Why the Permian Basin is a Sustainable Resource

Artificial Lift and Production Optimization Solutions

How a Petroleum Geologist Generates Prospects
I am pleased to welcome you to the first edition of the SPE Gulf Coast Section digital newsletter. This is an exciting moment for the Gulf Coast Section that we need to celebrate with the arrival of the new year. Under the leadership of Brian Marlborough, Communications Chair, and Karin Gonzalez, Newsletter Editor, and with the help of our partners and advertisers, we have successfully transitioned our newsletter to this new digital format, which will enable a highly portable and dynamic newsletter that will feature our advertisers and showcase the tremendous work of the Gulf Coast Section for years to come. Countless volunteers like Buddy Woodroof and many other leaders contribute to the creation of the newsletter every month, and we greatly appreciate your service. This newsletter is truly the work of many hands, and it would not be possible without your ongoing commitment to this enterprise.

As I reflect on this accomplishment and consider the year ahead and the many challenges to come, I wanted to share my hopes for you all as you consider your resolutions for the New Year. I hope that you will each consider adding two New Year’s resolutions to your list!

Resolution #1: Be a visible safety leader at work and at home

Why have I focused on the topic of visible safety leadership as the number one resolution for the new year? Safety is where it all begins. When we each commit to visible safety leadership, great things happen. We create tremendous value for ourselves, our colleagues, our families, our companies, and our industry when we return home safely every day. Visible safety leadership and our ongoing dedication to ensuring a safe work environment both create a lasting impact!

Many of us have likely spent some time with our teams or our organization identifying or seeking opportunities to improve our safety performance. If we didn’t initiate the discussion, we have all probably been invited to join a discussion on how to improve safety performance. I suspect that visible leadership is at the top of every list as one of the most important values associated with achieving our safety performance goals.

Over the past 18 months, a dedicated team of SPE volunteers lead by Jack Hinton at Baker Hughes, a GE Company have been developing an SPE Technical Report on “Getting to Zero and Beyond: The Path Forward.” We anticipate that this Technical Report will be published in early 2018. As the authors drafted the document, they were able to incorporate a number of key safety leadership activities and engagements that SPE has conducted over the last decade. Most recently, in 2016, we conducted a global series of engagements on five continents that sought to engage local groups of professionals on the topic of “getting to zero.” We identified a number of values and asked our global participants to score the top five identified values necessary to achieve zero incidents and fatalities. About 750 SPE members provided feedback, and nearly one-third said that visible leadership was the top priority for achieving zero incidents and fatalities. Trust, openness to change, integrity, and teamwork also play an important role in creating a strong safety culture at work.

The response from SPE members around the world confirmed what we all know: Visible leadership is a critical ingredient to safe performance, and the benefits of visible leadership are powerful.

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In a presentation I delivered in October 2017, I engaged with an audience and asked them to help define visible leadership. The feedback and passion on this topic was strong. The messages I heard are clear: Lead by example, walk the talk – connect actions to ideas, start the conversation, be present – in the moment, be mindful, and make an impact. Each one of these messages can be a starting point for you to demonstrate your commitment to being a visible safety leader in 2018 and beyond.

Resolution #2: Be an exemplary SPE volunteer

The work of SPE and the Gulf Coast Section is accomplished largely through the efforts of SPE’s volunteers. As an organization with about 165,000 members, it takes a tremendous amount of volunteer hours to achieve our mission. As of November 2017, the Gulf Coast Section has a total active membership of 15,339 members, including 1,864 students and 2,764 Young Professional members. This is a large and important group within SPE, and we need a large, robust group of volunteers to make it happen. We need EXEMPLARY SPE VOLUNTEERS!

As we begin the year, I thought it would be useful to reflect on the mission of the Gulf Coast Section as stated in our bylaws.

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

A  Providing forums that afford members the opportunity to upgrade and maintain professional competence.

B  Providing social interaction that increases member participation in Section activities as a whole, while striving to maintain the integrity of the Section.

C  Supporting programs in local primary and secondary schools to encourage students to develop their abilities in science, technology, engineering and mathematics.

D  Supporting engineering programs at the university level.

E  Enhancing the image of the Oil and Gas Industry by sponsoring community service programs.
Participating in our events is definitely a valuable contribution because we need the active financial support of our members and the broader upstream oil and gas community to sustain the investments necessary to achieve our mission. But there is no doubt in my mind that volunteering is where the opportunities and the benefits are truly created for our members. As an exemplary SPE Gulf Coast Section volunteer, you will grow in many ways:

- You will enhance your leadership skills.
- You will influence SPE programs and activities with your knowledge and experience.
- You will meet and work with other members near you and around the globe.
- You will contribute in your area of interest at both the local and international levels.

I think it is fitting to end by featuring some of the fantastic work that our exemplary section volunteers are doing to create a vibrant platform of learning and networking opportunities that will benefit our members in the spring of 2018.

The oil and gas industry has changed at a rapid pace in the aftermath of the downturn. Longer laterals, advanced completions, high-resolution subsurface diagnostics, and other technological advances have become must-haves to survive. While innovation was undoubtedly critical to protect companies’ wellbeing over the last couple of years, it’s imperative to continue to challenge the status quo regardless of the oil price tomorrow.

To capitalize on the ingenuity unlocked by this downturn, under the leadership of Mikhail Aleksenko, Innovate Chair, and a fantastic group of volunteers, the SPE Gulf Coast Section Innovate Committee is launching a two-day flagship Innovation and Entrepreneurship Symposium on March 21-22. This event is poised to nucleate oil and gas innovation and the entrepreneurship community in Houston and beyond and will cater to the oil and gas investors, entrepreneurs, and innovators within big corporations. On the agenda are keynotes, several panel sessions and workshops, networking breaks, and a half-day Shark Tank-like event. The event will be held at the Marathon Oil Tower in Houston. For detailed agenda, registration, Shark Tank application, and sponsorship information, please visit our website.

But the ambition of the section does not stop with this new flagship. Bill Davis, Program Chair, and many study groups are planning an extraordinary roster of half-day and full-day events to deliver amazing content to the members of SPE and the SPE Gulf Coast Section this year:

- Business Development – Mergers, Acquisitions and Divestments Symposium (January 9)
- Completion & Production One-Day Event (February)
- Annual Drilling Symposium (March 15)
- Upstream Oil and Gas Hiring Event (March 27)
- Geomechanics Congress 2018 (April 18)
- Data Analytics One-Day Event (April 19)
- Reservoir Technology Symposium (April 27)
- Regulatory Roundtable on Emerging HSE Issues: Potential Impacts, Challenges and Opportunities for Upstream Oil and Gas (May)

Thank you to all of the exemplary volunteers who are actively planning these events. We are grateful for your energy and commitment to the SPE Gulf Coast Section. If you are not a current volunteer, please look for a way to get involved and become an exemplary SPE volunteer in 2018 and beyond!

On behalf of the Gulf Coast Section Board of Directors, best wishes to all of the visible safety leaders and exemplary volunteers of the SPE Gulf Coast Section,

Trey Shaffer
2017-2018 SPE Gulf Coast Section Chair
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**Board of Directors Meeting**

**WHEN**
Jan 18, 7:30–10:30am

**WHERE**
SPE Houston Office: 10777 Westheimer Rd. Ste 1075, Houston, TX 77042

**R.S.V.P.**
Taylor Wright
T (713) 457-6821
F (713) 779-4216

**spe-gcs@spe.org**

**Study Group Pricing**

unless specified separately in the registration website.

MEMBERS: $40/$55 Walk-in
NON-MEMBERS: $55
STUDENTS/MIT/RETIRED SPE: $15
Membership Through January 2018

- 1,209 New Professionals
- 3,376 Lapsed Professionals
- 1,287 Renewed Students
- 582 New Students
- 540 Lapsed Students
- 12,507 Professionals Renewed

Current Membership Trends

<table>
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<th>Month</th>
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<td>15,531</td>
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<td>2016</td>
<td>17,432</td>
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(Dec 1, 2017)

Student Memberships

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<td>1,287</td>
<td>582</td>
<td>1,869</td>
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Renew Your SPE Membership Today!

Stay connected with SPE-GCS activities during 2018

- Join up with the brightest minds – 15,000 local members and more than 143,000 international members – in the industry!
- Grow your technical skills at our local and international conferences, workshops, and training courses.
- Participate in SPE Gulf Coast Section’s events, meetings and activities.
- Submit a technical paper for presentation or publication.
- Receive discounts on journals, reference books, OnePetro and other SPE publications.
- Expand your network with managers, engineers, scientists, and other professionals locally and worldwide.
- Develop leadership skills and contribute to the profession through our programs and activities.
- Give back to our community and the E&P industry through volunteer opportunities.

For inquiries, please contact the SPE-GCS Membership Team at membership@spegcs.org.

Renew Your Membership Online
**DEODATH MAHASE**

Deodath Mahase is involved with the Project, Facilities & Construction Study Group. He was encouraged to join SPE by one of his industry mentors, James R. Deaver. Deodath is a Principal Engineer at OFD Engineering. He holds a BS in mechanical engineering from The University of the West Indies and an MBA from Texas A&M. He is a registered Professional Engineer in Texas.

In addition to his involvement at SPE, he also mentors high school kids at the Katy Students Run Organization. Deodath says the opportunity to volunteer, work with, and mentor individuals is very enjoyable and rewarding. He says he learns more from the people he volunteers with than they do from him. Deodath's key motivations for volunteering are the desires to pay it forward, continually grow and learn, and improve the lives of others.

Deodath says that all aspects of the energy sector landscape and life are continuously evolving: the environment, politics, geography, technology, knowledge, and global culture. He believes we must strive to evolve not only to manage these risks intelligently, but also to take advantage of opportunities to benefit people and this planet. Volunteering grounds him and helps him contribute to this future.

"An opportunity to give back some of what life has afforded me, volunteering allows me to pay forward some of my good fortune while fueling my desire for continuous growth," he says. "I believe I am contributing to the future of mankind and this planet, even if only in my little space."

Thank you for all you do for SPE!

---

**JEREMY VILA**

Jeremy Vila is involved in the Data Analytics Study Group. Jeremy is a researcher in computer science at Shell International Exploration & Production Inc. His manager recommended attending the monthly study group events.

After attending these meetings, Jeremy wanted to make a direct impact in the SPE community in that space, knowing how much data analytics impacts other industries. Though Jeremy has volunteered for other professional organizations, this is his first opportunity to volunteer for an SPE study group.

Jeremy received his PhD from the Ohio State University, specializing in statistical signal processing and machine learning. His research was data-agnostic, but the plethora of data in the oil and gas industry offered the opportunity to apply these approaches to massive, real-world datasets. Jeremy has the opportunity daily to analyze and understand subsurface data to build algorithms to expedite costly, traditional workflows.

As Programs Chair of the Data Analytics Study Group, he enjoys networking with speakers from all areas of the industry and seeing first-hand the power of sharing ideas. He believes that knowledge transfer empowers everyone involved.

"Volunteering for the SPE-GCS DA Study Group is an investment in my own professional development," he says. "Long term, I get out twice what I put in."

Thank you for all you do for SPE!
Is your reserves reconciliation a highly laborious, time-intensive, and error-prone process? Do you wish you could streamline the process using a fully automated push-button solution?

With the large amount of data you’re reconciling, and the limited time you have, there is a better solution. Entero MOSAIC is the only reserves, economics, and decline system that delivers a fast and meaningful measure of your company’s performance in hours, rather than weeks.

- **EFFICIENCY**: Experience up to 50% in productivity gains
- **INTEGRITY**: Have confidence in your data with better visibility
- **TRUST**: Improve security through role based user/data management
- **INSIGHT**: Built-in stored results with scenario comparisons at the portfolio level

Learn more at www.entero.com/entero-mosaic, or call 713.417.8517
This month we continue our look back at the rise and fall of wildcatter Glenn McCarthy, as a string of successes lands him his dream home.

McCarthy went on to hit a string of strong producers outside Beaumont, earning him nearly $2 million, enough to build his dream house: a 7,000-square-foot columned Southern mansion just south of downtown Houston. He had a family now — four girls with a little boy on the way — and while never completely faithful to Faustine, he was a good father, staging impromptu plays for the kids and wrestling with them.

A lesser man might have been satisfied, but McCarthy wanted more. In 1939 he took everything he had and plunged it into a risky play near the town of Palacios, southwest of Houston. Geologic maps suggested it was one of the most promising fields to be discovered in years. McCarthy optioned 562 parcels in and around the town, then borrowed heavily to buy five new drilling rigs, which cost $1 million. He spudded five wells simultaneously, but each well experienced difficulties controlling natural gas kicks, and one after another blew out. What natural gas McCarthy was able to contain, he was unable to sell. By the time he gave up on the field, he had lost $1.5 million and was heavily in debt. Facing bankruptcy, McCarthy was forced once again to drill wells for other operators. In the ensuing two years, he drilled 60 more wells, earning a total of $1.5 million, which was enough to settle his debts.

Next month, McCarthy is back drilling his own wells.
**HISTORY QUIZ**

With major energy contributions from hydropower and geothermal energy, what country surprised the industry by announcing plans to offer oil and gas exploration licenses in 2009?

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 (courtesy of the ProTechnics Division of Core Lab).

**ANSWER TO DECEMBER’S QUIZ**

The Allied leader who was put in charge of setting Romania’s oil fields afire during World War I to prevent the Germans from seizing them was British Col. John Norton-Griffiths (nicknamed “Empire Jack”).

---

**CONNECT WITH**

**CONNECT**

We challenge you to send us your feedback on anything related to SPE-GCS.

SEND US A MESSAGE TODAY

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**TETRA CS Neptune™** is a high-density (up to a density of 15.4 ppg, 1.85 g/ml), solids-free fluid that provides a viable alternative to zinc bromide and cesium formate brines.

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

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

---

**No-Cost MPD or UBO Screening**

Get an unbiased review to address your MPD needs using ADVANCED HYDRAULIC SOFTWARE.

- Get insight into managing your challenging wells
- Review your best-fit solution: Conventional, MPD, UBO
- Get a blueprint for all your service needs (training, execution, personnel, analytics)
- Walk away with your analysis and results
- No-obligation consultation
- By appointment only, Thursday afternoons in Houston, TX, USA

Contact:
Dr. Sagar Naudurt, PE
281.774.3116
snaudurt@signa.net

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**With major energy contributions from hydropower and geothermal energy, what country surprised the industry by announcing plans to offer oil and gas exploration licenses in 2009?**

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**CONNECT WITH**

**CONNECT**

We challenge you to send us your feedback on anything related to SPE-GCS.

SEND US A MESSAGE TODAY
HAROLD: Cyber fraud and identity theft are hitting the news repeatedly. How concerned should people be?
PHILLIP: Plenty. It is America’s fastest-growing crime and Texas is one of the top 5 states in victims per 100,000 in population. Almost everyone at least knows someone personally who has been victimized. Our Wealth Management Committee – a group that includes attorneys, MBAs, CPAs, CFA® charterholders and CFP® practitioners – has devoted increased discussion to this topic every year for the last four years. We consider it a critical area of our risk management conversations with clients.

HAROLD: “Risk management” is usually a code word for insurance. Is this an insurance issue?
PHILLIP: Insurance is really only on the fringe of cyber fraud risk. It’s also fair to say that signing up for one of the credit fraud monitoring services, while possibly worthwhile, is certainly no panacea. You must take proactive steps to create an effective defense. That makes it a standout compared to many other risk-management strategies, and therefore unique compared to most of what we have experienced in our 44 years of advising clients.

HAROLD: What are some of those “proactive steps?”
PHILLIP: Locking down your credit bureau files, creating a “deterrence” protocol with your credit card usage, and putting penetration “armor” on your major asset accounts – these are a few, but more than time permits detailing. The key is to invest the time, preferably with the help of someone qualified to give counsel, to develop a set of strategies that work efficiently for you and are relatively hassle-free to maintain. At Linscomb & Williams, our Wealth Advisors are prepared to invest that time with you as part of a client-centered wealth management conversation. We are ready to start that conversation on a no-cost, no-obligation, exploratory basis at our offices in the Houston Galleria or The Woodlands.

For more information, or a copy of our Form ADV, Part II, with all of our disclosures, call Harold Williams at 713 840 1000 or visit www.linscomb-williams.com.
How a Petroleum Geologist Generates Prospects

Petroleum geologists consider an array of scientific, engineering, legal, business, and economic factors. They are the detectives who ask what, where, how, and why to successfully find oil. In addition, a geologist must orchestrate the collection, coordination, and analysis of information from highly skilled, supporting disciplines.

The talk will address the paradigm shift to digital data and the costs to manage it. It will also cover the impact of these costs on independents and their ability to sell plays “on the street” due to the industry’s focus on backing for unconventional resources and the continued use of economic analyses based on multi-year price and cost assumptions.

JAMES H. DODGE, PG

James H. Dodge is a Professional Geoscientist with 38 years of experience with oil companies, in private practice, and as an operator in Texas. He founded two oil and gas companies and co-founded a laboratory solar instruments company. Dodge’s geoscience experience has been in the US with an emphasis on regional conventional and unconventional trends and local field studies throughout the Gulf Coast region from Florida to South Texas.

EVENT INFO

WHEN
Tuesday
Jan 9, 2018
11:30am – 1:00pm

SPEAKER
James H. Dodge, PG
Enteger Corporation

LOCATION
SPE Houston
Training Room
10777 Westheimer Rd
Ste 1075
Houston, TX 77002

CONTACT
Vanessa Mills
832-251-0553
vmills@collarini.com

REGISTER ONLINE

2018 Reservoir Technology Symposium
Thursday – April 27, 2018
Anadarko Conference Center – the Woodlands, Texas

SAVE THE DATE
Reservoir Technology Symposium is the annual event hosted by the SPE-GCS Reservoir Study Group designed to disseminate knowledge and technology needed to achieve the many objectives of reservoir management, including understanding risk, increasing production and reserves, and maximizing recovery. For sponsorship opportunities, please contact:

Eric Laine:
SPE@ericlaine.com

Alejandro Lerza:
ALERZA@CHEVRON.COM
BUSINESS DEVELOPMENT

2018 SPE-GCS Mergers, Acquisitions & Divestments Symposium

The Business Development Study Group invites you to the 2018 SPE-GCS Mergers, Acquisitions & Divestments Symposium. The one-day workshop will introduce early and mid-career professionals to the commercial and transactional side of the oil and gas industry. The symposium will be held in the Chevron Auditorium in downtown Houston with a networking reception to follow at the Whitehall Hotel. Keynote speakers include Bill Marko (Jefferies) and Carlos A. De Ayala (Linn Energy). There will also be four topical sessions led by industry experts with case studies, discussions, and Q&As. The symposium will provide an overview from deal conception to deal closing. It will feature keynote and session talks and discussions by A&D experts, as well as generous opportunities for networking with about 200 industry peers. As the current state of the industry applies stress to operators, strategic portfolio management becomes an important driver in shareholder value and even survival. The symposium will provide detailed insights into the role, process, workflow, participants, and practices of deal making to give participants the knowledge and network they need to consider opportunities as an A&D professional.

BUSINESS DEVELOPMENT

Citizen Energy – Pure Play Approach to Oklahoma

Citizen Energy Founder and CEO Greg Augsburger will discuss unconventional resources in Oklahoma, where the company has been active since 2012. Recently, Citizen Energy II and Linn Energy announced the formation of Roan Resources by combining 140,000 net acres across eight counties. The new company will leverage contiguous acreage position across the SCOOP, STACK and MERGE. Following the merger, Citizen Energy III will now actively develop its 50,000 acres retained in the STACK play in the Anadarko Basin.

- How do the STACK, SCOOP and MERGE compare?
- What advantages and disadvantages do pure play companies face?
- How are Oklahoma resource plays differentiated from other unconventional opportunities?

A networking hour will begin at 5:00pm in the mezzanine, followed by an hour-long program that includes a Q&A.

GREG AUGSBURGER

Greg Augsburger is the Chief Executive Officer of Citizen Energy, a private E&P based in Tulsa, OK. Augsburger led Citizen Energy II in developing the MERGE play within the Anadarko Basin after drilling the Sycamore field discovery well in 2015. He began his career as a Geologist at Apache Corporation, leaving in 2012 to found Citizen Energy. He received a BS in geosciences with honors from Trinity University.
DATA ANALYTICS

TOPIC 1

Machine Learning Applications in Upstream O&G

Self-driving cars may be on the brink of revolutionizing transportation. Many of the technologies that fomented their development can be employed to transform oil and gas exploration. Machine learning techniques such as convolutional neural networks that gave autonomous vehicles sight could help with visual inspection tasks or when dealing with historical data (for example, predicting the long-term wear of an important component). Moreover, reinforcement learning, used in control tasks (such as steering an autonomous car), could be used to efficiently control pumps and valves in O&G rigs.

This presentation explores possible connections between these two different fields and the useful insights that may come from them.

SPEAKERS

CAIO CÉSAR TEODORO MENDES
Caio César Teodoro Mendes is a specialist in robotics and machine learning, holding a PhD in the area from the University of São Paulo. During his PhD work, he applied machine learning (deep learning) to the task of road detection and proposed new models for the task. Mendes is a Developer and Data Analyst at Intelie.

JOYCE FERREIRA
Joyce Ferreira is a Control and Automation Engineer with a master’s in electrical engineering from Federal University of Minas Gerais. She is acting as Data Analyst in the Business Intelligence Department at Intelie, developing real-time analysis and applying machine learning algorithms to solve business problems.

TOPIC 2

New Technology for Production Forecasting

Unconventional resources present a challenge for production forecasting and reserves evaluation due to the overwhelming count of wells-to-be-forecast and long-duration transient behavior causing non-unique estimates of future performance.

Apache has developed a machine learning method to integrate human bias (i.e. belief or expectation) and computerized data analysis to allow the evaluation of hundreds to thousands of wells in minutes. A complete workflow for application of the technology to resource plays includes estimation, evaluation, and calibration of production forecasts. Utilization of the method enables evaluators to create more accurate forecasts and demonstrates the technology as a reliable technology for reserves estimates.

SPEAKER

DAVID S. FULFORD
David S. Fulford is a Staff Reservoir Engineer, Exploration Evaluation, with Apache Corporation. He has 11 years of industry experience with Apache and, previously, Devon Energy. His current work focuses on portfolio modeling and project characterization for long-term capital guidance, which incorporates production surveillance, stochastic modeling, risk and uncertainty quantification, and estimation de-biasing and calibration.
RESERVOIR

What Makes the Delaware Tick?

The Permian Basin has more rigs running than any other basin in the Lower 48. Currently the Delaware sub-basin has more rigs running than the Midland sub-basin. The first half of 2017 was dominated by spectacular transactions in the Delaware. Many research firms conclude that the Delaware has some of the lowest break-even prices in the unconventional landscape. At least three super majors and 10 major independents are materially active in the sub-basin. Newly discovered reservoirs in deeper formations are proving to be strategic game changers in the Delaware. Midstream infrastructure is gearing up for additional capacity, both with respect to oil and gas. Jeff Sieler will review the various dimensions of geology, engineering, economics, deal space, and midstream activities that are driving the Delaware.

JEFF SIELER

Jeff Sieler is a Managing Director in the Global Energy Group of Citigroup Investment Bank headquartered in Houston. Sieler joined Citigroup as the founding member of the A&D team in 2014. Sieler’s industry and technical experience prior to banking spans over 30 years with companies such as Shell Oil Co., Marathon Oil Co., and Kinder Morgan CO2. He graduated from Tulane University with an MS degree in petroleum engineering, and he holds a BS degree in chemical engineering from the University of North Dakota.

RESERVOIR

Gulf of Mexico: Enhancing Value Through Subsea Tiebacks

Offshore subsea tiebacks to existing infrastructure in the Gulf of Mexico provide a big opportunity in today’s challenging oil environment. By focusing on high-value tiebacks, Anadarko is leveraging the existing infrastructure and lower capital projects. The key enabler for the tieback strategy is subsea technology advancement, along with collaboration with vendors for cost and risk reduction. The biggest gain of this development strategy is to drive the technical and project expertise toward innovation and to create a step change in technology.

MIKE FERFON

Mike Ferfon is a General Manager at Anadarko Petroleum Corporation with responsibilities covering Eastern Gulf of Mexico and Brazil. He has held a variety of technical positions including: drilling, reservoir, facilities, and completion engineering roles before moving into leadership roles with increasing responsibility. He holds a bachelor’s degree in Petroleum Engineering from Texas A&M University and is a licensed Professional Engineer for the state of Texas.
COMPLETIONS & PRODUCTION

A New Hybrid Physics-Based Multivariate Statistical Approach to Optimize Completions in Unconventional Reservoirs

The objective of this new approach is to provide a scoping tool for better economic completion design optimizations in unconventional reservoirs.

The method utilizes extensive data mining of actual completion and production data and combines these data with the actual physics of hydraulic fracture growth and reservoir flow dynamics.

Current statistical multi-variate models (MVA) use either multiple linear regression or neural network type models to find correlations between relevant completion/reservoir parameters and production. While these models have shown merit, they may have poor predictive capabilities, especially beyond the range of existing data. The new hybrid approach uses physics-based variable transformations in the MVA to provide more realistic predictions of how completion parameters affect production.

The MVA model is then used in an economic optimization routine to minimize Cost$/BO to help find an optimized completion design.

MICHAEL MAYERHOFER

Michael Mayerhofer is Director of Technology at Liberty Oilfield Services in Denver. He leads a team of engineers providing advanced hydraulic fracture engineering solutions with special emphasis on unconventional shale and tight oil and gas plays. Previously he was the Director of the Fracturing Center of Excellence at Pinnacle, a Halliburton Service, in Houston and worked for Union Pacific Resources in Fort Worth. He has a doctorate in petroleum engineering from Mining University Leoben in Austria. He received the 2009 Completions Optimization and Technology Award for the SPE Gulf Coast North America Region.
Accessing E&P Capital in 2018

America’s oil and gas producers share a long history with their bankers and other sources of capital. This relationship has weathered many boom and bust cycles. The last three years have seen over 134 E&P, 155 OFS, and 21 midstream bankruptcies in the oil patch, with hundreds of billions of dollars of equity and debt destroyed. Even those in the industry might doubt whether anyone can find new capital sources these days. But they would be wrong. There seems to be even more capital available today than ever – for the right team and the right rocks. But that has been the case ever since Spindletop. Buddy Clark will discuss future access to capital for producers in the context of the historical evolution of oil and money and the new changes in capital structures for oil and gas producers.

BUDDY CLARK

Buddy Clark is a partner, board member, and co-chair for Haynes and Boone’s Energy Practice Group. His 35-year legal practice has represented producers, banks, and private capital in oil and gas exploration, production and development agreements, property and midstream acquisitions, joint developments, litigation, and bankruptcies. In June 2016, Clark published Oil Capital: The History of American Oil, Wildcatters, Independents and Their Bankers, which traces the evolution of the relationship between independent producers and their capital providers in America’s oil and gas industry. Clark graduated from the University of Texas School of Law in 1982.
Surfactant Chemistry and Its Impact on Oil and Gas Recovery in Shale Plays

In the current oil price environment, it is critical to enhance production and add reserves, considering that a limited number of wells are being completed in shale plays. Surfactant, a fracturing additive, potentially enhances initial production and sustains long-term production, without significant changes to fracture design and pumping schedule on location. However, surfactant must be carefully selected in order to make wells flow better.

This presentation will give a concise overview on surfactant chemistry and its most relevant parameters to hydraulic fracturing. In particular, the key characteristics of surfactant additives will be discussed in terms of conventional wisdom and newer chemistry. Insights will also be provided into potential synergies between surfactant and other additives, such as friction reducer, scale inhibitor, biocides and proppant, thereby leading to a better fracturing fluids design. When properly selected, surfactant-containing fracturing fluids tend to lead to better well cleanup and higher ultimate oil recovery.

SPE Distinguished Lecturer, Liang Xu

Liang Xu is responsible for developing fracturing additives, including surfactant, friction reducer, and proppant transport. He was the recipient of the MVP award for surfactant technologies from Halliburton Academy, and his RockOn surfactant technology was voted the best production chemical in 2013 by World Oil. He has authored or co-authored over 15 SPE papers and several patents.
Mechanical Integrity Lessons Learned from API Process Safety Site Assessments: Driving Operational Excellence

The API Process Safety Site Assessment Program was developed in 2011 as part of the AFPM and API Advancing Process Safety Programs. PSSAP began conducting assessments in 2012. As of the end of 2017, the API Site Assessment program will have conducted 59 General (7 protocols) and 34 HF Alkylation/RP 751 assessments. These assessments have been conducted at 63 different refineries and petrochemical facilities. The areas assessed are Process Safety Leadership, Management of Change, Mechanical Integrity, Safe Work Practices, Operating Practices, Facility Siting, Process Hazards Analysis, and HF Alkylation/RP 751. Mechanical Integrity typically scores 10 percentage points lower than the other areas. This presentation will provide an overview of the program and present some of the mechanical integrity learnings, trends, and benchmarking data developed from the assessments based on the five-year history of the program.

CHAD PATSCHKE

Chad Patschke has more than 20 years of experience in maintenance, mechanical integrity (MI), process safety management (PSM), and engineering assignments involving operations, maintenance, process safety, and project management. He has held positions of Plant Manager, Operations Manager, Production Superintendent, Engineering Manager, and Materials Engineer. Patschke is a member of the API Committee on Refinery Equipment and Subcommittee on Inspection. He is a Certified Process Safety Auditor (CPSA) and participated in the joint API/AFPM Process Safety Site Assessment team for conducting site assessments and API RP 751, Safe Operation of HF alkylation unit audits at multiple refineries throughout the US. Patschke previously has developed and managed MI programs for a variety of companies.
PERMIAN BASIN

Why the Permian Basin is a Sustainable Resource

Our presenter recently stated that the Permian Basin contained between 450 billion barrels and 2 trillion barrels of oil equivalent. Others have made estimates between 40 billion and 70 billion barrels. Why the discrepancy and why the range? In any case, the number is, for all practical purposes, limitless for what remains of the hydrocarbon age. What has to happen for the bigger numbers to be true? How will that be achieved? There are some unsung fundamentals that we will discuss, as well as how far they can be extrapolated. It will mean discarding the “recipe book” and looking at how we optimize production on a wellbore location-by-location basis … the final frontier where not only surface infrastructure, but also subsurface infrastructure will be leverageable assets.

ALLEN GILMER

Prior to co-founding Drillinginfo in 1999, Allen Gilmer was an independent oilman for seven years, co-founding three profitable E&P companies. He began his oil patch career with Marathon Oil Corporation, as a geophysicist working in Research, Seismic Acquisitions, and South American exploration. Gilmer is active in all aspects of Drillinginfo’s new product development and is widely recognized for his industry leadership and vision. He holds several patents in the field of multi-component seismology. He received his BA in geology from Rice University and his MS in geology from the University of Texas at El Paso.
DRILLING

MPD: Current Uses and Future Prospects

This presentation will discuss managed pressure drilling’s current applications, some general examples of current operators’ use, and gaps seen using MPD within the industry. It will also cover possible improvements, future developments & the direction of the use of MPD.

WAEL ESSAM

Wael Essam has been with BP since 2002 and is Managed Pressure Drilling Team Lead in Houston. Essam has a BS in electrical engineering and a postgraduate degree in petroleum engineering.

INTERNATIONAL

The Leviathan Project: Groundbreaking Discoveries, Massive Untapped Potential & Long-Term Reliability

BRIAN HOGAN

Leviathan. The world’s largest natural gas discovery in 2010. The largest natural gas discovery in the region. These are only a few of the powerful phrases used to describe one of the greatest opportunities to hit the Eastern Mediterranean. Leviathan will expand Israel’s supply of natural gas and provide affordable energy resources to neighboring countries in the under supplied region.

Don’t miss the opportunity to hear Brian Hogan, Project Manager for Noble Energy’s Leviathan Development, as he shares a personal glimpse into The Leviathan Project. Get your questions ready for a lively Q&A to follow this exciting presentation.
Platform Decommissioning – An Operator’s Point of View

This presentation provides answers to several key questions about the decommissioning of oil and gas production infrastructure in the Gulf of Mexico from an operator’s point of view. Areas of discussion will include:

- Isn’t decommissioning of Gulf of Mexico oil and gas production infrastructure just development in reverse order?
- When should planning for decommissioning start?
- When does decommissioning really impact the finances of the owners?
- What should be considered when contracting for decommissioning services?
- How do federal and state agencies impact the decommissioning methods utilized?
- What kind of equipment spreads are needed for decommissioning?

MARSH ARMITAGE

Marsh Armitage has over 37 years of experience in the oil and gas industry, with 29 years working for an operator and eight years as a consultant. Armitage’s offshore experience includes engineering through decommissioning in both offshore California and the Gulf of Mexico. His onshore experience includes projects in the Permian Basin and Wyoming. Armitage has been responsible for W&T Offshore’s decommissioning activities since 2012, including decommissioning of subsea developments, shelf pipelines, and structures. He has a BS in civil engineering from the University of Texas at Austin and has been a registered Professional Engineer in Texas for over 30 years.

EVENT INFO

WHEN
Wednesday, Jan 17, 2018
5:00 – 6:30pm

SPEAKER
Marsh Armitage
Manager of Facilities and Construction
W&T Offshore Inc.

LOCATION
Jacobs Engineering
5995 Rogerdale Rd, Tower II (North Tower)
Houston, TX 77072

Please arrive 15 minutes early to allow time for the required Jacobs Safety Orientation.

CONTACT
Kevin Raatz
281-352-7808
kevin.raatz@jacobs.com

REGISTER ONLINE

Geomechanics Congress: Recent Advancement in Petroleum Geomechanics

Wednesday – April 18, 2018 | Southwestern Energy Headquarters | 10000 Energy Drive, Spring, TX 77389

SAVE THE DATE

The Geomechanics Congress is an effort from SPE GCS section to contribute and impart technical knowledge to members. There are four disciplines in the congress that will be discussed including: (1) Exploration Geomechanics, (2) Drilling Geomechanics, (3) Completion Geomechanics, and (4) Production Geomechanics. The main objective is to provide attendees with an opportunity to learn and discuss the latest and trending topics in petroleum geomechanics as well as sharing cutting edge technology developments with highly recognized speakers.

For sponsorship opportunities, please contact Reza Safari:
reza.safari@weatherford.com
Using Drilling Data to Optimize Completion Efficiency in a Low-Permeability Formation

This presentation describes a case study involving a series of wells, initially employing multi-stage plug-and-perf completions that were diagnosed as having poor perforation efficiency and poor reservoir contact. A change to sliding sleeve/coiled tubing completions ensured reservoir contact but suffered from occasional mechanical failures resulting in costly penalties to complete the wells. A return to plug-and-perf completions was accompanied by an additional step of using drilling data, through the use of neural networks, to generate synthetic rock properties logs whose identified stresses were then employed to select perforation spacing to take advantage of “like stresses” to improve perforation efficiencies. Gas chromatography data were used to determine the highest permeability sections of the lateral and the liquid-rich hydrocarbon-bearing sections. The combined analyses resulted in completions optimization based on stress and relative/contrasting permeabilities and associated production improvements.

LYLE LEHMAN

Lyle Lehman is the President of Frac Diagnostics, LLC and has over 40 years of experience in the stimulation industry. He holds eight patents, with several patents pending, and has authored numerous technical papers and business articles on stimulation topics. Lehman serves as a special completions adviser for Nobel Upstream and is a member of the Board of Directors of Endurance Resources, LLC. He holds a BS degree in chemistry from the University of Oklahoma. He is a member of the Society of Petroleum Engineers and serves as the Completions Technology Transfer liaison and as an at-large member of the Distinguished Lecturer Committee.
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- Determine clean out efficiency

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www.tracerco.com/reservoir-characterisation

PROFESSIONAL REGISTRATION REVIEW COURSES FOR PETROLEUM ENGINEERING

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

2018 HOUSTON COURSES
I  August 20 – 24, 2018
II  October 8 – 12, 2018

MORE INFORMATION:
PHONE: 405-822-6761
E-MAIL: bingwines@cox.net
WEBSITE: winrockengineering.com
WEBSITE E-MAIL: winrockpe@gmail.com
The agenda for the twenty-fourth seminar in the series will include “Managing Change During Challenging Times,” “Starting from Zero: Technical Idea to Sustainable Business,” and “Working with Millennials” and a discussion of resources for SPE Members.

ATIF SIDDIQI
Atif Siddiqi has over 15 years of experience in financial analysis, business planning, operations, and relationship and project management. He leads the Information Management, Technology Enablement, Production and Economics practice for Landmark North America services group. In the past, he held positions including Global Executive Manager, Offshore Service Delivery Manager, and Program Manager for various oil and gas services organizations. Siddiqi holds a bachelor’s degree in finance and a master’s in information systems.
Starting from Zero: Technical Idea to Sustainable Business

As an entrepreneur with a technical idea, one can use known tactics to make money and run, or, start from zero and build a sustainable brand. The former is easy (serial entrepreneurs, VCs, license deals); the latter is hard (the garage innovator with a differentiated and scalable technology). I will talk about the different perspectives needed for executing the latter.

DR. ANAND S. NAGOO

Dr. Nagoo is an expert in analytical modeling of multiphase flows in wellbores and pipelines. Currently, he regularly consults on multiphase flow projects around the globe. Dr. Nagoo is a father of two young boys and has 19 years of research and industry experience in various engineering roles and holds M.S. and Ph.D. degrees from Stanford University and UT Austin.

Working with Millennials

As one generation had begun to retire, the industry has seen the face of a very different workforce. Millennials are inspired by very different drivers than previous generations. Learning more about this generation’s characteristics will improve how you engage and communicate, share knowledge and be an effective teammate or manager of them.

BROOKE BRADBURN

Brooke has worked for Chevron since 1998, as a production engineer for fields in Southern Oklahoma and North Texas, as reservoir engineer and team lead in tight gas assets including East Texas Cotton Valley, Haynesville Shale, Piceance Basin, as Tombua-Landana Subsurface Team in Block 14 in Angola, and in roles in business planning, Capital Stewardship and Organizational Capability, and as Upstream Campus Recruiting Coordinator. Brooke graduated from Texas A&M University with a BS in Petroleum Engineering.

EVENT INFO

WHEN
Friday
Jan 19, 2018
10:00am – 3:00pm

SPEAKERS
Atif Siddiqi
North America Practice Manager
Halliburton
Dr. Anand S. Nagoo
Consultant, Multiphase Flow Projects
Brooke Bradburn
Chevron

LOCATION
Houston Technology Center
410 Pierce St
Houston, TX 77002

CONTACTS
Susan Howes
713-553-5020
c.susan.howes@gmail.com
Ashish Fatnani
832-415-6835
ashish.fatnani@halliburton.com

Registration Cap: 70

REGISTER ONLINE
Business Development Workshop: Value Stream Mapping for Drilling Engineers

TOPICS AND OUTLINE OF SESSION:

8:00am–9:00am  Overview of Value Stream Mapping

9:00am–10:00am  • Icons used in a Current State Map
                   • Icons used in a Future State Map
                   • How to use a Value Stream Map to identify the following in a process or system:
                     Types of waste
                     Production delays
                     Improvement opportunities
                     Logistical problems
                     Scheduling problems

10:00am–10:15am  Break

10:15am–11:15am  Case Study: A Value Stream Mapping event conducted at Jotul North America to evaluate and improve operation of their assembly line to manufacture gas-fired stoves.

11:15am–12:00pm  • How can VSM be applied in the drilling industry?
                   • Are there other tools that complement VSM?
                   • What are the limitations of VSM?
                   • Is there a better alternative (or alternatives) to VSM?

12:00pm  Workshop evaluation and adjournment

Dr. Shahrukh A. Irani

Dr. Shahrukh A. Irani is President of Lean and Flexible, LLC, a consulting company that delivers advisory, training, and implementation services focused on Lean for high-mix low-volume manufacturing (aka JobshopLean). He is President of the Houston Senior Chapter of the Institute of Industrial and Systems Engineering. From 2012-2014, he worked as the Director of IE Research at Hoerbiger Corporation of America Inc. In that position, he undertook projects to demonstrate the viability of JobshopLean in HCA's high-mix low-volume manufacturing facilities. From 1996-2012, he was an Associate Professor in the Department of Integrated Systems Engineering at The Ohio State University.
CONTINUING EDUCATION

Artificial Lift and Production Optimization Solutions

This one-day course will give attendees an understanding of artificial lift technologies and related production optimization concepts. After introducing participants to the need for an artificial lift system, the training will focus on each of the following lift methods: gas lift, reciprocating rod lift, electrical submersible pumping, progressing cavity pumping, hydraulic pumping, plunger and capillary system. For each, the course will cover main components, application envelope, and relative strengths and weaknesses. There will also be a discussion on the digital oilfield as applicable to artificial lift optimization.

Who should attend?
• Production, reservoir, completion, drilling, and facilities engineers.
• Anyone interested in learning about implications of lift systems for their fields and reservoirs.

DR. RAJAN CHOKSHI

Dr. Rajan Chokshi is an artificial lift and production “Optimizer” for Accutant Solutions – a training and consulting services provider. He has over 34 years of experience working with a national oil company, research consortia, consulting and software firms, and a service company. His petroleum and software experience spans globally in the areas of multi-phase flow, artificial lift, production optimization, well performance improvement, and real-time production monitoring.

He has co-authored over 15 SPE papers and has four patents pending. Chokshi was an SPE Distinguished Lecturer for 2015-2016. He holds bachelor’s and master’s degrees in chemical engineering from the Gujarat University and IIT-Kanpur, India, and a PhD in petroleum engineering from the University of Tulsa.

EVENT INFO

WHEN
Friday
Jan 19, 2018
8:30am – 4:30pm

SPEAKER
Dr. Rajan Chokshi
Artificial Lift and Production Optimizer, Accutant Solutions

LOCATION
SPEI Houston Training Center
10777 Westheimer Rd, Ste 1075
Houston, TX 77402

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

PRICE
Members: $350
Non-Members: $375
Students/MIT/Retired: $150

REGISTER ONLINE
Introduction to Intellectual Property Laws

Intellectual property is an important subject for everyone involved in oilfield operations, but particularly for engineers. At a broad level, it encompasses four areas—patents, copyrights, trademarks, and trade secrets. Intellectual property can be critical to a company’s success, and also to an individual’s success. This luncheon will cover the basics of the four areas of intellectual property and provide an opportunity to ask questions of the attorney who also engineers and understand the oilfield industry.

MICHAEU GREY

Michael Grey is an attorney with Shook, Hardy, and Bacon LLP. He was formerly a drilling engineer at ExxonMobil, where he designed wells for offshore and onshore locations in Asia and Africa. After some time as a drilling engineer, he pursued a law degree and now primarily practices patent litigation. He recently co-authored an SPE paper regarding current regulatory impacts on hydraulic fracturing. He holds a bachelor’s degree in mechanical engineering from Purdue University and a juris doctorate from the University of Houston Law Center.
MANAGING YOUR CAREER

Whether you are in your last year of college, in your first assignment, or have 10 or more years of experience, you need to think about actively managing your career. What are the critical documents that you should maintain throughout your career? How do you gather information about opportunities, whether you’re seeking to move within your current company or looking for a role elsewhere? Once you have a new job lined up, what’s next?

Susan Howes, PE, PHR

Susan Howes, PE, PHR, is Vice President of Engineering at Subsurface Consultants & Associates, LLC, where she is responsible for recruitment, consultancy and training services. Howes began her career with Anadarko, and in 2007, she joined Chevron. Howes has co-authored articles on uncertainty management, risk management, and talent management. She 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.

VOLUNTEERING AT THE HOUSTON MARATHON

Please join the Young Professionals group as we volunteer at the Houston Marathon. Volunteers will set up and distribute post-race meals and snacks for runners at the H–E–B Food Court, located in the George R. Brown Convention Center, from 7:00 to 11:00 AM. Volunteers will also direct runners to recycling and composting stations as they finish their meals.

Wear weather-appropriate clothing and comfortable shoes. Please arrive at 7:00 AM at the Volunteer Check-in in the Convention Center. Be ready to have fun in a great atmosphere! The Houston Marathon consistently sells out its 27,000 runner spots well before race day, and people from around the world come to Houston to participate.

Please note: You must register on the Houston Marathon volunteer website with our group, Society of Petroleum Engineers, so that the marathon committee has an accurate headcount. Please visit the registration page using the button to the right.
WHERE ARE THEY NOW?

Past Scholarship Winner: Omar Abou-Sayed

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 Omar Abou-Sayed’s story:

Entering college, I had no intention of going to work in the oil industry.

I had watched my parents, both of whom worked in the industry, go through round after round of layoffs, and it held little appeal. Also, what high schooler wants to be just like their parents? Moreover, the science of fluid flow through porous media was not my interest – I was far more drawn to more tangible aspects of engineering, like machines and structures. With the dot.com bubble headed into full swing, there were lots of more interesting options, I thought.

There was one complication though. I had been fortunate enough to receive an SPE-GCS scholarship coming out of high school, and maintaining that scholarship required that I demonstrate tangible steps towards a career in oil and gas. As a mechanical engineering student, this meant joining the SPE Student Chapter and applying for internships with oil companies. When I was applying during my sophomore year, the only engineering companies willing to hire a student only two years into college were oil companies hiring for field positions. That summer, I went to work offshore as a roustabout for BP in the Gulf of Mexico. What I realized over the next two years was that the energy industry was behind everything that made our society work and made our standards of living high. I learned that it was among the most globally connected industries, a fact that appealed to my sense of adventure and deep interest in politics. The pay was great, and it afforded me the opportunity at a young age to travel, live and work overseas. As for the big machines and structures that were more my style, well, I’d gotten to crawl inside gas compressors the size of a semi-trailer after flying on a helicopter to land on some of the biggest structures in the ocean.

When I graduated, I turned down offers in consulting and dot.coms to go to work for BP.

My early career path included working in the upstream for BP for about five years in a variety of engineering and commercial roles, including an expatriate assignment in London. After that, I attended Harvard, where I received my MBA, and then re-entered the energy industry through various entrepreneurial ventures. I am now CEO of an oilfield waste management service company, which is funded by one of the largest private equity groups in the world.

My SPE-GCS scholarship created the impetus behind my exploration into a career in the oil industry despite my relatively superficial knowledge of it going into college. It also provided me credibility as an applicant for internships that cemented my pathway toward a good career in the industry. My advice to students is to make it a point connect with and find mentors in the industry through SPE, as they can be invaluable as you look for jobs and guidance over the next few years.

CAREER OVERVIEW

Chief Executive Officer, Advantek Waste Management Services

• Clements High School – 1994
• University of Texas at Austin, BS in mechanical engineering – 1998
• The Harvard Business School, MBA – 2004

My SPE-GCS scholarship created the impetus behind my exploration into a career in the oil industry despite my relatively superficial knowledge of it going into college. It also provided me credibility as an applicant for internships that cemented my pathway toward a good career in the industry. My advice to students is to make it a point connect with and find mentors in the industry through SPE, as they can be invaluable as you look for jobs and guidance over the next few years.
SCHOLARSHIP COMMITTEE

2017-2018 SPE-GCS Scholarships

SPE-GCS scholarships are available to students who maintain a GPA of 3.0 or higher and are majoring in petroleum engineering, geology, or related discipline. Students not majoring in petroleum engineering or geology but who complete an internship with a company in the oil and gas industry are also eligible.

Requirements for New Applicants

- Currently reside in Houston or the 29-county Gulf Coast area (Austin, Brazoria, Brazos, Burleson, Chambers, Colorado, Fayette, Fort Bend, Galveston, Grimes, Hardin, Harris, Jasper, Jefferson, Lee, Liberty, Madison, Matagorda, Montgomery, Newton, Orange, Polk, San Jacinto, Trinity, Tyler, Walker, Waller, Washington, and Wharton)
- Currently be a high school senior
- Be a US citizen
- Enroll in an engineering or science program at a university in the fall
- Completely fill out the scholarship form and submit by February 12, 2018
- Submit high school transcripts
- List activities, awards and honors
- Submit SAT and/or ACT scores (minimum SAT score of 1650)
- Include professional reference letters
- Submit short essay (about 500 words)
- Demonstrate financial need (if applicable; not required)

The Process

- The Scholarship Committee will review each application.
- Selected applicants will be interviewed (April 2018).
- After the interviews, the Scholarship Committee will meet and decide the scholarship recipients (May 2018).

COMPLETED APPLICATIONS
gcsscholarship1@gmail.com

Note

Renewable yearly scholarship ($1,000/semester, $2,000/academic year) up to 4 years

Each 2017-18 first-time scholarship recipient may be eligible for a summer internship with an oil and gas company on availability.

Visit the SPE-Gulf Coast Section homepage and select the Scholarship Committee page for more details.

SPE-GCS SPONSORSHIP CHAIR
Eric Robken: gcsscholarship1@gmail.com

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IES is SPE-GCS' flagship event for promoting innovation in the oil and gas industry by advancing knowledge and enabling collaboration between entrepreneurs, investors and organizations.

Oil and gas startups are now welcomed to submit their application for participation in the IES Shark-Tank-style event, where they will have the opportunity to present their business idea to oil and gas investors and initiate funding discussions. Additional information and Shark-Tank submission form is available at specgs.org/IES/

CONFIRMED SPEAKERS

Omar Abou-Sayed  
CEO, Advantek

Kemal Anbarci  
MD, Chevron  
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Chief Technologist,  
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Oliver Phillips*  
VP, Limerock Partners

* shark-tank judges and moderator

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November Event Recap

Even as last semester started winding down, Texas A&M SPE remained busy with a number of events in November. At the start of the month, Dr. Ibere Alves hosted a demonstration of the pumpjack just down the street from the Richardson Petroleum Engineering Building. Dr. Alves also took part in a joint seminar with Texas A&M’s Chapter of the American Institute of Chemical Engineers (AIChE). In the seminar, Dr. Alves and Dr. M.M. Faruque Hasan, an Assistant Professor in the Texas A&M Chemical Engineering Department, presented on “Upstream & Downstream: The Big Picture” and showed how chemical and petroleum engineering are connected.

Texas A&M SPE also hosted several professional events in November. One unique learning experience was a visit from a Schlumberger Logging Unit. Students were able to see for themselves the various aspects of a logging job and visit with company representatives. Another valuable opportunity for members was a day-long Visual Basic Training hosted by Derrick Turk, President of Terminus Data Science, LLC. SPE has offered trainings from Mr. Turk in the past, and we were grateful that he again taught this excellent course.
Young Professionals Committee: Houston Food Bank Volunteers

Thank you to all volunteers who helped at the Houston Food Bank on November 11. We had a great turnout of high school students, SPE college chapter students, SPE professionals, and members of other professional organizations. The diverse group of volunteers encouraged interaction and mentoring while contributing to our community. Your generous time contribution allowed us to complete 40,000 meals that will be provided to those in need. To assert SPE’s commitment to our community, we have several more volunteering opportunities available. For more details, check out our event calendar at www.spegcs.org/events.

HSSE&SR Study Group: Health, Safety and Environmental Outreach

The HSSE&SR Study Group held a health, safety and environmental outreach at Rice University on November 17. Pictured right to left are speakers Megan Parks (“Oil and Gas Careers for Environmentalists”), Angelo Pinheiro-Study Group Chair (“Upstream Petroleum Value Chain”), and Craig Pryor (“Inherently Safer Design and Introduction to Process Safety Management”); Eric Vavra, Chair of Rice SPE Chapter; and other student officers. Over 20 chemical engineering graduate students at Rice attended the event.
Permian Basin Study Group: Second Annual Permian Basin Panel Discussion

On November 14, the Permian Basin Study Group held its second annual Permian Basin Panel Discussion. This year’s panelists included Chad McAllaster, Vice President, Operations for Anadarko’s Delaware Basin; Michael Lattibeaudiere, Director of Operations, Permian for Noble Energy; and Stephen Ingram, Leader of Halliburton North America. Successes, challenges, applications, and production optimization in the Permian Basin were discussed.
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