CORPORATE LEADERSHIP TO PRIVATE EQUITY-BACKED – PERSPECTIVES FROM BOTH SIDES
INVESTMENT & FINANCE INITIATIVE P. 21

NETWORKING AND MENTORING TO BUILD BENEFICIAL RELATIONSHIPS
CONTINUING EDUCATION P. 17

BUSINESS DEVELOPMENT P. 13

ACCELERATED LEARNING TUTORIAL: AN OVERVIEW OF MULTISTAGE COMPLETION SYSTEMS FOR HYDRAULIC FRAC TURING
CONTINUING EDUCATION P. 18

DOMESTIC AND INTERNATIONAL LNG TRADE AND DEVELOPMENT
INTERNATIONAL P. 9
The professionals of SPE support the delivery of a tremendous natural resource and technical capability that has contributed significantly to the advancement of society. Dr. Helge Hove Haldorsen, 2015 SPE President, would often say that, through our work, we lift people out of poverty by raising the standard of living. He would add that we are a force for good in the communities where we operate. However, we can never forget that significant responsibility comes with the value that we bring to these communities. This month, I challenge industry leaders and SPE members to seriously reflect on the moral imperative to safely explore, develop and deliver the value we create.

In January 2015, the following process safety definition was presented to the Technical Directors serving on the SPE International Board of Directors: “Process Safety - A disciplined framework for managing the integrity of hazardous operating systems and processes by applying good design principles, engineering, and operating and maintenance practices.” The description is based on definitions found in literature for Center for Chemical Process Safety (CCPS), International Association of Oil & Gas Producers (IOGP), American Petroleum Institute (API), and International Association of Drilling Contractors (IADC), and work already done by many industry practitioners. This definition was determined to be inclusive, yet broad enough to allow SPE to focus on how best to apply the definition for benefit of SPE members and member companies.

On June 23 of this year, SPE hosted a Process Safety Meeting in Houston that brought together about 50 individuals representing various organizations. Presenting organizations included SPE, CCPS, API, and IOGP, along with the Mary Kay O’Connor Process Safety Center at Texas A&M University and the Bureau of Safety and Environmental Enforcement. (This is not a comprehensive list of organizations working in process safety for our industry, and not all invited organizations were able to participate.)

I represented SPE at this meeting. The primary objective of the meeting was to gain a better understanding of the work underway by various organizations for both onshore and offshore E&P activities. The meeting also provided an opportunity for stakeholders to network on current practices and internal processes. The group recognized the need to better integrate human factors into our work. It was also recognized that we will benefit significantly from continued efforts to address process safety competencies for SPE members, including addressing certification requirements for process safety practitioners.

During the meeting, Shakeel H. Kadri, the Executive Director of CCPS, presented an overview of the role CCPS has taken in process safety – the CCPS organization and work are impressive. In referencing public perception, he said, “They may not understand what we do, but they understand when we create harm.”
October 2017
CONTENTS

STUDY GROUPS

9 International
10.3.17
Domestic and International LNG Trade and Development

Petro-Tech
10.10.17
Basic Log Analysis and Understanding

10 General Meeting
10.12.17
Application of Extended Exponential Decline Curve Analysis

HSSE-SR
10.17.17
Managing Enterprise Risks as an Independent Exploration and Production Company

11 Permian Basin
10.17.17
The Use of 100-Mesh Sand (and Smaller!) in Unconventionals

Westside
10.18.17
Extending the Life of Unconventional Plays with EOR Optimization and Reservoir Diagnostics

12 Northside
10.19.17
Case History of Cotton Valley Sand Log Interpretation for a North Louisiana Field

Drilling
10.19.17
Digital transformation approach to Holistic Drilling Optimization

13 Reservoir
10.19.17
Understanding the ‘Frac-Hits’ Impact on a Midland Basin Tight-oil Well Production

Business Development
10.25.17
Clash of the Titans – Delaware vs. Midland, and the Rise of the Sub-Basins

14 Completions and Production
10.25.17
Advanced Production and Operation Analytics Results in Better Decisions

Data Analytics
10.25.17
Applying Cognitive Analytics to Offshore Production

COMMITTEES

15 Education
Where Are They Now?
SPE-GCS Scholarship Fund Update

16 Members in Transition
10.3.17
Upstream Oil & Gas Professionals Hiring Event

17 Continuing Education
10.4.17
Networking and Mentoring to Build Beneficial Relationships

18 Continuing Education
10.6.17
Accelerated Learning Tutorial: An Overview of Multistage Completion Systems for Hydraulic Fracturing

19 Members in Transition
10.20.17
21st Seminar Series

21 Investment & Finance Initiative
10.4.17
Corporate Leadership to Private Equity-Backed – Perspectives from Both Sides

22 SPE-GCS Special Event
10.5.17
International Study Group Event with Ecuador Minister of Hydrocarbons

23 Tennis Committee
11.2.17 & 11.3.17
SPE-GCS 34th Annual Tennis Tournament

IN EVERY ISSUE

6 Then & Now
Buddy Woodroof

7 Membership Report
August 2017

8 Volunteer Spotlight
La Kietra "Kiki" Lockett

24 SPE-GCS Student Chapter Section
University of Houston HCC

26 SPE-GCS Directory

STUDY GROUP PRICING
(Unless specified separately)

MEMBERS
$40/$55 Walk-In

NON-MEMBERS
$55

STUDENTS/MIT/RETIRED SPE
$15

BOARD OF DIRECTORS MEETING
THURSDAY, OCTOBER 19
7:30 TO 10:30 AM
HOUSTON SPE OFFICE
including onshore and offshore. To illustrate our industry’s current state, I have listed three participant observations from a much larger set of comments collected after this June’s SPE Process Safety Meeting:

- It would be helpful to have process safety case studies tailored for upstream applications/scenarios.
- Continuing process safety education for engineers is important – CCPS has 60-plus courses; SPE has two.
- While much has been published regarding the importance of culture and leadership in process safety, it would be helpful to develop practical guidance to assist companies with implementation (including addressing the perceived gap between the front line and back office).

These three comments represent significant opportunity for SPE leaders and members to contribute to the moral imperative to safely deliver the value we create. Through our work as a leading organization in the upstream industry, the leaders and members of SPE have a tremendous opportunity to fulfill SPE’s vision to “Enable the global oil and gas E&P industry to share technical knowledge needed to meet the world’s energy needs in a safe and environmentally responsible manner.”

I will leave you with one with a final thought that relates to the future of our industry – the university students of today who will become our leaders of tomorrow. Dr. M. Sam Mannan with the Mary Kay O’Connor Process Safety Center at Texas A&M University was a presenter at the June 2017 SPE Process Safety Meeting. He offered a profound remark: “Is it ethical or moral for any university to offer an engineering degree without a process safety curriculum?”

As many know, the origin of the O’Connor Center is indelibly woven into the memory of the community served by SPE-GCS. The TAMU website states that the center “was established in 1995 in memory of Mary Kay O’Connor, an Operations Superintendent killed in an explosion on October 23, 1989 at the Phillips Petroleum Complex in Pasadena, TX.”

Our fragmented approach in addressing process safety will create ongoing challenges that will impact our ability to learn the lessons, develop our people, prioritize our response, and implement enduring solutions. The charge for SPE is to not only create new learning opportunities, but to seek effective collaborations where it makes sense. The upstream industry will then be able to leverage the shared learnings and best practices of the downstream and chemical industry sectors.

If we seek a long-term, transformative approach aimed at eliminating fatalities for the upstream exploration and production industry, is it time to develop a standard industry process safety certification for upstream engineers and professionals who are designing and developing plans or executing projects? It is certainly within our reach to collaborate with organizations like CCPS and build on existing programs like the CCPS Process Safety Certification. To be truly transformative, we also need to ensure the inclusion of small onshore operators and global players who may have limited resources or nascent knowledge of process safety. Over time, SPE can play a role in sharing and transferring knowledge regarding process safety. As we conduct our daily work, I challenge each of us consider the moral imperative to safely explore, develop and deliver the value we create.

---

1. aiche.org/ccps/about/history 2. centerforoffshoresafety.org/ 3. spe.org/awards/mcconnell.php 4. psc.tamu.edu/about-the-center/history
Isn’t it time to stop manipulating data though the backend, creating manual queries to report in Excel, questioning your application security, getting frustrated with poor scenario comparisons, or using 3rd party tools to enter and edit data?

Entero MOSAIC delivers ASSET INTELLIGENCE to help you do your work faster, with less effort. It is one comprehensive solution that supports corporate, project, and well level processes for reserves, economics, and declines.

- **EFFICIENCY**: Experience up to 50% in productivity gains
- **SPEED**: Go from weeks to hours in entry, editing, evaluating, reconciling, and reporting
- **INTEGRITY**: Have confidence in your data with better visibility
- **TRUST**: Improve security through role based user/data management
- **INSIGHT**: Built-in stored results with scenario comparisons at the portfolio level

Learn more at www.entero.com/mosaic, or call toll-free at 877.261.1820.
Then & Now

OCTOBER 1957
Due to an expected shortfall in forecasted corporate earnings over the next five years, Jersey Standard reports plans to issue the second-largest common stock offering in the annals of US finance to cover capital needs and exploration.

In the absence of an impending war, a Defense Department study reports that the fuel needs of the US military (the oil industry’s biggest single customer) will drop about 1% a year through the early to mid-’60s.

East Texas crude – $3.25/bbl
US rig count – 2,488

OCTOBER 1977
Pemex reports a 32 MMcfd gas discovery in the Vizcaino Desert of Baja California, and talks are underway with California officials on the possibility of laying a Mexico-California gas pipeline.

In the GOM, Shell completes underwater pile-driving at its pioneering Cognac platform site in a record 1,025 ft of water by placing 24 piles, each 625 ft long and weighing 450 tons.

US rig count – 2,101

OCTOBER 1997
Shell and partners Amoco and Exxon begin production from their Ram-Powell TLP in the GOM at a new water depth record for a production platform of 3,214 ft with production rates of 56 MMcfd of gas and 7,300 b/d of condensate.

The Organization of American States, at the request of the Colombian government, issues a report requesting that Oxy and Shell suspend drilling in Colombia’s rain forest until an agreement can be reached with the U’wa indigenous people, who have threatened to commit mass suicide if exploration proceeds on their land.

Light sweet crude – $20.12/bbl
Natural gas – $3.14/MMbtu
US rig count – 998

The Rest of the Yarn
This month we continue our look back at the rise and fall of wildcatter Glenn McCarthy, as he teams up with M.D. Anderson and an up-and-coming young lawyer from Houston.

Cotton magnate M.D. Anderson needed a well drilled in the new oilfield at Conroe. As he had done before, McCarthy begged, borrowed, and “covertly borrowed” most of the needed equipment, sending his men, all of whom worked for food and the promise of an eventual paycheck, sneaking into the woods at night to liberate pipe and barrels of drilling mud from nearby drill sites. When McCarthy couldn’t pay his rig’s rental fee, the owner secured an injunction preventing its use. McCarthy ignored the court order, which worried Anderson enough to bring in a 30-year-old attorney named Leon Jaworski—later to achieve fame as a Watergate prosecutor—to handle things.

McCarthy eventually hit oil for Anderson at Conroe, and soon had a car, a larger apartment, and a reputation. “He was known as a man who could drill a well in half the time it would take a major oil company,” as famed geologist Michel Halbouty recalled, “and a man inclined to raise his fists at every affront whether large, small, or imaginary … but he could charm Lady Godiva off her horse.”

Next month, Jaworski’s first direct contact with McCarthy is a memorable one.

OCTOBER QUIZ
What former mid-sized independent made its way into the big leagues in late 1997 by acquiring $252 million worth of Amoco’s producing properties in the San Juan Basin of northwestern New Mexico?

Answer to September’s Quiz
The name given to the gas field that extended across the “valueless” area stretching from the Four Corners up the western slope of the Rockies in Colorado and Utah is the Piceance gas field (English translation of the original Indian name is “tall grass.”).

May’s Winner
Walt Laflin
How much effect does the divisive political climate in Washington have on wealth planning?

It is easy to conclude everything is riding on what happens in Washington. In our firm’s 46-year history, we have watched 12 Presidential administrations, with the Democrats holding 5 and the Republicans holding 7. Each one has generated speculation about effects on wealth planning, but in retrospect, the outcomes have had only minor influence on our client’s actual progress.

Are you saying people should ignore the political wars?

At a recent Q&A session for a group of clients in Houston, we explained it this way. Political parties have adopted entrenched positions, which appeal to particular groups. Such entrenchment virtually guarantees that Washington will remain occupied by opposing “tribes,” with little interest in collaboration. Thus, economic and tax policies are not likely to change radically over short periods of time. The economy and financial markets are, therefore, not waiting around to see what happens in Washington, because frankly, it is not as important as politicians imply. We do not suggest a “head in the sand” approach, but the quote attributed to Yogi Berra (among others), nails it: “Predictions are difficult, especially if they involve the future.”

To what then should those aspiring for financial success, be paying attention?

The fundamentals – sound wealth decisions on saving, spending, investing, and protecting. When seeking advice, one should make sure the financial advisor has only the individual’s agenda in view and operates within the fiduciary standard, where there is a legal obligation to put the client’s interest first.

Presumably, L&W follows such a fiduciary approach?

Yes. At Linscomb & Williams, we are 100% committed to this fiduciary standard. It gives us focus. Imagine being able to tune out all the “noise” and maintain focus on what brings long-term success. If there is distracting noise in one’s financial life, it’s time to get a second opinion from an experienced firm with no products to sell.

We have a team of professionals - attorneys, MBAs, CPAs, CFA® Charterholders and CFP® Practitioners - to deliver that second opinion, right here at our offices in the Galleria and The Woodlands.
This month the SPE Gulf Coast Section is excited to feature Robert “Buddy” Woodroof and La Kietra “Kiki” Lockett as Volunteers of the Month.

**Robert “Buddy” Woodroof**

Robert “Buddy” Woodroof is the Programs Lead for the SPE-GCS Westside Study Group. Buddy got involved with SPE locally as a study group Program Chair, nationally by writing and presenting technical papers at ATCEs, and internationally serving on the Well Completions Committee and the Distinguished Lecturer Committee.

Buddy’s SPE experiences include being the Westside Study Group Chair and Program Chair; two terms on the Well Completions Committee; multiple terms on the Distinguished Lecturer Committee (including two as Chair); serving as a steering committee member for numerous SPE ATWs and forums; several years served as a judge for the annual ATCE PetroBowl; several years as the GCS Programs Chair; a couple of terms as an API-SPE Subcommittee Chair; 17 years on the GCS Newsletter Committee as editor of the Then & Now column, and Chair of the Gulf Coast Section. In addition to his current duties as the Westside Study Group Chair, he is editor of the newsletter column, an Awards Banquet Committee member, and upcoming ATCE PetroBowl judge.

What motivates Buddy as a volunteer? Highlights include technology transfer opportunities, networking with other technical professionals, and mentoring students and Young Professionals. He especially likes serving as a de facto oilfield history commentator.

Buddy has a degree in chemistry. He began his career as a research chemist for a pumping service company in the R&D division and progressed up to Manager of Chemical Research. This was followed by several years as Region Technical Manager for a pumping service company. Currently, Buddy is Technical Manager for ProTechnics, the completions diagnostic division of Core Laboratories.

Buddy says he is blessed to be able to network via SPE with some of the brightest and best that our industry has to offer both today and tomorrow and have fun doing it.

**La Kietra “Kiki” Lockett**

La Kietra “Kiki” Lockett is an active member of the Society of Petroleum Engineers. For the past six years, she has served as Program Administrator of the PetroTech Study Group, which provides a venue for SPE petroleum engineering and geoscience technicians to exchange knowledge and experience, gain education in new technology and applications, and facilitate the development of professional relationships within the oil and gas industry. Kiki locates and recruits multidisciplinary guest speakers to present topics of interest to PetroTech members, with an emphasis on industry-wide technology.

Kiki’s journey with SPE-GCS began in 2003, when she began her career in the oil and gas industry as a Regulatory Technician with Chevron. The industry piqued Kiki’s interests, and she joined SPE to engage and interact with others in her new field. Her subsequent membership in PetroTech motivated her to become more involved with SPE. Prior to her tenure as Program Administrator, Kiki was PetroTech’s Membership Coordinator. In this role, she recruited new members and served as a reference point for the study group.

Kiki works as a Compliance Analyst for Carrizo Oil and Gas in Houston. At Carrizo, she monitors state and federal regulations; implements health, safety, and environmental programs; and verifies their compliance. Previously, she was a health, safety, and environmental regulatory and compliance specialist with Triple Five Energy Resources, also in Houston.

Volunteering is a passion of Kiki’s, and she gives her time to several organizations. She especially values her work with SPE-GCS and PetroTech because, she says, “I like sharing time with people in my field.”

**Thank you both for all that you do for SPE!**
INTERNATIONAL

Domestic and International LNG Trade and Development

With the US LNG export market on the rise, the International Study Group is hosting an internationally focused LNG discussion. LNG experts from the industry and academia will discuss domestic and global LNG trade and developments, including markets, projects, technologies, and environmental lifecycle research.

ELIAS CORTINA

Elias Cortina provides expertise on gas and LNG market fundamentals. He leads an International Gas Union (IGU) team to develop the Annual IGU LNG Report. He also participates in an IGU study group working to promote market liquidity of LNG.

DR. SARAH MARIE JORDAAN

Dr. Sarah Marie Jordaan has worked on the environmental and economic implications of energy systems aimed at improving science, technology and policy. Some of her recent research has focused on natural gas markets and the environmental implications of expanding international LNG trade.

PETRO-TECH

Basic Log Analysis and Understanding

In petrophysics, there are very few black and white rules. Many techniques can be used to calculate different results. The different calculations used in today’s analysis can have a large impact on the outputs. What is the difference in water saturation calculations? How can we calculate TOC differently? How do you get porosity from the different tools? What can you do if you don’t have a full data suite? What happens with different vintages of logs or different logging companies? What is the critical data for a complete understanding of the reservoir to be characterized?

GALEN DILLEWYN

Galen Dillewyn joined NUTECH in 2009. He is Area Account Manager for Houston, Austin, San Antonio, Corpus Christi, and Louisiana. He has grown and developed NUTECH’s client base as a technical liaison between the end user and the technical group. Previously, he spent nine years with Schlumberger, as a field engineer, operations manager, and in-house technical support for several super majors. Dillewyn holds a bachelor’s degree in chemical engineering from Texas Tech University.
Application of Extended Exponential Decline Curve Analysis

This presentation will discuss updates and progress regarding the use of a modified technique for extended exponential decline curve analysis, which is especially useful in shale reservoirs. In the original Arps paper on decline curve analysis (DCA), the $b$-factor of the hyperbolic equation was assumed to be a constant and limited to values less than or equal to 1.0. However, many literature papers and field observations have shown that the $b$-factor changes with time in shale wells and, in many cases, can be well above 1.0. As a result, evaluators have modified the original DCA to incorporate a $b$-factor greater than 1.0 and a minimum exponential decline rate ($D_{\text{min}}$) at the late-time. Extended Exponential Decline Curve Analysis is an alternative method with advantages to forecast shale well performance without requiring an a priori prediction of $D_{\text{min}}$. It can also be used to calculate the transient $b$-factor over time and determine a value for $D_{\text{min}}$.

Managing Enterprise Risks as an Independent Exploration and Production Company

Risk-taking is a prerequisite to success – without risk, there is no reward. Some risks must be exploited to take advantage of strategic opportunities. Conversely, risks that threaten success must be mitigated. Therefore, companies must identify and evaluate potential events, and manage the associated risks in accordance with their risk appetite, thereby providing some assurance regarding the achievement of their objectives. The Enterprise Risk Management process and the associated governance, structure, methodology, and tools support the identification and effective management of the most significant risks facing the company today.

Application of Extended Exponential Decline Curve Analysis

This presentation will discuss updates and progress regarding the use of a modified technique for extended exponential decline curve analysis, which is especially useful in shale reservoirs. In the original Arps paper on decline curve analysis (DCA), the $b$-factor of the hyperbolic equation was assumed to be a constant and limited to values less than or equal to 1.0. However, many literature papers and field observations have shown that the $b$-factor changes with time in shale wells and, in many cases, can be well above 1.0. As a result, evaluators have modified the original DCA to incorporate a $b$-factor greater than 1.0 and a minimum exponential decline rate ($D_{\text{min}}$) at the late-time. Extended Exponential Decline Curve Analysis is an alternative method with advantages to forecast shale well performance without requiring an a priori prediction of $D_{\text{min}}$. It can also be used to calculate the transient $b$-factor over time and determine a value for $D_{\text{min}}$.

Managing Enterprise Risks as an Independent Exploration and Production Company

Risk-taking is a prerequisite to success – without risk, there is no reward. Some risks must be exploited to take advantage of strategic opportunities. Conversely, risks that threaten success must be mitigated. Therefore, companies must identify and evaluate potential events, and manage the associated risks in accordance with their risk appetite, thereby providing some assurance regarding the achievement of their objectives. The Enterprise Risk Management process and the associated governance, structure, methodology, and tools support the identification and effective management of the most significant risks facing the company today.

PARKING AND ADDITIONAL INFORMATION: Visitor parking is available in the Visitor Garage, levels G-1 and G-2. Parking is metered and payable by credit card only. All visitors must check in on Level 2 at either the Tower Concierge Desk or the Marathon Oil Corporation Reception Desk. Please have photo identification available upon check-in. Lunch will be provided at 11:30, followed by the speaker’s presentation from 12:00–1:00.

JILL NISWONGER

Jill Niswonger is the Enterprise Risk Manager for Marathon Oil Company. Her career includes roles in upstream and downstream with a focus on health, environment and safety, auditing, management systems, and risk. She is an active member of the Corporate Emergency Response Team and has served on committees for API, STEPS and STEER. Niswonger holds a BS from Bowling Green State University and an MS in environmental management from the University of Findlay. She is a Certified Safety Professional with over 20 years of experience.
**PERMIAN BASIN**

**The Use of 100-Mesh Sand (and Smaller!) in Unconventionals**

Historically, the go-to means of reducing fluid leakoff during a hydraulic fracture stimulation was to add 100-mesh sand to the frac fluid. However, in Unconventionals, more and more operators are looking to 100-mesh proppants – and even smaller – to prop open narrow fissures and natural fractures in order to maintain their flow potential when a well is produced. We will explore the potential benefits and drawbacks of 100-mesh-size proppant in stimulation operations for Unconventionals. Consider that 100-mesh is often:

- **A low cost (potentially the lowest cost) option for proppant that is believed to provide the necessary conductivity**
- **A size that is most likely to navigate the variable aperture along the hydraulic fracture**
- **A size that is most likely to be able to enter and prop open a natural fracture**
- **A size/density that is reasonably favorable for proppant transport**

We will also consider operator experiences in pushing toward the use of more 100-mesh and smaller proppants.

**DR. NEAL NAGEL**

Dr. Neal Nagel is Chief Engineer for OilField Geomechanics LLC based in Houston. He is chairman of the Geomechanics Technical Section of SPE, a member of the SPE RDD committee, and a past SPE Distinguished Lecturer. He was chief editor of the 2010 SPE Monograph on Solids Injection, has served on the SPE Drilling and Completions Committee, and is a past local SPE officer. Before beginning consulting work in 2009, he worked for 20 years with ConocoPhillips as a worldwide geomechanics specialist. He has given many SPE, AAPG, HGS, SEG, and SPWLA presentations and authored or co-authored more than 50 technical papers.

---

**WESTSIDE**

**Extending the Life of Unconventional Plays with EOR Optimization and Reservoir Diagnostics**

Enhanced Oil Recovery (EOR) technology in unconventional plays aims to increase ultimate recoveries and extend the economic life of the field. Laboratory procedures and injection protocols have been developed to identify EOR techniques that would be most effective in unconventional reservoirs. Laboratory experiments show significant improvements in oil recovery factors by cycling of in-situ light hydrocarbon gases and subsequent adsorption. Field implementation of these technologies requires diagnostic services to determine if the injection gases are being contained within the target stratigraphic zone(s). These diagnostic data also provide insights into reservoir volume contacted, breakthrough times, and communication pathways. This presentation will focus on EOR optimization techniques performed in conjunction with reservoir diagnostics to extend the life of unconventional plays.

**SWATHIKA JAYAKUMAR**

Swathika Jayakumar is a Region Engineering Advisor on the Global Technology Team at the ProTechnics Division of Core Laboratories in Houston. She has over five years of industry experience, which includes the utilization of tracer diagnostics for completions and IOR/EOR optimization and polymer gel treatments for conformance control in mature fields. Jayakumar has a MS in petroleum engineering from Texas A&M and a BS in chemical engineering from Anna University in India.
**Thursday 10.19.17**

**11:30 AM – 1:00 PM**

**SPEAKERS**

Hani Ibrahim  
Director, Drilling Solutions  
Quantico Energy Solutions

**LOCATION**

The Petroleum Club of Houston  
1201 Louisiana St, 35th floor  
Houston, TX 77002

**EVENT CONTACT**

Tom Wick  
fieldwick2@gmail.com

---

**NORTHSIDE**

**Case History of Cotton Valley Sand Log Interpretation For a North Louisiana Field**

Accurate porosity and water saturation determination of Cotton Valley sandstone is difficult because typical porosities are below 12%. In this range, the errors from log-derived porosity and water saturation values can cause significant misinterpretation of productive potential. Such errors can result from the presence of secondary matrix mineralization, parameters selected to calculate porosity and water saturation, and calibration inaccuracies.

The Cotton Valley sands are a complex intermingling of minerals and carbonates. Carbonates in isolated intervals can account for as much as 50% of the rock matrix. The heavy minerals, when unaccounted for, can result in pessimistic log-derived porosity and, hence, overlooked commercial potential. Also, calibration inaccuracies can result in either optimistic or pessimistic porosity analysis, further confounding commercial evaluation. Variations in grain size coupled with the mineral composition complicate permeability determination.

---

**BRUCE GANER**

Bruce Ganer has over 40 years of experience in oil and gas. He served in a variety of roles at Pennzoil, including as head of Pennzoil Oil & Gas International’s worldwide technical services. In 1997, Ganer founded Sierra Pine Resources International. SPRI has grown into an industry-leading reservoir evaluation and geoscience consulting firm, working on some of the most challenging plays for some of the largest operators in the world. Ganer holds BS degrees in physics and mathematics from Central Michigan University and an MS in petroleum engineering from the University of Houston.

---

**Thursday 10.19.17**

**11:30 AM – 1:00 PM**

**SPEAKER**

Hani Ibrahim  
Director, Drilling Solutions  
Quantico Energy Solutions

**LOCATION**

The Petroleum Club of Houston  
1201 Louisiana St, 35th floor  
Houston, TX 77002

**EVENT CONTACT**

Tom Wick  
fieldwick2@gmail.com

---

**DRILLING**

**Digital Transformation Approach to Holistic Drilling Optimization**

Operators continue to look for solutions that optimize and lower cost and risk, yet provide proven, accurate results. Advancements in digitalization have augmented the ultimate goal of real-time, holistic drilling optimization utilizing all available elements in the drilling environment. The unique solution provides formation characterization through artificial intelligence software that computes the real-time Unconfined Compressive Strength (RT-UCS) of the rock while drilling using Gamma Ray (GR) and sonic logs derived from drilling dynamics via Synthetic Logging While Drilling (SLWD). This solution delivers the same accuracy as conventional logging tools, while reducing the cost and risk of obtaining open hole logs.

---

**HANI IBRAHIM**

Hani Ibrahim’s career encompasses engineering and operations posts in the US, Europe, and the Middle East with operators and service companies with global coverage. Previously, he served as Drilling Advisor and Area Drilling Manager for D&M Schlumberger. Ibrahim has been an SPE member for over 35 years. He has taught many industry seminars and published many SPE papers, mainly on drilling optimization. He has been involved in drilling optimization for over 15 years and in the drilling industry for over 35 years. Ibrahim holds a BS in petroleum engineering from Suez Canal University.

---

**MEMBERS**  
$40/$50 Walk-In

**NON-MEMBERS**  
$50

**STUDENTS/MIT/RETIRED**  
$15

*Pre-Payment must be made at time of registration.*
Understanding the ‘Frac-Hits’ Impact on a Midland Basin Tight-Oil Well Production

The presentation will feature a mechanistic study for understanding the impact of “frac-hits” on the tight oil ultimate recovery. Frac-hits are the invasion of fracturing fluids into an existing producer while a neighboring well is being fractured. Data suggest that substantial amounts of fracturing fluids from offset wells may invade existing producers, indicating a high degree of connectivity.

The presenters assessed the impact of frac-hits on oil production. The results indicate that the impact can be significantly different depending on producing pressure of the impacted wells. Given this, oil production may be optimized by coordinating the fracturing sequence and spacing to avoid frac-hits below the bubble point and avoid re-fracturing in the region below the bubble point.

**DENGEN ZHOU**
Dengen Zhou, a senior gas EOR advisor of Chevron Corporate, holds a PhD in chemical engineering from Technical University of Denmark. He has over 30 years of research and industry experience. His major research interests are gas EOR and tight rock and unconventional resources development.

**HAO SUN**
Hao Sun is a petroleum engineer in the Reservoir and Production Engineering department of Chevron Energy Technology Company. He holds a PhD in chemical engineering from Rice University. He has six years of experience with Chevron working in tight rock unconventional reservoir engineering and gas EOR pilot design/simulation (Midland Basin Shale/Tengiz).

---

**BUSINESS DEVELOPMENT**
Clash of the Titans – Delaware vs. Midland, and the Rise of the Sub-Basins

The Permian Basin has the largest rig activity in the Lower 48. Both the Midland Basin and the Delaware Basin have shown prolific wells and great potential. But from an investor perspective, which is the better investment?

The popular 5-6 PM networking happy hour and the 6-7 PM presentation will be on the third-floor mezzanine.

**MICHAEL WICHTERICH**
Michael Wichterich is founder and Chief Executive Officer of Three Rivers Operating Company III LLC. He founded the initial Permian-focused Three Rivers Operating Company I LLC in 2010 and Three Rivers Operating Company II LLC in 2012. Over the course of five separate sales, through the divestiture of a majority of the assets of both Three Rivers I and Three Rivers II, Wichterich and the Three Rivers team have generated total sales proceeds of more than $2 billion and profits in excess of $1 billion. Wichterich is a graduate of the University of Texas.
COMPLETIONS AND PRODUCTION

Advanced Production and Operation Analytics Results in Better Decisions

This presentation focuses on steps needed to advance oilfield production and operations analytics. Specifically, it will be demonstrated how engineers can learn from unstructured and structured data, what decisions this learning may impact, and why, in spite of the high upside, operations analytics have not progressed beyond visualization and business intelligence tools. Finally, the solution will be provided to facilitate the learning and analytics adoption process.

ANTON BABANIYAZOV

Anton Babaniyazov is a Staff Production Engineer for ConocoPhillips. He leads the implementation of infill drilling and recompletion programs in the Permian Conventional Asset. Previously, Babaniyazov served in upstream production and development positions for Schlumberger - Integrated Project Management, including Drilling Engineer in Oman, Facility and Production Engineer in South Africa offshore, Production Lead for gas assets in Romania, and reservoir and production engineering assignments in West Texas. He holds an MS in petroleum engineering from Tomsk Polytechnic University.

DATA ANALYTICS

Applying Cognitive Analytics to Offshore Production

IBM Watson is a cognitive system enabling a new partnership between people and computers. In this demo of Watson, an immediate problem is alerted: a dramatic increase in water in a producing well that requires a short-term corrective action. You’ll then see a diagnosis of the root cause of the problem and the remedy. We’ll show you “the art of the possible” with Watson. You will see the “power of Watson” via a cognitive system that:

1. Understands and reasons over volumes of structured and unstructured data.
2. Understands the domain jargon.
3. Quickly and proactively delivers evidence-based contextual insights based on your profile.
4. Learns autonomously and keeps adapting to new information and user interactions.

SCOTT KIMBLETON

Scott Kimbleton is an Associate Partner in IBM’s Cognitive Business Solutions team. He has 15 years of experience delivering cognitive and analytics solutions, the last six of which have been focused on chemicals and petroleum. Kimbleton’s responsibilities include cognitive enablement for key clients and IBM industry teams.

JOHN R. MATSON

John R. Matson has nearly 40 years of experience in upstream oil and gas, with a background in operations, strategy, technology, engineering, and investor relations. He has spent over 10 years in various consulting roles providing valuable insights on how to improve business performance and increase profitability.
Where Are They Now?
PAST SCHOLARSHIP WINNERS

The Scholarship Committee conducted a survey of past recipients of the SPE-GCS scholarship. If you’re considering donating to the SPE-GCS scholarship fund or hiring an SPE-GCS scholarship winner, you’ll be glad to know that the program has enjoyed considerable success over the past six decades. Here is Holly (Graham) Krus Murphy’s story:

My father was an SPE member when I received the SPE scholarship, and it helped me develop contacts and learn more about the oil and gas industry. I became even more interested in making it my career choice after two summers as an engineering intern with Amoco Production Company working the North Permian area and then the East Texas area. Both internships involved fracture treatment design.

After graduating from Texas Tech, I started my career as a Petroleum Engineer at Amoco Production Company in Houston, working the East Texas Field and Cotton Valley trend.

Working for a major company helped me obtain extensive training that would help me throughout my entire career. I spent many days in the field learning as much as I could from the people who work out there every day. That time was invaluable in helping me become a better engineer.

After working there for five years, I went to work for Merak Projects, which developed value management software for the oil and gas industry. I really enjoyed working with companies helping them to generate more value for their company utilizing our software. Then I joined one of my clients, Oxy, in the Permian Business Unit in the Planning group. During that time, I completed my MBA.

In 2007, I went to work for my current employer, Citation Oil & Gas Corp., as Director of Strategic Planning. We manage all planning functions of the company and work closely with the executive team, engineering groups, and region offices to establish and track capital, operating and financial budgets. We also manage the outside-operated properties in which Citation has an interest. I enjoy working for a smaller, private company where each individual can truly see the value they contribute to the company.

My advice to students is to find something you truly love to do and make a career out of it.

SPE-GCS Scholarship Fund Update

We are excited to announce the status update for our fundraising efforts. As of September 1, 2017, we have raised $151,708* to support our scholarship program! We have received donations from past scholarship recipients who wanted to give back, as well as SPE-GCS Board of Directors members, study group and committee leaders, event attendees, members and associates. We have also received support from SPEi leaders and from companies.

For more information about our scholarship fund, scholarship program, or our current donor list, visit www.spegcs.org/spegcs-scholarship-fund/. You will find testimonials from past scholarship recipients about the impact the scholarships have had on their lives and careers. If you have not yet donated, we invite you to visit our website and support our efforts as a member of the SPE-GCS family and fellow industry professional. All donations are tax-deductible. We also encourage you to find out if your company has a matching program that could make your individual donation go even further!

* excludes pledges
Upstream Oil & Gas Professionals Hiring Event

The Members in Transition committee invites you to the second edition of the Upstream Oil & Gas Professionals Hiring Event. After the success of the inaugural event in March, we continue to provide a platform connecting experienced job seekers with upstream oil and gas companies.

**Job seekers:** Around 40 companies are expected. Meet with employers hiring for professional upstream positions.

**Employers:** A booth at the Hiring Event presents an ideal opportunity to fill your job vacancies while providing valuable exposure for your company. Hundreds of high-quality, experienced individuals in the upstream oil and gas industry are expected to attend.

**Sponsors:** You may also choose to raise your company profile by becoming a sponsor, whether you are recruiting or not. Sponsorship packages range from $200 to $2,000. Sponsorship of the Hiring Event will help build your name, image and pride by supporting an event that helps fuel and sustain the Gulf Coast area oil and gas industry. You don’t have to be an employer to become a sponsor. For details on packages and how to apply for a sponsorship, please visit specgs-mit-hiringevent.org/sponsorship/.

**Collaborating Professional Organizations:** We also seek to collaborate with other upstream professional organizations to further promote the event among their members and members in transition. As we confirm more professional organizations’ participation, we will post them at specgs-mit-hiringevent.org/employers-sponsors/.

For more information, visit the Hiring Event website at specgs-mit-hiringevent.org/ or email spegcs.mit.hiringevent@gmail.com

BEFORE THE EVENT -
**Bringing Your Best to the Job Search**

Join our panel of three speakers for an interactive discussion on how to relaunch your job search. You’ll learn a tactical approach, including how to work with your networks and how to champion yourself with enthusiasm.

For more information, visit specgs-mit-hiringevent.org/speaker-panel/.

This session is in Room 110 of the Trini Mendenhall Community Center. It starts at 8:30 AM on the same day as the Hiring Event and will wrap up by 10 AM.

**SPEAKERS**

- Cheryl Collarini
  Chairman
  Collarini Companies

- Anthony Caridi
  Division Manager
  QTSI - A Qualitec Company

- Abhijeet Narvekar
  Chief Executive Officer
  FerVID Group

**EVENT INFO**

**TUESDAY 10.3.17**

10:00 AM – 3:00 PM

**LOCATION**

Trini Mendenhall Community Center
1414 Wirt Rd
Houston, TX 77055

**EVENT CONTACT**

Tarek Ghazi
281-961-7632

James Rodgerson
281-221-4085

Daniel Mendez
713-301-3317

**EMPLOYER PRICING**

Pricing is based on number of employees. Less than 50-$100; between 51 and 1,000-$500; more than 1,000-$1,000

**SPONSORS**

Bronze-$200, Silver-$300, Gold-$500, Platinum-$1,000, Diamond-$2,000

**ONLINE REGISTRATION**

**Employers**

specgs.org/events/3624/

**Job seekers**

specgs.org/upstream-oil-and-gas-professionals-hiring-event-registration-summary-page/
Networking and Mentoring to Build Beneficial Relationships

Networking is one of the most powerful tools for accelerating and sustaining successful careers. Learn how to grow your networking skills to influence change and to build collaborative relationships that add value both for your career and for your employer.

Mentoring will always be an integral part of our development and will enable us to gain personal and professional skills needed to face the challenges ahead. Its importance becomes evident as we recognize the value of networking, advice and support a mentor can give us when developing a quality and healthy relationship.

SUSAN HOWES
Susan Howes is VP of Engineering at Subsurface Consultants & Associates, LLC. She was formerly a reservoir management consultant at Chevron and a learning and organizational development manager at Anadarko. She has coauthored papers and articles on uncertainty management, risk management, and talent management for SPE conferences and publications. Howes is past chair of the SPE Soft Skills Committee and previously served as SPE Regional Director for Gulf Coast North America. She received the SPE DeGolyer Distinguished Service Medal and is an SPE Distinguished Member.

ROGER HITE
Roger Hite is founder and principal of Inwood Solutions, LLC, based in Houston. Inwood Solutions provides consulting in petroleum engineering, project management, enhanced oil recovery, and reservoir simulation. Previously, he worked for Shell Oil Company in roles including Engineering Manager; Manager, Production Technology; and Director, Production Research. Hite was Chairman of the Gulf Coast Section in 2006-2007 and is currently Director of the Gulf Coast North America Region on the SPE International Board.

EVENT INFO

WEDNESDAY
10.4.17
9:00 AM – 12:30 PM

SPEAKER
Susan Howes
VP of Engineering
Subsurface Consultants & Associates, LLC

Roger Hite
Founder and Principal
Inwood Solutions, LLC

EVENT LOCATION
Newpark Drilling Fluids
21920 Merchants Way
Katy, TX 77449

EVENT CONTACT
Mike Redburn
mredburn@newpark.com
281-754-8629

MEMBERS & NON-MEMBERS
$45

STUDENTS/MIT/RETIRED SPE
$20

Unconventional Resource Valuation Course
Advanced decision analysis and resource play assessment course (3, 4, or 5 days)

ProjectRA Software
To model, risk and value staged drilling in resource plays
Contact philconway@roseassoc.com for more information

Transferring E & P Risk Assessment Expertise
Instruction · Software Tools · Practical Consultation
www.roseassoc.com
Accelerated Learning Tutorial: An Overview of Multistage Completion Systems for Hydraulic Fracturing

Shales and other low-permeability formations require multistage completions, hydraulic fracturing, and horizontal wells to produce at economic rates. This course focuses on the multistage completion systems that are used in these applications. Participants will learn the different types of wellbore completion options and how they compare in different applications.

Topics include:

- Basics of hydraulic fracturing theory and design
- Evolution of multistage completions
- Wellbore completion options for multistage hydraulic fracturing
  - Plug-and-perf completions
  - Ball-activated completion systems (frac sleeves)
  - Coiled-tubing-activated completions systems (annular fracturing)
- New multistage completion technologies
- Benefits and considerations for each completion system
- Application specific solutions for wellbore completion design
- Challenges and options of refracturing existing wells

W. Aaron Burton

W. Aaron Burton’s career has been focused on the completion of shales and similar unconventional plays that require multistage hydraulic fracturing. In 2015, Burton started Unconventional Oil and Gas Training, a company specializing in training and consulting for unconventional multistage completions. Previously, he was with Baker Hughes for nearly eight years. He has completed wells, conducted training, and consulted on projects worldwide. Through his experience, he has developed a solid understanding of reservoir properties and stimulation design that are used in a data-driven approach to more effectively design completions in unconventional wells.

Rebuilding Together – Houston

Rebuilding Together - Houston (RT-H) is Houston’s largest community outreach organization working to preserve affordable homeownership and revitalize neighborhoods. They provide home repair and renovation services at no cost to low-income homeowners in need, such as the elderly, individuals with disabilities, veterans, and people impacted by natural disasters.

RT-H constructs wheelchair ramps, installs handrails, installs doors with peepholes and security locks, and makes many other improvements that make homes safe, warm and dry.

RT-H needs volunteers of all experience levels to help their Fall 2017 Home Repair Program. The YP group will be leading a team. Please join us in using our handy engineering skills to give back to the community!

The YP team will work at a Houston home on October 21. If work isn’t completed, an October 28 workday will be scheduled.

Online Registration
specgs.org/events/3688/
Members in Transition Initiative
21ST SEMINAR SERIES

The SPE Members in Transition Seminar Series includes topics of interest to SPE members who are between jobs during the current industry downturn or looking for new opportunities. The agenda for the 21st seminar in the series will include “The Emerging Energy Portfolio Transformation,” “How Can We Promote Inventors in the Innovation Lifecycle,” “Where Is Value? Where Are You? Where Is Your Customer?,” and a discussion of resources for SPE members.

Program 1: The Emerging Energy Portfolio Transformation
With annual energy demand growth at 2.1%, the energy industry is expected to double by 2050 to support global prosperity. The emerging energy portfolio transformation combined with the intensification of analytics, AI, and digital technologies brings challenges and new opportunities for organizations and individuals.

PATRICIA VEGA
As Energy Innovation & Emergent Technologies Leader, Patricia Vega is a member of BHGE’s Integration organization. She previously served as Global President and CEO for the Evaluation and Optimization business in GE Oil & Gas. She joined GE as Latin America’s President and Regional Board of Directors member. Her experience with operators and the Big 3 services companies spans from reservoir characterization to final off-take.

PROGRAM 2: How Can We Promote Inventors in the Innovation Lifecycle?
There is a perception outside of the industry that innovation doesn’t happen in oil and gas, or at least not as much as it should. We will assess the velocity and diversity of innovations across key technology domains, and highlight the inventors behind them. For discussion, bring your insights on how can we promote inventors in the innovation lifecycle.

CANDICE LANDRY
Intent on connecting innovation contributors, Candice Landry aims to strategically position and protect intellectual property, while advocating cross-discipline invention. She has been recognized for leadership in the innovation lifecycle, change implementation, and mentoring. When she’s not evaluating tech trends, Landry is likely behind a macro lens or supporting STEM initiatives.

The essential value of a petroleum engineer is always applicable. We endure the painstaking balancing of risk and value to conduct a precious resource to the light of day and connect it with customers where humanity is served. Our essential task in this world is to make breakthroughs and connect value, from where it is to where it better serves humanity.

MICHAEL DAVIS
Michael Davis is an internationally recognized advisor, contributor, and catalyst of team spirit in the teamwork of higher-performing teams. He appropriates genuine people into competent teams with spirit, aspiration, inspiration, transpiration, perspiration, trust, intention, accountability, responsibility, and integrity. Davis focuses on critical issues, tasks, elements, spaces, and a quintessential mindset that creates “work situations” leading people to succeed.

EVENT INFO
FRIDAY
10.20.17
10:00 AM – 3:00 PM

SPEAKERS
Patricia Vega
Energy Innovation & Emergent Technologies Leader
Baker Hughes, a GE Company

Candice Landry
Principal Innovation Strategist
10e5 Solutions

Michael Davis
Chief Executive Officer
Drill Science Inc.

LOCATION
Houston Technology Center
410 Pierce St
Houston, TX 77002

EVENT CONTACTS
Susan Howes
713-553-5020
c.susan.howes@gmail.com

Ashish Fatnani
832-415-6835
ashish.fatnani@halliburton.com

MEMBERS
$40/$50 Walk-In

NON-MEMBERS
$50

STUDENTS/MIT/RETIRED SPE
$15

Registration capped at 70
Understand well connectivity using tracer technology

A Tracerco interwell chemical tracer study gives you critical data to help you optimize field development.

- Well connectivity determination
- Cross flow evaluation of faults and layers
- Pore volume swept calculation
- Sweep efficiency measurement
- Residual oil saturation determination

Flood smart, recover more with Tracerco technologies.

To learn more about our local field and lab capabilities contact:
4106 New West Drive, Pasadena, TX 77507, USA
Tel: +1 281-291-7769 | Fax: +1 281-291-7709 | http://hubs.ly/H03-IkQ0
Corporate Leadership to Private Equity-Backed – Perspectives from Both Sides

Do you work at a large corporation in the oil and gas space? Have you ever wondered what it is like to work at a smaller company backed by a private equity investment fund? Our panelists with both E&P and OFS backgrounds will share their thoughts and advice, as well as what their experiences have been like in both situations. We will explore topics including capital allocation decision making, what it is like to work in a smaller company with fewer resources, and how to manage growth. The panel will provide anecdotes from their careers and insights for those considering making the jump from a large corporation to a private equity-backed company.

A cocktail reception will take place before the event, sponsored by our host, McKinsey & Company.

JASON TUROWSKY (MODERATOR)

Jason Turowsky joined Intervale Capital in 2013 after spending 10 years at Falconhead Capital, a New York-based middle market private equity fund. At Falconhead, Turowsky focused on evaluating, executing and monitoring investments across a wide range of industries. Before Falconhead, Turowsky worked at UBS Investment Bank. He received his BA in economics, with honors, from the University of Pennsylvania.

JASON CHURCHILL, P.E.

Jason Churchill is PetroLegacy Energy’s Chief Executive Officer and leads a team with more than 15 years of industry experience in the exploration, development and optimization of oil and gas properties. Before his current role, he served as VP-Operations for Venado Oil & Gas, where he had responsibilities in planning and development of a 40,000-acre project in the East Eagle Ford. Prior to that, he served as Operations Manager for XTO Energy. He began his career as a Drilling Engineer with ExxonMobil. Churchill graduated from the University of Kansas with a bachelor of science in chemical engineering. He is a registered professional engineer in Texas and is a member of the Society of Petroleum Engineers.

POLIDOROS TRELLOS

Polidoros Trejos is a co-founder of Fortuna Resources and Fortuna Resource Mgmt. Trejos serves as Chief Financial Officer. Prior to Fortuna, Trejos was a Vice President of Finance at Sanchez Oil & Gas, where he shepherded Sanchez Energy through its IPO process. Trejos is a graduate of The University of Texas at Austin with a BBA. He is a member of the Financial Analyst Program Advisory Council at The University of Texas and is a Technoserve Volunteer Consultant Program alumnus.

ADAM ANDERSON

Adam Anderson is Innovex’s Chief Executive Office and has more than 20 years of oilfield service experience managing completion-related operations globally. Previously, Anderson held numerous senior management roles at Baker Hughes. Early in his career, Anderson had a number of global technical roles largely focused on technical support and operations for the Intelligent Completion product line. He earned an MBA from Duke University and a BS in petroleum engineering from Colorado School of Mines.
International Study Group Event with Ecuador Minister of Hydrocarbons

Are you engaged in business activity in the Ecuadorian energy sector? Are you aware of the Ecuadorian government’s initiatives to attract investment? Join Ecuador’s Minister of Hydrocarbons, Carlos Pérez, as he presents the latest strategy to encourage investment, including information about upcoming bidding rounds. Along with Perez, panelists Francisco Rendón, Secretary of Hydrocarbons in Ecuador, and Ali Nadir, U.S. Representative in Ecuador, will discuss transacting business in a renovated Ecuador energy sector.

**IVOR ELLUL (MODERATOR)**
Dr. Ivor Ellul is founder and managing director of CiSK Ventures, an energy advisory firm. He has been involved in the oil and gas industry for more than 30 years and is a Past Chair of SPE-GCS. Ellul holds a BS in mechanical engineering from the University of Malta and MS and PhD degrees in petroleum engineering from Imperial College, London.

**CARLOS PEREZ**
Carlos Perez was appointed as Ecuador’s Minister of Hydrocarbons in May 2017. Previously, he was Owner and General Manager of PEMEC Energy Consultants in Quito and held various positions at Halliburton. Before joining Halliburton, Perez worked with Schlumberger and NASA. He has also served as the President of the SPE Ecuador Chapter. Perez holds a BS in electrical engineering from the University of Texas at Austin.

**FRANCISCO RENDÓN**
Francisco Rendón was appointed as Ecuador’s Secretary of Hydrocarbons in June 2017. He oversees Ecuador’s petroleum sector and manages contracts with private operators. Previously, Rendón was Principal Director of Pacific Bank, General Manager of Inter-Institutional Relations at the National Finance Corporation, and Executive Vice President of the administrative council at PetroEcuador. He holds a bachelor’s degree from Monterrey Institute of Technology and an MBA from the University of Houston.

**ALI NADIR**
Ali Nadir is a Foreign Service Officer at the US Department of State. He serves as an Economic Officer at the US embassy in Ecuador, where he covers petroleum, mining, and transportation issues. He previously served as a Political Officer at the US embassies in Kabul, Afghanistan, and Accra, Ghana. He holds a bachelor’s degree in international studies from the University of North Carolina at Chapel Hill and a master’s degree in international relations from Georgetown University.

---

**EVENT INFO**

**THURSDAY**

10.5.17
11:00 AM - 1:00 PM

**SPEAKERS**
Carlos Perez
Ecuador Minister of Hydrocarbons

Francisco Rendón
Ecuador Secretary of Hydrocarbons

Ali Nadir
Economic Officer at the US Embassy in Ecuador

**MODERATOR**
Dr. Ivor Ellul
Founder & Managing Director, iSK Ventures

**LOCATION**
River Oaks Country Club – Main Dining Room
1600 River Oaks Blvd
Houston, TX, 77019

**EVENT CONTACT**
Pablo Perez,
pablo.perez@bardasz.com

**MEMBERS**
$55

**NON-MEMBERS**
$65

**ONLINE REGISTRATION**
spegcs.org/events/3729/

**PARKING INFORMATION**
Complimentary valet parking only.
SPE-GCS 34th Annual Tennis Tournament

The 34th Annual Society of Petroleum Engineers Gulf Coast Section Tennis Tournament will be held on Thursday, November 2 and Friday, November 3, at the Copperfield Racquet Club, 15700 Longenbaugh Drive, Houston.

Proceeds from the tournament benefit the SPE-GCS Scholarship Fund, which supports college students studying petroleum engineering, math, and sciences. Our Section has had to cut back on both the number and the amount of the scholarships awarded due to the recent downturn, so your support is needed more than ever. In combination with other section functions, there have been 33 new scholarships for incoming college freshmen studying petroleum engineering, math, and science, as well as 70 renewed scholarships for sophomores, juniors and seniors to continue in petroleum engineering. More than $3 million in scholarships has been awarded to well-deserving students through this program since 1963.

In 2016, we had a very successful tournament with over 60 players participating. Registrations and sponsorships raised $9,000. After tournament expenses, net proceeds of almost $2,500 were contributed to the SPE-GCS Scholarship Fund.

Sponsors are a welcome and essential part of making this event a success. All sponsors will be recognized in the tournament program and on the sponsorship billboard that is exhibited throughout the tournament. Please see the Sponsor Form for sponsorship levels. In-kind donations for ditty bags and door prizes are also accepted.

The 2017 SPE-GCS Tennis Committee looks forward to seeing everyone for two fun-filled days of tennis competition!

| QUESTIONS | Erin Chang  
281-892-4720  
erin.chang@bp.com |

| LOCATION | Copperfield Racquet & Health Club  
15700 Longenbaugh Dr  
Houston, TX 77095  
281-463-2582  
copperfieldclub.com |

| START TIMES |
Mixed Doubles  
6:00 PM Thursday, November 2
Tournament Doubles  
9:00 AM Friday, November 3

| DEADLINE | October 27  
Participation is limited!  
Entries accepted on a first-come, first-served basis. |

| RULES OF ENTRY | The event is open to members, nonmembers, guests, and friends of SPE. The only restriction is that tennis professionals are not allowed. |

| DEADLINE | October 27  
Participation is limited!  
Entries accepted on a first-come, first-served basis. |

| IMPORTANT NOTICE | All paid participants must wear their name tags during this event to have access to the food and drinks. |

| ENTRY FEES | $125.00 per person – Fee covers tournament and mixed doubles for an individual player.  
$50.00 for those only playing mixed doubles.  
$25.00 – Spouse/guest (not playing)  
Fees are due with entry form. |

Please visit the link below for registration & sponsorship forms:  
spegcs.org/events/3676/
**SPE-GCS STUDENT CHAPTERS**

**UNIVERSITY OF HOUSTON**

**UHSPE Initiates GCS Petroleum Library**
Through generous donations by former President Nathan Meehan and former SPE-GCS Chair Jeanne Perdue, UHSPE has initiated the GCS Petroleum Library. Located in our campus’s Energy Research Park, the library will provide petroleum engineering students and faculty access to a variety of shared resources. Our aim is to create a sense of community among students and enable a means for graduates and others to give back to our undergraduates in an effort to further their knowledge of engineering. Further donations are welcomed and appreciated in our effort to promote a better learning environment.

**HOUSTON COMMUNITY COLLEGE**

**HCC Kicks Off New Academic Year**
President Aileen Lu, Treasurer Justin Eidson, and new members had their first meeting in preparation for academic year 2017-2018. The student chapter also attended the SPE-GCS Kickoff Meeting, learning from industry leaders how to best serve the chapter.

Stay tuned for the next installment of our Distinguished Speaker Series: “Outlook in the O&G Industry for Job Seekers from Halliburton’s Eyes” by Myrtle Jones, Senior Vice President – Tax, Halliburton.

---

**2016 PROFESSIONAL ENGINEERING EXAM RESULTS FOR PETROLEUM ENGINEERING**

<table>
<thead>
<tr>
<th>First Timers</th>
<th>66%</th>
<th>Second+ Timers</th>
<th>40%</th>
</tr>
</thead>
<tbody>
<tr>
<td>National Average Pass Rate</td>
<td>60</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

PE Exam Application Deadline Date: July 1, 2017
Next Petroleum PE Exam Date: October 27, 2017

**2017 HOUSTON COURSES**

October 21–25, October 2–6

P: 405-822-6761 | E: bingwines@cox.net
winrockengineering.com

---

**YOUR AD COULD BE HERE! ADVERTISE WITH US & REACH OVER 16,000 OIL AND GAS INDUSTRY INFLUENCERS EVERY MONTH!**

**ADVERTISING COORDINATOR**
advertising@spegcs.org
Create the **Optimal Well** in Real-Time

Petrolink’s Drilling Analytics Suite gives you real-time, customized tools to continuously optimize your operations by identifying invisible lost time while reducing non-productive time. That means fewer drilling days and lower well costs.

Real-Time Drilling Analytics: Engineered for Lower Well Costs

- **Swab & Surge**
- **Hydraulics**
- **Hole Cleaning**
- **Best Practices**
- **ROP Optimization**
- **Dynamic Alerts**
- **Predictive Events**

©2016 Petrolink

www.petrolink.com

---

Increase Production With A Proven Solution

Hexon’s OilPlus™ proppants continue to outperform the competition in many major basins throughout North America. These advanced proppants are field proven in over 1,000 wells with one billion pounds pumped so far:

- Permian Basin: 40% increase in production over uncoated frac sand
- Permian Basin: 14% increase in production over traditional resin coated sand
- Eagle Ford Formation: 28% increase in production over traditional resin coated sand

Visit us at hexion.com/oilplus

---

OTC BRASIL 2017

24-26 October 2017, Rio de Janeiro, Brazil

go.otcbrasil.org/connectoffshore

New this Year! OTC Brasil held alongside Rio Pipeline. Register today and access two exhibitions at one low price.

---

READY FOR THE POST-SLUMP REBOUND?

Be prepared by aligning with an on-demand documentation & business support provider

- Reduce overhead cost
- Have a truly adjustable support staff
- Be responsive to fluctuating market needs
- SMEs supported for mission-critical performance
- Re-direct key staff to revenue-generating activities

Technical Writing  
Business Support  
Printing/Binding  

ZAETRIC®  
281 298 1878  
www.zaetric.com

---

Critical Well Engineering

Petroleum Consulting  
Multi-String Analysis  
Material Selection  
Well Construction  
QA/TPI Surveillance  
Failure Investigation  
Training

The Way  
Tubular Design  
Should Be

---

spegcs.org | 25
# 2017-2018 Board of Directors

**CHAIR**
Trey Shaffer, ERM  
281-704-3664  
trey.shaffer@erm.com

**VICE CHAIR**
Sunil Lakshminarayan, OXY  
713-366-5559  
sunil.laksminarayan@oxy.com

**PAST CHAIR / ADVANCEMENT COMMITTEE**
Deepak Gala, Shell  
832-337-2732  
deepak.gala@shell.com

**SECRETARY**
Elizabeth Zuluaga, Chevron  
713-372-2249  
ezul@chevron.com

**TREASURER**
Prashant Sainani, CIBC  
214-315-5427  
prash87@gmail.com

**VICE TREASURER**
Alberto Casero, BP  
832-506-6345  
alberto.casero@bp.com

**Committee Chairs**

**AWARDS BANQUET**
Pavitra Sainani  
pavitra.a.asainani@exxonmobil.com

**GOLF CHAIR**
Marc Davis  
mdavis@ccpipellc.com

**INTERNSHIPS**
David Li, DSL Ocean Group  
dsl6625@yahoo.com

**MIT**
C. Susan Howes, Subsurface Consultants & Associates  
c.susan.howes@gmail.com

**NEWSLETTER**
Karin Gonzalez, Chevron  
karin.gonzalez@chevron.com

**PUBLICITY**
Pablo Perez, Bardasz  
pablo.perez@bardasz.com

**SCHOLARSHIP**
Eric Robken  
erobken@ashlandinvest.com  
gcsscholarship1@gmail.com

**SPORTING CLAYS**
Open

**TENNIS**
Erin Chang, BP  
erin.chang@bp.com

**WEB TECHNOLOGY**
Lindsey Newsome, Newsome Marketing Group  
lindseynewsome@gmail.com

**Study Group Chairs**

**BUSINESS DEVELOPMENT**
Cody Felton, EnergyNet  
cody.felton@energynet.com

**DATA ANALYTICS**
Supriya Gupta, Schlumberger  
Supriya026@gmail.com

---

**BOARD COMMITTEE CHAIRS**

**CAREER MANAGEMENT**
Mike Redburn, Newpark Drilling Fluids  
307-214-7518  
mredburn@newpark.com

**COMMUNICATIONS**
Bryan Marlborough, Peloton  
985-232-0318  
bryan.marlborough@gmail.com

**COMMUNITY SERVICES**
Lisa Li, Houston EP  
281-814-6849  
yuli2008@comcast.net

**EDUCATION**
Jennifer Pinnick, Chevron  
251-377-3692  
jpinnick@chevron.com

**INNOVATE COMMITTEE**
Mikhail Alekseenko, Marathon Oil  
281-513-7078  
mikhailalekseenko@gmail.com

**MEMBERSHIP**
Kris Pitta, Occidental Petroleum  
713-366-5238  
Kris_pitta@oxy.com

**PROGRAMS**
Bill Davis, Halliburton  
281-687-1590  
bill.davis@halliburton.com

**SOCIAL ACTIVITIES**
James Jackson  
281-376-1993  
jackson5223@gmail.com

**YOUNG PROFESSIONALS**
Ernesto Valbuena, Chevron  
832-854-6103  
ernesto.valbuena@chevron.com

**DIRECTORS AT LARGE 2017-2019**
Adrian Reed, Berkeley Research Group  
713-481-9410  
areed@thinkbrg.com

Nils Kageson-Loe  
281-706-1654  
nilskl@yahoo.com

Marise Mikulis, Baker Hughes  
281-723-2901  
mikulis.marise@bakerhughes.com

**DIRECTORS AT LARGE 2016-2018**
Mohammad Tabatabaei  
Newfield Exploration  
281-674-1535  
mohammad.tabatabaei@newfield.com

Robert Estes, Halliburton  
281-871-7945  
robert.estes@halliburton.com

Ernie Prochaska, NOV  
281-221-1434  
ernie.prochaska@nov.com

**SPE GULF COAST NORTH AMERICA REGIONAL DIRECTOR**
J. Roger Hite, Inwood Solutions, LLC  
713-385-5343  
hite@inwood-solutions.com
COMPLETIONS & PRODUCTION
John Vozniak, Samoco Oil Tools
jvozniak@mac.com

DRILLING
Ernie Prochaska, NOV
ernie.prochaska@nov.com

GENERAL MEETING
Robert Saucedo, ASHMIN
rsaucedo@ashmin.com

HSSE AND SOCIAL RESPONSIBILITY
Angelo Pinheiro, Marathon Oil
abpinheiro@marathonoil.com

INTERNATIONAL
Pablo Perez, Bardasz
pablo.perez@bardasz.com

NORTHSIDE
Sumitra Mukhophadhyay, Superior Energy
sumitra.mukhophadhyay@superiorenergy.com

PERMIAN BASIN
Chris Nelson
chris@rivieraensley.com

PETRO-TECH
Cheryl Collarini – Collarini Energy Experts
ccollarini@collarini.com

PROJECTS, FACILITIES, CONSTRUCTION
James Deaver, OFD Engineering
james_deaver@ofdeng.com

RESEARCH & DEVELOPMENT
Amit Patil, Onesubsea
apatil4@onesubsea.slb.com

RESEVOIR
Rex Yalavarthi, Unit Petroleum Company
rex.yalavarthi@unitcorp.com

WATER & WASTE MANAGEMENT
Barbara Denson, Weston Solutions
barbara.denson@westonsolutions.com

 Kelly Steinberg, Test America
kelly.steinberg@testamericainc.com

WESTSIDE
Steve Loving, Core Laboratories, LP
stephen.loving@corelab.com

EDITOR
Karin Gonzalez
editor@spegcs.org

ADVERTISING COORDINATOR
advertising@spegcs.org

BOARD LIAISON
Bryan Marlborough
bryan.marlborough@gmail.com

LAYOUT & DESIGN
DesignGood | designgood.com
kristie@designgood.com

GULF COAST SECTION ADMINISTRATOR
Taylor Wright | spe-gcs@spe.org

HOURS & LOCATION
10777 Westheimer Rd, Ste 1075
Houston, TX 77042
713-779-9595 x 813 | F 713-779-4216
Monday - Friday 8:30 a.m. to 5:00 p.m.
Work Schedule – 9/80

For comments, contributions, or delivery problems, contact editor@spegcs.org.
TETRA CS Neptune™ is a high-density (up to a density of 15.4 ppg, 1.85 g/ml), solids-free fluid that provides a viable alternative to zinc bromide and cesium formate brines.

- Zinc-free with global environmental acceptability
- Does not require zero-discharge system of work
- Formulated from renewable products, ensuring continuity of supply
- Can be reclaimed for reuse, using standard technology
- Requires no special mixing, handling, or storage equipment at rigsite
- Can be formulated as a low-solids, reservoir drillin fluid

TETRA CS Neptune fluid is another innovative solution from TETRA Technologies, Inc.

---

**SPE-GCS Office Closed**

**Cont. Education**

**International Study Group Special Event**

**General Meeting**

**Board of Directors Meeting**

**Northside Drilling Reservoir**

**Westside**

**SPE-GCS Office Closed**

**Members in Transition (MiT)**

**Young Professionals**

---

**October 2017**

<table>
<thead>
<tr>
<th>Sunday</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
<th>Saturday</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>International Members in Transition (MiT)</td>
<td>Cont. Education Investment &amp; Finance Initiative</td>
<td>International Study Group Special Event</td>
<td>SPE-GCS Office Closed Cont. Education</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Petro-Tech</td>
<td>General Meeting</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td></td>
<td>HSSE-SR Permian Basin</td>
<td>Westside</td>
<td>Board of Directors Meeting</td>
<td>SPE-GCS Office Closed Members in Transition (MiT)</td>
<td>Young Professionals</td>
</tr>
<tr>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Business Development Completions &amp; Production Data Analytics</td>
<td></td>
<td></td>
<td></td>
<td>Young Professionals</td>
</tr>
<tr>
<td>29</td>
<td>30</td>
<td>31</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>