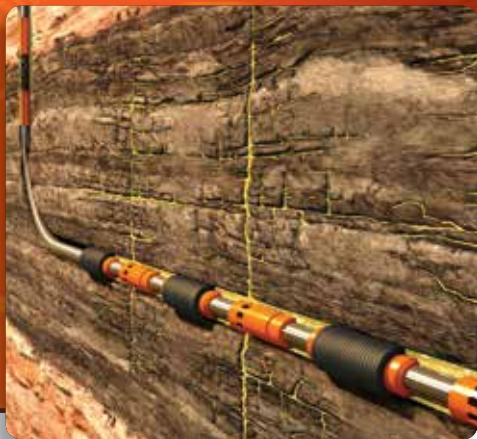
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# Fracture Spacing, Well Spacing and Fluid Selection in Pad Fracturing of Horizontal Wells

This talk addresses some recent advances in answering four key questions that arise when pad drilling and completing wells in unconventional plays:

1. What is the optimum fracture / cluster spacing and sequencing?
2. What is the optimum well spacing?
3. What is the optimum wellbore trajectory for maximizing IPs and long term production (including artificial lift)?
4. Where is the frac water going, and what is its impact on well productivity and EUR?

## Dr. Mukul M. Sharma

Mukul M. Sharma is a professor and holds the "Tex" Moncrief Chair in the Department of Petroleum and Geosystems Engineering at the University of Texas at Austin where he has been for the past 28 years. He served as Chairman of the Department from 2001 to 2005. His current research interests include hydraulic fracturing, oilfield water management, formation damage and improved oil recovery. He has published more than 300 journal articles and conference proceedings and has 12 patents. He founded Austin Geotech Services, an E&P consulting company, in 1996 and co-founded Layline Petroleum and Karsu Petroleum, private E&P companies, in 2006. Sharma has a bachelor's of

technology in chemical engineering from the Indian Institute of Technology and an MS and PhD in chemical and petroleum engineering from the University of Southern California.

Among his many awards, Dr. Sharma is the recipient of the 2009 Lucas Gold Medal, SPE's highest technical award. He is also the recipient of the 2004 SPE Faculty Distinguished Achievement Award, the 2002 Lester C. Uren Award and the 1998 SPE Formation Evaluation Award. He served as an SPE Distinguished Lecturer in 2002, has served on the editorial boards of many journals, and taught and consulted for the industry worldwide.

WED  
February 26

11:30 AM TO 1:00 PM



## Event Info

### SPEAKER

*Dr. Mukul M. Sharma  
Professor  
University of Texas at Austin*

### LOCATION

*Greenspoint Club  
16925 Northchase Drive  
Houston, TX 77060*

### EVENT CONTACT

*Jonathan Godwin  
281-921-6526  
jgodwin@carboceramics.com*

### MEMBERS

*\$35 in advance, \$40 at door*

### NON-MEMBERS

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WED  
February 19

11:30 AM TO 1:00 PM

## Technology Transfer: Powerful Stories of the Unexpected Crossover of Data Analytics Techniques Between Industry Sectors, and What it Could do for Oil & Gas

Founded over 30 years ago, Tessella supplies data analytics, mathematical modeling and specialist engineering software services to the global oil & gas industry. Over this same period, Tessella has also delivered high technology services into other industries, such as space, defense, nuclear energy, transport, “big science” research, and life sciences. At first sight, these sectors appear to have little in common with each other. Our experience is, however, quite different. Despite the world being ever more connected data-wise, it remains relatively poor at sharing knowledge on how to solve complex problems. But look hard enough and you can find, after applying a few twists, that you can link unsolved problems in one domain to solved problems in another. The key is knowing that solutions exist and having the vision to make that translation. Multi-industry experience allows making innovative technology transfer a reality. In this talk, we will present some powerful stories of how techniques and experience from one sector have crossed industry boundaries. With the relentless appetite for data-driven analytics, the potential to exploit this is greater than ever. However, examples of making analytics really deliver are in short supply, so actual experience from any sector becomes all the more valuable. The ability to harness proven solutions, in a form that matches your specific needs, is an essential part of a mature approach to data analytics in any sector.

### Nicholas Clarke

Following a career in academic research, Nick has worked with Tessella in the commercial technology sector since 1999. His wide ranging work has included developing Tessella’s award winning Asset Management and Performance Optimization Software. Moving through technical roles as an analyst and program manager, Nick is now Head of Analytics. The years spent crunching numbers required to model and visualize chemical bond formation are a strong complement to those spent more recently in solving practical problems in the industry. They combine to give Nick great insight into the creative use of data. Nick combines his own knowledge with the weight of his Tessella colleagues’ experience to craft an analytics practice focused upon delivering tools and techniques to improve decision making under the most challenging conditions.



### Event Info

#### SPEAKER

*Nicholas Clarke*  
Head of Analytics  
Tessella

#### LOCATION

Norris Conference Centers -  
Houston/Westchase  
9990 Richmond Ave., Ste. 102  
Houston, TX 77042

#### EVENT CONTACT

*Rick Morneau*  
281-315-9395  
[Rick@MorneauConsulting.com](mailto:Rick@MorneauConsulting.com)

#### MEMBERS

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#### NON-MEMBERS

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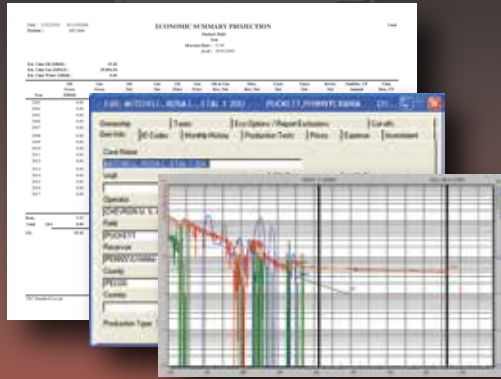
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# Measuring and Driving Consistent Drilling Performance – a Drilling Contractor’s Perspective

As oil and gas wellbore construction becomes increasingly more complex, operators not only expect but demand higher performance from service providers. And with the shift to a more factory drilling approach to land drilling, consistent, repeatable outcomes are critical to minimizing risk in drilling program budgets. This presentation will examine how real-time sensor data and user-friendly rig reports can be leveraged to provide visibility into the daily performance, down to a crew-level detail for operational teams or across the entire rig fleet for the executive team. Armed with this insight, the drilling contractor can quickly identify consistently performing assets and crews and apply their best practices to operations, thereby driving operational excellence.

## Andreas Sadlier

Andreas Sadlier is currently Director of Enterprise Operations Services at Nabors Industries. In this capacity, he is responsible for leading the development of cross-business unit solutions that enhance the operational performance for Nabors services. Prior to joining Nabors in 2013, Sadlier was the Product Line Manager at Baker Hughes for Surface Logging Services. 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 was the Product Manager for Remote Drilling Services, responsible for bringing innovative remote visualization and interpretation services into the marketplace. Sadlier holds a BS in mechanical engineering from Louisiana State University as well as an MBA from Sam Houston State University.

## Clint Ford

Clint Ford is the Director of Business Development for Nabors US Drilling. Following his graduation from Texas A&M University with a BS in Industrial Distribution, Clint began his career with BP in Houston. He held various positions within BP’s Upstream Segment, including roles in Major Projects, Operations, and Drilling and Completions. Shortly after completing his MBA from Arizona State University, Clint joined Nabors in his current position. As the Director of Business Development he supports the executive team in identifying market trends and changing customer drivers, as well as overseeing any external communication and marketing campaigns for Nabors US Drilling Group. In addition, Clint manages several major operator accounts and works closely with the marketing teams by providing relevant market data to support the identification of new leads and the development of activity plans for strategic accounts.

## Event Info

### SPEAKERS

*Andreas Sadlier*  
Director of Enterprise Operations Services  
Nabors Industries

*Clint Ford*  
Director of Business Development  
Nabors Industries

### LOCATION

Petroleum Club  
800 Bell St.  
Houston, TX 77002

### EVENT CONTACT

*Joe Tison*  
wtison@gtwweed.com  
281.784.7805

### MORE INFO

Registration Opens at 11:00  
Lunch Served at 11:30

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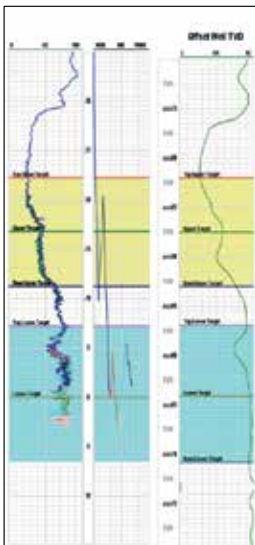
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## Geologic Evolution of the Atlantic Margin Basin and Challenges Associated with Drilling in Deepwater and Below Salt

At the end of the Permian Period over 250 million years ago, the supercontinent of Pangea began to be rifted into the smaller continents we are familiar with today forming the Gulf of Mexico and then the greater Atlantic Ocean basin. This talk briefly discusses the geologic evolution and formation of major salt basins (both layered evaporate complexes and massive halite deposits) along the Atlantic Basin Margin (Gulf of Mexico, Angola/Gabon, and Brazil), and describes several of the key challenges created by massive and layered salt including seismic illumination below and within salt, drilling into, through and out of salt (inclusions, rubble zones, feeders, etc.), and in exploring for prospects below the salt. This talk also reviews several of the key exploration challenges posed by shallow hazards in deep water, including shallow water flows, gas hydrates, pockmarks and other surface features that indicate subsurface instability.

### John Dribus

John Dribus is the Global Geosciences Advisor for Schlumberger Oil Field Services. He is a Reservoir Geologist with over 39 years of experience, and has worked all aspects of petroleum exploration, exploitation, and production geology. He worked five years as a uranium field geologist, and 20 years for Mobil Oil Corporation as a petroleum geologist, including 14 years working the deepwater Gulf of Mexico and subsalt province. He worked the past 13 years for Schlumberger first as Northern Gulf of Mexico Operations Manager for Data and Consulting Services, then as Geoscience Curriculum Director for Data and Consulting Services, and now as Global Geosciences Advisor working deep water basins in the Gulf of Mexico, West Greenland, the Black Sea, the Red Sea, Ghana (Jubilee), Gabon, Angola, Brazil, and Colombia with emphasis on sub-salt and pre-salt exploration.

His expertise is in exploration geosciences, petroleum systems analysis, global deepwater analogs and regional geology, exploring in salt basins, and geological risk analysis. He is the former Chairman of the Advisory Board of the American Petroleum Institute (API) Delta Chapter, serves on the Imperial Barrel Award Committee of the American Association of Petroleum Geologists (AAPG), and is a member of the AAPG (30 years), New Orleans Geological Society (NOGS), Houston Geological Society (HGS), and the Society of Petroleum Engineers (SPE). This year he is the recipient of the 2013 Society of Petroleum Engineers (SPE) Eastern North Americas Regional Reservoir Description and Dynamics Award.

## Event Info

### SPEAKER

*John Dribus  
Global Geosciences Advisor  
Schlumberger Oil Field Services*

### LOCATION

*Greenspoint Club  
16925 Northcase Drive  
Houston, Texas 77060*

### EVENT CONTACT

*Matthew Strom  
281-618-7848  
Matthew\_Strom@swn.com*

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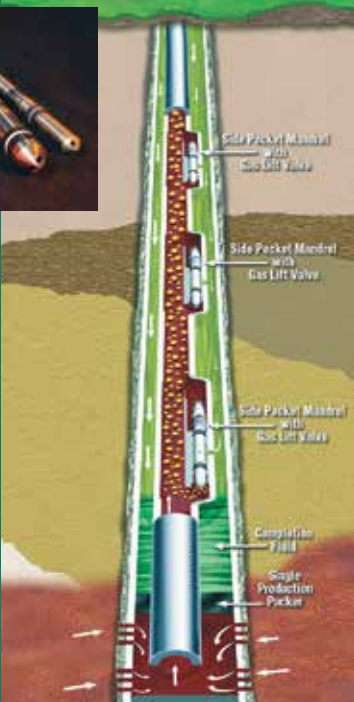
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# Evolution of Completion Designs in the Permian Basin – One Operator’s Adventure

During the course of a multi-well drilling program in the Midland Basin of west Texas, an independent operator was disappointed in the production performance of their vertical Wolfcamp completions. Subsequent post-frac treatment analysis, 3-D fracture modeling, and production history matching indicated that although the current completion program could be considered “adequate” to stimulate the Wolfcamp interval, additional completion effectiveness could be realized through a combination of improved reservoir description (using conventional log data) and optimization of the perforation program and fracture treatment designs.

This presentation discusses the methodology and processes utilized that allowed one operator to go from a “cookie cutter” field development approach to a customized completion program specifically designed and optimized for each individual well.

## Kevin Dunn

Kevin Dunn joined NuTech Energy Alliance in 2011 and is currently a Senior Completion Engineer within the NuStim™ Business Unit, specializing in completion optimization and post-frac treatment analysis. His 20 years of industry experience includes positions at Halliburton, S.A. Holditch & Associates, Goldston Oil Corporation, and Pinnacle Technologies, where he held various engineering assignments in reservoir, drilling, completion, and production engineering. He has consulted on projects both domestically and internationally with small and large independents, major oil companies, super-majors, and national oil companies, personally supervising completion programs in China, Egypt, Colombia, Mexico, Alaska, the North Sea, the U.S., and the Gulf of Mexico. He has taught industry courses and led workshops around the world on hydraulic fracture treatment design and implementation and has co-authored SPE papers on advanced stimulation technologies, fracture treatment diagnostics and analysis, completion optimization, and microseismic fracture mapping. Mr. Dunn earned his Bachelor of Science in Petroleum Engineering from Texas A&M University and is a member of the Society of Petroleum Engineers (SPE).

## Event Info

### SPEAKER

*Kevin Dunn*  
Senior Completion Engineer -  
NuStim™ Business Unit  
NuTech Energy Alliance

### LOCATION

Norris Westchase Center  
9990 Richmond Ave., Suite 102  
Houston, Texas 77042

### EVENT CONTACT

*Amy Timmons*  
713-836-6563  
[Amy.Timmons@Weatherford.com](mailto:Amy.Timmons@Weatherford.com)

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- Completions and Workovers – CAW, Feb 24-28
- Flow Assurance for Offshore Production – FAOP, March 10-14
- Gas Production Engineering – GPO, March 17-21
- Horizontal and Multilateral Wells: Completions and Stimulation – HML2, Feb 17-21
- Production Chemistry – OGPC, March 3-7
- Production Operations 1 – P01, March 17-28
- Well Stimulation: Practical and Applied – WS, Feb 17-21

### Reservoir Engineering

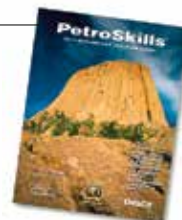
- Applied Reservoir Engineering – RE, Feb 24-March 7
- Basic Reservoir Engineering – BR, Feb 10-14
- Gas Reservoir Management – GRM, March 10-14
- Reservoir Engineering for Other Disciplines – REO, Feb 24-28
- Reservoir Fluid Properties – RFP, March 3-7
- Reservoir Management – RM, March 17-21
- Well Test Design and Analysis – WTA, March 17-21

### Well Construction/Drilling

- Well Construction/Drilling
- Basic Drilling Technology – BDT, Feb 24-28
- Drilling Fluids Technology – DFT, March 17-21
- Drilling Practices – DP, Feb 10-21
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# Identifying and Managing IP in Oil & Gas Technology Development – Panel Discussion

The R&D Study Group will be hosting a panel discussion on Intellectual Property (IP) opportunities and issues in oil & gas technology development. The panel will cover IP from a legal perspective including dealings with the USPTO. In addition, the panel will address the business and commercial aspects of monetizing IP, including licensing and royalties. This will be a highly interactive discussion, so bring your questions about IP.

## Laura Witbeck

Laura Witbeck's practice emphasizes patent prosecution in the areas of materials science and engineering, chemical engineering and mechanical engineering. Notably, Laura has extensive experience in the upstream oil and gas industry, including downhole tools technology, novel materials, manufacturing processes, and mechanical systems. Laura is a graduate of Georgia Institute of Technology with a BS in Materials Sciences and Engineering, and a J.D. from Brigham Young University. She is a member of the Junior League of Houston, Committee member, Houston Livestock Show and Rodeo, Board member, Houston Area Georgia Tech Alumni Association, and Pro Bono attorney for Kids in Need of Defense (KIND).

## Dan Gleitman

Dan started with Halliburton's Sperry Drilling unit 30 years ago, developing downhole tools, and progressing through engineering and program management roles. In his current role Dan oversees the company's patent portfolio, and supports the company's technology ventures function which includes sponsored research, cooperative development, and M&A diligence. Dan holds a BS Engineering degree from Cornell University. He is inventor on 20 US patents, and is a Certified Licensing Professional (CLPTM). Dan is one of the founding sponsors of Houston Technology Center's Energy Program, and has served on boards of RPSEA (Research Partnership to Secure Energy for America) and the AEC (Advanced Energy Consortium).

## Charles Knobloch

Charles is a professional geoscientist and US intellectual property attorney with over 30 years of experience in the oil & gas industry, over 20 of those years with Conoco. He is on the Program Committee for the Houston-based Offshore Technology Conference and chairs their OTC-SEG committee. He was on the steering committee for the Society of Petroleum Engineers – Subsea Facilities Management Advanced Technology Workshop, holds the DuPont Engineering Excellence Award for advancements in seismic imaging, and was a member of the multi-industry team that developed a new method of drilling deep water wells on the seafloor, now being implemented by Chevron. He provides executive and upper management support, including deployment of his "Lost Secrets of Edison" technology commercialization program. He is partner at Arnold, Knobloch & Saunders, LLP, a US patent and intellectual property firm that specializes in strategic positioning of intellectual property around the world.

## Event Info

### SPEAKERS

Laura Witbeck  
IP Attorney  
Osha Liang

Dan Gleitman  
Director, Intellectual Asset  
Management  
Halliburton

Charles Knobloch  
IP Attorney  
Arnold, Knobloch & Saunders

### LOCATION

Norris Conference Center –  
Westchase  
9990 Richmond Ave., Ste. 102  
Houston, Texas 77042

### EVENT CONTACT

Skip Davis  
281-359-8556  
skdavis@technologyintermediaries.com

### MEMBERS

\$35

### NON-MEMBERS

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WED  
February 19

11:30 AM TO 1:00 PM

## Dealing with Extreme Variation in Field Reservoir Pressure and Stress when Hydraulically Fracturing an In-fill Horizontal Well

Well downspacing and in-fill drilling programs are in full swing for many unconventional reservoir plays in the transition to full field development. However, production or completion activities in offset wells can result in significant variations in pressure and stress within the reservoir, sometimes making it difficult to effectively stimulate the new wells. Pressure and stress imbalances can lead to highly asymmetrical fracture growth toward the low stress region. When this happens, hydraulic fracture width is significantly reduced at the junction of the fracture and wellbore.

This presentation is a case study of an in-fill Barnett Shale well exhibiting anomalous treatment behavior, which included proppant bridging (i.e., screen-out or pressure-out) as 100-mesh sand entered the fractures. Persistent pressure-out behavior led to terminating the fracturing program and suspending the well after attempting only two fracturing stages. The root cause of the adverse behavior was diagnosed as extremely variable reservoir pressure and stress, and a field-wide plan was implemented to reduce the pressure and stress imbalance in the vicinity of the problem well. Then, a remedial treatment plan was implemented, including using viscous fracturing fluid to enhance fracture width at the wellbore in order to facilitate proppant entry. A large volume of slick water was incorporated as well to enhance far-field fracture complexity. All nine fracturing stages were pumped to completion as per job design, including restimulation of one of the two previously screened-out treatment stages. Post-stimulation productivity of the treatment and offset wells was excellent. Details of the diagnostic efforts will be described, including offset-well pressure responses during the initial and remedial treatments, and guidelines will be presented for hydraulic fracturing planning and job design for in-fill development wells.

### Dave Cramer

Dave Cramer is a Senior Engineering Fellow with the ConocoPhillips Global Wells Completions Engineering staff in Houston. He has over 36 years of experience in designing, executing and evaluating well stimulation treatments. Dave has authored 44 papers and delivered over 175 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 in 2003-2004 and the SPE Region Director for the U.S. and Canada Rocky Mountain region in 2004-2007. Dave is a registered Professional Engineer in the state of Colorado.



### Event Info

#### SPEAKER

*Dave Cramer*  
Senior Engineering Fellow  
ConocoPhillips

#### LOCATION

Norris Westchase Center  
9990 Richmond Ave., Suite 102  
Houston, Texas 77042

#### EVENT CONTACT

*Andrea Hersey*  
281-646-2805  
[andrea.hersey@momentive.com](mailto:andrea.hersey@momentive.com)

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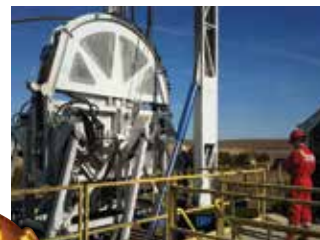
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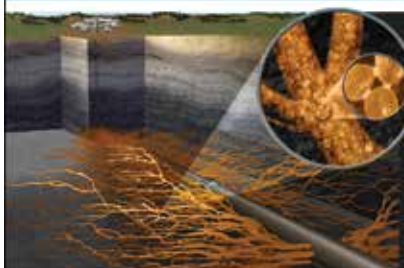
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## Dr. Helge Hove Haldorsen

Helge Hove Haldorsen currently holds the positions of VP Strategy & Portfolio North America and Mexico Country Manager for Statoil in Houston. Helge has an MSc in Petroleum Engineering from The Norwegian Institute of Technology in Trondheim and a PhD in Reservoir Engineering from the University of Texas at Austin. Helge was a Second Lieutenant in The Royal Norwegian Navy and held various positions within reservoir engineering at Esso Exploration Norway in Stavanger, Sohio Petroleum Company in San Francisco and Anchorage and The British Petroleum Company in London. Helge joined Hydro in 1987 and held a number of key management positions with the company: Chief Reservoir Engineer, VP Exploration & Research and President E&P International. After the acquisition of the Houston-based independent 'Spinnaker' by Hydro in 2005, Helge served as the President until the merger with Statoil in October 2007. Helge has served on the Society of Petroleum Engineer's (SPE) Board of Directors for 3 years and he has been an SPE Distinguished Lecturer and a SPE Distinguished Author. He is the author of many technical papers and articles and has been a Professor of Industrial Mathematics at the University of Oslo as well as a lecturer at Stanford University. Helge is currently a member of the Cockrell School of Engineering Advisory Board at The University of Texas at Austin and a member of the OTC Board of Directors. Helge was recently elected to be the 2015 SPE President.



### SPEAKER

*Dr. Helge Hove Haldorsen  
VP Strategy & Portfolio  
and Mexico Country Manager  
Statoil Development and  
Production North America*

### LOCATION

*Houston Downtown (TBA)*

### EVENT CONTACT

*Chiedozie Ekweribe (Dozie)  
405-326-6310  
dozie@chevron.com*

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**5:00 – HAPPY HOUR**

**6:00 – FEATURE FILM: "FRACKNATION"**

**7:30 – INDUSTRY EXPERTS PANEL DISCUSSION**

### DATE

*Thursday, February 20th*

### TIME

*5:00 PM to 8:00 PM*

### LOCATION

*Studio Movie Grill  
805 Town & Country Ln.  
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### COST

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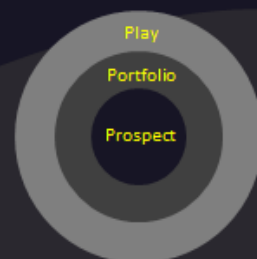
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*Deerwood Country Club  
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## QUESTIONS

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COMMITTEE AUXILIARY

## FEBRUARY ACTIVITIES

### DATE

*Friday, February 14, 2014*

### LOCATION

*Carmelo's Restaurant  
14795 Memorial Drive  
Houston, TX 77079  
281-531-0696*

### TIME

*11:00 AM*

### PROGRAM

*Kathryn Casey, author of  
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### CONTACT

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- Currently reside in Houston OR 29-county Gulf Coast area
- Enroll in an engineering or science program at a university in the Fall
- Be a current high school senior
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- Be a U. S. citizen
- Completely fill out the scholarship form and turn in by deadline: 2/12/2014
- High school academic record
- Activities, awards and honors
- SAT and/or ACT score
- Professional reference letters
- Financial need (if applicable, not required)
- Short essay (approx. 500 words)

*The process:*

- Scholarship committee reviews each application
- Selected applicants are interviewed in the second round (April 2014)
- After the interviews, the scholarship committee meets and collectively decides the 2014-15 scholarship recipients (May 2014)

NOTE: Each 2014-15 first-time scholarship recipient may be eligible for a summer internship with an oil & gas company based on availability.

## More Info

### TO APPLY

Log on to the SPE Gulf Coast Section homepage and select the Scholarship/Internship committee page. A link to instructions and the online application are located in the center.

### QUESTIONS

[gcs-scholarship@spemail.org](mailto:gcs-scholarship@spemail.org)

### INSTRUCTONS

<http://spegcs.org/scholarship-app/instructons/>

### APPLICATON

<http://spegcs.org/forms/2014-2015-Scholarship-Application/>

# New Board Members 2014-2015



**VICE CHAIR:  
DR. IVOR ELLUL**  
RPS Energy / Knowledge  
Reservoir

Ivor Ellul was the principal founder and Chief Executive Officer of Knowledge Reservoir, an energy consulting firm headquartered in Houston, Texas. Knowledge Reservoir is now part of RPS Energy. Dr. Ellul began his career in the oil and gas industry in 1980, in West Germany, as a design engineer on pipeline and storage tank systems. After specializing in the modeling of multiphase flow in pipelines, he worked for a number of years in the area of numerical modeling of single and multi-phase pipelines under steady-state and transient conditions. He has been, and continues to be, involved in various consulting studies in both the upstream and downstream segments of the oil industry for clients worldwide.

Dr. Ellul is industry lecturer to the Petroleum Engineering Department of Imperial College, University of London where he lectures the M.Sc. course on pipeline and process engineering. He has held advisory posts on the board of the Faculty of Petroleum Engineering of the University of Houston and participated on a number of SPE committees at both the regional and the international level. He also contributed to the Journal of Petroleum Technology as Knowledge Management Editor from 2006 to 2011. He was a member of the Advisory Board of Energy Ventures, a Norwegian venture capital firm, from 2005 to 2012. He also presides as Chairman of the board of the Pipeline Simulation Interest Group.

Dr. Ellul holds a BS degree in Mechanical Engineering from the University of Malta and MS and PhD degrees in Petroleum Engineering from Imperial College, London. He is a registered Chartered Engineer in the United Kingdom and a registered Professional Engineer in the state of Texas.



**VICE TREASURER:  
ALEX MCCOY**  
Oxy

Alex W. McCoy is currently employed with Occidental Petroleum's Mid-Continent Division as a reservoir consultant engineer working in Occidental's South Texas Asset. He has worked in several locations in his career with Occidental Petroleum and Mitchell Energy, including Houston, Bakersfield, and the Middle East. His primary career focus has been in subsurface engineering on tight and unconventional gas reservoirs, mainly in the Gulf Coast region.

Alex holds a BS in Petroleum Engineering, a BS in Geology from the University of Tulsa, and an MBA in finance from the University of Texas at Austin. He is a registered professional engineer in the state of Oklahoma and has published one SPE technical paper.

Alex has been an SPE member since 1981 and has been active in the Gulf Coast Section since 2006 in the Westside Study group, serving as Treasurer and Chairman. Presently he is serving as Director-at-Large for the SPE-GCS Board of Directors. He considers it a privilege and honor to volunteer for SPE-GCS.



**SECRETARY: SUNIL  
LAKSHMINARAYAN**  
Weatherford

Sunil Lakshminarayanan is a reservoir engineering professional who is currently leading Weatherford's reservoir related research efforts in the 'Geoscience Development' division. Over the past seven years, Sunil has worked in various departments within Weatherford contributing to operations, consulting and research. He has also been an active volunteer with the SPE GCS Reservoir Study group where he has assumed a variety of roles since 2007. Sunil holds a Bachelor's



degree in Chemical Engineering from the University of Madras, and a Master's degree in Petroleum and Natural Gas Engineering from West Virginia University. Outside of work and professional activities, Sunil is an avid cricket fan and considers himself to be a cricket historian. He is also a dedicated fan of the West Virginia Mountaineers.



**AT-LARGE DIRECTOR:  
JENNY CRONLUND**  
BP

Jenny Cronlund has served as a reservoir engineer for BP throughout her six-year career in the industry, working in the Greater Prudhoe Bay and Milne Point fields in Alaska and in the Anadarko basin. She has tackled complex issues in her career, such as reservoir management strategies for viscous oil and reserves estimation for tight gas fields. She has volunteered in many capacities with SPE, serving as committee chair, secretary and treasurer on the SPE Alaska Section Board and on other boards and committees. Cronlund is an associate editor on SPE's *The Way Ahead* editorial committee, and has served in many civic volunteer roles, including Habitat for Humanity and Girl Scouts Women in Science. She received the Western North America Region Young Member Outstanding Service Award (YMOSA) in 2011, and the SPE YMOSA Award in 2013. She is licensed as a professional engineer in Texas and earned a BS in petroleum engineering from Texas A&M University. She currently resides in Katy, TX with her husband and two little boys, and enjoys running and reading in her spare time (when she has it!).



**AT-LARGE DIRECTOR:  
TORRANCE HAGGERTY**  
Battelle Memorial Institute

Torrance Haggerty is a highly accomplished executive geophysicist with diverse expertise in seismic data processing, geophysical operations and business development, ensuring competitive advantage and business growth for oil and gas industry organizations. He has collaborated with high-level governmental "energy" agencies and officials of various international municipalities to develop and ensure exploration and exploitation opportunities using state-of-the-art technologies and research. Torrance managed licensing and contract involvement in acquiring work permits for implementing technologies into countries and regions where Schlumberger WesternGeco business was emerging. Torrance also did research and analytical trending data of oilfield metrics for development of geophysical emerging

technology to be used in sophisticated modeling and forecasting tools needed to generate unique and high-value research reports for sale and business generation.

Torrance will serve as one of the SPE Gulf Coast Section Directors at Large.



**AT-LARGE DIRECTOR:  
ERIC KOCIAN**  
ExxonMobil

Eric received his Bachelor of Science degree in Petroleum Engineering in 1980 from LSU. He started his career with the Esso Exploration Company in Houston as a Drilling Engineer planning exploration wells in Norway, Zaire, Chad, and Egypt. After several other drilling assignments he moved into a Production Operations Management position for four Gulf of Mexico fields. He then moved into international Production Advisor and Technical Management positions before returning to Houston as the Drilling New Projects Manager. After an assignment as the Upstream Engineering Manager for ExxonMobil's IT organization he returned to production as the Execution Lead for the deployment of digital technologies.

Eric is a 35+ year member of the SPE, has co-authored three SPE papers, is currently an SPE Technical Editor and has been an eMentor to Petroleum Engineering students through SPE's global mentor program. In 2009 he was the recipient of the Gulf Coast Section award for achievements in the Management and Information area for the IT and Digital Oilfield Technical Section.

He was previously a member of the Industry Advisory Committee to the LSU Petroleum Engineering Department and is currently on the Industry Advisory Board to the University of Houston College of Technology.

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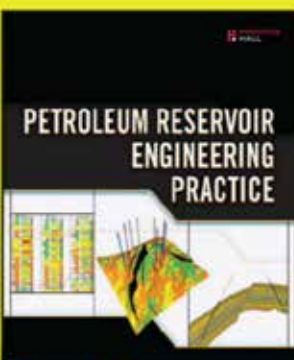
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# CALENDAR

*February 2014*

<i>Sunday</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>	<i>Saturday</i>
						1
		<i>Young Professionals</i>		<i>Research &amp; Development</i>		
2	3	4	5	6	7	8
		<i>Northside</i>	<i>Drilling</i> <i>Student Summit</i>	<i>Board Of Directors</i> <i>General Meeting</i>	<i>Student Summit</i>	
9	10	11	12	<i>Student Summit</i>	13	14
		<i>Permian Basin</i>	<i>Digital Energy</i> <i>Westside</i>	<i>HSSE-SR/</i> <i>Young Professionals</i>		
16	17	18	19	20	21	22
			<i>Completions &amp; Production</i> <i>Business Development</i>			
23	24	25	26	27	28	