

# CONNECT

SPE GULF COAST SECTION

FEBRUARY 2019



FEBRUARY FEATURES

**Oil & Gas Safety  
Leadership/  
Culture  
Workshop**

**Accelerated  
Learning Tutorial:  
Applied  
Understanding  
of PVT**

**Technical Seminar:  
An Operator  
Exclusive –  
Unconventional  
Reservoir  
Completions**

**HSSE & SR**

**CONTINUING EDUCATION**

**WESTSIDE**



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**INNOVATION & ENTREPRENEURSHIP SYMPOSIUM (IES)**

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# Renew Your SPE Membership Today!

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For inquiries, please contact the SPE-GCS Membership Team at [membership@spegcs.org](mailto:membership@spegcs.org).

**RENEW YOUR MEMBERSHIP ONLINE**



**“There is nothing certain but the uncertain.” – UNKNOWN  
SUNIL LAKSHMINARAYANAN, 2019 – 2019 SPE-GCS CHAIR**

**Oil Prices**

2018 was a mixed year for our industry. Oil prices soared to highs that the market hadn't seen in almost four years, but also

succumbed to some of the largest single-day drops. Early predictions from Wall Street pointed to barrel prices in excess of \$100. Instead, the market experienced the worst drop in over two years. Amidst all the volatility in prices, we saw the United States become the world's largest oil producer in 2018. The key factor driving US production levels was the Permian Basin. In spite of Permian Basin drillers having issues with pipeline takeaway capacity, oil production increased by nearly 900,000 barrels per day last year.

With falling demand and increasing production from the Permian Basin, more price uncertainty is possible this year. Infrastructure constraints in the Permian Basin might be resolved in 2019 and production is expected to grow an extra ~1 million barrels per day. On the other hand, shrinking supply from Iran and other countries could push prices up. We have an interesting year ahead.

**SECTION UPDATES**

**Education Committee**

I would like to recognize the Education committee and Mr. Dick Murphy, who has been leading the high school STEM tutoring program over the past few years. Dedicated, proactive and patient tutors volunteer during the school day in the high school classroom to help explain concepts in physics, chemistry, mathematics and biology. Tutoring is currently taking place in Fort Bend ISD (five high schools), Katy ISD (one high school), Spring Branch (one high school), Houston ISD (three high schools) and Conroe ISD (two high schools). If you would like to be involved in this program, please contact me directly.

As I mentioned in 2018, we've been working hard to launch our Scholarship Endowment Fund (SEF) campaign this year. I would like to recognize education chairperson Dr. Mohammad Tabatabaei for leading this effort. In the coming weeks, we will be circulating SEF brochures to various individuals and corporations in our region. I am very hopeful this campaign will be a success.

**Communications Committee**

There's been a lot of progress with the new SPE-GCS website. We're getting close to its completion and will be embarking on testing in a few weeks. I will keep you all posted on the launch date.

All the best!





## DAVID BOWMAN

### How did you first get involved with SPE?

I started in college with The University of Texas student chapter.

### What SPE study groups, committees, or volunteer events have you been involved in?

After college, I was involved with the Dallas YP group early in my career. For the last two years, I've been actively involved in the SPE-GCS Business Development Study Group and the Innovate Committee.

### What is your current role with SPE?

I'm currently the Registration Chair for the SPE-GCS Business Development Study Group and helped the SPE-GCS Innovate Committee plan their annual symposium on how to start an oil and gas company.

### What is your REAL job and educational background?

My "real" job is providing for my family, which includes my wonderful wife, Savanna, and our four children. I work for Rockcliff Energy LLC in a business development role. My day job challenges me to utilize lessons learned from all my experiences, including an undergraduate degree in petroleum engineering and an MBA, both from The University of Texas at Austin.

### What is your favorite thing about SPE?

It's difficult to express a single "like", because SPE-GCS is such a great program. Like most things in life, it's what you make of it. If I had to summarize, the SPE-GCS provides the opportunity for oil and gas professionals to hone professional skills outside of their day job, expand their industry network and give back to the industry at the same time.



## ANISHA KAUL

### How did you first get involved with SPE?

I graduated from Carnegie Mellon University in Dec 2016 with a Masters in Information Systems Management. I joined the Oil & Gas industry straight out of graduate school, so I had no prior knowledge in that domain. My primary skill

at work is Machine Learning, which is domain independent. I was encouraged by Supriya Gupta, who founded the Data Analytics Study Group and was also my colleague at that time, to join in order to meet new people from the industry and learn from them while also sharing the knowledge I had. And it's been a very fast-paced, rewarding journey since then.

### What SPE study groups, committees, or volunteer events have you been involved in?

I am involved with the Data Analytics Study Group. I joined the Study Group in December 2017 when the group had started executing their plan for the very first annual data science convention (April 2018). I basically just hopped in and took any responsibility that was given to me – designing and printing the brochures, designing the flyer for the conventions, onboarding a Sponsor, Photographing the convention.

Post the convention I was offered to co-lead the Marketing and Communications(M&C) of all the monthly events and the annual convention.

### What is your current role with SPE?

Co-Chair Marketing and Communications

### What is your REAL job and educational background?

I work as a Sub-Surface Data Scientist at Schlumberger. My work is mainly tied to driving Machine Learning applications in the geophysics domain, especially interpretation tasks.

### What is your favorite thing about SPE?

SPE is a very welcoming and diverse organization. One of the things that I really like about SPE is that leaders never hesitate to appreciate efforts of volunteers, for example the best study group is awarded annually, those who attend SPE affiliated events are also rewarded points. And one other thing that I absolutely admire about SPE is how much it supports the MIT and Student community, through scholarships and discounted tickets.

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
					01	02
• Young Professionals			• Cont. Education	• Cont. Education	• Cont. Education	
03	04	05	06	07	08	09
		• Digital Transformation • Northside		• General Meeting • HSSE-SR		• Young Professionals
10	11	12	13	14	15	16
	• Cont. Education	• Permian Basin	• Westside	• Board of Directors Meeting • Reservoir • Young Professionals	• Cont. Education • MiT	
17	18	19	20	21	22	23
			• IES • Completions & Production • Water & Waste Mgmt. • Business Development	• IES		
24	25	26	27	28		

## Upcoming Special Events

Mark Your Calendars

**2.14.19** HSSE & SR OIL & GAS SAFETY LEADERSHIP/CULTURE WORKSHOP

**2.21.19** YOUNG PROFESSIONAL INTER-CORPORATE TOPGOLF TOURNAMENT/NETWORKING EVENT

**2.27–2.28.19** INNOVATION & ENTREPRENEURSHIP SYMPOSIUM AND 2ND ANNUAL SHARK TANK EVENT

**3.6.19** WESTSIDE TECHNICAL SEMINAR: AN OPERATOR EXCLUSIVE

**3.26.19** UPSTREAM OIL & GAS PROFESSIONAL HIRING EVENT

**4.8.19** SPE-GCS 46TH ANNUAL GOLF TOURNAMENT

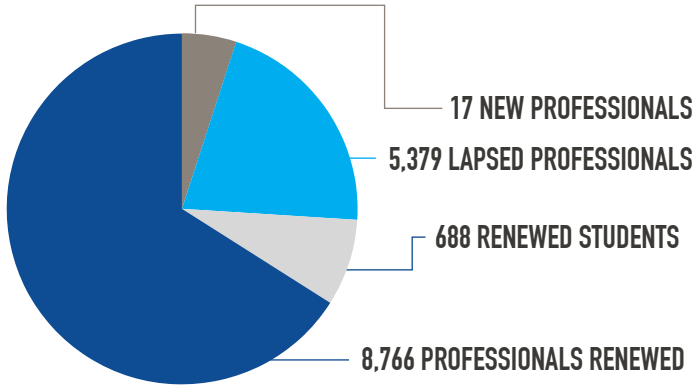
**5.10.19** DIGITAL TRANSFORMATION ANNUAL CONGRESS

**5.13–5.17.19** SPE-GCS ELECTRIC SUBMERSIBLE PUMPS SYMPOSIUM

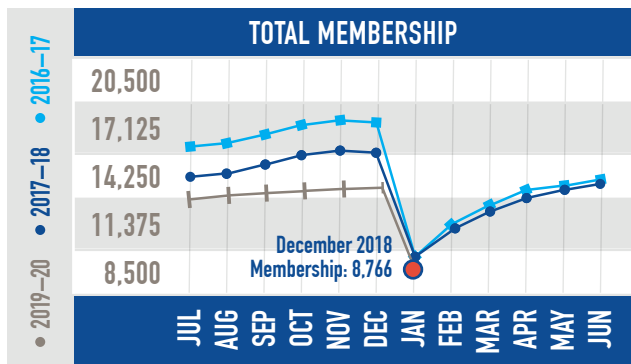
**5.22.19** BUILDING WINNING TEAMS: MVP HOUSTON ASTROS DRAFT DAY



### Membership Through December 2018



### Current Membership Trends



<b>Board of Directors Meeting</b>	<b>WHEN</b>	February 21, 7:30 – 10:30am
	<b>WHERE</b>	SPE Houston Office: 10777 Westheimer Rd, Ste 1075 Houston, TX 77042
	<b>R.S.V.P.</b>	Taylor Wright T (713) 457-6821 F (713) 779-4216 <a href="mailto:spe-gcs@spe.org">spe-gcs@spe.org</a>

<b>Study Group Pricing</b>	Unless specified separately in the registration website:	
	MEMBERS:	\$40/\$55 Walk-in
	NON-MEMBERS:	\$55
	STUDENTS/MIT/Retired SPE:	\$25

[View SPE-GCS Directory](#)



The Gulf Coast Section (GCS) was established on February 13, 1935. The mission of GCS is part of our Bylaws which were amended by vote of the Board of Directors on February 16, 2017, and by vote of the general membership on April 20, 2017.

### SPE-GCS MISSION

The mission of the Section shall be the promotion of mutual cooperation in furthering the objectives of the Society of Petroleum Engineers International, Inc.

This shall be accomplished by:

- I. Providing forums that afford members the opportunity to upgrade and maintain professional competence.
- II. Providing social interaction that increases member participation in Section activities as a whole, while striving to maintain the integrity of the Section.
- III. Supporting programs in local primary and secondary schools to encourage students to develop their abilities in science, technology, engineering and mathematics.
- IV. Supporting engineering programs at the university level.
- V. Enhancing the image of the Oil and Gas Industry by sponsoring community service programs.

# THEN & NOW

## FEBRUARY 1969

No significant effects on propane supply are forecast for the Southeast following the January explosion of 16 railroad tank cars (480,000 gallons) of the product at Laurel, Mississippi.

Shell's Rocky Mountain division completes a computer study of 200 rod-pumping configurations for deep, high-volume oil pumping conditions and concludes that the optimum efficiency is obtained from pumps smaller than 1.75 inches, stroke lengths less than 120 inches and surface equipment with unconventional geometries.

**US active rig count:** 1,118

## THE REST OF THE YARN

**This month, we continue our look back at the rise and fall of wildcatter Glenn McCarthy, as opening day for his Shamrock Hotel finally arrives.**

By dusk, a crowd of 3,000 had surrounded the hotel. Floodlights crisscrossed the early night sky, just as McCarthy had dreamed. At seven, shrieks rose from the crowd as limousines began to arrive and celebrities stepped out onto the green carpet. McCarthy's new pal, Errol Flynn, waved. Lou Costello waddled in. Close behind came the rest: Ginger Rogers, Van Johnson, Edgar Bergen, Van Heflin, Sonja Henie and Eddie Rickenbacker. The Texans came pouring

## FEBRUARY 1989

New EPA underground storage tank requirements instituted following a 20,000-gallon leak from a South Dakota tank in 1986 may force the closure of 26,500 service stations, while requiring tank owners to have at least \$1 million in tank leak liability insurance.

Turkey and Iran agree to a trade pact valued at \$2 billion, with Iran receiving construction aid for rehabilitating petroleum facilities damaged in the war with Iraq, and Turkey agreeing to buy 37 million bbl of Iranian oil. (Hidden agendas abound!)

**WTI crude:** \$18.03/bbl

**US active rig count:** 746

in as well, including the governor and a string of politicians, oilmen, bankers and Amon Carter with a delegation from Fort Worth. Fellow wildcatter Sid Richardson ambled in with his niece and only Howard Hughes failed to appear. All the men wore tuxedos, while the women wore backless dresses and mink after mink after mink, diamonds dripping from every neck. The evening was a coming-out party not just for McCarthy, but for Texas oil itself.

Inside, everyone crowded into the lobby for champagne. A cowboy actor, Don "Red" Barry, sipped his champagne from the slipper of Beaumont oil heiress Ann Justice. By 7:30, the public areas were so jam-packed that people couldn't move. Waiters gave up trying to wade into the crowd. Off in the corners, McCarthy's security men

## FEBRUARY 2009

A major Barnett player reports substantial oil, natural gas and natural gas liquid reserves northwest of the Barnett core area in Montague and Clay counties, Texas. (More good news, George!)

The Haynesville in North Louisiana continues to impress, with Petrohawk reporting eight wells on production 60 days or more averaging 13.2 MMcfd in those first 60 days.

**Light sweet crude:** \$40.50/bbl;

**Natural gas:** \$4.62/MMbtu;

**US rig count:** 1,399

exchanged nervous glances. There were too many people. Two thousand had been invited, and three thousand managed to make it inside. McCarthy, dressed in a white dinner jacket, did his best to navigate the throng, which was growing louder as the champagne began to deplete. He had contracted the National Broadcasting Company to air Pat O'Brien's opening remarks to a nationwide radio audience at 8 o'clock, live from the Emerald Room. The plan was to announce O'Brien's appearance at 7:45 over the hotel's public-address system, at which point the crowd would file in to their tables in the ballrooms.

**Next month, McCarthy's meticulous opening night plans evolve into near-chaos.**



## HISTORY QUIZ

**What former industry executive was selected as the inaugural winner of the award for “Global Vision in Energy” from the New York Mercantile Exchange?**

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 15. The winner, who will be chosen randomly from all correct answers, will receive a \$50 gift card to a nice restaurant (courtesy of the ProTechnics Division of Core Lab).

## ANSWER TO JANUARY’S QUIZ

A.A. Perkins, in California, is considered the father of the modern oilwell cementing process.

## THERE WAS NO WINNER IN DECEMBER.

## ENGINEERS OF ALL DISCIPLINES

Want to get Professionally Registered but have not passed the FE Examination and have been out of college more than four years. Then contact us to find out how to get prepared and pass the FE Exam the first time. The technique has a 98% + pass rate to date. The FE Exam is now a Computer Based Test. You pick your own date to take the FE Test.

### MORE INFORMATION:

**PHONE:** 405-822-6761  
**E-MAIL:** [bingwines@cox.net](mailto:bingwines@cox.net)  
**WEBSITE:** [winrockengineering.com](http://winrockengineering.com)  
**WEBSITE E-MAIL:** [winrockpe@gmail.com](mailto:winrockpe@gmail.com)

SCALEGUARD



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**DIGITAL TRANSFORMATION****New Ways of Working**

During this lunch-and-learn, we will focus on “New Ways of Working” with panelists from Devon, Hess and Equinor.

**STEPHEN TAYLOR**

Stephen Taylor is Global Head of Technology for Analytics, Reporting, Integration and Software Engineering at Devon Energy Corporation. Over the last 25 years, Taylor has led companies through transformations and created competitive advantage through innovative applications of advanced analytics, data management and software engineering. Prior to joining Devon, Stephen ran multiple startups, held leadership positions with companies like Chesapeake, and delivered on critical programs for companies like ConocoPhillips, Target and Pfizer. Taylor received his degree in management of information systems from Oklahoma State University.

**DENNIS CREECH**

Dennis Creech joined Hess in 2012 and has worked for more than 35 years in the oil and gas industry. He has extensive experience with innovative supply chain solutions for unconventional resources, lean practices, SAP applications, and change management and transformation. Dennis began his career with Shell Oil in a variety of Supply Chain and logistics roles.

**JARLE HUSEBO**

Jarle Husebø is the leader of digital business solutions at Equinor. He is responsible for developing and deploying new digital solutions for the business, including the Integrated Remote Operations Centers (IROC) for Equinor’s Global Unconventional business. He has worked for Equinor for 10 years in both operational and technology development positions, and has led several projects in Europe, Asia and the US. Jarle has a master’s degree in petroleum technology and a PhD in reservoir physics from the University of Bergen.

**EVENT INFO****WHEN**

Tuesday, February 12, 2019

11:30am – 1:30pm

**SPEAKER**

**Stephen Taylor**

*Global Head of Technology*  
Devon Energy Corporation

**Dennis Creech**

*Vice President Lean Implementation*  
Hess Corporation

**Jarle Huesbo**

*Leader of Digital Business Solutions*  
Equinor

**LOCATION**

Equinor

2107 City West Blvd  
Houston, TX 77042

**CONTACT**

Philippe Flichy - 713-240-4879

[philippe.flichy@  
energyembassy.com](mailto:philippe.flichy@energyembassy.com)

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## NORTHSIDE

## Unconventional Multiplay Cemented Casing-in-Casing Refracturing Technique and Evaluation

The evolution of completion designs across major US shale plays suggests that completions performed on earlier completed wells are under-stimulated and inadequate for optimum recovery. The traditional horizontal refracturing approach of a bullhead stimulation treatment with diverters presents challenges for effective simulation throughout the lateral due to difficult stage isolation and exposure to the entire lateral.

Advancements in cement slurry design

and wellbore technology have made it possible to install a new, smaller casing string in the existing wellbore. This technique enables the refracturing technique to be performed like a “new-drill completion” while still utilizing plug and perf methodology. The casing-in-casing refracture treatments and methodology are becoming increasingly popular, with multiple operators successfully applying the technique throughout different portions of the Haynesville and Eagle Ford shales.

### BRITTANY ELBEL



Brittany Elbel graduated from the University of Texas with a degree in Petroleum Engineering. She has been with Halliburton in the cementing product service line for the past 8 and half years. She started as a cementing field engineer in Caldwell, TX and currently works on Halliburton's southeast area tech team as the technical advisor.

### EVENT INFO

#### WHEN

Tuesday, February 12, 2019

11:30am – 1:00pm

#### SPEAKER

**Brittany Elbel**  
Field Engineer  
Halliburton

#### LOCATION

Landry's Seafood House  
1212 Lake Robbins Dr  
The Woodlands, TX 77380

#### CONTACT

Jon Spencer - 281-291-7769  
[jon.spencer@tracerc.com](mailto:jon.spencer@tracerc.com)

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## GENERAL MEETING

# SPE's Petroleum Resources Management System 2018 – Highlights of Changes

The Petroleum Resources Management System (PRMS) was developed for consistent and reliable definition, classification and estimation of hydrocarbon resources. The Oil and Gas Reserves Committee has completed the revision of the PRMS and the SPE board approved it in June 2018. The updated PRMS is a consensus of input collected from consulting and financial

firms, government agencies and E&P companies.

The 2018 PRMS update maintains the foundational principles contained in the 2007 PRMS and addresses many of the points in need of clarification that were collected over the years. This presentation will describe the key changes effective in the 2018 update and their impact on reserve evaluation work.

## DANIEL OLDS



Daniel Olds joined Ryder Scott in 2001 and has been practicing petroleum engineering since 1981. He began his career at Wintershall Energy as a manager of engineering and acquisitions, where he evaluated on- and offshore producing fields. Olds later joined PriceWaterhouseCoopers as manager of a consulting group that provided engineering and evaluation expertise internally and to clients.

Olds is a registered Professional Engineer in the State of Texas. He has a degree in petroleum engineering from West Virginia University and an MBA from the University of Houston.

## EVENT INFO

### WHEN

Thursday, February 14, 2019  
11:30am – 1:00pm

### SPEAKER

Daniel R. Olds  
*Managing Senior Vice President*  
Ryder Scott

### LOCATION

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

### CONTACT

Barry Faulkner - 281-627-8790  
[barryf1944@gmail.com](mailto:barryf1944@gmail.com)

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## THE DISTINGUISHED LECTURER NOMINATION SEASON FOR 2020-21 IS NOW OPEN

Have you seen an exciting lecture on a topic relevant to the E&P industry? Was the speaker a leader in their field and an outstanding public speaker? If so, help us identify the best lecturers for your region and discipline for the 2020-21 SPE Distinguished Lecturer season by nominating them for the SPE Distinguished Lecturer program.

- [Find out more](#) about this exciting program.
- [Review the nomination procedures.](#)

[NOMINATE A COLLEAGUE](#)

Submit your nomination by 15 March!

**D** SPE DISTINGUISHED  
LECTURER



## PERMIAN BASIN

### How to Succeed in the Permian Basin as a Private Equity-Backed Company

With stacked pay, large acreage tracts and globally competitive breakeven prices, the Permian Basin remains one of the hottest regions in the US. However, with high acreage prices and established players, it can be a challenging environment for new

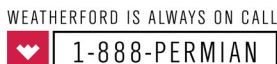
entrants – and in particular, smaller companies. We will discuss the key challenges to building an attractive position; potential hurdles, pitfalls and challenges in the region; and how to build a sustainable and attractive acreage position.

#### AARON DAVIS



Aaron Davis is co-founder and CEO of Fortuna Resources and TNM Resources, private-equity backed E&P companies pursuing Permian Basin strategies. Previously, Davis was a reservoir management team leader at Occidental Oil & Gas. Davis is a registered Professional Engineer in Texas and a graduate of both Rice University and The University of Texas at Austin.

EVENT SPONSORS:



## WESTSIDE

### The Evolution of Diversion: An Engineered Approach

Many techniques have been utilized to optimize horizontal well treatment coverage in unconventional plays, however, many leave behind unstimulated pay. Intra-stage diversion has proven to be a viable completion strategy for horizontal and vertical targets. The technique allows an

operator to extend current stage spacing as well as improve completion efficiency, saving money and potentially improving production. This presentation will describe this technology and compare it to other products and techniques currently in use.

#### JAMES RODGERSON



James Rodgerston is a Completions Engineering Advisor with Thru Tubing Solutions. He has more than 35 years of completions experience, specializing in hydraulic fracturing design. Rodgerston has been involved with horizontal drilling and completion projects as an in-house consulting engineer since 1999. He holds a degree in industrial distribution from Texas A&M University.

#### EVENT INFO

##### WHEN

Tuesday, February 19, 2019  
11:30am – 1:00pm

##### SPEAKER

Aaron Davis  
Co-founder and CEO, Fortuna Resources and TNM Resources

##### LOCATION

Norris Center – Westchase  
9990 Richmond Ave, Ste 102  
Houston, TX 77042

##### CONTACT

Samaneh Soroush  
[samaneh.soroush19@gmail.com](mailto:samaneh.soroush19@gmail.com)

[REGISTER ONLINE](#)

#### EVENT INFO

##### WHEN

Wednesday, February 20, 2019  
11:30am – 1:00pm

##### SPEAKERS

James Rodgerston  
Completions Engineering Advisor  
Thru Tubing Solutions

##### LOCATION

Norris Center – Westchase  
9990 Richmond Avenue, Ste 102  
Houston, TX 77042

##### CONTACT

Bharath Rajappa - 832-486-3122  
[bharath.rajappa@conocophillips.com](mailto:bharath.rajappa@conocophillips.com)

[REGISTER ONLINE](#)

## RESERVOIR

### Hydraulic Fractures in Core from Stimulated Reservoirs

This talk will describe the methods used to identify and document fractures in the Hydraulic Fracture Test Site (HFTS) slant core from Reagan County in the Midland Basin, Texas. More than 700 fractures were found in 600 feet of core. In addition to information about fracture density and spatial distribution

for the different types, surface features on the hydraulic fractures provide information on the direction of fracture propagation. Reactivation of discontinuities will also be discussed. (This talk was previously presented at URTeC 2018.)

#### JULIA GALE



Julia Gale obtained a PhD in structural geology from Exeter University, UK, in 1987. Gale moved to The University of Texas at Austin in 1998, where she is a senior research scientist at the Bureau of Economic Geology. Her research focuses on natural fracture characterization and prediction in shale and carbonate hydrocarbon reservoirs.



PLATINUM SPONSOR:

## DRILLING

### Steering Wells Using Automated Directional Drilling and a Remote Drilling Operations Center

In this discussion, an operator will describe their experience creating and running a real time operations center in Houston TX, that provides directional drilling and geo-steering for a six-rig fleet in the Bakken in North Dakota. The

center uses a combination of automated directional drilling software, field and office directional drillers and geo-steering technicians to conduct drilling operations.

#### MATTHEW ISBELL



Matthew Isbell has 30 years of experience optimizing drilling performance in fields around the world. He serves as a Drilling Advisor at Hess focused on well delivery improvement using technology, process, and communication. He specializes in drill bits and drilling systems, holds 27 patents and has published 27 technical papers. Isbell has held several drilling technology roles in research and development, field engineering, marketing, and management.

#### EVENT INFO

##### WHEN

Thursday, February 21, 2019  
11:00am – 1:00pm

##### SPEAKER

Julia Gale  
Senior Research Scientist  
Bureau of Economic Geology,  
The University of Texas at Austin

##### LOCATION

Fleming's Prime Steakhouse  
2405 W Alabama St, Houston, TX 77098

##### CONTACT

Karin Gonzalez  
[karin.gonzalez@chevron.com](mailto:karin.gonzalez@chevron.com)

**REGISTER ONLINE**

#### EVENT INFO

##### WHEN

Thursday, February 21, 2019  
11:30am – 1:00pm

##### SPEAKERS

Matthew Isbell  
Drilling Advisor  
HESS Corporation

##### LOCATION

The Petroleum Club of Houston  
1201 Louisiana Street  
Houston, TX 77002

##### CONTACT

Ernie Prochaska - 281-221-1434  
[ernie.prochaska@nov.com](mailto:ernie.prochaska@nov.com)

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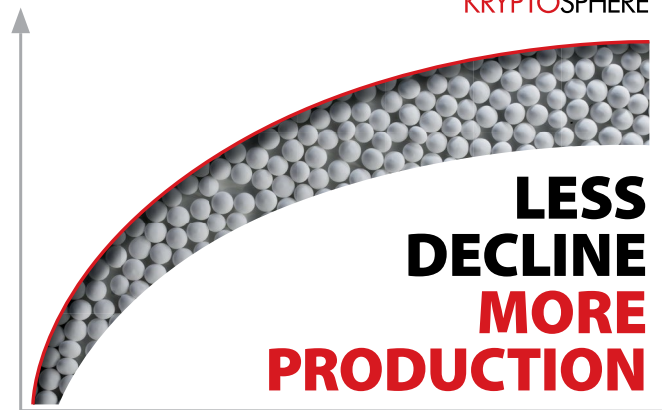
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## COMPLETIONS AND PRODUCTION

# Multidisciplinary Data Gathering to Characterize Hydraulic Fracture Performance and Evaluate Well Spacing

To effectively drain hydrocarbon from unconventional plays, operators have been optimizing their drilling spacing unit well spacing for many years. This presentation illustrates a continuous improvement of Bakken well spacing using trial pads with smaller spacing and multidisciplinary data gathering to understand the most effective spacing between wells. To understand the optimum spacing between wells in this area, the operator trialed well spacing of 500 ft between like formations. Data gathered during the

spacing trial included micro-seismic, micro-seismic depletion delineation (MDD), radioactive (RA) tracers, chemical tracers, image logs, pressure measurements during completion/flowback/early-time production, and diagnostic fracture injection tests (DFITs). The data was used to calibrate advanced hydraulic fracture models and guide next-generation reservoir simulation history matching to characterize multi-well production behavior.

## CRAIG CIPOLLA

As a Senior Engineering Advisor, Craig provides hydraulic fracturing, completions, and reservoir engineering support to HESS business units worldwide. Craig's current focus is the development of unconventional resources, optimizing completions and well spacing. His expertise includes hydraulic fracturing, geomechanics/geophysics, and reservoir engineering. Craig has co-authored over 70 technical papers and was an SPE Distinguished Lecturer on hydraulic fracturing in 2005-2006. He was the recipient of the SPE International Completion Optimization and Technology Award in 2013. He has served on organizing committees for and chaired numerous SPE conferences, workshops, and forums and is currently serving on the organizing/technical committee for the URTeC and SPE HFTC.

## EVENT INFO

### WHEN

Wednesday, February 27, 2019  
11:30am – 1:00pm

### SPEAKERS

**Craig Cipolla**  
*Senior Engineering Advisor*  
Hess

### LOCATION

Norris Conference Centre  
9990 Richmond Avenue Ste 102  
Houston, TX 77042

### CONTACT

Ehsan Davani - 713-485-8937  
[ehsan.davani@qrigroup.com](mailto:ehsan.davani@qrigroup.com)

**REGISTER ONLINE**



**WATER & WASTE MANAGEMENT****EPA's Study of Increasing Volumes of Wastewater from the Onshore Oil and Gas Extraction Industry**

In May 2018, the US EPA announced that it had initiated a study to take a holistic look at how the agency, states and stakeholders regulate and manage the large and increasing volumes of wastewater from the onshore oil and gas extraction industry. The study is being managed out of the EPA's Clean Water Act Effluent Guidelines Program. It's addressing

questions such as how existing federal approaches to produced water management under the Clean Water Act can interact more effectively with state and tribal regulations; what requirements or policy updates may be needed; and whether support exists for potential federal regulations to allow for broader discharge of treated produced water to surface waters.

**ROBERT WOOD**

Rob Wood is Director of the Engineering and Analysis Division in U.S. EPA's Office of Water where he is responsible for developing national effluent limitations guidelines and standards under the Clean Water Act. In his 32-year career at EPA, he has helped develop EPA technical guidance, policy and regulations including EPA's regulations. Rob received a master's degree in Urban and Environmental Planning from the University of Virginia in 1987 and Bachelor's Degree with majors in Economics and Geography from Mary Washington College in 1984.

**EVENT INFO****WHEN**

Wednesday, February 27, 2019  
11:00am – 1:00pm

**SPEAKER**

**Robert Wood**  
*Director, Engineering  
and Analysis Division*  
US EPA Office of Water

**LOCATION**

Southwestern Energy  
Conference Center  
10000 Energy Drive  
Spring, Texas 77389

**CONTACT**

Kelly Steinberg - 713-204-7162

[kelly.steinberg@testamericainc.com](mailto:kelly.steinberg@testamericainc.com)

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**SPE** Gulf Coast Section

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## BUSINESS DEVELOPMENT

### The Transformation of BP's Onshore US Portfolio: Growth and Opportunity

In 2018, BP completed its \$10.5 billion acquisition of BHP's US unconventional assets, significantly upgrading BP's US onshore oil and gas portfolio and driving long-term growth. The acquisition added production of 190K BOEPD and 4.6 BBOE of discovered resources, which will be integrated into BP's operations during 2019. BP's Lower 48 business also changed its name to BPX Energy. Creation of this wholly owned Denver-based subsidiary

marks a new era for BP's US onshore oil and gas unit, which has operated as a separate entity since 2015.

Concurrent with this acquisition, BP announced that it would cover a substantial portion of the acquisition cost through divestment of a significant portion of its existing onshore US portfolio. Mr. Singh will walk us through the impact of these events and how BP plans to execute the actions needed to complete this transformation.

#### MOHIT SINGH



Mo Singh joined BP in 2015 from RBC Capital Markets, where he led business development and execution of merger, acquisition and divestiture processes for oil and gas E&P clients. Prior to RBC, Singh was a vice president at Goldman Sachs Global Natural Resources Investment Banking Division and a business planner and senior reservoir engineer for Shell Exploration and Production Company.

Singh holds a degree in chemical engineering from IIT Kanpur, a PhD in chemical engineering from the University of Houston and an MBA from the University of Texas at Austin.

#### EVENT INFO

##### WHEN

Wednesday, February 27, 2019  
6:00pm – 7:30pm

##### SPEAKERS

**Mohit Singh**  
*Vice President*

BP America Production Company

##### LOCATION

1300 Lamar St  
Houston, TX 77010

##### CONTACT

Heidi Epstein - 281-415-1154  
[heidi.epstein@energynet.com](mailto:heidi.epstein@energynet.com)

##### SEASON PASS HOLDERS:

You do not need to register for this event, as your Season Pass has automatically registered you for all 2018 – 2019 Business Development events. Thank you for being a Season Pass Holder!

##### HOST:

UpCurve Energy

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# WHERE ARE THEY NOW?

## Past Scholarship Winner: Gwendolyn Dawson

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 Gwendolyn Dawson's story:

**I am definitely a better lawyer thanks to my engineering background – and to the SPE for giving me a scholarship that encouraged me to pursue engineering at Rice University.**

I am currently Managing Counsel at Exxon Mobil Corporation. From my office in Houston, Texas, I supervise a team of lawyers and support staff that handles ExxonMobil's commercial, tort and intellectual property litigation. While I'm not working as an engineer, my engineering education helps me in my job every day, from understanding the complexities of oil and gas operations, to grasping the technical details of a patent involved in a patent infringement lawsuit.

In prior assignments within ExxonMobil, I provided legal support to the company's natural gas and Liquefied Natural Gas (LNG) businesses around the world, as well as to domestic and international oil and gas production projects. Prior to joining the ExxonMobil legal team in 2007, I worked in private practice at King & Spalding LLP and Vinson & Elkins LLP, focusing on disputes involving energy industry clients.

I am definitely a better lawyer thanks to my engineering background – and to the SPE for giving me a scholarship that encouraged me to pursue engineering at Rice University. My advice to students is to think about the career you want before choosing a college major and to choose the best major to move you toward that career – but to keep an open mind. An engineering degree opens many doors, including many that lead to fulfilling, non-engineering careers. Contact me at [gwendolyn.dawson@exxonmobil.com](mailto:gwendolyn.dawson@exxonmobil.com).



### CAREER OVERVIEW

#### Managing Counsel, ExxonMobil Corporation

- Tomball High School – 1994
- Rice University, BS, Chemical Engineering – 1998
- University of Texas at Austin, Juris Doctorate – 2001



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## SCHOLARSHIP

### Gulf Coast Section Annual Scholarship for 2019–2020 Academic Year

The Society of Petroleum Engineers Gulf Coast Section has been supporting education for more than 50 years, providing more than \$5 million in college scholarships for students interested in pursuing math, science and engineering degrees.

The key objective of our scholarship program is to increase interest in the oil and gas industry among graduating high school seniors and help retain college students currently enrolled in petroleum-related academic disciplines. Additionally, the SPE-GCS collaborates with Communities in School Houston (CISH) to help at-risk students in the Greater Houston area attend college. Former recipients of our scholarships have gone on to successful careers in oil and gas and other industries, and some now hold key executive positions in internationally reputed firms.

#### To apply for the SPE Gulf Coast Section Annual Scholarship you must:

- Be a graduating high school senior
- Be planning to study science or engineering as a freshman in college the following year
- Have a permanent address in one of the 29 counties in the Gulf Coast Section
- Be a US citizen or permanent resident

New applications are being accepted now through February 21, 2019, for the 2019-2020 academic year. If you or someone you know may be interested in applying for this scholarship, please visit our website to apply online:

<https://www.spegcs.org/committees/scholarship-internship/>

## YOUNG PROFESSIONALS

### Volunteering at the Beacon



Please join SPE-GCS Young Professionals in their support of The Beacon, a nonprofit organization helping the poor and homeless populations of the Houston area. Since opening in 2007, the Beacon has grown from serving 80 clients per day to serving 600-800 clients daily in four core programs: The Beacon Day Center, Cathedral Clinic at The Beacon, Brigid's Hope at The Beacon and Cathedral Justice Project at The Beacon. These four programs come together under one roof to provide meals, showers, laundry service, case management, medical and psychiatric care, pro bono legal services and pastoral care.

Volunteers will prepare and serve meals and help with the laundry. Donations of gently used or new items are greatly appreciated.

#### EVENT INFO

##### WHEN

Sunday, February 3, 2019  
10:30am - 2:00pm

##### LOCATION

The Beacon  
1212 Prairie Street  
Houston, TX 77002

##### CONTACT

Jon Spencer - 409-218-9042

[jon@traceranalytics.com](mailto:jon@traceranalytics.com)

Angela Tse

[angela.tse@halliburton.com](mailto:angela.tse@halliburton.com)

**REGISTER ONLINE**

## CONTINUING EDUCATION

### These People Are Crazy: Selling Ideas to Non-Engineers

It takes a lot more than luck to build a sustained and satisfying career in oil and gas. This course focuses on translating your innate engineering strengths into the language of business outcomes. When you can speak to both the technical and financial sides of a transaction, you become an invaluable and trusted member of your team. This one-day session will equip you with the networking and sales tactics you need to become a trusted industry leader.

#### JAMES HAHN II

James Hahn II is founder of Tribe Rocket, a trailblazing media company that has consistently set the bar for innovation in oil and gas. James began his oilfield career at Drillinginfo in 2010, where he pioneered the tactics of inbound marketing in the industry, routinely delivering more than 150 leads with single blog posts. Since striking out on his own in 2014, he launched the world's No.1 oil and gas podcast, "Oil & Gas This Week."

## CONTINUING EDUCATION

### Accelerated Learning Tutorial: Developing Abstracts, Publications and Presentations Covering SPE Style Guidelines

While engineers are technical people, they aren't necessarily good technical writers. Technical writing involves two key competencies: the ability to understand technical language and to express knowledge in a clear, concise and coherent manner.

#### EVENT INFO

##### WHEN

Monday, February 6, 2019  
9:00am - 4:00pm

##### SPEAKER

James Hahn II  
*Founder, Tribe Rocket*

##### LOCATION

Newpark Drilling Fluids Office  
21920 Merchants Way, Katy, TX 77449

##### CONTACT

Mike Redburn - 281-754-8629  
[mredburn@newpark.com](mailto:mredburn@newpark.com)

##### EVENT PRICING

Members/Non-Members: \$150/\$175  
Students/MiT/Retired SPE: \$50

[REGISTER ONLINE](#)

#### EVENT INFO

##### WHEN

Thursday, February 7, 2019  
9:00am - 4:00pm

##### LOCATION

Newpark Drilling Fluids Office  
21920 Merchants Way, Katy, TX 77449

##### CONTACT

Mike Redburn - 281-754-8629  
[mredburn@newpark.com](mailto:mredburn@newpark.com)

##### EVENT PRICING

Members/Non-Members: \$50/\$75  
Students/MiT/Retired SPE: \$30

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## CONTINUING EDUCATION

### Accelerated Learning Tutorial: Torque and Drag – Drill String Mechanics Course

The objective of this training course is to acquire a deep understanding about drill string mechanics for complex drilling applications, such as torque and drag and buckling, and fatigue and casing wear. This course offers a technical overview of all operational and technical aspects required to design and operate drill string equipment in complex drilling programs. A strong emphasis is put on the understanding of the different mechanisms involved to gain an understanding of drill string mechanics and their theoretical background. Each participant will have the opportunity to run the most advanced professional software to analyze drill strings in complex environments.

#### STÉPHANE MENAND

Stéphane Menand is the President of Houston-based DrillScan. He previously held a research position at Mines ParisTech university, where he also earned his PhD. Menand has 18 years of experience in the oil and gas industry, specifically in directional drilling, drill string mechanics, drilling dynamics and drill-bit performance. He has authored more than 25 SPE and technical papers and serves on the Journal of Petroleum Technology Editorial Committee and as associate editor of the SPE Drilling and Completions Journal.

#### EVENT INFO

##### WHEN

Friday, February 8, 2019  
9:00am - 4:00pm

##### SPEAKER

Stéphane Menand  
*President, DrillScan*

##### LOCATION

Newpark Drilling Fluids Office  
21920 Merchants Way, Katy, TX 77449

##### CONTACT

Mike Redburn - 281-754-8629  
[mredburn@newpark.com](mailto:mredburn@newpark.com)

##### EVENT PRICING

Members/Non-Members: \$50/\$75  
Students/MiT/Retired SPE: \$30

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## YOUNG PROFESSIONALS

### Volunteering at the Houston Food Bank



Your time is a gift to hungry kids, seniors and others who may not have enough to eat. Volunteers produce the equivalent of a meal a minute while helping the Houston Food Bank sort, process and pack food – and it's fun! The SPE-GCS YP Community outreach committee is planning this event. They hope to help make a difference while getting to know more people from our industry.

Volunteer projects at the warehouse will vary based on need and may include inspecting and sorting food, repacking dry food into family-size bags, stocking and cleaning the emergency food pantry, and more.

Closed-toe shoes and sleeved shirts are required. Please register with the Houston Food Bank.

[HOUSTON FOOD BANK  
REGISTRATION](#)

#### EVENT INFO

##### WHEN

Saturday, February 16, 2019  
8:00am - 12:00pm

##### LOCATION

Houston Food Bank  
535 Portwall St  
Houston, TX 77029

##### CONTACT

Sally Ebrahimzadeh  
[speyp.communityoutreach@gmail.com](mailto:speyp.communityoutreach@gmail.com)

[REGISTER ONLINE](#)

## CONTINUING EDUCATION

### Accelerated Learning Tutorial: Applied Understanding of PVT

This practical course will provide attendees with a working knowledge of Pressure Volume Temperature (PVT) and Equation of State (EOS) theory and their applications, following a path from field sampling to the lab and on to the examination of common practices and analyses used in classical and simulated reservoir engineering.

#### RONALD L. LANG, PE

Ronald Lang has more than 40 years of experience in reservoir engineering, including classical and simulation applications. He's a consultant to domestic and international studies requiring application of PVT equation of state (EOS) principles and participates with geosciences teams in field development strategies.

Mr. Lang received a degree in petroleum engineering in 1974 from Texas Tech University. His career began with Amoco Production Company and transitioned to consulting firms engaged in exploration and development, acquisition and divestment transaction advisory, and petroleum engineering technical evaluations. He is a licensed Professional Engineer in Texas.

## CONTINUING EDUCATION

### Accelerated Learning Tutorial: Refracturing – Where To Apply, When To Apply and How To Apply

Refracturing operations attempt to bypass near-wellbore damage, reestablish good connectivity with the reservoir and tap portions of the reservoir with higher pore pressure. Refracturing operations are also performed after a period of production that can alter the stresses in a reservoir due to depletion, and restimulation can allow the new fracture to reorient along a different azimuth. A successful refracturing operation restores well productivity to near-original or even higher rates of production and extends the productive life of a well.

#### PIYUSH PANKAJ

Piyush Pankaj is the Principal Reservoir Engineer –Team Lead for Schlumberger. He has been involved in numerous studies in the fields of unconventional reservoir simulation and modeling of hydraulic fracturing across various basins in North America. In his past roles, he successfully launched and led commercial software tools and defined new workflow solutions and technology development for unconventional reservoirs. He holds a degree in Petroleum Engineering from the Indian School of Mines in Dhanbad, India.

#### EVENT INFO

##### WHEN

Monday, February 18, 2019  
8:30am - 4:00pm

##### SPEAKER

Ronald L. Lang, PE  
*Petroleum Engineering Consultant*

##### LOCATION

Newpark Drilling Fluids Office  
21920 Merchants Way, Katy, TX 77449

##### CONTACT

Mike Redburn - 281-754-8629  
[mredburn@newpark.com](mailto:mredburn@newpark.com)

##### EVENT PRICING

Members/Non-Members: \$250/\$275  
Students/MiT/Retired SPE: \$100

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#### EVENT INFO

##### WHEN

Monday, February 22, 2019  
8:30am - 4:00pm

##### SPEAKER

Piyush Pankaj  
*Principal Reservoir Engineer – Team Lead  
Schlumberger*

##### LOCATION

Newpark Drilling Fluids Office  
21920 Merchants Way, Katy, TX 77449

##### CONTACT

Mike Redburn - 281-754-8629  
[mredburn@newpark.com](mailto:mredburn@newpark.com)

##### EVENT PRICING

Members/Non-Members: \$100/\$125  
Students/MiT/Retired SPE: \$50

[REGISTER ONLINE](#)

## MEMBERS IN TRANSITION (MIT)

### Joint Meeting with SPE Petro-Tech Study Group

The SPE Members in Transition Seminar Series is designed to include a selection of topics of interest to SPE members who are transitioning between jobs during the current industry downturn, or who are looking for new career opportunities.

#### PROGRAM 1

##### How to Get a Job and Thrive at an Oil and Gas Startup

Startups are a new phenomenon in oil and gas and are still the elephant in the room. When it comes to hiring, startups don't follow the same mechanisms as big companies, and the day-to-day work in a startup is also much different than at the major corporations. In this seminar, Moji Karimi, an insider to oil and gas startups, shares insights on how to plan for a successful career at an oil and gas startup.

#### MOJI KARIMI

Moji Karimi is an entrepreneur and engineer who helps ideate, develop and commercialize groundbreaking technologies. Karimi's experience ranges from developing advanced deepwater drilling methods to advancing biologically inspired technology in the energy and space industries. After almost six years with TESCO and Weatherford, Karimi joined Biota Technology to start the Houston office and commercialize DNA sequencing in the energy industry. Moji holds a bachelor's degree in drilling and a master's degree in petroleum engineering.

#### PROGRAM 2

##### Engineering Ethics

"Ethics is the study of the characteristics of morals, and involves the moral choices made by individuals as they interact with other persons. Engineers need to be aware of ethics as they make choices during their professional practice of engineering. Engineering ethics will be defined as the rules and standards governing the conduct of engineers in their roles as professionals." – University of Missouri

This seminar will cover codes of ethics and case studies that help petroleum engineers navigate their day-to-day professional careers. The seminar is appropriate for new graduates as well as seasoned professionals, and will qualify for the annual Professional Development Hours (PDH) required by the Texas Board of Professional Engineers.

#### IVOR ELLUL

Dr. Ivor Ellul began his career in 1980 in West Germany as a design engineer on pipeline and storage tank systems. He has started a number of ventures, including Knowledge Reservoir. Ellul serves as Chairman of the Pipeline Simulation Interest Group and is a former chair of the Society of Petroleum Engineers Gulf Coast Section. He holds a BS in mechanical engineering from the University of Malta and MS and PhD degrees in petroleum engineering from Imperial College, London. Ellul is a registered Chartered Engineer in the UK and a registered Professional Engineer in the state of Texas.

#### EVENT INFO

##### WHEN

Friday, February 22, 2019  
10:00am – 3:00pm

##### SPEAKERS

Moji Karimi  
*Co-founder and CEO*  
Cemvita Factory

Dr. Ivor Ellul  
*Chief Technical Officer*  
Promethean Energy Corporation

##### LOCATION

SPE GCS Office  
10777 Westheimer Road, Ste 1075  
Houston, TX 77042

##### CONTACTS

Susan Howes  
713-553-5020  
[c.susan.howes@gmail.com](mailto:c.susan.howes@gmail.com)

Yetunde Okediji  
817-845-5876  
[yetunde.okediji@gmail.com](mailto:yetunde.okediji@gmail.com)

##### EVENT PRICING

Members/Non-Members: \$40/\$50  
Students/MIT/Retired: \$15

**REGISTER ONLINE**



## HSSE&amp;SR

## Oil & Gas Safety Leadership/Culture Workshop

It is widely recognized that organizations with a mature safety culture also are industry leaders in performance, productivity and profitability. Safety culture requires committed leadership and can take years to develop. From then on, it takes good planning, preparation, and perseverance to maintain. This hands-on workshop, led by industry leaders in health, safety, and environment, will provide participants the opportunity to learn how to inspire, motivate and lead for safety and operational excellence.



### EDDIE HILL - How to Motivate and Lead for Operational Excellence

This short presentation will provide some practical considerations and methods for Leading Safety for Operational Excellence. The relationship between effective leadership and the successful

outcomes of any business are easy to correlate. If we can safely execute our work, then we are working with attention to quality. With the proper strategies and effective leadership, safety can lead the way to operational excellence.



### MICHAEL L. BEATON - Shell Trading's Journey to Goal Zero

Michael will share Shell Trading's experience in guiding and influencing third-party HSSE programs to drive improvements in operational excellence. He will delve into what it takes to develop a proper safety culture and embed the Goal Zero mindset within third party organizations.



### JEFFREY BURRO, GSP - Communicating the Safety Message With Impact at Marathon Oil

It is critical that field leaders have the ability to communicate a safety message with an impact. Whether it be a one-on-one conversation with a new employee on the jobsite, with a crew during a pre-job meeting, or with a larger audience in a town hall environment – how do you set clear expectations, connect with your audience, and gain commitment moving forward? Jeff will cover the Safety Leadership course curriculum Marathon Oil is using to maximize discretionary effort of personnel on the jobsite, as well as introducing a practical tool for using personal stories to positively influence your organization's safety culture.

#### EVENT SPONSORS



#### VENUE SPONSOR



#### EVENT INFO

##### WHEN

Thursday, February 14, 2019  
8:30am – 1:00pm

##### SPEAKERS

Eddie Hill

*Safety and Sustainability Leader*  
Equinor

Michael L. Beaton

*Global Road Safety Advisor*  
Shell Global Solution

Jeffrey Burro

*Project HES Manager*  
Marathon Oil

##### LOCATION

Marathon Conference Center  
Room P-1021  
5555 San Felipe  
Houston, TX 77056

##### BENEFITTING

SPE Gulf Coast Scholarship Fund  
For sponsorship opportunities  
contact SPE HSSE&SR  
713-494-4105

##### EVENT PRICING

Members/Non-Members: \$100/\$125

Students/MIT/Retired: \$50

Walk-Ins: \$125

(each includes lunch and certificate of participation)

[REGISTER ONLINE](#)

## YOUNG PROFESSIONALS

# SPE-GCS Inter-Corporate TopGolf Tournament / Networking Event

Registration for the highly anticipated first annual SPE-GCS TopGolf tournament and networking event is now open!

Sponsorship Opportunities available for the first SPE-GCS TopGolf Tournament / Networking Event! [Learn more here.](#)

This magnificent event will be held on Thursday, February 21, 2019 from 5:00pm to 8:00pm. We expect to host 500+ oil and gas professionals from all disciplines and all experience levels in a TopGolf tournament alongside a networking session. **This is the perfect event for your company's next team building event.**

Sponsors will be recognized and prizes will be awarded at a special reception following the tournament!\*

Each team will be comprised of three members. We will start with an hour of registration, networking with dinner and drinks, and free-play. Following that, TopGolf ambassadors will start with the tournament instructions and coordinate scores. The final hour will be a ceremony recognizing our great sponsors and awarding cash-prizes to our winning teams and individuals.

\*For sponsorship and any other queries, please contact YP Board Members Shakti Sehra or Eric Williams.

### EVENT SPONSORS

#### Gold:



#### Silver:



#### Bronze:



#### Media Partner:



### EVENT INFO

#### WHEN

Thursday, February 21, 2019  
5:00pm – 8:00pm

#### LOCATION

TopGolf Katy  
1030 Memorial Brook Blvd  
Houston, TX 77084

#### CONTACTS

Shakti Sehra - 832-274-7594  
[shakti.sehra@ihsmarkit.com](mailto:shakti.sehra@ihsmarkit.com)

Eric Williams - 903-644-6448  
[ericwilliams86@yahoo.com](mailto:ericwilliams86@yahoo.com)

Amanda Block - 614-546-7187  
[amanda.block@bhge.com](mailto:amanda.block@bhge.com)

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REGISTRATION**

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## INNOVATE

# SPE Innovation & Entrepreneurship Symposium

Registration is now open for the 2<sup>nd</sup> annual Innovation and Entrepreneurship Symposium!

The Annual SPE IES is a premier platform that allows young companies to learn from industry experts and gain valuable insights about the Voice of the Customer, starting a business, understanding commercialization in a risk-averse industry, attracting investors, and more.

It takes a village to support innovators and startups commercializing products and services for the oil and gas industry. The SPE IES two-day symposium is the Gulf Coast Section's premier platform for entrepreneurs, investors, E&P operators, oilfield service companies, and academia to support a growing community of innovators.

This year's event will include:

- Eight panel discussions with relevant topics for technology adoption in today's oil and gas environment
- Half-day Shark Tank for selected startups to showcase their ideas to a community of investors
- Networking and learning opportunities for all participants
- Exhibitor space (limited availability)

### EVENT SPONSORS



### EVENT INFO

#### WHEN

Wednesday & Thursday  
February 27-28, 2019  
7:30am – 4:30pm

#### LOCATION

Marathon Oil Tower  
5555 San Felipe, RM 1020-1023  
Houston, TX 77056

#### CONTACT

Chris Reinsvold - 713-299-5293  
[chris.reinsvold@reinsvold.com](mailto:chris.reinsvold@reinsvold.com)

#### EVENT PRICING

Member: \$295  
(Early Bird)  
Non-Member: \$395  
(Early Bird)

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## INNOVATE

## SPE Innovation & Entrepreneurship Symposium – Shark Tank Event

The 2nd annual SPE-GCS oil and gas Shark Tank will be held as part of the SPE-GCS Innovate Committee's Innovation & Entrepreneurship Symposium (IES). Mark your calendars to submit your application. The feeding frenzy will be held on Thursday during the IES event.

**The event format will be as follows:**

- Startups must be seeking seed or series A financing round.
- Startups will have 5 minutes to present your company and your funding ask.
- Sharks will have 10 minutes to ask questions and decide if they are in or out.
- “I’m in” means that investor is interested in investing in your startup and will have another meeting with you to discuss further terms and possibly move forward with due diligence.
- “I’m out” means that shark has decided to pass on your startup and will provide an explanation for the decision.
- If selected, we will provide a PowerPoint template that you can use for your pitch. You should only share what you are comfortable with sharing publicly. Sharing the amount you are raising is required to participate in the event.

**Important dates:**

- Deadline for application submission is February 18, 2019.
- IES Committee will contact the selected companies by February 1, 2019.
- Selected companies must submit their final pitch deck to IES by February 15, 2019.

**Important notes about the application:**

- The applications for the selected companies will be shared with sharks.
- Please only share non-confidential information.
- Be concise, ideal applications won't be more than 2-3 pages.
- Avoid all buzzwords.

**Important Details:**

- SEED to Series A investments ONLY offered.
- February 18, 2019 - Applications Due.
- February 1, 2019 - Selected companies will be contacted.
- February 15, 2019 - Pitch deck due to the IES committee.

More event details and registration can be found at [spegcs.org/IES/](http://spegcs.org/IES/), along with information and highlights about last year's nearly sold-out event. Stay tuned for speaker announcements and register early - seating is limited.

## EVENT INFO

## WHEN

Thursday  
February 28, 2019  
1:00pm – 4:00pm

## CONTACT

Chris Reinsvold - 713-299-5293  
[chris.reinsvold@reinsvold.com](mailto:chris.reinsvold@reinsvold.com)

[REGISTER ONLINE](#)

## WESTSIDE

## Technical Seminar: An Operator Exclusive – Unconventional Reservoir Completions

World oil prices have started to sway like a ship on the high seas. This has led to varying decisions made by operating companies in the Lower 48, as companies decide where best to invest for the optimal rate of return. The year 2019 may turn out to be a roller coaster for unconventional reservoirs as spacing and stacking dominate the Permian, Eagle Ford, and Bakken established plays. Does this leave the SCOOP/STACK, Niobrara, and other Lower 48 unconventional plays far behind, or in a race against time?

Come find out what's in store on March 6, 2019. This one-day exclusive technical seminar is designed with operating companies presenting case studies/best practices on key topics in an effort to understand the unconventional puzzle.

Topics to be discussed include, but are not limited to:

- Cluster Efficiency
- Infill Strategies
- Re-Fracture/Parent-Child Fracture Design
- Well Spacing/Stacking
- Data Analytics

### EVENT SPONSORS



### EVENT INFO

#### WHEN

Wednesday, March 6, 2019  
8:30am – 4:00pm

#### LOCATION

Core Laboratories  
6323 Windfern  
Houston, TX 77040

#### CONTACTS

Bharath Rajappa - 832-486-3122  
[bharath.rajappa@cop.com](mailto:bharath.rajappa@cop.com)

Buddy Woodroof - 713-516-3784  
[buddy.woodroof@corelab.com](mailto:buddy.woodroof@corelab.com)

Steve Baumgartner - 281-435-0264  
[sbaumgar@swbell.net](mailto:sbaumgar@swbell.net)

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## DATA ANALYTICS

**Data Science Convention**

The Gulf Coast chapter of the Society of Petroleum Engineers will host a one-day Data Science Convention on Thursday, April 4. The convention is intended for upstream oil and gas professionals, academia scholars and students with interests in emerging data science, machine learning and artificial intelligence applications. The agenda will include presentations from leading professionals, major operators, suppliers, technology startups and academia to showcase applications and advancements of big data analytics in the oil and gas industry.

We will also be hosting startup and technology companies who will exhibit their state-of-the-art and emerging products. With up to 400 attendees, there will be ample networking opportunities during lunch and coffee breaks, which are covered in your registration fees.

**EVENT PRICING**

Members: \$150 (Early Bird\*), \$175

Non-Members: \$175 (Early Bird\*), \$200

Students/MiT/Retired SPE: \$100 (Early Bird\*), \$125

\*Early Bird Pricing Thru March 1, 2019

**EVENT INFO****WHEN**

Thursday, April 4, 2019  
7:00am – 6:00pm

**LOCATION**

Norris Conference Center  
816 Town and Country Blvd Ste 210  
Houston, TX 77024

**CONTACT**

Suri Bhat - 832-419-3304  
[suri\\_bhat@hotmail.com](mailto:suri_bhat@hotmail.com)

**REGISTER ONLINE**



**Gulf Coast Section**

26 March 2019 - Houston, Texas



**UPSTREAM OIL & GAS**

**PROFESSIONALS HIRING EVENT**

Trini Mendenhall Community Center 1414 Wirt Rd



SAVE THE DATE & VISIT US AT:

<https://spegcs-mit-hiringevent.org/>



## GOLF

## 2019 46th Annual SPE Gulf Coast Section Golf Tournament

Now in its 46th year, the annual SPE-GCS golf tournament is one of the section's most important fundraisers. Please join us at the beautiful courses of Kingwood and Deerwood Country Clubs to enjoy a wonderful day of golf in support of SPE-GCS scholarships. These scholarships benefit young engineers embarking on the adventure of an oilfield career.

As always, there will be fabulous door prizes for everyone and a chance to enter a raffle for electronics and United Airlines and Lufthansa flight vouchers. It's all courtesy of our generous sponsors. You will also love the wonderful food provided out on the course by our fabulous oilfield

cook teams. So bring your customers out for the day and treat them to a fun experience they won't forget!

Your support goes directly to funding scholarships for Gulf Coast Section students majoring in petroleum engineering or related fields. We know how tough these times are, but we all know that we still need to attract new talent to this great industry. Every penny made by the golf tournament is invested in the drive to educate more young engineers.

Thank you for your support!  
Gulf Coast Section Golf Committee

### EVENT INFO

#### WHEN

Monday, April 8, 2019  
Morning & Afternoon

#### LOCATION

Kingwood Country Club  
1700 Lake Kingwood  
Kingwood, TX 77339

#### CONTACT

Marc Davis - 713-248-3956  
[golf@spegcs.org](mailto:golf@spegcs.org)

For more information and registration & sponsor forms, please visit [spegcs.org/golf](http://spegcs.org/golf)

[REGISTER ONLINE](#)



All Proceeds from  
the 46th Annual  
Golf Tournament  
Benefit the SPE-GCS  
Scholarship Fund

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**DIGITAL TRANSFORMATION****Digital Transformation Annual Congress**

Tired of impractical theoretical solutions and hollow marketing presentations? Come experience proven digital transformation through live product demos and step-by-step case study reviews. Join us in Houston at the SPE Digital Transformation Study Group Annual Congress on Friday, May 10.

There are many dimensions to digital transformation – edge, cloud, software-defined automation systems, AI, mobility, drones, security and more. This all-day event is focused on providing hands-on practical knowledge about the key trends in digital transformation for the oil and gas industry. Who should attend? Decision makers in upstream oil and gas, teams focused on digital transformation and those focused on driving improvements across operations.

**EVENT INFO****WHEN**

Friday, May 10, 2019  
7:30am - 5:30pm

**LOCATION**

Westin City Center  
945 Gessner Rd  
Houston, TX 77024

**CONTACTS**

Philippe Flichy - 713-240-4879  
[philippe.flichy@energyembassy.com](mailto:philippe.flichy@energyembassy.com)

**EVENT PRICING****Early Bird/Walk-In**

**Members:** \$100/\$150

**Non-Members:** \$125/\$200

**Students/MiT/Retired SPE:** \$40/\$50

**Online**

**Members:** \$125

**Non-Members:** \$150

**Students/MiT/Retired SPE:** \$40

**REGISTER ONLINE**

**2018 Reservoir Technology Symposium**

Thursday – April 18, 2018

Anadarko Conference Center – the Woodlands, Texas

**SAVE THE DATE**

Reservoir Technology Symposium the annual event hosted by the SPE-GCS Reservoir Study Group designed to disseminate knowledge and technology needed to achieve the many objectives

of reservoir management, including understanding risk, increasing production and reserves, and maximizing recovery. For sponsorship opportunities, please contact

Eric Laine:  
[spe@ericlaine.com](mailto:spe@ericlaine.com)

Alejandro Lerza:  
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## ELECTRIC SUBMERSIBLE PUMP (ESP) SYMPOSIUM

### Electric Submersible Pump (ESP) Symposium

**REGISTRATION NOW FULLY OPEN!!**

Registration is now open for attendees, continuing education, hotel rooms, Golf Tournament, Sponsorships, and Exhibit space. A limited number of hotel rooms at the special conference rates are available, book yours now!

The Symposium brings ESP technical experts from around the world together - both from operators and manufacturers - to share innovative information and lessons learned pertaining to ESP technology, production, and operations. The symposium offers a strong technical program, a world-class exhibition sharing and demonstrating the newest offerings from manufacturers, and multiple training opportunities dedicated to ESP related equipment and applications.

This unique event is only held once every two years and is one of the very few industry events that is solely dedicated to ESPs. Don't miss this opportunity to learn, network, and see firsthand the latest in ESP technology and industry knowledge.

#### EVENT INFO

##### WHEN

Monday – Friday  
May 13-17, 2019

##### LOCATION

Marriott Waterway Hotel and  
Convention Center  
1601 Lake Robbins Dr  
The Woodlands, TX 77380

A limited number of hotel rooms at the special conference rates are available, book yours now!

##### ENDORISING ORGANIZATION



**SPE Gulf Coast Section Electric Submersible Pumps Symposium**

13-17 May 2019

The Woodlands Waterway Marriott Hotel & Convention Center

The Woodlands, Texas, USA

**EVENT DETAILS**

#### EVENT SPONSORS



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