



Gulf Coast Section

JANUARY
2017

CONNECT

SPE GULF COAST SECTION NEWSLETTER



DATA ANALYTICS INITIATIVE

P. 26

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CHAIR'S CORNER

DEEPAK M. GALA, SHELL

2016-2017 SPE-GCS Chair



IT'S ALL ABOUT BIG DATA

Each New Year brings new opportunities, and 2017 will not be any different. An emerging theme we see is Big Data. At the Gulf Coast section, we are initiating a new study group on data analytics, and we are excited to welcome Supriya Gupta, Data Scientist with Schlumberger, to our team. She will head the pilot phase of the study group.

To address the growing interest of students, young professionals, and seasoned peers in Big Data and its applications, we will arrange a series of luncheons and accelerated learning tutorials in the coming months. The first luncheon is titled "Has the E&P Industry Realized the Value of Digital Transformation and Leveraging Big Data Analytics?" See more details on Page 26.

But what is Big Data? According to Statistical Analysis System's website, the term describes the large volume of data – both structured and unstructured – that overwhelms a business on a day-to-day basis. But it's what organizations do with data that matters. To leverage Big Data, we need to understand the four V's: volume (scale of data), velocity (speed of data), variety (different forms of data), and veracity (accuracy of data).

Big Data is worthless in a vacuum. Its potential value is unlocked only when it's leveraged to drive decision-making. To enable such evidence-based decision-making, organizations need efficient processes to turn high volumes of fast-moving and diverse data into meaningful insights, whether it is for optimization (well spacing, production) or predictive analysis (failure prediction, equipment reliability) or to make a better strategic decisions.

There are two main processes involved: data management and analytics to extract any meaningful insights from the data. Most companies are well ahead on their journey with data management, but only a few companies are incorporating processes for analytics. Even fewer companies are already reaping benefits from data analytics. Companies such as Devon, NOV, Shell, GE, and BP have already started implementing data analytics in various capacities. An article in the October 2016 issue of JPT highlights Devon Energy's rise to the top as a data-driven producer.

DATA MANAGEMENT
(Storing, Extracting,
Aggregation, Validating)



ANALYTICS
(Modeling, Analysis,
Interpretation)



DECISION

Predictive analytics comprise a variety of techniques that aim to predict future outcomes based on historical and current data. In practice, predictive analytics can be applied to almost all disciplines – from anticipating the failure of jet engines based on the stream of data from several thousand sensors to analyzing the symptoms that precede an artificial lift rod pump failure and predicting its probability accordingly.

One of the challenges with big data in the oil and gas industry is applications where there is not enough data from a technique or process to derive meaningful results. Another challenge is around data confidentiality, which limits the amount of data available for sharing. The industry is working toward mechanisms such as joint industry projects where the data can be shared for further analysis. Currently, with the issuance of new regulations, the industry is looking at ways to incorporate data analytics to satisfy the key regulatory requirements.

Data mining and machine learning really form the basis of data analytics. Machine learning is the modern science of finding patterns and making predictions from data based on work in multivariate statistics, probabilistic modeling, data mining, and pattern recognition. Data mining is the science of examining the data to discover patterns and hidden relationships. With the advances in high-performance computing, it is more feasible than ever to process large amounts of data fairly quickly and efficiently, making data analytics almost real-time.

In a "lower for longer" world, organizations

may take competitive advantage from realizing value from their data assets faster through advanced analytics such as machine learning. So the question is, do you just want to store your data, or do you want to put it to work creating real business value? Let's discuss at the upcoming "Data Analytics" Study Group events.

SPE-GCS Update

The **Water and Waste Management** Study Group, under the leadership of Barbara Denson and her team, was pleased to welcome Oklahoma's Secretary of Energy and Environment, Michael Teague, to Houston on November 16. He spoke on Oklahoma's response to induced seismicity. This event was both topical and timely, especially considering the recent earthquake near the Cushing, OK, trading hub, which sets the global price for West Texas Intermediate crude.

This talk had a record-breaking 163 in attendance including seven press reporters. It generated \$5,000.

Teague touched on the novel approach Oklahoma is taking to prove that recent seismicity is caused by disposal wells and to include all stakeholders in providing solutions. He outlined the state's team approach to finding solutions to the historically increased seismic events. His team includes state agencies, NGOs, academia, and representatives of the oil and gas industry.

Teague spent ample time explaining the pros and cons of this approach, but positive outcomes and measures were expressed and agreed upon by most in attendance.

The **Tennis Committee** held the 2016 Tennis Tournament under the leadership of Erin Chang on November 3-4. With more than 50 players participating, the tournament was a big success. The committee brought in new committee members and new sponsors while maintaining most of their existing sponsorships from past tournaments. The event raised \$3,000.

Stay engaged, stay safe,



Deepak M. Gala

Is SPE-GCS meeting your expectations?

We challenge you to send us your feedback on an event you attended, the Connect newsletter or anything else related to SPE-GCS. Write us at spe-gcs@spe.org or directly at Deepak.Gala@shell.com

SPECIAL ANNOUNCEMENT

Introduction of the Data Analytics Initiative

The emerging field of data analytics holds tremendous potential and is poised to fundamentally change the oil and gas industry. To address this growing interest within the SPE community, the Data Analytics Study Group of the SPE Gulf Coast Section aims to organize knowledge-sharing events by inviting key industry practitioners, thought leaders, and innovators to discuss the latest advancements in Big Data analytics in oil and gas. This group cordially invites you to its inaugural event as we step into 2017.

We hope that you can join us for our first event: "Has the E&P Industry Realized the Value of Digital Transformation and Leveraging Big Data Analytics?" on January 18. Dr. Satyam Priyadarshy will cover the state of the E&P industry in adopting digital transformation. See Page 26 for a preview of this event.



January 2017

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BOARD OF DIRECTORS MEETING
THURSDAY, JANUARY 19 | 7:30 TO 10:30 AM | HOUSTON SPE OFFICE



SPE-GCS VOLUNTEER SPOTLIGHT

This month the SPE Gulf Coast Section is excited to feature Derrick Klutsey and Reshmy Mohanan as Volunteers of the Month.



DERRICK KLUTSEY

Derrick got involved with the Gulf Coast Section after receiving advice from and being introduced to the team by YP Chairman Nii Nunoo. Derrick soon realized how active SPE is in giving back to the communities it works in, and he became fully committed to serving in any capacity he could.

Since then, he has been involved with the Education, Young Professionals, and Community Service committees. He has volunteered for projects with the Beacon Homeless Shelter downtown, Rebuilding Together Houston, and the Houston Food Bank.

Derrick has also volunteered with school outreach events for elementary level to high school students, as well as recruitment fairs, where he has talked about the oil and gas industry, answered questions on degree choices or job prospects, and provided information on the scholarship program.

Derrick is a Drilling and Well Engineer with Expro Americas LLC supporting the PowerChokes department in the capacity of an Applications Engineer with a focus on Managed Pressure Drilling (MPD). In this role, Derrick works to further advance the MPD market capabilities through product advancement and expansion.

Derrick has a bachelor's degree in petroleum engineering from the Kwame Nkrumah University of Science and Technology in Kumasi, Ghana, and a master's degree in drilling and well engineering from Robert Gordon University, Aberdeen, Scotland.

Derrick is passionate about sharing knowledge and providing guidance to the younger generation in their decision-making. He likes to learn from the experience of others and understand other cultures. This drives him to serve the community through volunteering.

"It is always a joy to my heart to see that I put a smile on the faces of other people by being a listening ear, or a helping hand, or by sharing knowledge with them," Derrick said. He especially relates to this quote by Nelson Mandela: "What counts in life is not the mere fact that we have lived. It is what difference we have made to the lives of others that will determine the significance of the life we lead."



RESHMY MOHANAN

Reshmy got involved with SPE during graduate school at Rice University. A previous manager noticed Reshmy had a passion for learning and that she enjoyed interacting with and helping people, so he encouraged her to volunteer with SPE. (And we thank him for that!)

Reshmy found SPE events to be educational and inspiring. "From interacting and listening to an array of smart, talented and knowledgeable people, to attending various field trips, it did me a world of good to immerse myself in the experience SPE offered," she said.

About three years ago, Reshmy, along with three others, revived the Water and Waste Management Study Group. Since then, they have grown into a strong team and had many successful events.

Reshmy is a Water Treatment Process Engineer for Griffin Dewatering and loves what she does. The company is 82 years old, but the water treatment division is relatively new. This role has given her the opportunity to wear various hats under the guidance of her manager – engineering design, writing up estimates and proposals, startup and installations in the field, and troubleshooting and decommissioning systems at the project end.

Reshmy has a bachelor's degree in biotechnology engineering and a master's in environmental sciences.

"I find it motivating and rewarding to volunteer with SPE because I view these events as a platform for people to discuss their various projects, share lessons learned, and talk over new ideas that are being pursued, thus shaping the overall growth and progress of the industry," Reshmy said.

THANK YOU BOTH FOR ALL THAT YOU DO FOR SPE!

THEN & NOW

COLUMN BY BUDDY WOODROOF

JANUARY 1957

Gulf Oil lays claim to possibly the most challenging well to bring to production, at least up to the middle of the 20th century, namely the Northrup #1 in Pecos County, TX. Gulf drills this well off and on for five years. In that time, Gulf abandons the well and re-enters it three times, sidetracks it three times due to impossible fishing jobs, and keeps a heavy-duty rig on the project for 840 days.

The 1,900-ton island built around Shell's drilling barge 50 miles offshore from Doha on the east coast of Qatar is virtually blown apart at the seams after it is hit by wind and 20-foot waves while being towed to a new location. Twenty Arab workers on the barge are killed or reported missing after initial rescue operations.

Oil industry technocrats of the mid-20th century, like many of us in the early 21st century, struggle with the proper spelling and pronunciation of the process by which we crack open the earth to release hydrocarbons. Even today, many folks spell the term "fracing" but pronounce it "fracking." Phoneticists insist that we spell it the way we pronounce it, which would be "fracking." The word spelled "fraced," which we typically pronounce "fracked," should be properly pronounced "frased."

**East Texas crude oil - \$3.25/bbl;
US active rig count - 2,330**

JANUARY 1977

As President Ford prepares to vacate the presidency, he is expected to send a gasoline-price-decontrol proposal to Congress.

A consortium made up of BP, Brown & Root, and Wimpey is preparing to sign a \$150 million-\$200 million deal to supply offshore oil technology to Russia for use at Baku on the Caspian Sea.

An Israeli government advisor on oil and energy reports that 15 wildcats - all dry - were drilled in Israel last year at a cost of about \$43 million, \$10 million of which came from US and West European sources.

US active rig count - 1,862

JANUARY 1997

Can you name the well-known presidents of Cambridge Energy Research Associates and the Halliburton Company circa 1997 without looking them up? Here's a hint: One was a Pulitzer Prize winner and one was a notorious hunter. (If you're still not sure, read on.)

Responding to pollution concerns, India's supreme court orders 292 industries that burn coal or coke near the Taj Mahal closed by year-end if they cannot relocate outside the area within three months. (Interesting priorities!)

Enron reports plans to spend \$30 million for ads in 1997 alone in support of its brand-identification push. Included in these ads will be one during the Super Bowl. (That Super Bowl ad should be entertaining!)

Give up? Daniel Yergin (*The Prize*) and Dick Cheney (notorious hunter)

**Light sweet crude oil - \$26.34/bbl;
Natural gas - \$3.46/MMbtu;
US active rig count - 825**

THE REST OF THE YARN

This month, we examine some more of Teddy Roosevelt's famous sayings.

Good to the last drop" - While visiting Nashville in 1907, TR was offered a cup of coffee at his hotel and is said to have raved that it was "good to the last drop." The coffee company Maxwell House (also the name of the hotel) saw a slogan in the making and started using it in 1917.

"My hat is in the ring" - After months of speculation about his presidential intentions in 1912, Teddy finally declared himself in

February. "My hat is in the ring," he said. "The fight is on; and I am stripped to the buff." He was using a western boxing expression; to throw one's hat in the ring was to challenge others to a fight.

"Lunatic fringe" - In a letter to his friend Henry Cabot Lodge, TR reflected, "The various admirable movements in which I have been engaged have always developed among their members a large lunatic fringe."

Next month we begin a look back at the rise and fall of a legendary Texas wildcatter.

THEN & NOW
JANUARY
QUIZ

Since Mendeleev first published the periodic table of elements in 1869, the table has expanded to 118 elements. Despite that substantial group of elements, one letter has yet to be included among all of those elements. What is that letter?

**ANSWER TO
DECEMBER'S QUIZ**

The largest oil-producing field in the world circa 1976 was Saudi Arabia's Ghawar field, while the second largest oil-producing field in the world at that time was Iran's Marun field.

NOVEMBER'S WINNER

Mark Cory
Cory Limited

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

**PROFESSIONAL REGISTRATION REVIEW
COURSES FOR PETROLEUM ENGINEERING**

The Courses covers topics on the Texas State Board Petroleum Engineering Professional Examination.

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

2017 HOUSTON COURSES (8 AM-5PM)
August 21-25, October 2-6

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EVENT INFO

Wednesday 1.4.17

11:30 AM - 1:00 PM

SPEAKER

Stephen R. Gardner
Executive Director /
Senior Petroleum Engineer
BBVA Compass Bank

LOCATION

The Petroleum Club
1201 Louisiana St - Wyatt Suite
Houston, TX 77002

EVENT CONTACT

Alexsandra Martinez
adinorah.martinez@gmail.com
956-249-0994

MEMBERS

\$40/50 Walk-In

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STUDENT/MIT/RETIRED SPE

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RESERVOIR / SOCIETY OF PETROLEUM EVALUATION ENGINEERS (SPEE) JOINT MEETING

Volumes and Value: A Banking Reservoir Engineer's Perspective

This open discussion will cover how banks determine the value used in sizing a reserve-based loan. How is value determined, and how are SEC and PRMS used? How is an internal or third-party reserves report used? Stephen R. Gardner will discuss the difference between a volume report and a value report. With experience in both worlds, he will discuss what he is seeing in the industry with the ever-changing commodity prices and rules.

STEPHEN R. GARDNER



Stephen R. Gardner is an Executive Director/Senior Petroleum Engineer with BBVA Compass Bank. He joined the bank in 2012, bringing four decades of petroleum engineering experience in domestic and international upstream project evaluations to the position. He previously worked for El Paso E&P (now EP Energy), DeGolyer and MacNaughton, Williams Energy, and Schlumberger.

Gardner has reservoir and project management experience domestically and internationally, and he is skilled in economic and government reserves reporting. He has led diverse personnel groups that have included engineers, geologists, business analysts, and IT professionals. He earned a BS in mechanical engineering from California Polytechnic State University-San Luis Obispo and an MS in petroleum engineering from the University of Houston. He is a 35+ year member of SPE and currently serves on the Oil and Gas Reserves Committee. He is a registered Professional Engineer in Texas.

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HSSE-SR

Work as Imagined vs. Work as Done

On April 20, 2010, a deadly incident occurred at the Macondo oil well about 50 miles off the coast of Louisiana in the Gulf of Mexico during temporary well-abandonment activities on the Deepwater Horizon drilling rig. Control of the well was lost, resulting in a blowout (the uncontrolled release of oil and gas) from the well. On the rig, the hydrocarbons found an ignition source and ignited. The resulting explosions and fire killed 11 people and seriously injured 17 others, with 115 people evacuated from the rig. The Deepwater Horizon sank, and 4 million barrels of released hydrocarbons caused massive marine and coastal damage.

The US Chemical Safety Board (CSB) released its final investigation report in April 2016. The CSB builds on previously published investigation reports by analyzing evidence that, in some respects, became available only following their publication. This presentation will provide highlights regarding the drilling contractor/operator relationship. As exemplified at Macondo, the operator and drilling contractor must actively work to bridge the gap between work-as-imagined (WAI) in the drilling program and work-as-done (WAD) by the well operations crew.

MARY BETH MULCAHY



Mary Beth Mulcahy is a chemist who joined the US Chemical Safety Board (CSB) in April 2009 as a Chemical Incident Investigator. She has participated in root cause investigations of chemical accidents in settings including offshore drilling, fertilizer storage and distribution, explosives storage, laboratories, food plants, and power plants.

Mulcahy began her career as a high school science teacher, but returned to school to earn her PhD in physical chemistry from the University of Colorado in Boulder. After graduate school, she completed a postdoctoral fellowship funded by the National Science Foundation at the Instituto Balseiro in Bariloche, Argentina. She then spent time doing research for a biotechnology company.

Roland Moreau, Vice President of Finance and former HSSE-SR Technical Director for SPE, will moderate the event.

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 on check-in.

LUNCH will be provided at 11:30, followed by the speaker's presentation at 12:00.



EVENT INFO

Tuesday 1.10.17
11:30 AM – 1:00 PM

SPEAKER

Mary Beth Mulcahy
Chemical Incident Investigator
US Chemical Safety Board

LOCATION

Marathon Oil Tower
5555 San Felipe St
Houston, TX 77056

EVENT CONTACT

Kathleen Antoine
kantoine@hess.com
713-496-5456

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NORTHSIDE

Vista Grande Woodford Project: A Liquids-Rich Play in the Val Verde Basin, TX

The Vista Grande Upper Devonian Woodford project is in the Val Verde Basin of the greater West Texas Permian Basin between the Central Basin Platform and the Marathon thrust front. The entire project recoverable resource is 1.4 BBOE gross/1.1 BBOE net and includes 4.14 TCF dry gas based on third-party evaluation.

Kerogen Exploration embarked on a project in the Woodford (black) Shale to identify and explore for a commercial wet gas window. Studies included integrated technologies from geology, geophysics, petrophysics, and engineering, and the SCOOP area in Oklahoma was identified as an analogy. Sweet spots were mapped based on overlapping, high-graded criteria.

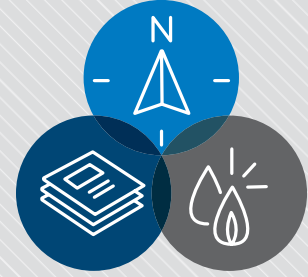
The 90,000-plus-acre area of interest is characterized by thermal maturities ranging from black oil to the far north to dry gas to the south with a wet gas window identified between. The Woodford shale is Type II kerogen, organic-rich, porous, thick, over-pressured, and brittle. Fracture analysis indicates the optimum drilling direction for the laterals is SW-NE. Kerogen has de-risked the play, having drilled three wells, two of which were tested in the Woodford in horizontal laterals. Data from the wells also demonstrated high-quality Barnett reservoir qualities that offer dual, stacked objectives of Woodford-Barnett. The Barnett is an attractive target to be tested going forward.

JOHN VAN FLEET



John Van Fleet holds a BA in geology from Muskingum University in Ohio. With a thesis on geomorphology, he received his master's in geology at the University of Arizona. Van Fleet started his career with Amoco working development in the DJ and Anadarko basins. Subsequently at Tenneco, Anadarko, Mesa, and BP, he worked exploration projects in the Anadarko, Arkoma and Sedgwick basins in the midcontinent; North Slope and Cook Inlet basins in Alaska; and international projects in Mexico and the North Sea. In 2007, Van Fleet joined Kerogen Resources working Fayetteville, Barnett, and Three Forks projects. He worked the Bakken, Marcellus and Wolfberry at Mariner, Newfield and Forest. In 2013, he rejoined Kerogen Exploration, where he has worked mostly Permian Woodford projects. He retired in February 2016 as Manager Permian Basin. He is a member of AAPG, HGS, RMAG, and WTGS.

THANK YOU TO OUR EVENT SPONSOR



EVENT INFO

Tuesday 1.10.17
11:30 AM - 1:00 PM

SPEAKER

John Van Fleet
 Manager Permian Basin, Retired
 Kerogen Exploration

LOCATION

Southwestern Energy
 1000 Energy Dr
 Spring, TX 77389

EVENT CONTACT

Matt Boothe
 281-731-3140
 matt_boothe@swn.com

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\$15

DRILLING

Automated Kick Detection During Connections

In 2010 Shell began investigating how to automate the initial response to a well control incident. Since at least 25% of kicks in deepwater GoM wells occur on connections, it was quickly realized that robust kick detection during connections was important but especially challenging due to the associated transient flow and pit volume signatures. A work stream was kicked off to develop new software based on pattern recognition technology and machine learning. The resulting IDAPS (Influx Detection at Pumps Stopped) software has now been implemented as a real-time monitoring application for all Shell-operated GoM deepwater wells. This presentation will include IDAPS development roadmap and implementation results, including adding a ballooning discriminator.

BRIAN TARR



Brian Tarr is a Senior Well Engineer at Shell based in Houston. His long career has included assignments in both drilling and completion operations. He has managed significant technology projects related to well construction process safety, including the first surface BOP implementation for a deepwater subsea development (offshore Brazil) and the design and construction of compact, modular, subsea capping stacks (for deployment in the North Sea and offshore Southeast Asia).

Tarr previously served as both a review committee chairman and a technical editor for the *SPE Drilling and Completion* magazine. He has also been active in both IADC and API well control related committees, including contributing to the second edition of the *IADC Deepwater Well Control Guidelines* and to *API RP 96, Deepwater Well Design and Construction*.

EVENT INFO

Wednesday 1.11.17

11:30 AM - 1:00 PM

SPEAKER

Brian Tarr
Senior Well Engineer
Shell

LOCATION

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

EVENT CONTACT

Tom Wick
713-806-2631
fieldwick2@gmail.com

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GENERAL MEETING

Mud Motor Operating in Difficult Times: How to Use and When to Use

This presentation will offer an objective and comprehensive view on the most relevant engineering challenges that operators and directional service companies face when using mud motors for the demanding horizontal applications in every shale play in the United States. The value of innovation, sustaining engineering, and new developments able to cope with the higher output torque delivered by the newest power sections, and how to integrate those under the most demanding operations, will be discussed.

Ingenious mechanical engineering approaches, combined with broad field experience and collaboration efforts, have resulted in the creation of mud motor designs that achieve superior, reliable performance, thus helping to lower the total cost of ownership.

As will be discussed in this presentation, different business models are under discussion and evaluation with different stakeholders in the industry. Through these discussions, both operators and service companies are looking at a holistic approach for the whole project cycle – from the concept of a new feature in the mud motor design to anticipating how to get to the first manufactured designs in a matter of a few months, not years. This approach has helped to improve efficiency and overall performance while reducing non-productive time in the design and manufacturing of mud motors.

DR. GUNTHER ‘DOC’ GYNZ-REKOWSKI



Dr. Gunther Gynz-Rekowski (known by his nickname, Doc) is a principal in, and the Managing Director of, Ashmin, LC and Workover Solutions, LC, both in Conroe, TX. He is experienced and knowledgeable in the engineering, development, manufacturing, and application of drilling and workover tools, and technologies for the oil and gas industry. He has more than 30 patents in the US and worldwide.

He has worked as Marketing Manager, Engineering Manager, Technical Advisor, and Drilling Engineer for Intedyn, LLC; Pegasus Drilling & Engineering Services; and Baker Hughes INTEQ. He was lecturer and science assistant for 10 years at the University of Bergakademie Freiberg in Freiberg, Germany, from which he received several advanced degrees.

He has BS, MS, and two PhD degrees in mining and mechanical engineering and microelectronics. He has an International Teaching License.



EVENT INFO

Thursday 1.12.17

11:30 AM – 1:30 PM

SPEAKER

Dr. Gunther ‘Doc’ Gynz-Rekowski
Principal/Managing Director
Ashmin, LC and
Workover Solutions, LC

LOCATION

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

EVENT CONTACT

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

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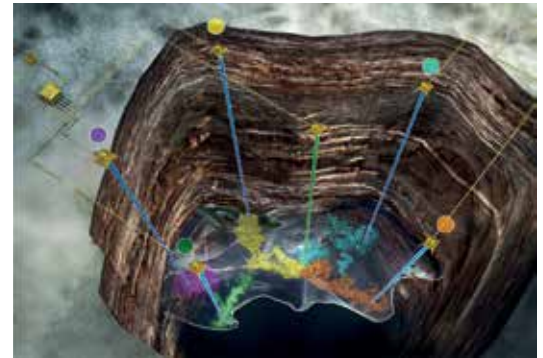
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RESERVOIR

Multi-Discipline Approach to Increasing Production in Organic-Rich Shales

Drilling horizontal wells is the common mode of operation for field development in permeability-challenged unconventional reservoirs such as organic shale. Assumptions are made regarding the homogeneity of the reservoir as wells are drilled away from the vertical pilot well. It is assumed that the reservoir characteristics remain uniform and also that the structure is known to remain in a constant orientation based on the dip information at the pilot wellbore. Experience tells us that these assumptions can lead to wells placed out of zone and in rocks with much different reservoir quality and stress magnitude, which can adversely affect the production potential of the well. With the high cost of drilling and completing these wells, it is generally economically beneficial to do some evaluation of the lateral to ensure proper placement of the well and also the optimal placement of completion zones along the lateral.

A methodology to integrate data from many sources enables a better understanding of the variability and structural challenges of these complex reservoirs. This integrated methodology has been refined using lessons learned from various case studies showing increased production when compared to geometric completions.

KEVIN FISHER



Kevin Fisher is a Senior Petrophysicist for Schlumberger based in Houston. He has 26 years of experience in petrophysics and rock physics and holds a degree in petroleum engineering from the University of Tulsa. He works in the South Texas Production Technology Integration Center focusing on unconventional resource plays, mainly in the Eagle Ford basin. Additional areas of expertise have been deepwater and shelf

structures in the Gulf of Mexico; tight gas sands in South Texas, the Rockies, Alaska, and Permian Basin; unconventional gas and oil shales; coal bed methane; and international (Australia, Brazil, Argentina, United Kingdom, France, Nigeria, Angola, Turkey, and Saudi Arabia). Fisher has been a guest lecturer since 2012 at Rice University for the graduate level petroleum geology class "Economic Geology - Petroleum."

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EVENT INFO

Tuesday 1.17.17
11:30 AM - 1:00 PM

SPEAKER

Kevin Fisher
Senior Petrophysicist
Schlumberger

LOCATION

Sullivan's Steakhouse
4608 Westheimer Rd
Houston, TX 77027

EVENT CONTACT

Alexandra Martinez
adinorah.martinez@gmail.com
956-249-0994

MEMBERS

\$40/\$50 Walk-In

NON-MEMBERS

\$50

STUDENT/MIT/RETIRED SPE

\$15

PERMIAN BASIN

Why the Permian Is the Center of the Universe

This presentation will cover the deal metrics across both sub-basins and the subsurface attributes that are underpinning the spectacular deal multiples. Jeff Sieler will address key technology improvements driving improvements in well performance and drilling/completion efficiencies. Well spacing, completion evolution, and lateral lengths will be touched on as well.

JEFF SIELER



Jeff Sieler is a co-head of A&D in the Global Energy Group of Citigroup Investment Bank headquartered in Houston. Sieler joined the group as a founding member. Sieler's industry experience and technical experience prior to banking spans over 30 years with companies such as Shell, Marathon, and Kinder Morgan CO2. He was the leader of Marathon's Reservoir Performance team and Champion of its Eagle Ford Integrated Project Team prior to joining Citi. Sieler's 28 years with Shell culminated at the vice president level as manager of the subsurface and well technologies team, and as a member of Shell Royal Dutch's Research and Development Council. He graduated from Tulane University with an MS degree in petroleum engineering and from the University of North Dakota with a BS degree in chemical engineering.

EVENT INFO

Tuesday 1.17.17
11:30 AM - 1:00 PM

SPEAKER

Jeff Sieler
Managing Director, Co-Head A&D
Citigroup, PE

LOCATION

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

EVENT CONTACT

Amy Timmons
atimmons@flogistix.com

MEMBERS

\$40/\$50 Walk-In

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STUDENTS/MIT/RETIRED SPE

\$15

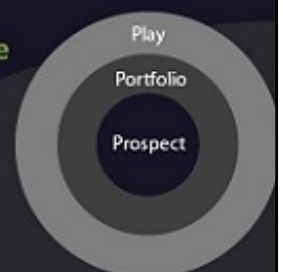
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WESTSIDE

Consistent Hole-Size Perforating for Unconventional Reservoirs: All Perforations Are Not Created Equal

The desired result of perforating has always been to establish effective communication between the wellbore and the producing formation. In the past, the design focus for perforators has been on either increasing the depth of penetration or enlarging the hole size. The need for effective perforating schemes in horizontal unconventional wells has driven the development of new, enhanced perforating systems geared specifically toward hole-size consistency.

Operators commonly specify a desired hole size from their service provider to complement their treatment design. While the average hole size might meet that requirement, the deviation from maximum to minimum hole size in a particular orientation can be drastic and could lead to increased perforation friction, increased tortuosity, and reduced cluster efficiency. A new classification of perforating charges referred to as consistent hole-size perforators will be discussed, along with the methodology for collecting and publishing the pertinent data.

DAN W. PRATT



Dan W. Pratt is Vice President of Engineering and Technology for Owen Oil Tools LP, a division of Core Laboratories. He has 38 years of experience in the design and manufacture of oilfield explosives products, more specifically with oilfield perforators or shaped charges. Pratt holds undergraduate and graduate degrees in chemistry, engineering and physics from the University of Texas at Arlington.

He holds numerous US and foreign patents related to the design of shaped charges, shaped charge liners, materials used in their manufacture, and propellant stimulation.

Pratt is a member of SPE, AIME and AIChE. He is also active in the Society of Explosives Engineers and the Institute of Explosives Engineers (UK). He is a Founding Lifetime Member of the International Ballistics Society. Pratt is Owen's principal member on the API (American Petroleum Institute) SC19 Subcommittee on Completion Equipment and spent over 25 years on the 19B Task Group on Perforating.

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EVENT INFO

Wednesday 1.18.17
11:30 AM - 1:00 PM

SPEAKERS
Dan W. Pratt
Vice President of Engineering & Technology
Owen Oil Tools

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

EVENT CONTACT
Stephen Loving
stephen.loving@corelab.com
713-328-2244

MEMBERS
\$40/\$50 Walk-In

NON-MEMBERS
\$50

STUDENTS/MIT/RETIRED SPE
\$15



EVENT INFO

Thursday 1.19.17

11:30 AM -1:30 PM

SPEAKER

Eric Schmelzl

Vice President of Strategic Business
NCS Multistage

LOCATION

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

EVENT CONTACT

Reza Safari
reza.safari@weatherford.com

MEMBERS

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NON-MEMBERS

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STUDENTS/MIT/RETIRED SPE

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COMPLETIONS AND PRODUCTION

Insight to the Values of Single Point Stimulation Utilizing Coiled Tubing

Today, E&P companies are being challenged more than ever before to improve economic performance. Since completions are the largest cost for multistage completions, it is imperative to improve cycle time and maximize production results. A new approach to multistage completions combines predictable and verifiable frac spacing and propped volume with recorded bottomhole pressures and temperatures to enable operators to progressively optimize stimulation designs and frac delivery across fields. The approach relies on single-point frac placement using a coiled-tubing-deployed isolation system. The presentation will describe single-point stimulation technology, discuss the value of recorded downhole pressure and temperature data, and review a number of optimization case histories.

ERIC SCHMELZL



Eric Schmelzl is an experienced oilfield engineer, with over 30 years of drilling and completions experience in the WCSB. A 1982 mechanical engineering graduate from the University of Calgary, Schmelzl spent almost 20 years with a major international oilfield service company in a broad range of technical and managerial roles, encompassing all aspects of drilling and completion operations. He subsequently worked

as a drilling and completions engineer for several Canadian oil and gas producers, eventually becoming an independent consultant as the industry moved toward the exploitation of unconventional reservoirs. Today, Schmelzl serves as the Vice President of Strategic Business for NCS Multistage, a company focused on the optimization of reservoir exploitation and well stimulation.



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HSSE-SR

Is the Oil Industry Paying Enough Attention to Process Safety?

With recent highly publicized accidents in the oil industry and the continuing concerns about its public image, process safety remains a subject of great interest. But are we doing enough? Is the oil industry paying too much attention to statistics on lost-time injuries and, perhaps, not giving enough sustained focus to process safety, thus obscuring the big picture?

In this presentation, we will discuss the case histories of some major accidents. We will discuss the industry's efforts to develop performance indicators for process safety and ongoing efforts to promote process safety. We will also discuss the similarities and differences between occupational safety and process safety. A key goal of this presentation is to demonstrate that successful management of one does not necessarily assure management of the other.

The human and financial costs of major accidents in the oil industry far outweigh any saving in investments related to process safety. This is even more critical in the current low oil price environment where companies are cutting costs through organizational changes and restructuring.

HISHAM SAADAWI

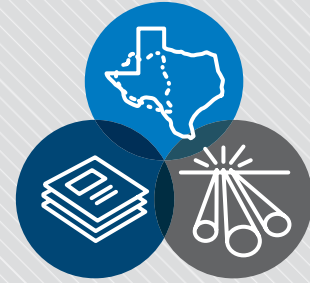


Hisham Saadawi is a member of the SPE Board of Directors and is the SPE Technical Director (Production & Facilities). He has 35 years' experience in the design, construction, start-up, operation, and project management of oil and gas processing facilities. He has extensive experience in process safety and has led and participated in numerous HAZOPs, HAZIDs, SIL studies, project safety reviews, accident investigations, and pre-start-up audits.

Saadawi served twice as SPE Distinguished Lecturer (2010-2011 and 2015-2016). He served as a member of the JPT Editorial Committee (2011-2013) and is an SPE Course Instructor. Saadawi previously worked as a Course Instructor for the Institute of Chemical Engineers (IChemE) and Next/Schlumberger. He is a Chartered Engineer in the UK, a Fellow of both IChemE and IMechE, and holds a PhD from the University of Manchester, UK.

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 at 12:00.



EVENT INFO

Wednesday 1.25.17

11:30 AM – 1:00 PM

SPEAKER

Hisham Saadawi
Technical Director for
Production & Facilities
Society of Petroleum Engineers

LOCATION

Marathon Oil Tower
5555 San Felipe St
Houston, TX 77056

EVENT CONTACT

Kathleen Antoine
kantoine@hess.com
713-496-5456

MEMBERS

\$40/\$50 Walk-In

NON-MEMBERS

\$50

STUDENTS/MIT/RETIRED SPE

\$15



EVENT INFO

Wednesday 1.25.17
5:00 PM - 7:00 PM

SPEAKER

Tony Maranto
Executive Vice President and
Chief Operating Officer
EnerVest Operating Company

LOCATION

Four Seasons Hotel
1300 Lamar St
Houston, TX 77010

EVENT CONTACT

Cody Felton
281-221-3042
Cody.Felton@energynet.com

MEMBERS

\$55

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\$15

BUSINESS DEVELOPMENT

**The Austin
Chalk Comeback**

Tony Maranto will provide an update on EnerVest's Austin Chalk initiatives and how it will continue to use the low commodity price environment to its advantage.

As a top-25 oil and natural gas producer, EnerVest is ahead of the curve when it comes to new technologies, horizontal drilling, and emerging shale plays. Combined with an exceptional team of reservoir and production engineers and geoscientists, EnerVest has the tools to dominate the basins and plays they operate in.

For example, EnerVest first acquired assets in the Austin Chalk in 2007 and is now the largest operator in the Giddings Field. They operate over 1,100 wells and control approximately 850,000 gross acres. They reinforced their confidence in the play with several subsequent acquisitions. This includes significant 2016 acquisitions in Karnes County, totaling an estimated value of \$1.3 billion! Recent Austin Chalk producers in Karnes County are showing a tremendous response to move modern high density stimulations. This could fuel resurgence in the Chalk over a much broader area, including more traditional fields such as Giddings. Though much more work is needed, this technology could expand the Chalk concept beyond the traditional fractured Chalk production model.

A networking hour will begin at 5:00 PM in the mezzanine, followed by an hour-long program, including a Q&A session.

TONY MARANTO



Tony Maranto was named Executive Vice President and Chief Operating Officer of EnerVest Operating Company in August. He is responsible for the company's operations throughout the country, in addition to drilling and completions.

Before joining EnerVest, Maranto was with EOG Resources Inc. for more than 20 years. He held positions of increasing responsibility in operations, culminating in his last role as Vice President and General Manager of EOG-Oklahoma City. He was responsible for managing EOG's exploration and production operations in Oklahoma, Kansas, Arkansas, and the Texas Panhandle. Prior to EOG, he held various engineering positions with Arkla Inc. Maranto has more than 30 years of experience in the oil and natural gas industry.

He graduated from Louisiana Tech University with a BS in petroleum engineering before earning an MBA from Centenary College.

Three Steps to Immediately Improve Business Operations

This one-day session will cover the following steps:

STEP 1

Recognize and quantify the wastes that increase operating costs and customer wait times. Run your business using performance metrics that drive the correct employee behavior, support data-driven decisions, and help sustain healthy growth. Your performance metrics should be tied to:

1. Eliminating waste to reduce the quote-to-cash cycle time
2. Not over-burdening employees and managers
3. Reducing workload imbalance and variation between work centers (or departments) that perform the core operations to deliver products or services to customers.

STEP 2

Develop the value stream map to document the process (or linked processes) that your business uses to deliver products or services to customers. A value stream consists of all the actions required to complete the product. A value stream map helps to visualize waste in the current processes and information flows that support the process for order fulfillment.

STEP 3

With the value stream map in hand, follow a systematic process to improve operations by eliminating waste in different areas. Remember that a change in one area of the current system could counteract another change made elsewhere. How should you systematically pursue elimination of the different wastes displayed on the value stream map? Follow a PPOGI (process of ongoing improvement) that focuses on improving the performance of the “weakest link in the chain.”

DR. SHAKRUKH A. IRANI



Dr. Shakrugh A. Irani is the President of Lean and Flexible, LLC, a company he started in 2014 to deliver consulting and training services in Lean for high-mix, low-volume manufacturing.

From 1996-2012, he was an Associate Professor in the Department of Integrated Systems Engineering at The Ohio State University.

His research at OSU produced JobshopLean, a comprehensive methodology to adapt Lean for high-mix, low-volume (HMLV) small and medium enterprises. His team developed the PFAST (Production Flow Analysis and Simplification Toolkit) software that facilitates the implementation of JobshopLean.

From 2012-2014, he was the Director of IE Research at Hoerbiger Corporation of America Inc., Houston. In that position, he undertook projects to demonstrate the viability of JobshopLean in their HMLV manufacturing facilities.

At OSU, he received the Outstanding Faculty Award from the ISE department's graduating classes six times. He also received the Charles E. MacQuigg Outstanding Teaching Award from the College of Engineering. He served as the Director of the Facilities Planning and Design Division of the Institute of Industrial Engineers for 1999-2001 and 2001-2003. He is the Editor of the *Handbook of Cellular Manufacturing Systems*.

EVENT INFO

FRIDAY

1.13.17

8:30 AM – 4:30 PM

SPEAKERS

Dr. Shakrugh A. Irani
President/Owner
Lean & Flexible, LLC

LOCATION

SPE Training Center
10777 Westheimer Rd
Houston, TX 77042

EVENT CONTACT

Sunil Lakshminarayanan
281-248-1443
sunil.lakshminarayanan@gmail.com

Kumar Pugazhenth
361-522-3859
kumaresan.pugazhenth@gmail.com

MEMBERS & NON-MEMBERS

\$100

STUDENTS/MIT

\$50

Accelerated Learning Tutorial: Introduction to Managed Pressure Drilling

This one-day tutorial will give the attendees a broad overview of managed pressure drilling.

Topics covered:

- Standard definition for managed pressure drilling
- Similarities and contrasts between conventional drilling, UBD and MPD
- The operating window - planning vs real
- Recognizing an MPD candidate well - technical/economical/safety value
- Recognized variants of MPD
- Conventional well control practices vs. MPD influx control and management
- Conventional losses management vs. MPD losses management
- Onshore/shallow waters MPD application
- Deepwater MPD systems
- The MPD operating matrix
- Well balancing in tight windows - MPD methods
- Surge/swab management in MPD
- Dynamic influx test
- Dynamic FIT/LOT - differences with conventional FIT/LOT
- Dynamic wellbore strengthening
- Closed loop cementing
- Managed pressure drilling equipment and interfaces with the rig
- Standard MPD procedures discussion (in function of MPD variant)
- MPD in HPHT wells - considerations
- HSE aspects

HARSHAD PATIL



Harshad Patil is a Senior MPD engineer working for Weatherford International Ltd. Patil started his oilfield career in 2004 after completing his master's in petroleum engineering at LSU. He has since worked for Hess Corporation as a Drilling Engineer, Schlumberger, Smith International, and Weatherford. Patil started his MPD specific career with @Balance, in 2010 as rig-site MPD supervisor/engineer and led many MPD jobs in GOM and internationally.

MAURIZIO ARNONE

Maurizio Arnone is the MPD/UBD Engineering Manager for the US Region at Weatherford International Ltd. He has over 10 years of MPD/UBD experience working for Weatherford in several regions. Arnone started his drilling engineering career in 1997 working for PDVSA. He earned his bachelor's and master's degrees in mechanical engineering.

EVENT INFO

FRIDAY

1.20.17

8:30 AM - 4:30 PM

SPEAKERS

Harshad Patil
Senior Project Engineer
Weatherford

Maurizio Arnone
MPD/UBD Engineering Manager
Weatherford

LOCATION

SPE Houston Training Center
10777 Westheimer Rd, Ste 1075
Houston TX 77042

EVENT CONTACT

Sunil Lakshminarayanan
281-248-1443
sunil.lakshminarayanan@gmail.com

Kumar Pugazhenth
361-522-3859
kumaresan.pugazhenth@gmail.com

MEMBERS/NON-MEMBERS

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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 YP Community Outreach Committee is planning this event to help make a difference while getting to know more people from our industry.

We will be helping out at the warehouse. Volunteer projects vary based on need and may include inspecting/sorting food, repacking dry food into family-sized bags, stocking/cleaning the emergency food pantry, and more. Closed-toe shoes and sleeved shirts are required.

Please also register with the Houston Food Bank at <http://bit.ly/2gg75V>.

LOCATION

Houston Food Bank / Portwall Headquarters
535 Portwall St, Houston, TX 77029



EVENT INFO

SATURDAY

1.21.17

10:00 AM - 12:00 PM

EVENT CONTACT

Antonio Laxo
antonio.lazo@chevron.com

Catalina Leal
Catalina.Leal@bakerhughes.com

Pervez Agwan
pervezagwan@gmail.com

Introduction to Petroleum Geology

This one-day tutorial will give attendees a broad overview of the fundamental geological concepts in the context of petroleum exploration and production. Topics include an overview of the processes of petroleum generation and accumulation and the variables within depositional systems that impact reserve recovery.

Topics covered:

- Introduction
- Historical geology / geologic time
- Physical geology / depositional processes and stratigraphy
- Depositional basins
- Structural geology
- Petroleum reservoirs / conventional and unconventional
- Reservoir characterization
- The petroleum prospect
- Reference information

MARGARET DALTHORP, PHD, MBA, PG



Margaret "Maggie" Dalthorp most recently served as Exploration Manager for a Williston Basin operator, Murex Petroleum Corporation. There, she was actively involved in assessing the Three Forks play. Prior experience includes running her own company, Moorhouse Associates Inc., a natural resource planning and oil and gas exploration company that generated prospects by shooting 3D seismic surveys in underdeveloped areas. Dalthorp also served as project manager for several watershed studies, pollution outreach activities, and water planning projects both domestically and internationally. She began her career with Exxon Company USA and served in a variety of geological, exploitation and management roles working both onshore US and offshore Gulf of Mexico. Dalthorp holds a doctorate in coastal and marine system science and an MBA from Texas A&M University-Corpus Christi and a bachelor's in geology from The University of Texas at Austin.

EVENT INFO

FRIDAY

1.27.17

8:30 AM - 4:30 PM

SPEAKERS

Margaret Dalthorp
Geologist Exploration Manager
A&D Analyst

LOCATION

SPE Houston Training Center
10777 Westheimer Rd, Ste 1075
Houston TX 77042

EVENT CONTACT

Sunil Lakshminarayanan
281-248-1443
sunil.lakshminarayanan@gmail.com

Kumar Pugazhenth
361-522-3859
kumaresan.pugazhenth@gmail.com

MEMBERS/NON-MEMBERS

\$350

MIT

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STUDENTS

\$100

Where Are They Now?

PAST SCHOLARSHIP WINNERS

The Scholarship Committee recently 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's winner Megan Ziyue Wang Fung's story:

Receiving the SPE-GCS scholarship in the second semester of my senior year in high school was a turning point. Before the scholarship, I was not quite set on what education or career path I would choose.

Upon receiving this scholarship, I received a pre-college internship offer from Chevron. I worked in the waterflood and EOR consulting team in the Energy Technology Company. I was given the project of establishing a user-interactive database for field and reservoir data of all waterflood fields in Chevron around the world and creating visualizations for key parameter correlations. Through working on the project, with the help of my first professional mentor, I was exposed to a wide range of field data, learned about basic reservoir engineering theories, and had a glimpse of the technical, challenging and exciting energy industry.

After the fulfilling pre-college internship experience, I confirmed my choice of studying petroleum engineering at UT Austin.

My career has been very fulfilling and exciting with fast-paced growth in both technical skills and knowledge of the industry. Notable professional achievements include:

1. Four consecutive summer internships with Chevron:
 - Pre-college internship
 - Offshore field internship in Gulf of Mexico
 - Reservoir engineering internship in Bakersfield, CA
 - D&C internship in Deepwater Gulf of Mexico.
2. Initiating and coordinating a heavy oil steamflood major capital project (\$600MM) in the San Joaquin Valley. Achieved First Oil on this project.
3. Creating an artificial lifting selection tool that standardizes artificial lift selection for all tight oil/gas horizontal well developments in the Permian Basin. Received company's professional award for developing this tool.

MEGAN ZIYUE WANG FUNG



CAREER OVERVIEW

Petroleum Engineer at Chevron

- Bellaire High School - 2007
- University of Texas at Austin - 2011, BS in petroleum engineering and BA in economics, Summa Cum Laude

CONTACT

wangmegan2000@gmail.com

SPONSORSHIP

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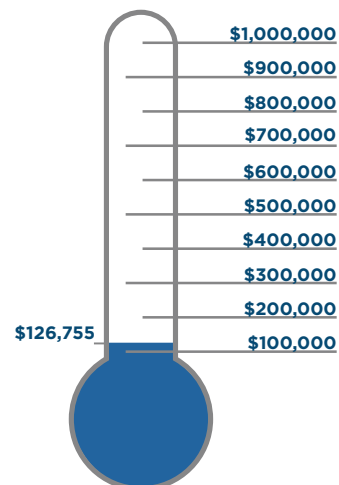
spegcs.org/spegcs-scholarship-fund/

SPE-GCS Scholarship Fund Update

We are excited to announce the status update for our fundraising efforts. As of December 1, 2016 we have raised **\$126,755** to support our scholarship program! So far, we have received donations from past scholarship recipients who wanted to give back, SPE-GCS Board of Directors, SPE-GCS Study Group and Committee Leaders, SPE-GCS event attendees, SPE-GCS members and associates, SPEi leaders, and company donations.

For more information about our scholarship fund, scholarship program or our current donor list, please visit www.spegcs.org/spegcs-scholarship-fund/. You will find testimonials from past scholarship recipients and learn about the impact that SPE-GCS scholarships had on their lives and professional 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. As a reminder, 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!

FUND STATUS



44TH Annual SPE Gulf Coast Section Golf Tournament

Monday

4.10.17

MORNING AND AFTERNOON

Now in its 44th 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 valuable scholarships for many Gulf Coast Section students embarking on careers 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

REGISTRATION
spegcs.org/golf

WHERE
Kingwood Country Club
1700 Lake Kingwood
Kingwood, TX 77339

QUESTIONS
Marc Davis
golf@spegcs.org
713-248-3956

For more information and registration & sponsor forms, please visit spegcs.org/golf

Has the E&P Industry Realized the Value of Digital Transformation and Leveraging Big Data Analytics?

Big Data as a business paradigm has impacted and transformed many industry verticals. The upstream oil and gas industry has been slow in adopting value creation through Big Data, while it claims to have “lots of data” in its silos. To decrease the cost of supply and leverage the voice of the oilfield is critical for E&P industry, if it wants to be part of the Industry 4.0 revolution. This requires that E&P industry becomes agile in Big Data technologies, adaptable to Big Data actionable insights, and advance to next generation. This talk will cover the current state of the E&P industry in adopting digital transformation.

DR. SATYAM PRIYADARSHY



Dr. Satyam Priyadarshy is a pioneer in data science, Big Data, analytics, and emerging technologies. He is the Chief Data Scientist at Halliburton, leading the digital transformation to the next generation of E&P industry by leveraging Big Data. In September 2016, Smart Industry named Priyadarshy as one of key innovators on the leading edge of digital transformation. He is also an adjunct faculty at Oklahoma State and

Georgetown universities and a Senior Fellow at the International Cyber Center, George Mason University. He has appeared in magazines including *Chemical and Engineering News*, *The Scientist*, *Silicon India*, *Oil Review Middle East*, *Petroleum Review*, and *RigZone*. He has published over 35 papers and articles, including expert opinion in magazines like *Science*. Priyadarshy obtained his PhD from IIT Bombay and MBA from The Pamplin College of Business, Virginia Tech.

ONLINE REGISTRATION: spegecs.org/events/3477/

EVENT INFO

WEDNESDAY

1.18.17

5:30 PM – 7:30 PM

SPEAKERS

Dr. Satyam Priyadarshy
Chief Data Scientist - Halliburton

LOCATION

IHS Markit
5333 Westheimer Road
Houston, TX 77056

EVENT CONTACT

Supriya Gupta
supriya026@gmail.com
857-264-9460

MEMBERS

\$40/\$50 Walk-In

NON-MEMBERS

\$50

STUDENTS/MIT/RETIRED SPE

\$15

The SPE Gulf Coast Section Scholarship Endowment Fund Needs You

BY DR. IVOR R. ELLUL, ADVANCEMENT CHAIR

Over the past two years we have witnessed challenging times in our industry. The continuing low oil and gas prices have resulted in a dramatic reduction in upstream activity worldwide. Thousands of our colleagues have lost their jobs, companies have gone bankrupt, and universities have seen a big drop in new students entering petroleum engineering.

Education continues to be the cornerstone of the energy industry, and our Society has prided itself in helping students join our ranks by providing annual scholarships. We have awarded more than \$3 million in scholarships over the last 15 years. This is a legacy that we wish to build on in order to sustain the future of our industry.

The Gulf Coast Section's newsletter advertising and golf, tennis, and sporting clays tournaments have historically provided most of the funding for our scholarships. Unfortunately, these fundraising methods have taken a huge hit as sponsorships have dropped. To decouple our scholarship revenues from the price of oil, we have developed a Scholarship Endowment Fund that will sustain the annual scholarship awards without our having to cut both the number and the amount of student scholarship checks, as we had to do this year. The Fund has been launched with \$100,000, comprising GCS funds and generous personal donations.

We now ask you to participate in building a legacy through tax-deductible charitable giving. Such charitable giving can be as simple as a cash or check donation to the section or, alternatively, can take the form of securities, real estate assets, or even life insurance. We have established an Advancement Committee to manage this initiative, and we hope you will contribute.

A donation form can be provided by the Advancement Committee. Email us at sef@spegecs.org. We are available to answer any questions that you may have.

Many SPE-GCS Scholarship winners have gone on to become SPE technical and managerial leaders in our industry. Future generations of petroleum engineers will be indebted to you for your generosity.

Members in Transition Initiative

12TH 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 who are looking for new career opportunities. The agenda for the 12th seminar in the series will include “Marketing Strategies for Job Search Success (Even in a Tight Economy!),” “Staying Relevant (Employable) in an Evolving Industry,” “Take Charge of Your Career Development,” and a discussion of resources for SPE members.

Program 1: Marketing Strategies for Job Search Success (Even in a Tight Economy!)

If you’ve been relying on online job postings and outdated resume formats, you’re probably feeling discouraged, frustrated and demoralized in your job search. Did you know that 80% of all jobs are not posted anywhere? Or that in Houston, even in this tight economy, we are still creating two jobs for every one that is filled? A job search can become a fun adventure when you approach it with the right strategies. This talk will give you the basics you need to minimize the time you spend between paychecks.



TERRY SUFFREDINI

After earning her degree in chemical engineering from UT-Austin, Terry Suffredini spent more than two decades working in the environmental field. She later transitioned into process design and then into project management, working mainly with large midstream oil and gas EPC projects. Recently, Suffredini retired from active engineering to focus on her business. A certified Life and Career Coach, Suffredini uses her extensive experience and demonstrated abilities to help fellow engineers excel personally and professionally.

Program 2: Staying Relevant (Employable) in an Evolving Industry

We’ll explore what has kept people relevant in the past, and we can speculate about future trends and how we will need to change to stay relevant in the future. We’ll also look to other industries to understand what might be important.



STEVE RANDOLPH

Steve Randolph graduated in 1982 with a BS in Petroleum Engineering from the Colorado School of Mines. He has spent the past 34 years employed by Anadarko or predecessor companies that were acquired by Anadarko. Randolph has worked in all types of upstream engineering challenges and has managed teams of people to develop

assets and to make a technical difference at Anadarko. He’s currently a technology director for production.

Program 3: Take Charge of Your Career Development

Do you wonder why you should even bother with career development? Do you just go with the flow and wait to see what comes along? Now is the time to take charge of your professional growth. This workshop will highlight the importance of being engaged and taking charge of your career progression. Rachel Walden will discuss concrete steps to manage and develop your career.



RACHEL WALDEN

Rachel Walden has 26 years’ experience in coaching, leadership, and professional development, with a focus on talent management and career development. She has worked in technology, banking and oil and gas. Her current role at Halliburton includes delivering training, tools and resources to enable employees to take ownership of their careers and

to enhance their leadership skills. She holds a BA in German and Italian and is in her final year of studies for an MS in coaching and behavioral change.

EVENT INFO

FRIDAY

1.27.17

10:00 AM – 3:00 PM

SPEAKERS

Terry Suffredini
Career/Life Strategist for Engineers
The Engineer’s Coach

Steve Randolph
Director, Production
Engineering Technology
Anadarko Petroleum Corporation

Rachel Walden
Global Talent Manager-
Implementations
Halliburton

LOCATION

Houston Technology Center
410 Pierce St
Houston, TX 77002

EVENT CONTACT

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

SPE-GCS STUDENT CHAPTERS

UNIVERSITY OF HOUSTON

November Networking Event Update

The Society of Petroleum Engineers University of Houston Student Chapter congratulates members Yan Song, Rakib Morshed, and Dharmik Mehta for their tireless efforts toward creating our successful networking event.

UHSPE was joined by over 25 professionals and more than 70 UH students during the November 18 event. Industry professionals representing a rich variety of backgrounds joined students in exchanging information, experiences and advice. Following a warm welcome to the event by Chapter President GQ Guo, Dr. Konstantinos Kostarelos and Yan Song presented. During his speech, Industry Liaison Yan Song proudly announced the creation of a new Industry Advisory Committee for our chapter and concluded by personally introducing each committee member.

Attendees also participated in a trivia contest that challenged their knowledge of the oil and gas industry. Both students and professionals enjoyed putting their practical experience and engineering education to the test against one another. Once again, we congratulate our members and thank all those who attended for helping maintain our chapter's reputation of student success and excellence. We look forward to hosting more successful events for both students and professionals in the future.



TEXAS A&M UNIVERSITY

Fall 2016 At-A-Glance

Last semester was a busy one for TAMU-SPE! From general meetings to Lunch & Learns, tailgates to profit shares, and field trips to school visits, we immensely enjoyed all of it.

We started off the semester with the launch of our Student Mentorship Program, which has proven to be a success. We also hosted our annual Career Enhancement Event, with over 600 students and 27 oil and gas companies attending. TAMU-SPE was honored to accept the Outstanding Student Chapter Award at ATCE in Dubai.

Our Philanthropy Committee has teamed up with BUILD, a student organization striving to build and send out portable medical clinics around the world by transforming shipping containers. TAMU-SPE Philanthropy is also participating in the Adopt-A-Street campaign and has held several cleanup days to help maintain our beautiful city.

The Technical Development Committee has organized various workshops to help students hone their skills and learn new software. Don-Nan joined TAMU-SPE on a beam pump workshop that covered the various aspects of beam pumping and issues in the wellbore. We also had software training workshops on VBA programming and FracGeo.

TAMU-SPE continues its public outreach campaign to engage children and future petroleum engineers. Our Outreach Committee has been engaging with the community through elementary school STEM Nights and classroom visits. The Recruitment Committee has given several high school tours around our department in addition to attending the Freshmen Seminars that the College of Engineering hosted.

TAMU-SPE sincerely thanks each and every one of you who helped make these events possible for us. We're excited to see where 2017 takes us and what the new semester has in store!



Student Chapter Directory

HOUSTON COMMUNITY COLLEGE

Raymond McCoy
rqm3rd@yahoo.com

RICE

Yichen Liu
astron.liuy@gmail.com

TEXAS A&M

Alex Lambros
alex.lambros@tamu.edu

UNIVERSITY OF HOUSTON

GQ Guo
president@uhspe.org

SPE-GCS STUDENT CHAPTERS

RICE UNIVERSITY

Community Service - Project Pumpkin

On October 29, we hosted an activity booth for the Project Pumpkin event at Rice University. We provided a vivid, hands-on illustration of a hydraulic fracturing process using jelly. Our booth attracted lots of children from all over Houston.

SPE Rice Chapter Advisory Board Kickoff Meeting

On November 2, our Advisory Board project was launched! We invited our advisors from Rice alumni and industry representatives to give student members advice and help them build personal connections. During our kickoff meeting, Dr. George J. Hirasaki gave a welcome talk. Our President, Patrick Dong, provided an overview of our chapter and the Advisory Board project. That was followed by a discussion among all members. The kickoff meeting was very successful, and we will provide more help to our student members.

Field Trip to Schlumberger

On November 10, we organized a field trip to Schlumberger oilfield service company in Houston. Student members were invited to visit the fluid lab and the rock lab.

Movie Night

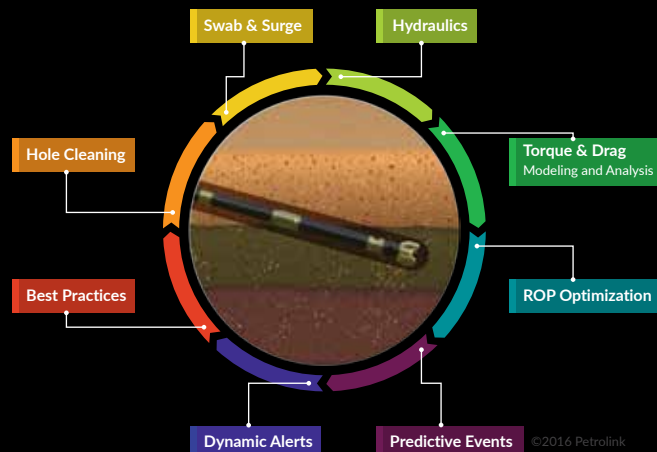
On November 19, we held a movie night at Rice University. We showed the energy-themed movie *Switch: Discover the Future of Energy*. Our members enjoyed this meaningful documentary and socialized with the SPE advisor and officers.



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SPE-GCS CONNECT

EVENT

RECAP

The SPE-GCS Young Professionals team worked on renovating and restoring a home affected by recent flooding and storms.

The motto of Rebuilding Together – Houston is “repairing homes, restoring hope.” The owner of the home is Ms. Hines. She lives alone and has trouble moving around. She was beyond ecstatic once the work was completed. We are proud to bring such joy and hope to Ms. Hines. It was an absolute pleasure to see her home rebuilt in a manner that will give her a safe residence for years to come!



Young Professionals - Rebuilding Together - Houston



Young Professionals - Rebuilding Together - Houston



Young Professionals - Rebuilding Together - Houston



Young Professionals - Rebuilding Together - Houston



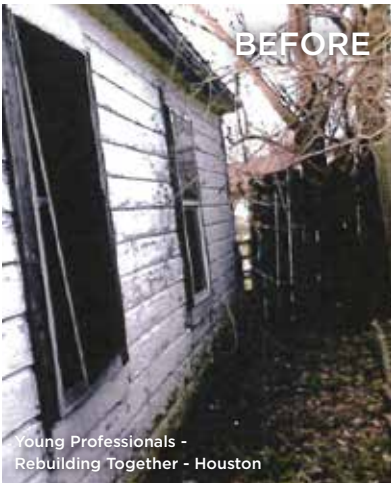
Young Professionals - Rebuilding Together - Houston



Young Professionals - Rebuilding Together - Houston



Young Professionals - Rebuilding Together - Houston



BEFORE

Young Professionals - Rebuilding Together - Houston



AFTER

Young Professionals - Rebuilding Together - Houston



Young Professionals - Rebuilding Together - Houston



BEFORE

Young Professionals - Rebuilding Together - Houston



AFTER

Young Professionals - Rebuilding Together - Houston



E Cell Meeting - Innovate Committee

The Entrepreneurship Cell - a sub-committee under the Innovate Committee held an event on November 17. The SPE Entrepreneurship Cell focuses on educating and connecting entrepreneurs, decision-makers and investors through regular publications, talks, business case competitions, and deal-flow events. This initiative aims to share success stories and learnings from existing oil and gas startups with the SPE community and to become the one-stop knowledge transfer shop for any oil and gas entrepreneur. Our speaker was Ajay Kshatriya, CEO of Biota Technologies.



E Cell Meeting - Innovate Committee



E Cell Meeting - Innovate Committee

Committee: Auxiliary

Special Announcement

The SPE Auxiliary will not meet in January. Our Annual Meeting will be in February. This will be our last Annual Meeting. The Auxiliary is dissolving after 40+ years. Look for details in the February newsletter.

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deepak.gala@shell.com

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281-704-3664
trey.shaffer@erm.com

PAST CHAIR / ADVANCEMENT COMMITTEE

Ivor Ellul, CiSK Ventures
713-240-2740
iellul@ciskventures.com

SECRETARY

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

TREASURER

David Flores
281-381-5828
david_p_flores@yahoo.com

VICE TREASURER

Prashant Sainani, ConocoPhillips
214-315-5427
prash87@gmail.com

Board Committee Chairs

CAREER MANAGEMENT, MIT

Sunil Lakshminarayanan, Occidental
713-344-1249
sunil_lakshminarayanan@oxy.com

C. Susan Howes,
Subsurface Consultants & Associates
713-789-2444
c.susan.howes@gmail.com

COMMUNICATIONS

Bryan Marlborough,
Gate Premier Solutions
985-232-0318
bryan.marlborough@gmail.com

COMMUNITY SERVICES

Lisa Li, Williams
281-814-6849
yuli2008@comcast.net

EDUCATION

Simeon Eburi, Chevron
832-854-3134
simeon.eburi@chevron.com

INNOVATE COMMITTEE

John Reichardt, RPS Group
713-595-5121
john.reichardt@rpsgroup.com

MEMBERSHIP

Kris Pitta
281-658-3708
pittakris@gmail.com

PROGRAMS

Fady Chaban, CDEUS
832-387-7249
chabanf@gmail.com

SOCIAL ACTIVITIES

James Jackson
281-376-1993
jjackson5223@gmail.com

YOUNG PROFESSIONALS

Nii Ahele Nunoo, NOV
507-304-5416
nii.nunoo@nov.com

DIRECTORS AT LARGE 2016-2018

Mohammad Tabatabaei
Newfield Exploration
281-674-1535
mtabatabaei@newfield.com

Robert Estes
713-204-5141
ra-estes@att.net

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

DIRECTORS AT LARGE 2015-2017

John "J.J." Jackson, Unimin Corp.
832-247-0233
jsjackson@unimin.com

Alvin Barber, Schlumberger
713-689-2725
abarberspe@gmail.com

Mark Fleming, Suntrust Robinson Humphrey
832-603-2305
mark.fleming@suntrust.com

SPE GULF COAST NORTH AMERICA REGIONAL DIRECTOR

J. Roger Hite, Inwood Solutions, LLC
713-385-5343
hite@inwood-solutions.com

Committee Chairs

AUXILIARY

Nancy Giffhorn
rgiffhorn@aol.com

OILFIELD GAMES

Lindsey Ferrell, Frontline Group
spevolunteer@frontline-group.com

AWARDS BANQUET

Jeremy Viscomi,
Petroleum Technology Transfer Council
jviscomi@pttc.org

ESP WORKSHOP

Barry Nicholson, OXY
barry-nicholson@oxy.com

GOLF CO-CHAIR

Robin Smith
robin77095@att.net

INTERNSHIPS

David Li, DSL Ocean Group
dsl6625@yahoo.com

NEWSLETTER

Brittini Romero, Unimin
editor@spegcs.org

PUBLICITY

Pablo Perez, Bardasz
pablo.perez@bardasz.com

SCHOLARSHIP

Jennifer Pinnick, Chevron
gcssholarship1@gmail.com

SPONSORSHIP

David Pantoja, Citi A&D Group
david.pantoja@citi.com

SPORTING CLAYS

Paul Conover, NOV
paul.conover@nov.com

TENNIS

Erin Chang, BP
erin.chang@bp.com

WEB TECHNOLOGY

Lindsey Newsome,
Newsome Marketing Group
lindseynewsome@gmail.com

Study Group Chairs

BUSINESS DEVELOPMENT

David Pantoja, Citi A&D Group
david.pantoja@citi.com

COMPLETIONS & PRODUCTION

Jonathan Godwin
jongodwin@hotmail.com

DRILLING

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

GENERAL MEETING

Robert Saucedo, ASHMIN
rsaucedo@ashmin.com

HSSE AND SOCIAL RESPONSIBILITY

Trey Shaffer, Environmental Resources
Management (ERM)
trey.shaffer@erm.com

INTERNATIONAL

Mary Beth Snodgrass, Local Content LLC
mbs@localcontent.com

NORTHSIDE

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

PERMIAN BASIN

Amy Timmons
atimmons1114@gmail.com

PETRO-TECH

Jessica Morgan, Blackstone Minerals
jmorgan@blackstoneminerals.com

PROJECTS, FACILITIES, CONSTRUCTION

Chris Shaw, Shell
c.shaw@shell.com

RESEARCH & DEVELOPMENT

Kitty Harvey, Cameron
kitty.harvey@c-a-m.com

RESERVOIR

Freddy Alvarado, Chevron
freddy.alvarado@chevron.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.lovings@corelab.com

CONNECT

INFORMATION

EDITOR

Brittni Romero | editor@spegcs.org

ADVERTISING COORDINATOR

advertising@spegcs.org

BOARD LIAISON

Bryan Marlborough
bryan.marlborough@gmail.com

LAYOUT & DESIGN

DesignGood | designgoodstudio.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.
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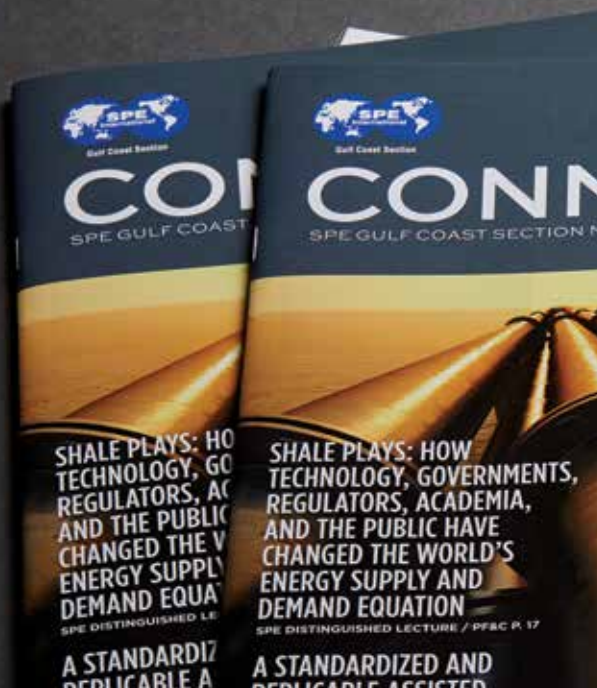
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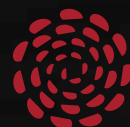
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Our Gulf Coast Section is one of the most prominent sections in all of SPE and regularly receives the organization's President's Award for Section Excellence. Members of SPE-GCS enjoy discounted pricing on study group presentations and other events, such as the highly successful Members in Transition seminar series.

Members can also post their resumes on the SPE-GCS online job board. They receive a subscription to *Connect*, the SPE-GCS newsletter.

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January 2017 CALENDAR

SUNDAY	MONDAY SPE-GCS Office Closed	TUESDAY	WEDNESDAY Reservoir	THURSDAY	FRIDAY SPE-GCS Office Closed	SATURDAY
1	2	3	4	5	6	7
8	9	HSSE-SR Northside	Drilling	General Meeting	Cont. Ed/Career Mgmt	14
15	16	Reservoir Permian Basin	Westside Data Analytics Initiative	Board of Directors Completions & Production	SPE-GCS Office Closed Cont. Ed/Career Mgmt	21 Young Professionals
22	23	24	HSSE-SR Business Development	25	Cont. Ed/Career Mgmt Members in Transition (MIT)	28
29	30	31				