



Gulf Coast Section

JUNE/JULY
2017

CONNECT

SPE GULF COAST SECTION NEWSLETTER

17TH ANNUAL SPORTING CLAYS TOURNAMENT

SPORTING CLAYS P. 24

DEEPWATER PROJECTS: NEW TECHNOLOGIES DRIVING DOWN DEVELOPMENT COSTS

PROJECTS, FACILITIES & CONSTRUCTION P. 11

INVESTING IN OIL & GAS: PERSPECTIVES FROM GROWTH EQUITY & PRIVATE EQUITY

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EMERGING ENGINEERS CONFERENCE 2017

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CHAIR'S CORNER

DEEPAK M. GALA, SHELL

2016-2017 SPE-GCS Chair



ONE YEAR ALMOST OVER

Time flies — especially when you and your team are productive! The June and July issues of *Connect* are combined into one summer issue. My term as Chair ends July 31. In the August *Connect*, I will provide an update on our goals and how the Gulf Coast Section performed in fiscal year 2016-2017. Chair's Corner for August *Connect* will be an interview with my good friend and incoming Chair Trey Shaffer.

2016-2017 was a transition year for our industry. Oil prices and onshore rig counts reached bottom and began trending upward. OPEC endorsed oil production cuts to bring stability to the oil price markets. Professionally, my employer, Shell, completed the acquisition and integration of BG and set out a strategy for the future.

For my last Chair's Corner, I would like to provide a short note on **reducing the CO₂ intensity of the industry and climate change**, which we all are aware of and may affect most of us in some way or other.

At the 2015 Paris climate conference, 196 countries adopted an agreement that, as of November 2016, entered into force as 55 countries that account for at least 55% of global greenhouse emissions have deposited their instruments of ratification. The agreement sets out a plan to avoid dangerous climate change by limiting global warming to well below 2°C. As of April, 195 UNFCCC members have signed the treaty. The Paris Agreement acknowledges that different nations have different capacities for and duties to climate action. The agreement makes clear that developed countries must take the lead in reducing greenhouse gases. They must also provide financial resources to help developing countries succeed in their aims. The agreement is to be reviewed every five years.

One of the main elements of the agreement affecting our industry is significantly reducing greenhouse gas emissions. EPA studies indicate oil- and gas-related emissions consist of about 80% carbon dioxide and 20% methane. Coal is 30% more carbon intensive than oil and 70% more than gas. Switching from coal to gas in power/electric generation can reduce CO₂ emissions, and this replacement has been happening in many countries over the last decade. CCS or CCUS storing CO₂ safely underground is considered to be another key technology in a lower-carbon energy system, a process in which companies could reduce the large CO₂ streams vented in the atmosphere at refineries and natural gas processing plants by separating, capturing, compressing, and storing CO₂ deep underground. One such commercial-scale project is under way at Gorgon gas processing facility.

Various initiatives are under way to tackle climate challenges related to fossil fuels. SPE will form workshops on capturing and storing CO₂ emissions and new technologies in effectively dealing with methane emissions/leaks. One is OGCI Climate investments, where methane is one of the main priorities. OGCI Climate investments was set up with 10 IOC and NOC partners, with the aim to spend \$1 billion on low-carbon technologies. Individual companies have their own initiatives.

For a successful implementation of the Paris Agreement, the oil and gas industry and SPE can play a pivotal role. For today is not like yesterday — we will have to adapt!

SPE-GCS UPDATE

Drilling & Permian Study Groups

The **Drilling** and **Permian Basin** study groups had their annual symposia on April 13 and 18, respectively. Speakers represented Shell, Halliburton, Occidental Petroleum, Pioneer Natural Resources, Energent, Pinnacle, Weatherford, PetroSkills, University Lands, Texas Oil & Gas Institute, UpCurve Energy, and Laura Freeman Consulting. Both events were sold out. GCS generated close to \$12,000 equivalent for scholarships.

ESP Symposium

On the week of April 24, the **ESP Symposium** had its biannual event. This was the first year the event was established as a symposium: All papers were registered manuscripts, attracting industry-recognized authors and high-quality papers. The 14 sessions covered 36 papers, 33 main presentations, and three poster sessions over a 3½-day technical program. Numbers from the event point to a more stable oil industry than when the last event was held in 2015, rebounding from 363 registrants to 560 registrants from 29 countries. It was also the first time 39 vendors exhibited in 60 booths. We were fortunate to receive over \$30,000 in sponsorship money. Net profits increased from \$87,000 in 2015 to around \$200,000 in 2017. This single event supports most of the scholarship expenses for GCS.

I really appreciate the Drilling and Permian study groups and the ESP Symposium Committee for their efforts with these successful events.

Stay engaged, stay safe,

Deepak M. Gala

June/July 2017

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STUDY GROUP PRICING

(unless specified separately)

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NON-MEMBERS
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STUDENTS/MIT/RETIRED SPE
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SPE-GCS VOLUNTEER SPOTLIGHT

This month the SPE Gulf Coast Section is excited to feature Leonard Johnson and Ernesto Valbuena as Volunteers of the Month.



LEONARD JOHNSON

L

eonard has been involved with SPE since 2013, when he began attending Young Professionals networking and volunteering events. Since then, he has served three years as a member of the Young Professionals Board of Directors.

“It’s highly enjoyable to team with like-minded individuals to bring energy and ideas that directly benefit our community and the next generation of engineers,” he says. Currently, Leonard serves as Young Professionals Treasurer.

Leonard is an Operations Engineer at Swift Energy Company. He works across the Production and Facilities department to ensure environmental compliance with local, state and federal regulations. He previously held roles as a Production Engineer and Facilities and Construction Engineer. Leonard holds bachelor’s degrees in mechanical engineering and industrial engineering from Louisiana State University. He recently passed the Professional Engineering Exam for Petroleum Engineering and is completing work to attain his Professional Engineering License.

Leonard is passionate about serving the Houston community. As the previous Community Outreach Coordinator for the Young Professionals Board, he led fellow Young Professionals to volunteer with C.Y.C.L.E. and MATHCOUNTS Competition series to encourage elementary students to achieve academic success. The Community Outreach Committee also helped repair homes for the elderly through Rebuilding Together Houston. Leonard also serves as an Apple Corps Leader for the Houston Food Bank, where he volunteers monthly.

“Serving has a trifold benefit of helping others, genuinely connecting with people, and self-discovery,” Leonard says. “For that reason, it should be adapted into everyone’s ethos. I’m very happy to have realized and witnessed this through my involvement in an organization such as SPE.”



ERNESTO VALBUENA

E

rnesto began volunteering for SPE while completing graduate studies at Texas A&M University. From 2010 until 2015, he held positions including officer, board executive, and committee director, working with chapter volunteers to organize professional development events for more than 1,000 future petroleum engineers.

Upon graduation, Ernesto joined the SPE Gulf Coast Section Young Professionals Board. He currently serves as Vice Chairman, supporting activities for local members and communities. In addition, Ernesto serves as Reservoir Dynamics and Description YP Liaison for the SPE International Group and technical committee member for the Latin American and Caribbean Petroleum Engineering Conference.

Ernesto works at Chevron Energy Technology Company as Lead Reservoir Engineer. He focuses on simulation of integrated reservoir-network production systems for multiple offshore assets and supports enhancements and testing for the INTERSECT reservoir simulator.

He holds a PhD (2015) and MS (2011) from Texas A&M and a BS from La Universidad del Zulia, Venezuela (2008), all in petroleum engineering.

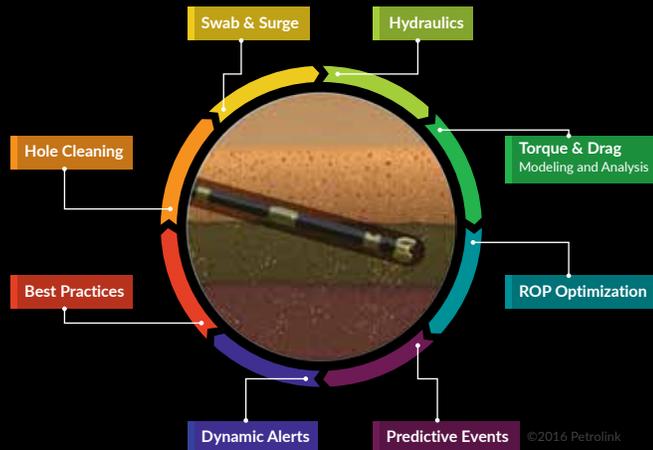
The SPE activities that Ernesto enjoys the most are working with friends and colleagues in organizing and hosting events that benefit professional and personal growth. He also enjoys participating in community outreach activities and education support to local institutions.

THANK YOU BOTH FOR ALL THAT YOU DO FOR SPE!

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WORTHWHILE CONVERSATIONS

SOCIAL SECURITY: WHAT EVERY WOMAN NEEDS TO KNOW...

Q: Why so much buzz of late about women and Social Security?

Longevity means most women spend more time in retirement than men, and therefore spend more money. Yet the latest Social Security data shows two-thirds of women elect to take early (and, therefore, discounted) monthly payments. They could be locking themselves into a reduced lifestyle. Less than 3% of women wait until age 70 to begin, allowing them to collect the maximum monthly payment available.

Q: Is taking benefits early a mistake?

It depends on your situation. A recent survey reported one in five of the women who started their benefits early wished they could change their decision and start later. But rules on "do-overs" are very restrictive. The real mistake is making a casual decision about starting benefits without running a full analysis. Thorough analysis considers a family's other resources, multiple life expectancies, and income tax exposure. It takes sophisticated software.

Q: Are there other mistakes which prove costly to women?

A common mistake concerns divorce. A woman divorcing near the 10-year mark

of her marriage needs to understand the rules, especially if she has been a stay-at-home mom, or has the lower earnings. Social Security allows a divorced spouse to claim on the ex-spouse's record only if the marriage lasted at least 10 years. Miss the 10-year mark by one day and you lose. Another common mistake by men and women is failing to collaborate with their spouse on this planning. This can be costly. We've run numbers for Houston clients and the differences can be as much as \$100,000.

Q: Any final words of caution?

Be careful about "advice." In our 45 years of advising clients, we've seen sellers of financial products, such as annuities, using Social Security seminars as disguised sales pitches. Get help from a firm that uses the same model we do at Linscomb & Williams, operating as a fiduciary with client-centered advice 100% of the time and selling no products. Is your advisor qualified to prepare and interpret the analysis? Our experienced staff – CFP[®] Practitioners, CPAs, CFA[®] Charterholders, and Attorneys – is ready to meet at our Houston Galleria or Woodlands offices.



The Linscomb & Williams team discuss issues related to women and Social Security. (Left to right: Phillip Hamman, CFA, CFP[®]; Ryan Patterson, CFA, CFP[®]; J. Harold Williams, CPA/PFS, CFP[®]; Carolyn Galfione, CPA, CFP[®]; Heidi Davis, CPA/PFS, CFP[®])

Linscomb & Williams is not an accounting firm.

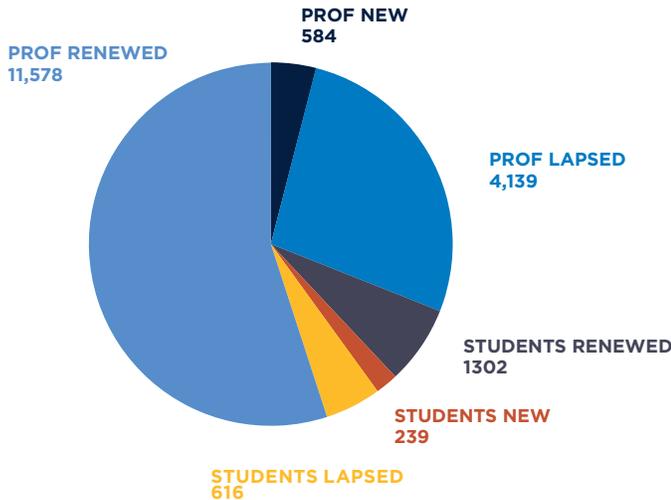
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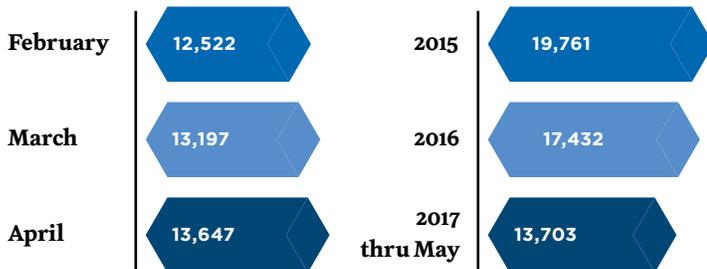
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SPE-GCS MEMBERSHIP REPORT Through June 2017

TOTAL SPE-GCS MEMBERSHIPS



CURRENT MEMBERSHIP TRENDS



STUDENT MEMBERSHIPS

STUDENTS	RENEWED	NEW	TOTAL
HCC	35	17	52
Prairie View	17	2	19
Rice	64	63	127
Texas A&M	818	93	911
UH	342	63	405
Unassigned	26	1	27
TOTALS	1302	239	1541

*This chart does not reflect lapsed student memberships

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Thursday 6.1.17
11:30 AM - 1:00 PM

SPEAKER

Joe Eaton
Technical Lead, Accelerated Graph
& Data Analytics
NVIDIA

LOCATION

TBD

EVENT CONTACT

Supriya Gupta
supriya026@gmail.com

DATA ANALYTICS

Improving GPU Performance for Large-Scale Analytics

Joe Eaton will discuss the latest GPU-accelerated databases, graph analytics use cases, and how all of this can fit into an existing workflow based on SPARK or HDFS.

JOE EATON



Joe Eaton is the Technical Lead for Accelerated Graph and Data Analytics at NVIDIA. Previously, he was Chief Scientist at Object Reservoir, producing finite element-based three-phase reservoir simulations with automated adaptive meshing technology. He was then VP of Engineering at Algebraix Data, leading a development team to produce a high-performance SPARQL query engine. He joined NVIDIA in 2013 to work in the CUDA Libraries team on sparse linear algebra methods. Eaton holds a PhD in computational and applied mathematics from the University of Texas at Austin, a master's in mechanical engineering from Stanford University, and a bachelor's in mechanical engineering from Rice University.

Events Sponsors 2017



Sponsor Contacts

Jordan Thomas
jordan.thomas@accenture.com
678-596-277

Matthias Bloennigen
mattias.bloennigen@accenture.com
281-224-8586



Thursday 6.1.17
11:30 AM - 1:30 PM

SPEAKERS

Fred Dupriest
Kerri Smith
Clois E. (Bert) Powell

LOCATION

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

EVENT CONTACT

David Gerrard
david.gerrard@cdipproducts.com

RESEARCH & DEVELOPMENT

How Evolutions Under Way in Academia Are Helping the Energy Sector Solve Problems

These are interesting times indeed for the oilfield. The massive economic and geopolitical changes across the Gulf Coast, and within commercial sectors in general, have been noticed in academia and have led to new programs and services that show promise to help businesses address the new realities. A distinguished panel of leaders from academia will share their views on the evolutions that are under way at their institutions, how these changes are helping the energy sector and others solve problems, and what new changes may be on the horizon.

FRED DUPRIEST

Fred Dupriest retired in 2012 as the Chief Drilling Engineer after 35 years with ExxonMobil. He is a Professor of Engineering Practices at Texas A&M, where he has taught High Performance Drilling Practices and a senior capstone drilling design class.

KERRI SMITH

Kerri Smith joined Rice University in 2004. She serves as Associate Managing Director of the Rice Alliance for Technology and Entrepreneurship, Managing Director of the OwlSpark startup accelerator, and Director of the NSF-sponsored Innovation Corps program.

CLOIS E. (BERT) POWELL

Bert Powell helped lead the creation of Texas State University's Materials Science, Engineering, and Commercialization PhD Program. Before he joined Texas State in 2004, his 28-year career included stints at Southern Clay Products, Sherwin-Williams, and Glidden.

BUSINESS DEVELOPMENT

Marathon Oil Corporation's Corporate Realignment

Over the last two years, Marathon Oil has made considerable progress on its path as an independent E&P with a substantial shift to the lower-cost, higher-margin opportunities in the US resource plays. In 2016, the company simplified its portfolio through the successful execution of \$1.3 billion in non-core asset sales and opportunistically acquired a high-quality position in the Oklahoma STACK play. In March, the company announced its entry into the Permian Northern Delaware Basin and, concurrently, the divestiture of its Canadian oil sands mining business. The portfolio is rounded out with Marathon's established Bakken and Eagle Ford positions.

PATRICK J. WAGNER



Patrick J. Wagner is Senior Vice President of Corporate Development and Strategy for Marathon Oil. He has responsibility for business development, marketing, resource exploration, and strategic planning. He joined the company in 2014. Wagner previously served as Senior Vice President, Western Business Unit, for QR Energy LP and the affiliated Quantum Resources Management; Managing Director at Scotia Waterous; and Vice President, Gulf of Mexico, for Devon Energy Corp. Prior to Devon, he served in various roles with Ocean Energy, The Scotia Group, and Exxon. He holds bachelor of science and master of science degrees in petroleum engineering from the University of Missouri-Rolla.



Wednesday 6.28.17

5:00 PM - 7:00 PM

SPEAKER

Patrick J. Wagner
Senior Vice President of
Corporate Development
Marathon Oil Corporation

LOCATION

Four Seasons Hotel
1300 Lamar St
Houston, TX 77010

EVENT CONTACT

John Campbell
john@percussionpetroleum.com



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PROJECTS, FACILITIES, AND CONSTRUCTION

Deepwater Projects: New Technologies Driving Down Development Costs

The drop in oil prices has put high-cost projects such as deepwater developments under intense scrutiny. This workshop will address ways to make deepwater projects profitable at current commodity prices and viable over the long term. One of the themes of these opportunities is that it is within industry control to employ novel technology solutions. The deepwater industry can also reduce development costs through standardization and simplification.

This workshop is designed for both operators and technology providers who are interested in driving down the cost of deepwater developments in the “lower for longer” price environment.

SCHEDULE

- 8:00 AM Welcome/Intro/Safety – Chris Shaw, Shell
- 8:15 AM Low-Cost DW Developments: Where Are the Savings (Keynote) – Sandeep Khurana, Granherne
- 8:55 AM Mist Gas Contactor/Dehydrator – Shwetha Ramkumar, Exxon/Sulzer
- 9:35 AM Compact Separation VIEC Technology – Andreas Matzakos, Shell
- 10:15 AM Coffee Break
- 10:35 AM CDX Compact Deoxygenation – Luis Caires, Cameron/Schlumberger
- 11:15 AM Flexibles and Optimized Development Costs – Bruno Silva, Technip
- 11:55 AM Lunch
- 12:55 PM Practical Steps Toward FPSO Cost Reduction – Eric van Dyk, SBM Offshore
- 1:35 PM Subsea Pumping/Dalmation – Mike Clarke, Murphy
- 2:15 PM Coffee Break
- 2:35 PM Rigless Intervention – Neil Crawford, Oceaneering
- 3:15 PM Subsea Pig Launcher Enabling Single Flowline Architecture – Mayela Rivero, Total, and Marius Bjorn, NOV
- 3:55 PM Wrap-Up – Chris Shaw, Shell



Wednesday 6.28.17

8:00 AM - 4:15 PM

LOCATION

A&M Mays Center
at City Center Houston
800 Town and Country Blvd
Houston, TX 77024

EVENT CONTACT

Chris Shaw
c.shaw@shell.com

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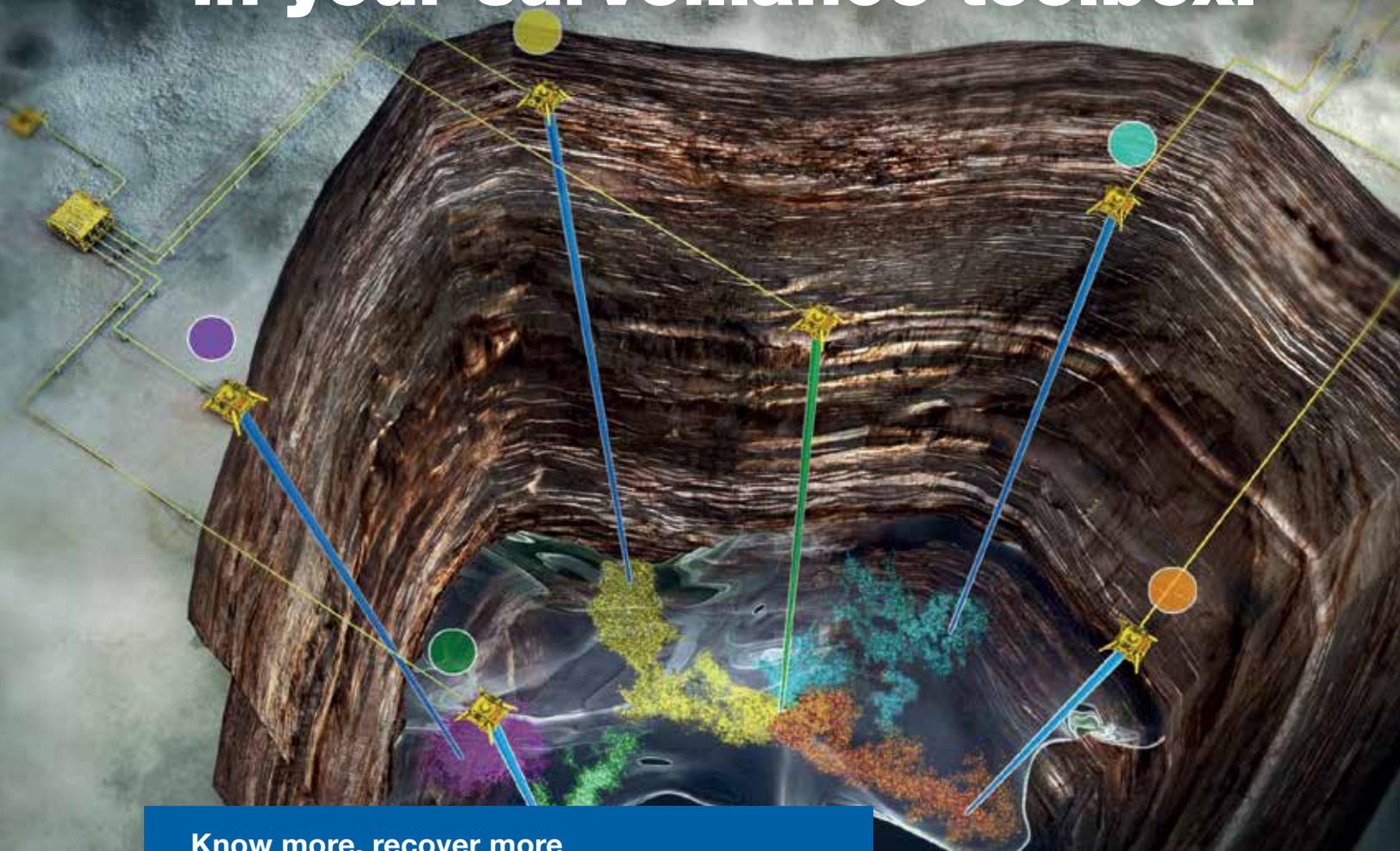
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Where Are They Now?

PAST SCHOLARSHIP WINNERS

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

Receiving the SPE-GCS scholarship helped put me on a productive and exciting career track, and it helped me see opportunities I likely would have missed otherwise. The challenges of Rice's engineering coursework and the camaraderie of my fellow engineering students working together to grasp complex technical issues rank among my best college memories.

The confidence gained from my engineering coursework, along with the strong interest in entrepreneurship, led to a wide-ranging career, including roles as investment banker, energy consultant, technology director, sales executive, corporate strategist, and elected politician. Several of my ventures have been true startups, and I am grateful to have worked in a variety of industries, including healthcare, banking, construction products, upstream oil and gas, refining and petrochemicals, and oilfield services.

The SPE-GCS scholarship really helped focus my thinking on my undergraduate education. The funds were needed to help pay for a top-notch engineering education, one that I still use daily. Walking into just about any room with an engineering degree puts you at an advantage. Engineering is a challenging degree to obtain, but even if you never practice as an engineer, that set of skills and rational thought processes will put you far ahead of others in the marketplace.

When I was young, someone wise told me that whenever you face a choice between alternatives, choose the more difficult one. The skills you learn will serve you well, and you will advance much faster than those around you. I have found these words to be very true, and I would encourage others to consider them as they make decisions.

R. MICHAEL "MIKE" HANEY



CAREER OVERVIEW

Founder, Haney Energy Advisors

- Pasadena High School – 1982
- Rice University, BS in mechanical engineering – 1987
- University of Texas at Austin, MBA

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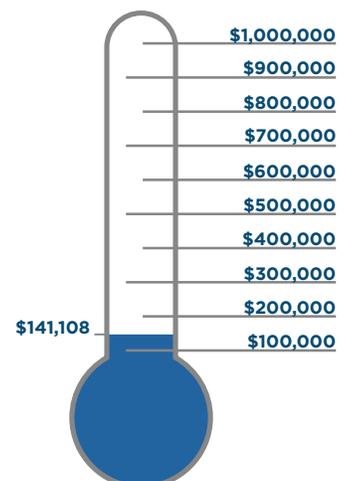
spegcs.org/spegcs-scholarship-fund/

SPE-GCS Scholarship Fund Update

We are excited to announce the status update for our fundraising efforts. As of May 1, 2017, we have raised **\$141,108*** 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



* excludes pledges

How To Be Noticed and Be Taken Seriously

A Millennial and a Mongoose Walked Into a Bar... In this interactive lecture, you will be introduced to the basics of communication and learn what communication strategies and techniques to use to get people to pay attention to you and to project an image of confidence and competence.

DAVID PELTON



Dr. David Pelton has been a professional communicator for over 45 years and has taught courses in communication and communication-related subjects for a number of training/development organizations. He is a member of numerous training institutes and societies and enjoys a national and international reputation as a communications consultant, lecturer, trainer, and coach.

ONLINE REGISTRATION
spegcs.org/events/3605/

LOCATION
Chevron Auditorium
1500 Louisiana St
Houston, TX 77002

EVENT INFO

TUESDAY

6.6.17

6:30 PM - 8:30 PM

SPEAKERS

Dr. David Pelton
President
Pelton Communications

EVENT CONTACT

Doo Hyun Chung
909-451-3362
cdhdc77@gmail.com

MEMBERS/NON-MEMBERS

\$25/\$30

MIT/STUDENTS

\$15

5

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Emerging Engineers Conference 2017

The SPE-GCS Young Professionals Committee organizes the annual Emerging Engineers Symposium, a one-day conference focused on early-career engineers and professionals in the upstream oil and gas industry. Now in its 10th year, the event provides a technical overview of the industry, covering the latest innovations and applications, as well as networking opportunities for an estimated 300 young professionals.

Considering the current market climate, this year's theme is "Operational & Capital Efficiency in the Upstream Oil & Gas Industry." Bill Thomas, CEO of EOG Resources, is the keynote speaker. Matt Gallagher, COO of Parsley Energy; David O'Conner, Head of Global Projects at BP; and George King, Global Technology Engineering Advisor at Apache Corporation, are a few of the distinguished speakers at EES 2017.

Energy industry leaders will speak on upstream sector topics including Big Data, digitization, capital efficiency, and emerging technologies. They will also discuss value-adding strategies during downturns and how they survived and thrived in the industry. There are two breakout sessions, two presentations simultaneously in two rooms, at 10:15 and 11:00 AM.

Schedule

- 7:30 AM Breakfast & Registration
- 8:15 AM Opening Remarks
- 8:30 AM Keynote- Bill Thomas, CEO-EOG Resources
- 9:15 AM Open Process Automation
- 10:00 AM Coffee/ Networking
- 10:15 AM Frac Hits: Protecting & Restoring Production Losses in Offset Wells (Hall A)
Data Analytics & Modeling (Hall B)
- 11:00 AM Capital Efficiency & Digitization (Hall A)
Vertical Integration (Hall B)
- 12:00 PM Lunch
- 1:00 PM Poster Competition
- 1:30 PM Innovation & Entrepreneurship
- 2:30 PM Parsley Energy: A Permian Success Story
- 3:15 PM Emerging Technologies in Upstream
- 4:00 PM Superpads: A New Trend?
- 4:35 PM Closing Remarks

Early Registration ends 6/1/17 | Late Registration ends 6/12/17

Note: Walk-Ins will not be accepted on the day of the event. All attendees must pre-register.

EVENT INFO

THURSDAY

6.15.17

8:00 AM - 5:00 PM



LOCATION

ExxonMobil Campus
22777 Springwoods Village Parkway
Spring, TX 77389

EVENT CONTACTS

Abe Abraham
aabhamees@gmail.com
832-638-5705

Sahil Malhotra
Sahil.Malhotra@chevron.com
832-691-6253

MEMBERS

\$75/\$95 Late Registration

NON-MEMBERS

\$100/\$120 Late Registration

STUDENTS/MIT (LIMITED SPACE)

\$50

ONLINE REGISTRATION

spegcs.org/EES

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TIP - TAM Inflatable Packer



TIP is a robust single-set rotational release packer for cased and open hole wells. Ideal for challenging applications and engineered for drilling environments.

Well intervention using coiled tubing or slickline?

SlikPak[®] Slickline/E-Line Conveyed Retrievable Inflatable Packer System



SlikPak is a battery-powered assembly that can run 2.13 in. to 14.5 in. inflatable bridge plugs or packers. The inflation fluid can be obtained from the wellbore or carried in adaptable fluid chambers. SlikPak is ideal for remote locations or wellsites with a small footprint.

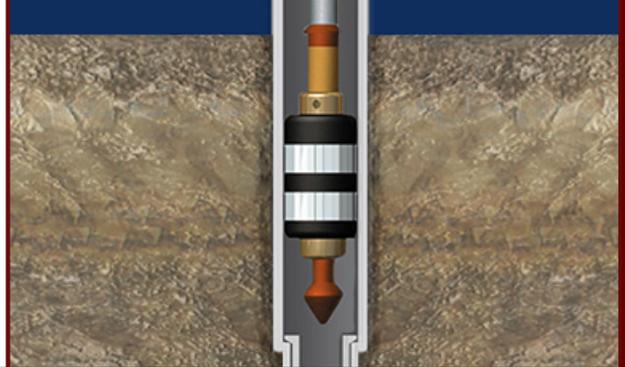


TAM INTERNATIONAL

Challenges

TAM-J Case History

A deepwater Gulf of Mexico operator was unable to get a successful positive test from the 22 in. casing across their 16 in. liner top. The TAM-J Multi-Set Inflatable Packer was utilized to conduct tests to identify the leak point. The leak was later successfully squeezed and the drilling operations continued.



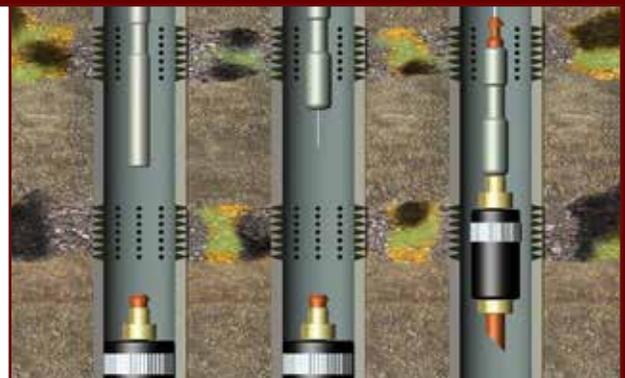
TIP Case History

During wellhead change out prior to setting up the drilling rig for deepening the well, a Middle East operator required an isolation barrier to control losses and provide a base for kill weight fluid. The fluid was to be placed above the isolation barrier. A 4-1/4 in. TIP retrievable bridge plug was run and set inside the 9-5/8 in. casing. The wellhead was changed out and the bridge plug was retrieved.



SlikPak Case History

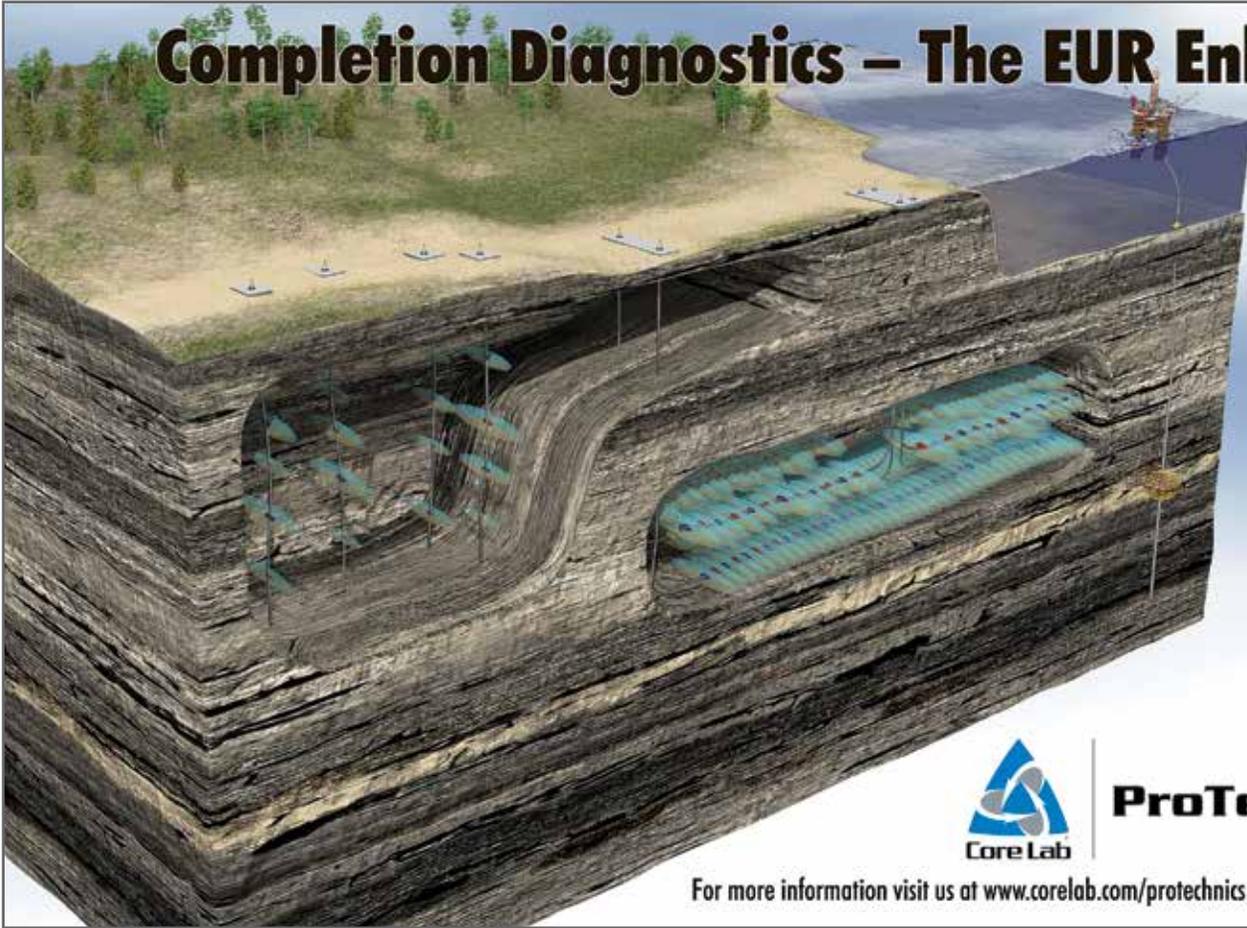
A Gulf of Mexico operator needed a secondary barrier so they could remove a tree and replace it with a BOP stack. TAM provided the operator with a retrievable bridge plug run on TAM's SlikPak system. The plug was run through a 3.795 in. restriction and sealed in production tubing of 3.9 in. ID. The BOP stack was installed and TAM ran back in the hole with wireline to retrieve the plug.



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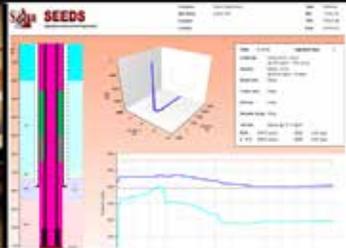
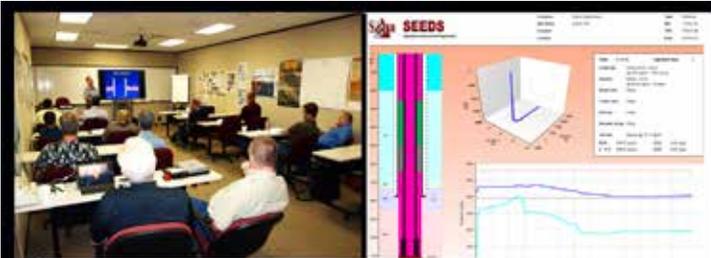
tamintl.com

Completion Diagnostics – The EUR Enhancer

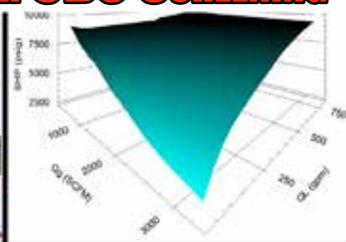
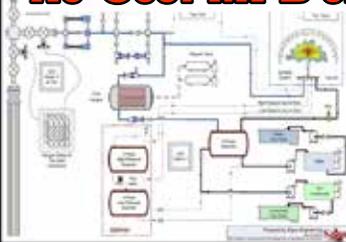


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Accelerated Learning Tutorial: An Overview of Multistage Completion Systems for Hydraulic Fracturing

Shales and other low-permeability formations require multistage completions, hydraulic fracturing, and horizontal wells to produce at economic rates. This course focuses on the multistage completion systems that are used in these applications, including plug-and-perf, ball-activated systems (frac sleeves), and coiled tubing-activated systems (annular fracturing). Participants will learn the different types of wellbore completion options and how they compare in different applications. The challenges and options of refracturing existing wells will also be discussed.

Topics include:

- Basics of hydraulic fracturing theory and design
- Evolution of multistage completions
- Wellbore completion options for multistage hydraulic fracturing
- New multistage completion technologies
- Benefits and considerations for each completion system
- Application-specific solutions for wellbore completion design
- Refracturing options for existing wells

W. AARON BURTON

In 2015, W. Aaron Burton started Unconventional Oil and Gas Training, which specializes in training and consulting for unconventional multistage completions. Previously, he was with Baker Hughes for nearly eight years. He has authored and coauthored three SPE papers. Burton holds a BS in mechanical engineering from Mississippi State University.

EVENT INFO

FRIDAY

6.23.17

8:30 AM – 4:30 PM

SPEAKER

W. Aaron Burton
CEO
Unconventional Oil and Gas Training

LOCATION

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

EVENT CONTACTS

Sunil Lakshminarayanan
sunil_lakshminarayanan@oxy.com

MEMBERS/NON-MEMBERS

\$350

MIT/STUDENTS

\$175/\$100

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Robert E. Doyle; 713-334-4464; red.aeig@att.net / USPTO NO. 8398334

Ethics Seminar: SPE Professionals Exemplify Integrity and Ethics

An understanding of professional and ethical responsibility is paramount for every SPE member working in the petroleum industry. Ethical behavior is required to manage relationships with contractors, vendors, partners, landowners, competitors, governments, regulatory agencies, employees, management, and co-workers. Understanding integrity and ethical behavior supports development of the soft skills of leadership and diversity.

Ethical dilemmas span a broad spectrum, from student issues to those encountered in an executive-level position. Common ethical issues include confidentiality, conflict of interest, copyrights, intellectual property, data fabrication, misrepresentation of safety, compliance with regulations, reserves overbooking, corruption, plagiarism, cheating, and incomplete citations of others' work.

This workshop is designed to raise ethical awareness and to help SPE members understand and follow the 12 canons in SPE's Code of Professional Conduct. Workshop participants will discuss well-known case studies from the oil and gas industry, as well as from other industries.

SUSAN HOWES



Susan Howes, PE, PHR, is Vice President of Engineering at Subsurface Consultants and Associates, LLC. Howes is responsible for maintaining the highest technical quality standards for SCA's recruitment, consultancy and training services. Howes began her career with Anadarko, where she held a variety of engineering positions of increasing responsibility in Denver and Houston. In 2007, she joined Chevron, providing functional leadership that resulted in improved production and reserve trends. Howes has coauthored several articles on uncertainty management, risk management, and talent management for SPE conferences and publications. She is past chair of the SPE Soft Skills Committee, having previously served as SPE Regional Director for Gulf Coast North America, is a recipient of the SPE DeGolyer Distinguished Service Medal and is an SPE Distinguished Member. Howes holds a BS degree in Petroleum Engineering from the University of Texas.

2017 SPE-GCS Roughneck Camp

The Society of Petroleum Engineers-Gulf Coast Section's Young Professionals Committee organizes the annual Roughneck Camp, a one-day conference focused on energy professionals in the upstream oil and gas industry. Now in its 12th year, Roughneck Camp provides a technical overview of the industry, as well as networking opportunities to an estimated 250 students, interns, and young professionals.

This year's theme is "Innovative Solutions in the Evolving Energy Industry." Our keynote speaker is R.A. Walker, CEO and Chairman of Anadarko Petroleum. The lectures and panel sessions will provide an overview of the industry, innovative trends, and career development advice.

LOCATION

Anadarko Petroleum
1201 Lake Robbins Dr
The Woodlands, TX 77380



EVENT INFO

FRIDAY

6.30.17

11:30 AM - 1:30 PM

SPEAKER

Susan Howes
VP of Engineering
Subsurface Consultants and
Associates, LLC

LOCATION

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

EVENT CONTACTS

Sunil Lakshminarayanan
sunil_lakshminarayanan@oxy.com

MEMBERS/NON-MEMBERS

\$40/\$45/\$50 Walk-In

MIT/RETIRED SPE

\$15/\$50 Walk-In

EVENT INFO

THURSDAY

7.20.17

7:30 AM - 4:30 PM

EVENT CONTACTS

Danny Marquez
432-208-1184
dannymarquez0@gmail.com

Vivek Ghosh
832-794-6579
vivek.ghosh@shell.com

MEMBERS/NON-MEMBERS

\$40/\$60

Accelerated Learning Tutorial: Introduction to Petroleum Geomechanics (With Focus on Unconventional Completions)

There are a number of challenges in unconventional reservoir completions that will benefit from geomechanical considerations. Examples include complex hydraulic fracture development in naturally fractured reservoir, altered in situ stresses due to production and reservoir re-stimulation, and coupled thermo-poro-mechanics processes. This one-day course, now being offered for the second time, addresses the critical need to understand fundamental mechanisms involved in unconventional reservoir development.

Topics include:

- Petroleum geomechanics definition and major goal
- Introduction to complexities of well fracturing
- Mechanics review
- Rock behavior under stress
- Fracture mechanics
- Measurements and calculations of rock mechanical properties
- Pore pressure predictions
- In-situ stress measurements/ estimations
- Wellbore stress and stability
- Evaluation of reservoir fracturing

DR. REZA SAFARI

Dr. Reza Safari is a Geomechanics Advisor at Weatherford Geomechanics Research, Development, and Engineering. Safari's focus is on geomechanical modeling development of unconventional reservoir stimulation and wellbore mechanics. He has co-authored more than 20 publications on hydraulic fracturing, waterless fracturing, hydraulic/natural fracture interactions, and wellbore strengthening. Safari holds a PhD in petroleum engineering (petroleum geomechanics) from Texas A&M University.

EVENT INFO

FRIDAY

7.28.17

8:30 AM – 4:30 PM

SPEAKER

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

LOCATION

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

EVENT CONTACTS

Sunil Lakshminarayanan
sunil_lakshminarayanan@oxy.com

MEMBERS/NON-MEMBERS

\$350

MIT/STUDENTS

\$175/\$100

2017 SPE-GCS Scholarship Winners

Congratulations to the 2017 SPE-GCS Scholarship winners! These students have demonstrated exceptional academic achievement, leadership, and service in their communities. The SPE Gulf Coast Section is proud to honor them.

SCHOLARSHIP WINNERS

Duncan Morgan, Cypress Creek High School
Kristen Bohnet, The Woodlands College Park High School
Michael Bohnet, The Woodlands College Park High School
Sierra Seale, Montgomery High School
Emily Nowlin, Klein Oak High School

CISH SCHOLARSHIP WINNERS

Mai Nguyen, Elsik High School
Flor Roman, Austin High School

We wish these scholarship winners all the best as they embark on their college careers.



Investing in Oil & Gas: Perspectives from Growth Equity & Private Equity

Please join us for the launch event of the SPE-GCS Investment & Finance Initiative, created to open a dialogue between SPE members and the oil and gas investment community. This will be the first of a series of meetings focused on investment in the oil and gas sector, from early stage to growth stage, and mature companies. This launch event will feature partners from leading oil and gas growth equity funds, who will discuss how to interact with the private equity/growth equity sector, trends in investment in growth equity, and opportunities and challenges of working with private equity investors. There will be a Q&A on investment in the energy sector. All speakers actively invest in oilfield services companies.

SPEAKERS

Moderator and SPE-GCS Investment & Finance Initiative Chair: Daniel Carter, Investment Director, Saudi Aramco Energy Ventures (SAEV). SAEV is the strategic venture and growth equity arm of Saudi Aramco.

Gary Highberger, Managing Director, Lime Rock Partners. Lime Rock is a leading private equity fund focused exclusively on oil and gas that has raised over \$7.4 billion over several funds.

Jason Turowsky, Partner, Intervale Capital. Intervale Capital is a leading private equity firm investing primarily in oilfield manufacturing and service companies. Intervale has raised \$1.3 billion of committed capital and is currently investing from its third fund.

Saheb Sabharwal, Vice President, CSL Energy. CSL Energy is an SEC-registered private equity firm focused on small to mid-sized energy businesses in the US and internationally. Since its inception, the firm has raised in excess of \$1.4 billion across various investment vehicles.

Sean Ebert, Altira Group. Altira has raised six funds and invested over \$1 billion with partners in over 50 portfolio companies. Investors include Super Independents.

EVENT INFO

WEDNESDAY

6.7.17

5:30 PM – 7:30 PM

MODERATOR

Daniel Carter
Investment Director
Saudi Aramco Energy Ventures

LOCATION

Vinson & Elkins LLP
1001 Fannin St, Ste 2300
Houston, TX 77002

EVENT CONTACT

Bryan Marlborough
bryan.marlborough@gmail.com

MEMBERS

\$40/\$55 Walk-In

NON-MEMBERS

\$50/\$55 Walk-In

ONLINE REGISTRATION

spegcs.org/events/3611/

SAVE THE DATE

SPE Members in Transition Initiative

18TH SEMINAR SERIES

The 18th Members in Transition seminar will be July 28. Details are still being finalized. Look for updated information on topics and speakers at spegcs.org/events/3601/.

FRIDAY

7.28.17

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/NON-MEMBERS

\$40/\$50/\$50 Walk-In

STUDENTS/MIT/RETIRED SPE

\$15

Registration capped at 70

Members in Transition Initiative

17TH 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. This month's agenda features "Transition - an End Game," "Developing Innovation Leadership in O&G," "Lessons Learned From a Startup," and a discussion of resources for SPE Members.

Program 1: Transition - an End Game

Describing yourself to others as "in transition" can evoke reactions from "What terrible thing did you do to deserve this?" to "I'm so, so, so sorry for your loss" to "Are you going to want something from me?" But transition can be a time of gearing up for the next adventure, a sabbatical of self-discovery, or a launch pad to more satisfying and fulfilling endeavors. It can even be an end game. In this talk, Libby Cheney will share her stories of being "in transition" along with strategies, tricks and tools to help you manage through this rich and rewarding career phase.



LIBBY CHENEY

Libby Cheney is a Partner in TRIO Global Solutions, LLC, which advises businesses on sustainable development — capturing value through innovative management of non-technical risks. In addition, she is COO of Cheney Energy Partners, an independent oil and gas exploration and production company. She has a bachelor's degree in chemical engineering from Vanderbilt University.

PROGRAM 2: Developing Innovation Leadership in O&G

It's a common tenet that an industry downturn is an "opportunity for technology innovation." Do O&G companies respond accordingly? There are mixed results. We'll first look at key trends in O&G innovation, with a focus on recent activity through future prospects. Then we will discuss how you can contribute your expertise to maintain a competitive edge, grow your network, and contribute to innovation initiatives right here in Houston.



CANDICE LANDRY

Candice Landry, PhD, is Principal Innovation Strategist and founder of 10e5 Solutions. Landry has been recognized for leadership in innovation management, change implementation, and mentoring. She most recently worked in O&G, where she served as Director of Program Management and Senior IP Portfolio Manager for a Fortune 500 company.

PROGRAM 3: Lessons Learned From a Startup

In this session, Abhijeet Narvekar will share his story, what he has learned, and insights you can use. He'll discuss the challenges of going from working for someone to starting a company, how he and his team wanted to back out and what kept them going, and how they survived the downturn. And he'll address questions like these: How do people perceive who you are? Is there a standard way of doing things? What is happening today in this industry? The session will also feature other real-life stories of startup survivors. The key takeaway is to find your path and never give up.



ABHIJEET NARVEKAR

Abhijeet Narvekar has experience in the upstream oil and gas industry with companies like Schlumberger and Petris. In 2010, he founded The FerVID Group, which incorporates a novel idea of expert-led recruiting, a seismic shift in the way recruiting is done. Leading the FerVID Group, Narvekar draws on his domain insights and entrepreneurial acumen to execute innovative approaches for talent acquisition, upstream consulting, and Big Data in HR.

EVENT INFO

FRIDAY

6.9.17

10:00 AM - 3:00 PM

SPEAKERS

Libby Cheney
Partner and COO
TRIO Global Solutions, LLC and Cheney
Energy Partners

Candice Landry
Principal Innovation Strategist and
Founder
10e5 Solutions

Abhijeet Narvekar
Founder and Chief Executive
The FerVID Group

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

17th Annual Sporting Clays Tournament and 4th Annual Food Frenzy Competition

Please join us for the 17th Annual Sporting Clays Tournament, featuring the 4th Annual Food Frenzy Competition. Registration for the tournament is open to the first 48 five-person teams, and sponsorships are available. Sponsors will receive first consideration. At least one shooter must be an SPE member, and shooters provide their own ammo (No. 7½, 8 and 9 only). Please visit the SPE-GCS website for tournament registration and sponsorship forms.

EVENT LOCATION

Westside Sporting Grounds
10120 Pattison Rd
Katy, TX 77493

EVENT CONTACT

SPE Sporting Clays
Tournament Chair
Paul Conover
713-582-1078
paul.conover@nov.com

COST

\$800 per five-person team
Includes a 100-round course

REGISTRATION INFO

Entry forms and online registration:
spegcs.org/events/3603/

Mail payments and entry forms to:
SPE-GCS Office
10777 Westheimer Rd
Houston, TX 77042

SPONSORSHIP INFO

spegcs.org/events/3604/

Sponsorship
Committee Chair
Greg Rachal
713-628-3341
gregoryohh@gmail.com

Please mail sponsorship forms to:
SPE-GCS Office
10777 Westheimer Rd
Houston, TX 77042

Friday

6.16.17

7:00 AM - 5:00 PM

TOURNAMENT SPONSORSHIPS

With all sponsorship levels, your company name will appear on the sponsor board. Additional benefits of each sponsorship level are listed below.

Platinum Sponsor \$4,000

Two complimentary teams in the tournament
and VIP parking

Gold Sponsor \$3,000

One complimentary team in the tournament
and VIP parking

Silver Sponsor \$1,500

VIP parking

Bronze Sponsor \$1,000

VIP parking

Scorecard Sponsor \$1,000

Your company name will also appear on the competitor numbers and on each scoreboard.

Corporate Sponsor \$300

Gun Cleaning Sponsor (limit 1) \$200

You will be responsible for providing gun-cleaning products and being set up to accommodate gun cleaning.

Course Beverage Sponsor (limit 3) \$100

You will be asked to set up a tent at an assigned course to provide beverages for shooters throughout the day.
Only one sponsor per course.

Food Frenzy Competition \$100

As a Food Frenzy competitor, you will be set up adjacent to the pavilion to provide entertainment and food (breakfast and/or lunch, drinks). Each shooter will be given two tickets to vote for best competitor.
First- and second-place trophies will be awarded to the two teams with the most tickets.



17th Annual Sporting Clays Tournament and 4th Annual Food Frenzy Competition Registration Form



Gulf Coast Section

Registration

Team Captain _____ City/State/Zip _____

Company _____ E-Mail _____

Address _____ Phone _____

SPE Member Name /Number _____

Shooter No 2 _____ Shooter No 4 _____

Company _____ Company _____

E-Mail _____ E-Mail _____

Phone _____ Phone _____

Shooter No 3 _____ Shooter No 5 _____

Company _____ Company _____

E-Mail _____ E-Mail _____

Phone _____ Phone _____

METHOD OF PAYMENT

Payment: Check Visa MC AMEX DISC

Card Number _____ Expiration Date _____

Name as it appears on card _____

Signature _____

Email _____

Total to Charge Card

(Make checks payable to SPE-GCS)

SEE BACK OF THIS PAGE FOR SPONSORSHIP FORM

COST

\$800 per 5-person team

Includes a 100-round course

LOCATION

Westside Sporting Grounds

10120 Pattison Rd

Katy, TX 77493

wsg-clay.com

REGISTRATION

Paul Conover

713-582-1078

paul.conover@nov.com

REGISTRATION INFO

spegcs.org/events/3603

Limited to first 48 teams

*At least one shooter must be
a current SPE member*

*Shooters provide own ammo
(No. 7 1/2, 8, 9 shot ONLY)*

*Starting time and station sent
to team captain only*

*Sponsors will receive first
consideration*

MAIL ENTRY FORM WITH PAYMENTS TO:

SPE-GCS Houston Office

Attn: Taylor Wright

10777 Westheimer Rd, Ste 1075

Houston, TX 77042

spe-gcs@spe.org

17th Annual Sporting Clays Tournament and 4th Annual Food Frenzy Sponsorship Registration

PLEASE CHECK THE LEVEL OF SPONSORSHIP YOU WISH TO CHOOSE

All sponsorship levels will receive next year's tournament information approximately one month before the general membership mail-out. All sponsors receive preference on shooting times when possible. All profits will be used for SPE scholarships, local charities, community service projects, and member services.

- | | | | |
|--|---|---|--|
| <input type="checkbox"/> Platinum Sponsor
\$4,000 | <input type="checkbox"/> Bronze Sponsor
\$1,000 | <input type="checkbox"/> Corporate Sponsor
\$300 | <input type="checkbox"/> Course Beverage Sponsor
(limit 3, first to respond)
\$100 |
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EMAIL SPONSORSHIP FORM:

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SPE-GCS STUDENT CHAPTERS

HOUSTON COMMUNITY COLLEGE

SPE HCC Revitalizes

SPE HCC has formed a new board, which held its first meeting on April 6. On April 20, Aileen Lu, the new chapter President, presented updates on SPE HCC at the SPE-GCS Board of Directors meeting. Board members were very supportive of the chapter's revitalization.

Additionally, Lu observed operations at the SPE-GCS 44th Annual Golf Tournament for the benefit of future student volunteers. Plans are also being made for collaborations with the chapter's sister organization, UH SPE.

The leadership team is working closely with faculty and students for their next event. Robert Ward, Trade Compliance Empowered Official for Aramco, will present "Overview of International Trade Law for Oil and Gas Companies" on May 5 at the HCC Northeast Campus.

For more information, please contact Aileen Lu at aileen.business.us@gmail.com.

RICE UNIVERSITY

Technical Lecture from Schlumberger

On January 24, Shahid A. Haq from Schlumberger Drilling & Measurement presented a technical lecture. He is an active petroleum engineer with 28 years of petroleum engineering experience. This talk showed us the good and bad aspects of produced oilfield water, as well as the production mechanisms, economics, and its characterization.

SPE Gulf Coast Section Student Paper Contest

On April 1, we were honored to co-organize the 2017 SPE Gulf Coast Section Student Paper Contest. It was a great event for students to talk about their research and exchange ideas. Yongchao Zeng from Rice University placed second in the PhD division. Congratulations to all participants for the great jobs of presenting their exceptional work.

TEXAS A&M UNIVERSITY

Emerging Leadership Workshop

In April, TAMU-SPE hosted the fourth annual Emerging Leadership Workshop. This event was attended by members from other engineering organizations within the Dwight Look College of Engineering. This one-day workshop featured speakers from industry and academia. Attendees also participated in leadership activities.

2016-2017 Year in Review

This year, we created and secured \$100,000 in funding for the TAMU-SPE Excellence Endowment. We hosted 109 events. Last fall, 27 companies, 89 recruiters, and over 650 students attended our annual Career Enhancement Event. The new Student Mentorship Program had 31 underclassmen mentees, with over 100 interviews extended and 76% of those securing offers. In the spring, our team took home second place at the North American Regional Petrobowl Competition.

UNIVERSITY OF HOUSTON

SPE University of Houston Student Chapter Welcomes New Board

In March, UHSPE elected the new Executive Board who will serve the organization's 400-plus members during the 2017-2018 academic year. Congratulations to the following board members:

President

Tony Nowak

Vice President Internal

Rakib Morshed

Vice President External

Nowshin Chowdhury

Treasurer

Sarah Mubarak

The new board members represent an array of backgrounds and perspectives, which they hope will lead to a prosperous year of promoting student success. Focus areas for the board include fostering a continued healthy relationship with industry professionals, funding merit and need-based scholarships for members, and prioritizing professional skill-building workshops for impending graduates.

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EVENT RECAP

Since this is the last issue of our fiscal year, we wanted to look back on some recent successful events, including the Drilling and Permian Basin Study Group symposia. In the photos here, you'll see SPE members learning, building relationships, and serving the community. SPE-GCS appreciates all event organizers and attendees, and we look forward to more great events in the year ahead.



DSG Symposium



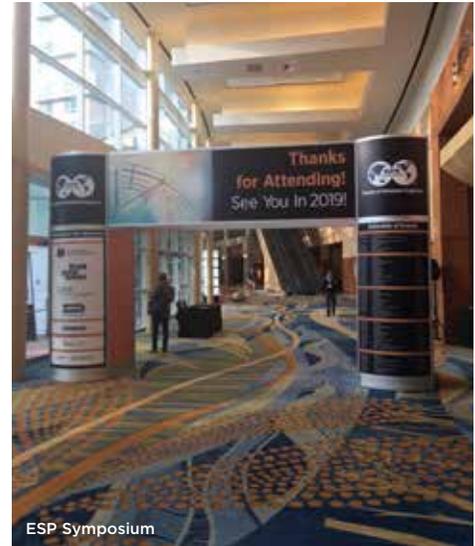
DSG Symposium



SPE-GCS Hiring Event



ESP Symposium



ESP Symposium



SPE-GCS Hiring Event



SPE-GCS Hiring Event



SPE-GCS Hiring Event



Data Analytics



Data Analytics



Data Analytics



CISH Job Readiness Seminar
Sponsored by SPE in January



Permian Basin



Young Professionals Volunteering
at Houston Food Bank



Young Professionals Volunteering
at Houston Food Bank



Permian Basin



Permian Basin



Houston Community College



SPE-GCS Golf Tournament

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Work Schedule - 9/80

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problems, contact editor@spegcs.org.

July 2017

CALENDAR

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY SPE-GCS Office Closed	SATURDAY
						1
2	3	4	5	6	7	8
9	10	11	12	13	14 SPE-GCS Office Closed	15
16	17	18	19	20 Board of Directors Meeting Young Professionals	21	22
23	24				25 Members in Transition (MiT) Continuing Education	26
30	31	25	26	27	28	29



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June 2017 CALENDAR

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
				Data Analytics Research Development 1	SPE-GCS Office Closed 2	3
4	5	Young Professionals	Investment & Finance Initiative 6	7	Members in Transition (MIT) 8	9
10	11	12	13	Board of Directors Meeting Young Professionals 14	SPE-GCS Office Closed Sporting Clays Tournament 15	16
17	18	19	20	21	Continuing Education 22	23
24	25	26	Business Development PF&C 27	28	Continuing Education 29	30

July calendar on back of this page.