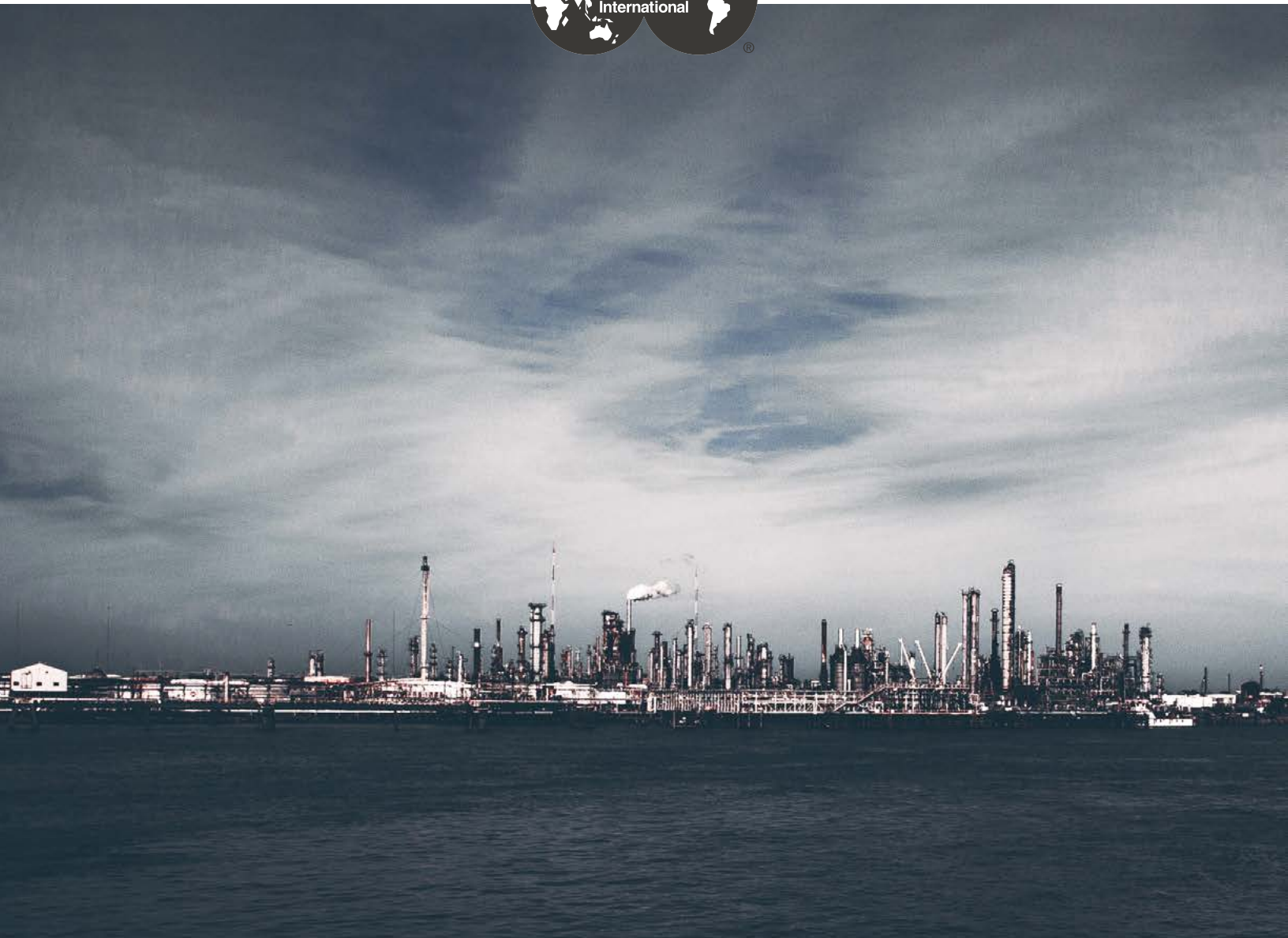


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SPE GULF COAST SECTION



FEBRUARY 2018



**2017 SPE
Young
Engineers of
the Year**

RECOGNITION

**Heikkinen
Energy Advisors
2018 Energy
Market Outlook**

NORTHSIDE

**2018 45th
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The Recovery After Harvey

TREY SHAFFER, 2017 – 2018 SPE-GCS CHAIR

Hurricane Harvey made landfall as a Category 4 hurricane with winds of 130 mph near Rockport, TX, on

Aug 25, 2017, and then began to unleash its ongoing destruction in South Texas for days as a weakening hurricane and tropical storm. Ultimately, Hurricane Harvey dropped 40-52 inches of rainfall in southeast Texas and southwest Louisiana, and all continental US tropical storm records were broken. Harvey continued its destruction and triggered flash flooding in parts of Arkansas, Kentucky and Tennessee through Sept 1. Estimates on the volume of water are staggering; some reports project that as much as 27 trillion gallons of water were released in the region.

The financial impact to families and the economy has been significant. While some have been able to quickly recover, other families continue to struggle with the recovery effort, and the financial burden has been significant. If we were not personally impacted, it is safe to say that we all know someone who has been impacted by the storm. While it is difficult to find updated numbers from official sources, some reports indicate that at least 82 people died because of the hurricane.

As I shared in November, about 75 SPE members volunteered at the Reliant and other efforts to support hurricane recovery. We also launched a fundraising campaign, and several members contributed to the relief effort. The Gulf Coast Section Board of Directors agreed to match the funds raised during the fundraising campaign.

The Board met with Richard Saxon and Gary Brooks with Oilfield Helping Hands (OHH) in October to learn more about the organization as a potential candidate to receive funds raised by our section. OHH is an organization dedicated to helping oilfield families in need. They have provided cash assistance and

helped hundreds of oilfield families in Houston and surrounding areas as they rebuild their homes and lives following Hurricane Harvey. To learn more, visit www.oilfieldhelpinghands.org.

I am pleased to report that the funds raised by members were matched by the section and that \$6,000 was donated in December to Oilfield Helping Hands for Hurricane Harvey victims. In addition to donations from individual members, the Gulf Coast Section received a contribution from our friends in the Dallas Section. Thank you to everyone who donated time and resources in this effort.

We remain very concerned about our people, our community, and all who have been affected by Hurricane Harvey. There will continue to be significant recovery efforts. The stress and financial burden for families recovering from the storm damage is going to be real and persistent for some time to come. On behalf of the SPE-GCS Board of Directors, we truly wish the best to all members as you continue to recover from Hurricane Harvey.



From left: Lisa Li, GCS Community Service Chair; Trey Shaffer, 2017-2018 GCS Chair; Gary Brooks, Director and Board Member at Oilfield Helping Hands; John Kowalski

Continued on page 3

Chair's Corner, Continued from page 1

Celebrating Success in 2017

Serving as the Section Chair for the Gulf Coast Section reminds me of the old riddle: "What walks on four legs in the morning, two legs in the afternoon, and three legs in the evening?"

As some SPE members know, accepting the role of Section Chair requires a three-year commitment to the Gulf Coast Section. The first year as Vice Chair is a learning year and typically involves attending the monthly BOD meetings and a special project. The main objective in the first year is to become familiar with the activities and priorities of the Board of Directors so that you can be fully prepared in Year 2. The second year is the year when you step into action as Chair and take the responsibility of leading the Board meetings and a number of other responsibilities, including signing the contracts for the section, writing the monthly Chair's Corner, and responding to more e-mails from section members than you ever imagined. Finally, when Year 3 comes and you think it is all downhill, there are several duties remaining for the Past Chair, including chairing the nominating committee to ensure that the GCS Board remains strong and vibrant and chairing the Scholarship Endowment Fund Committee to build a foundation for future scholarships. Finally, the Past Chair leads the preparation of the Annual Report for the section.

In 2016, Ivor Elul was the Past Chair and led the preparation of the section's Annual Report. During Deepak Gala's term, the Gulf Coast Section was honored to receive the President's Award for Section Excellence. To quote SPE, "This award is the highest honor for a section, recognizing those that are exemplary in the categories mentioned below. The awards are presented during the President's Luncheon at the SPE Annual Technical Conference and Exhibition."

The President's Award for Section Excellence Shall Recognize:



At the December 2017 Gulf Coast Section Board of Directors meeting, I was honored to celebrate the recognition of the President's Award for Section Excellence with Ivor Elul and Deepak Gala. Congratulations to Deepak and the 2016-2017 Gulf Coast Section Board of Directors and the extended leadership team of the section. Sunil Lakshminarayanan accepted the award on behalf of the GCS at the October 2017 ATCE Meeting in San Antonio. Many thanks to every SPE member who volunteered their time to enable this achievement during the 2016-2017 term. Finally, special thanks to Ivor for his work to develop a robust Annual Report and ensure its timely submission to SPE International, without which this award would not be possible.

The Gulf Coast Section has received the President's Award for Section Excellence in 2005, 2006, 2007, 2009, 2011, 2013, 2014, 2015, and 2017. The Section was honored in 2012 with the Section Award for Innovation. There are currently 198 sections within SPE, and very few have achieved this distinction over the years. Congratulations!



From left: Ivor Elul, 2015-2016 Chair; Deepak Gala, 2016-2017 Chair; Trey Shaffer, 2017-2018 Chair

Reminder:

Now that We've Gone Digital...

Now that we have made the transition to a digital newsletter, it is important that you maintain your SPE profile, ensure that your correct e-mail is on file, and that you have opted to receive e-mails from SPE. If you are feeling brave and would like to confirm your selection for receiving our e-mails, follow these steps:

- Sign in to your SPE account at www.spe.org.
- Go to "My Account" link, at the top right corner.
- Once in your profile settings, click on "Communication Preferences."
- Select "Please Contact by Email."

If you have any difficulty, please e-mail Taylor Wright at SPE-GCS@spe.org.

My Account > Communication Preferences

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SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	New Year's Day			• Innovate	Groundhog Day • Training: Refracturing	
				01	02	03
• Young Professionals				• General Meeting • Training: Directional Drilling		
04	05	06	07	08	09	10
		• Northside SG	Valentine's Day	• Drilling SG • Board of Directors Meeting	• Training: PVT • Members in Transition (MiT)	• Young Professionals
11	12	13	14	15	16	17
	President's Day	• Permian Basin SG • Water & Waste Management SG	• Westside SG	• Data Analytics SG • Reservoir SG	• Young Professionals	
18	19	20	21	22	23	24
			• Completions & Production SG			
25	26	27	28			

2018 Upcoming Full and Half-Day Events – Mark Your Calendars!

FEBRUARY

COMPLETIONS & PRODUCTION 1-DAY EVENT

MARCH

15 ANNUAL DRILLING SYMPOSIUM

21-22 INNOVATION & ENTREPRENEURSHIP SYMPOSIUM

27 UPSTREAM OIL AND GAS HIRING EVENT

APRIL

12 PERMIAN BASIN SYMPOSIUM

18 GEOMECHANICS CONGRESS 2018

19 DATA ANALYTICS ONE-DAY EVENT

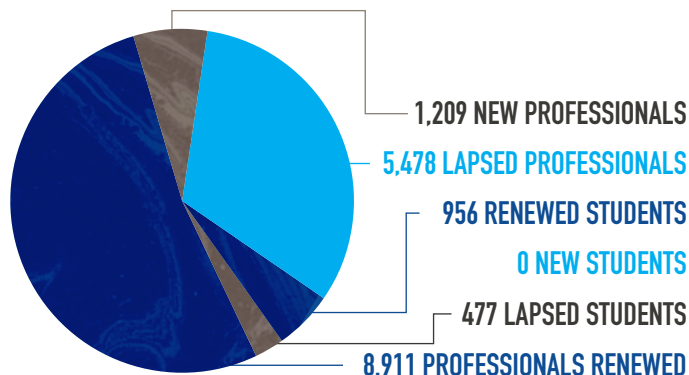
26 RESERVOIR TECHNOLOGY SYMPOSIUM

MAY

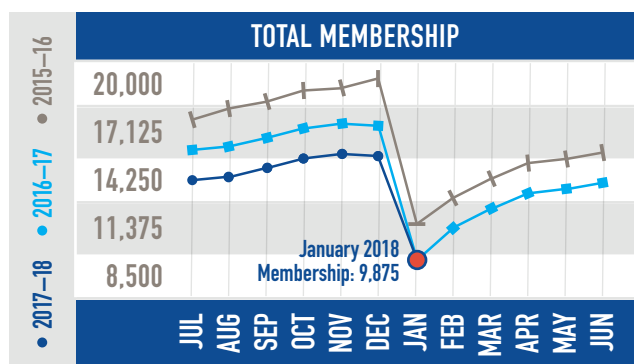
REGULATORY ROUNDTABLE ON EMERGING HSE ISSUES: POTENTIAL IMPACTS, CHALLENGES & OPPORTUNITIES FOR UPSTREAM OIL AND GAS

EMERGING ENGINEERS SYMPOSIUM

Membership Through January 2018



Current Membership Trends



Board of Directors Meeting

WHEN Feb 15, 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

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Expand your network with managers, engineers, scientists, and other professionals locally and worldwide.



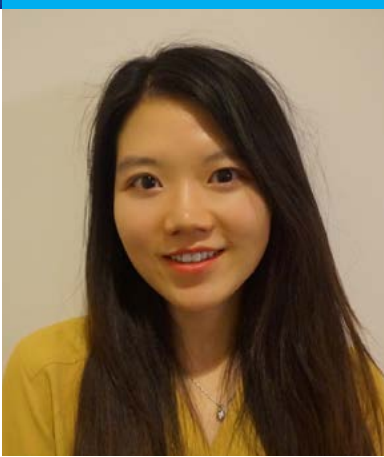
Develop leadership skills and contribute to the profession through our programs and activities.



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



AMY MAO

Amy Mao volunteers with the Data Analytics Study group. Amy obtained a BS in petroleum engineering from the Colorado School of Mines in May 2016. To catch our industry transformation, she is pursuing her master's

degree at the University of Houston in applied mathematics, focusing on statistic computing and machine learning. She is also gaining a large amount of experience in objective-oriented design, product development, and project management from her current job as Quantitative Developer at Ulysses Commodities, LLC. Volunteering with SPE has been part of her joy after work and school in the past year.

While attending an SPE Data Analytics luncheon last year, she found a strong connection across her statistics courses and petroleum background. To get more involved, she volunteered to

work on event coordinating for the group. This upcoming year, she will be the Treasurer of the group. She is also very involved with reviewing and analyzing feedback to make this study group even better for our members.

The experience Amy gets with SPE is so unique and special since it combines her educational and working experiences. She has learned a lot from her roles with the Data Analytics Study Group, and she says it is obvious that volunteering has a lot of value and impact to the entire industry.

“Be the change!” she says. “Be part of something bigger than yourself!”

Thank you for all you do for SPE!



JAMES DEAVER, P.E.

James Deaver, P.E. is an Engineering Advisor at Oil Field Development Engineering, an upstream and midstream engineering design and consulting company. He is involved with all aspects of projects — including technical and project

execution configuration and detailed design. James has a BS in petroleum engineering from Texas A&M University.

James joined SPE as a student member in fall 1977 as a freshman at Texas A&M. He has been involved with the Projects, Facilities, and Construction Study Group. He has also been involved with the SPE complexity study.

James volunteers with SPE because he knows how much he benefited from the older members of our industry and he hopes he can pass on some of the experiences he has had to others. He has been fortunate in his career to have been to all continents except Antarctica and to have worked on some of the most interesting projects worldwide.

“The best part of the volunteering has to be the people you meet, both the ones you teach and the ones from whom you learn,” he says.

Thank you for all you do for SPE!

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THEN & NOW

FEBRUARY 2000

The Federal Trade Commission's attempt to halt the \$26.8 billion merger of BP Amoco and ARCO is shaping up as the biggest oil antitrust legal battle since the government broke up Standard Oil nearly a century ago.

Meanwhile, across the pond, the European Commission approves TotalFina's takeover of Elf, based on pledges given by TotalFina to sell certain assets.

Light sweet crude: \$28.05/bbl

Natural gas: \$2.70/MMbtu

US rig count: 757

FEBRUARY 2006

US drilling activity hits the highest level in 20 years with 1,513 rotary rigs working the first week of the month.

Total is summoned to a French court to be tried for "marine pollution" and "complicity in endangering the life of others" in connection with last year's shipwreck of the Erika tanker and heavy fuel oil spill that polluted 400 km of the Brittany coast.

Light sweet crude: \$66.58/bbl

Natural gas: \$8.88/MMbtu

US rig count: 1,513

FEBRUARY 2012

The European Union imposes an embargo on Iran's oil exports as part of a package of new sanctions aimed at curtailing funds for Tehran's alleged effort to acquire nuclear weapons and pressuring it to return to talks.

A New Orleans federal judge rules that BP is required to indemnify Halliburton Company for third-party compensatory claims involving pollution or contamination that did not originate from Halliburton property or equipment located above the surface of land or water in the Apr 20, 2010, Macondo well blowout and resulting oil spill.

Light sweet crude oil: \$99.44/bbl

Natural gas: \$2.62/MMbtu

US rig count: 2,008

THE REST OF THE YARN

This month we continue our look back at the rise and fall of wildcatter Glenn McCarthy, as he is back drilling his own wells.

By 1942 McCarthy was back drilling his own wells. He kept to areas he knew — the swamplands and moors south and east of Houston — and his crews hit gusher after gusher at Anahuac, Chocolate Bayou, Angelton, Collins Lake, Coletto, and North and South Stowell. Overnight, it seemed, McCarthy became the hottest oil finder in Texas. Michel Halbouty, who went on to become one of Houston's most celebrated oilmen, called McCarthy "possibly the best practical oilman the country had produced, an improviser who could drill with junk and who possessed a knack for finding oil he

couldn't explain because it came installed in his system like an antenna."

All through the war years, with little fanfare, McCarthy opened new fields, extended old ones, and fattened his bank accounts. By 1945 he was a very wealthy man, with oil reserves worth \$50 million (about \$535 million today). He bought the 22-story Shell Building in downtown Houston and then led a group that bought the Second National Bank. Like every successful oilman, he added a ranch: 15,000 acres of West Texas prairie outside Uvalde. He enjoyed nothing so much as racing around his land in one of his Cadillacs, a bottle of bourbon at his side, slowing down just long enough to blast his shotgun at a rattlesnake or dove.

Had McCarthy stopped there, he might have been recognized as a fifth member of the "Big Four," lazing away his days

playing cards like Sid Richardson, or sniping at politicians like Roy Cullen. How differently things would have turned out had he just stuck to oil. But McCarthy was a man with dreams — vast, historic, world-altering dreams. Whether they sprang from his modest beginnings, a desire to eclipse his wealthy father-in-law, or something else altogether, McCarthy burned to eclipse the Hunts and Cullens and Richardsons atop the Texas pyramid and to own refineries, office towers, and pipelines. And the more he thought, the more he planned, the more he mapped out in his mind what postwar America would need, the more McCarthy's dream crystallized into a single idea.

Next month, McCarthy's single idea is revealed.

HISTORY QUIZ

What was the nickname ascribed to the Indian Territory Illuminating Oil Co.'s #1 M.S. well, and how did it get that nickname?

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

ANSWER TO JANUARY'S QUIZ

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

Congratulations to December's winner – Lupita Villanueva



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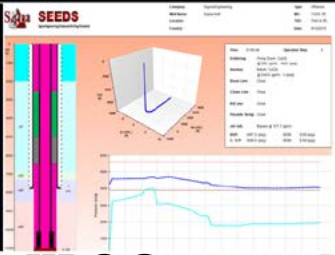
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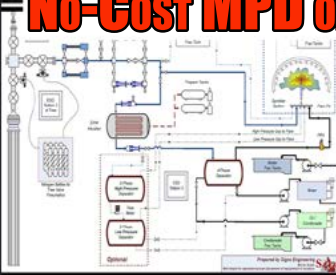
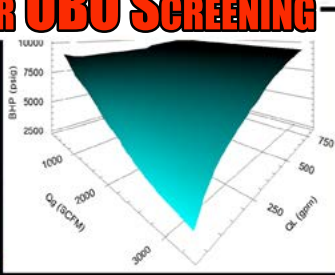


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DATA ANALYTICS**Digital Operations – Creating Value Through an Integrated Production Surveillance and Optimization System****TOPIC 1**

Sathish Sankaran will discuss technical challenges faced in deepwater operations and the methodology adopted for implementing an integrated production surveillance and optimization (IPSO) system to mitigate the risks. This deepwater digital oilfield system is a culmination of emerging information and communications technologies, data analytic algorithms, and fit-for-purpose asset management workflows.

He will share case studies on application of data analytics to reservoir management problems, highlighting the benefits from implementing the IPSO system across all deepwater assets. He will also discuss best practices and lessons learned from green field deployment and how they were transferred to other mature brown field operations within the company to create sustained value across the portfolio.

**SATHISH SANKARAN**

Dr. Sathish Sankaran has over 17 years of diverse industry experience. His areas of specialization include integrated reservoir management, digital oilfield technologies, field development optimization, uncertainty analysis, production operations, and advanced process automation. He has authored several technical papers on these subjects and serves as the Chair of the Digital Oilfield and Data Analytics section of the SPE Reservoir Description and Dynamics Advisory Committee. At Anadarko, his responsibilities include managing a multi-disciplinary engineering team within the Advanced Analytics and Emerging Technologies group. He also serves as the senior technical advisor to the company's digital oilfield program, called IPSO.

TOPIC 2

In this talk, we will review how OXY leverages data science and analytics in its core business. The presentation will include a description of the team's skill sets and a few examples

of success stories in drilling dynamics and drilling analytics, appraisal and characterization analytics, and operational analytics.

**REZA RASTEGAR**

Reza Rastegar is the Director of Analytics and Data Science at OXY. Previously, he worked as a senior consultant at Halliburton and an engineering manager with National Oilwell Varco. He has also spent several years in the tech industry working on video and signal processing applications. Rastegar holds a PhD in applied mathematics, an MS in mathematics, an MS in artificial intelligence, and a BE in software and electrical engineering.

EVENT INFO**WHEN**

Thursday
Feb 22, 2018
5:30 – 7:30pm

SPEAKERS

Sathish Sankaran
*Engineering Manager,
Advanced Analytics and
Emerging Technologies,
Anadarko Petroleum
Corporation*

Reza Rastegar
*Director of Data Analytics,
OXY*

LOCATION

Station Houston
1301 Fannin St, Ste 2440
Houston, TX 77002

CONTACT

Supriya Gupta
857-264-9460
supriyao26@gmail.com

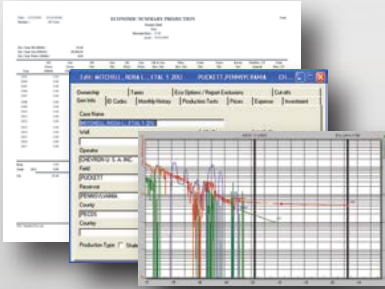
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WORTHWHILE CONVERSATIONS

PROTECTING YOUR BLIND SIDE

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 46 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.



Phillip Hamman discusses cyber fraud and what proactive measures clients can take with J. Harold Williams. (Left to right: Phillip Hamman, CFA, CFP®; J. Harold Williams, CPA/PFS, CFP®)

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.

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RESERVOIR

Developing the Wilcox in DW GOM – Turning Up the Pressure on Ingenuity, Partnering, and Technology

New development plays often require technology development to mature their potential. The Jack/St. Malo development, in the GOM's Lower Tertiary play, is a clear example where both technology development and collaborative relationships were required to exploit the

fields' significant resource potential. Key success factors were early recognition of, and investment in, game-changer technologies, and fostering long-term relationships and excellent collaboration with service providers and co-owners to make them a reality.

CHRIS RICCOBONO



Chris Riccobono has over 37 years of industry experience, predominantly focused on upstream development and operations. He has held a variety of petroleum engineering, staff, and leadership roles across all phases of Chevron's projects and operations. He has been involved with new field development projects in West Africa, Scotland, Norway, and, most recently, the Gulf of Mexico. Between 2010 and January 2017, he was the Subsurface Manager for the Jack/St. Malo Development.

EVENT INFO

WHEN

Thursday
Feb 22, 2018
11:30am – 1:00pm

SPEAKER

Chris Riccobono
Head Sponsor, Chevron

LOCATION

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

CONTACT

Swathika Jayakumar
713-328-2374

swathika.jayakumar@corelab.com

[REGISTER ONLINE](#)



2018 Reservoir Technology Symposium

Thursday, April 26, 2018

Anadarko Conference Center – The Woodlands, Texas

SAVE THE DATE

The Reservoir Technology Symposium is the annual event hosted by the SPE-GCS Reservoir Study Group. The event disseminates 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

COMPLETIONS & PRODUCTION

Advanced Geomechanics Applications for Operational Efficiency

The oil and gas downturn has impacted initiatives from exploration to drilling to stimulation operations. Breakthrough technology deployment has a crucial role to play in this downturn, as accuracy, cost efficiency, and safety dictate the success of today's operations more than ever. Cost efficiency through operational excellence doesn't necessarily mean an abrupt reduction in expenses, but requires predictive models to reduce risk and increase accuracy.

Recent advances in computational geomechanics offer predictive models for achieving operational excellence. This presentation will focus on four geomechanics technology areas:

- Forward modeling: Modeling evolution of geological structures
- Reservoir-geomechanics coupling: Modeling depletion/injection induced changes in the reservoir
- Wellbore modeling: Modeling all stages of wellbore processes; from excavation to stimulation
- Hydraulic fracturing: Modeling massive hydraulic fracture treatments

The integration and application of these technology areas to improve completion and production practices will be demonstrated with examples.

UNO MUTLU



Uno Mutlu is COO for Rockfield Americas, overseeing operations in the Americas. Previously, Mutlu managed geomechanics R&D at Weatherford. Before joining Weatherford, he was a Research Specialist within Structural Dynamics & Geomechanics at ExxonMobil. Upon completion of his academic studies, Mutlu held a research position at Stanford Geology & Geomech group. He has approximately 50 publications and patent applications in fracture prediction, wellbore strengthening, rock strength characterization, alternative fracturing techniques, stress inversion, hydraulic fracturing, fluid diversion, and stress anisotropy. Mutlu obtained a BS in civil engineering from METU, an MS in construction engineering and PhD in civil engineering from Purdue.

EVENT INFO

WHEN

Wednesday
Feb 28, 2018
11:30am – 1:30pm

SPEAKER

Uno Mutlu
*Chief Operating Officer,
Rockfield Americas*

LOCATION

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

CONTACT

Reza Safari
346-804-8916
reza.safari@weatherford.com

REGISTER ONLINE

GENERAL MEETING

Proppant Transport Research Council – How Fracing Fluids Work

In response to a demand for an independent research group to study completion theories within the hydraulic fracturing industry, PropTester organized a Proppant Transport Research Council in 2017. This dynamic group of hydraulic fracturing experts from Operators, Service Companies and Proppant and Chemical providers, is dedicated to identifying projects and conducting research to successfully test proppant transport behavior for various completion methods utilizing PropTester's facility and the new Proppant Transport Laboratory.

Last year, the one-year project consisted of over 45 Proppant Transport Tests on 15 different types of proppants (in water) on a single test design. This project studied how proppant distributes in a complex network at higher rates and low viscosity.

The key objectives for the upcoming 2018 study for the Proppant Transport Research Council will be presented. The vision for this project will focus on how proppants behave at low shear in single runs for various viscosified fluids and limited proppants.

MICHELLE STRIBLING



Michelle has spent her entire career in the energy industry. Raised in Midland, Texas, she worked at the Permian Basin Petroleum Museum ultimately serving as the Director of Marketing. Michelle was then hired by Cadre Proppants (now part of US Silica) and relocated to their headquarters in Houston, TX. While at Cadre, Michelle was an integral part of the marketing and sales team that launched a new proppant company working with many of the largest service companies in Houston. Following this, she worked in Business Development for GoFrac, LLC to establish a hydraulic fracturing presence in the Eagleford Shale region, Permian Basin and the Haynesville Shale region. Michelle holds a Bachelor of Business Administration in Marketing from the University of Texas of the Permian Basin.

EVENT INFO

WHEN

Thursday
Feb 8, 2018
11:30am – 1:00pm

SPEAKER

Michelle Stribling
*Manager of
Sales and Marketing,
PropTester, Inc., Houston*

LOCATION

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

CONTACT

Barry Faulkner
281-627-8792
barryf1944@gmail.com

REGISTER ONLINE

NORTHSIDE

Heikkinen Energy Advisors 2018 Energy Market Outlook

Our outlook focuses on the best places to invest and the interplay between upstream, oilfield services, and midstream in 2018. We believe 2018 is set up to be the best energy investing market in the last five years. We believe the

current low valuations, low energy sector weightings in the overall market indices, improving earnings and cash flows, and more stable commodity prices set up for energy outperformance.

DAVID HEIKKINEN



David Heikkinen has served as CEO of Heikkinen Energy Advisors and Heikkinen Energy Securities LLC, since 2012. He served as Global Head of E&P Research at Tudor, Pickering, Holt & Co and led the E&P Research team at Capital One Southcoast. Heikkinen holds a BS in mechanical engineering from the Missouri University of Science and Technology (Rolla) and an MBA from Tulane University.

WATER AND WASTE MANAGEMENT

2018 Texas Water Recycling Outlook

The discussion will cover the following topics:

- The state of the water recycling industry
- Trends affecting water management in the energy sector
- Legislative/regulatory issues – state and federal
- Recommendations to insulate the energy sector from water supply and disposal constraints
- Development of Frac Water Quality Standards

BRENT HALLDORSON



Brent Halldorson is Acting Chairman of the Texas Water Recycling Association (www.txwra.org). The TWRA is the non-profit voice of the water recycling industry in Texas, providing focused outreach to legislators, regulators, the public, media, and other stakeholders. They help find solutions to Texas' most challenging water issues across all industries. Halldorson is also Chief Technology Officer for Fountain Quail

Energy Services. He firmly believes that America can achieve energy independence while simultaneously managing water responsibly. One of his chief ambitions is to help bridge the divide between pro-energy and anti-energy interest groups by highlighting cases of responsible and sustainable energy development.

EVENT INFO

WHEN

Tues, Feb 13, 2018, 11:30am – 1:00pm

SPEAKER

David Heikkinen

CEO, Heikkinen Energy Advisors

LOCATION

Southwestern Energy Company
10000 Energy Dr, Spring, TX 77389

CONTACTS

Jon Spencer – 281-291-7769

jon.spencer@tracerco.com

Matt Boothe – 281-731-3140

matt_boothe@swn.com

[REGISTER ONLINE](#)

EVENT INFO

WHEN

Tues, Feb 20, 2018, 11:30am – 1:00pm

SPEAKER

Brent Halldorson

Chief Technology Officer,
Fountain Quail Energy Services

LOCATION

Marathon Oil Tower &
Conference Center
555 San Felipe St, Houston, TX 77056

CONTACT

Reshmy Mohanan – 713-309-5238

reshmy.mohanan@griffindewatering.com

[REGISTER ONLINE](#)

PERMIAN BASIN

Creating Value in the Permian Basin

Hunt Oil Company is a privately held exploration and production company headquartered in Dallas with operations in North America, South America, Europe, and the Middle East. Hunt Oil has been active in the Permian Basin for over 50 years, and is currently running a multi-rig drilling program across

multiple counties in the Midland Basin. Our presenter will describe Hunt Oil's modern development of its Permian Basin assets, touching upon operational learnings and developments, historical and recent acquisitions and divestitures, and its strategic DrillCo partnership with TPG Sixth Street Partners.

MATT PARSONS



Matt Parsons has 10+ years of professional oil and gas experience in a variety of engineering and project management roles. He is Senior Staff Reservoir Engineer and Subsurface Team Lead for Hunt Oil's West Texas Business Unit, where he leads field development projects in the Permian Basin. Parsons is a licensed Professional Engineer in Texas. He holds an MBA from the University of Texas at Austin, a master's degree in petroleum engineering from Texas A&M University, and a bachelor's degree in mechanical engineering from the University of Missouri-Columbia.

EVENT INFO

WHEN

Tuesday
Feb 20, 2018
11:30am – 1:00pm

SPEAKER

Matt Parsons
*Sr. Staff Reservoir Engineer
and Subsurface Team Lead,
Hunt Oil*

LOCATION

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

CONTACT

Aaron Burton
[waaronburton@
uogtraining.com](mailto:waaronburton@uogtraining.com)

REGISTER ONLINE



2018 Permian Basin Symposium

Thursday, April 12, 2018

Norris Conference Centers – Houston CityCentre

Networking event to follow

SAVE THE DATE

This year's symposium will present an objective view of the current state of the Permian Basin, covering topics including applications and successes and challenges faced in completions,

production optimization, proppant transportation, and more. It will conclude with a panel discussion. Large operators who are highly active in the Permian will be presenting.

For sponsorship opportunities, please contact Amy Timmons:
atimmons1114@gmail.com

DRILLING**API Sub-Committee
10 Well Cements Document
Status and Roadmap**

This presentation will provide an overview of current and future planned API Subcommittee 10 Recommended Practices and Standards covering well cementing. The scope of each existing document will be briefly discussed as part of this overview of SC-10 documentation.

This presentation will also provide a comprehensive overview of the existing AP SC-10 Work Groups and

Task Groups, their charges, and the status work ongoing with each including the status of document development.

The presentation will conclude with a question-and-answer session. Also, feedback will be solicited from the audience on any potential gaps within the API Subcommittee's document roadmap.

ERICK CUNNINGHAM

Erick Cunningham is the Cementing Manager for BP's central engineering Cementing Team within the Global Wells Organization. He has over 29 years in the oil and gas industry, having held positions at the Amoco Production Company Research Center, Schlumberger Well Services, and BP America. Cunningham's career has covered international locations including Gulf of Mexico, Western Siberia, Pakistan, Indonesia, and

Europe. His experience includes onshore, offshore, and deepwater cementing operations. Cunningham is Chairman of API Subcommittee 10 Well Cements. He holds an MBA and a BS degree in geology from Oklahoma State University.

EVENT INFO**WHEN**

Thursday
Feb 15, 2018
11:30am – 1:00pm

SPEAKER

Erick Cunningham
*Cementing Manager,
BP*

LOCATION

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

CONTACT

713-806-2631
fieldwick2@gmail.com

REGISTER ONLINE

WESTSIDE

Mitigating Respirable Crystalline Silica From Proppants with No Engineering Footprint

With an average of over 1 million pounds of silica sand used in horizontal well completions, crystalline silica is a major component of hydraulic fracturing. Multiple proppant transfer points can generate high concentrations of airborne dust, from offloading trucks to being pumped down hole. Engineering controls can be used to mitigate personal exposure.

In June 2016, the Occupational Safety and Health Administration reduced the Permissible Exposure Limit (PEL) by half and created an Action Level (AL) for respirable crystalline silica (RCS) that will require engineering controls to help mitigate employee exposure. In

June 2018, the new RCS PEL of 0.05 mg/m³ averaged over an eight-hour period will apply to hydraulic fracturing and most other industries, and engineering control obligations will commence in June 2021 for hydraulic fracturing operations. A study was conducted at multiple hydraulic fracturing sites to determine if RCS concentrations could be reduced below OSHA's new PEL using engineering controls that do not have an onsite footprint, namely chemically pre-treated sand. The results, to be presented in this presentation, showed significant reductions in RCS in both personal and area sampling.

JOHN JACKSON



John Jackson is the Application Technology Manager for Unimin Energy in The Woodlands. Jackson has spent years in proppant research and development for the hydraulic fracturing industry. He works on a team that is developing engineering methods to control respirable crystalline silica within the oil and gas and glass industries. Jackson serves as the Co-Chair of the American Petroleum Institute 19 C group, which oversees the practices for measurement of proppants used in hydraulic fracturing. He previously served on the Board of Directors for the SPE Gulf Coast Section. He holds a BS degree in chemistry from Sam Houston State University.

EVENT INFO

WHEN

Wednesday
Feb 21, 2018
11:30am – 1:00pm

SPEAKER

John Jackson
Application Technology Manager
Unimin Energy

LOCATION

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

CONTACT

Bharath Rajappa
832-486-3122
bharath.rajappa@conocophillips.com

REGISTER ONLINE

PETRO-TECH

Technology is Driving an Unconventional Renaissance

The oil price crash in late 2014 has fundamentally changed the industry. Our cash-hungry shale development programs have been continuing even after the prices halved. How has the industry been keeping the machine turning? We will take a look at how completions technology has impacted typecurves and single well economics. Is this industry willfully destroying capital or is there enough improvement from completions

technology to justify continued activity in a low price environment? This presentation will seek to answer these questions by looking at the available data in a novel software package designed for the basin-wide projects of a modern reservoir engineer. Can we go from raw well production data to single well economics and predict the impact of increasing proppant loading? Let's find out.

MARK BAHORICH



Mark Bahorich is a reservoir engineer who has built his career in parallel to the modern shale boom. He has consistently used data and computational power to unlock value and optimize investment decisions. He has managed reserves and led A&D valuations in multibillion-dollar upstream companies. He has worked in every shale basin with Plains Exploration and then with Atinum Energy Investments and Castleton

Commodities. He is a lifelong entrepreneur and recently helped raise \$ 200 million for a Permian Basin land team and launched a software company currently selling the only typecurve package that normalizes for completions technology. Bahorich holds a bachelor of science in chemical engineering from Rice University.

EVENT INFO

WHEN

Tuesday
Mar 13, 2018
11:30am – 1:00pm

SPEAKER

Mark Bahorich
*Founder,
Q.Engineering*

LOCATION

SPEI Training Center
1201 Louisiana St
Houston, TX 77002

CONTACT

Cheryl Collarini
832-251-0553

ccollarini@collarini.com

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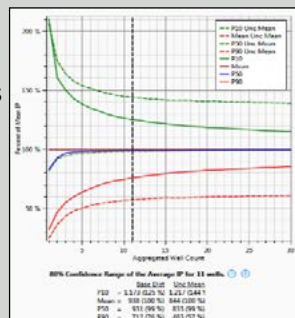
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MEMBERS IN TRANSITION (MiT)

SPE Members in Transition Initiative: 25th Seminar Series

The SPE Members in Transition Seminar Series features topics of interest to SPE members who are transitioning between jobs during the current industry downturn or who are looking for new opportunities. The agenda for the 25th seminar will include “Technology Collaboration Center of Houston,” “Life as a Consultant,” “Insights for Building Transformational Leaders,” and a discussion of resources for SPE members.

PROGRAM 1

Technology Collaboration Center of Houston

The Technology Collaboration Center is a partnership between the NASA Johnson Space Center, industry, and universities. It was formed to help solve difficult technology problems by encouraging innovation and collaboration, utilizing diverse expertise from industry, academia and government, across technology sectors. Each year, the TCC holds workshops focusing on a range of technologies, with the potential for cross-sector partnerships.



BOB PROCHNOW

Bob Prochnow is the Executive Director of the Technology Collaboration Center and previously served as the Director of the Texas Emerging Technology Fund’s

Gulf Coast Regional Center of Innovation and Commercialization. He has served as an executive in energy and IT technology companies from startups to Fortune 500. In 2001, he was recognized by Computerworld as a 2001 Premier 100 IT Leader.

PROGRAM 2

Life as a Consultant

There are pros and cons to consulting work. It is not for everyone. A consultant needs a certain mindset and to be client-oriented. More money comes with more work, not just because of the changing of a corporate title. Consulting provides flexibility between money and time, which is not the case with a full-time job.



VITALY MEYER

Vitaly Meyer has experience in field development and appraisal/exploration with skills in reservoir engineering, risk analysis, reservoir characterization, numerical simulation modeling, pressure transient analysis, nodal analysis, and well

optimizations. He has worked for Yukos EP, Marathon and Maersk, in conventional/unconventional, onshore/offshore, clastic and carbonate reservoirs. His specialties include reservoir modeling, risk analysis, rate/pressure transient analysis, reserves, economic evaluation, and production enhancement.

PROGRAM 3

Insights for Building Transformational Leaders

Dr. Paul Looney's specialties include effective communication, facilitating behavior change, resolving conflict, emotional intelligence, managing stress, creating resilience, leading high-performing teams, and increasing well-being for individuals and teams. Combining discoveries in neuroscience with time-tested tools for effective leadership, Looney helps leaders grow in their capacity to lead teams marked by positive energy, creativity, innovation, collaboration, productivity, and resilience. Communicate, share knowledge and be an effective teammate or manager of them.



DR. PAUL LOONEY

Paul Looney is a respected clinician/healer and highly valued teacher/facilitator. His career has focused on helping people develop effective and rewarding interpersonal relationships, as part of Hidden Manna Ministries, which he founded in 1991. Since 2007, Looney has served as Teaching Pastor for the

Woodlands Church. His books cover topics such as communication during interpersonal conflict and personal transformation.

EVENT INFO

WHEN

Friday, Feb 16, 2018
10:00am – 3:00pm

SPEAKERS

Bob Prochnow

*Executive Director, Technology
Collaboration Center of Houston*

Vitaly Meyer

*Director of Product
Development, PetroCubic*

Dr. Paul Looney

President, White Stone Psychiatry

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

PRICE

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

Non-Members: \$50

Students/MIT/Retired: \$15

Registration Cap: 70

REGISTER ONLINE

MEMBERS IN TRANSITION (MIT)

SPE-GCS Upstream Oil & Gas Professionals Hiring Event

The Members in Transition Committee invites you to the third edition of the Upstream Oil & Gas Professionals Hiring Event. Following the success of the inaugural event in March 2017, we continue to provide a platform connecting experienced job seekers with upstream oil and gas companies to fill open positions.

JOB SEEKERS:

Around 40 companies are expected at the event! Meet with employers hiring for professional upstream positions. Stay tuned for registration details and upcoming guidance sessions to help you maximize your success at the event.

EMPLOYERS:

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

COLLABORATING ORGANIZATIONS:

Professional organizations with a common interest in supporting their members during career transitions can provide value to their members by participating in the Hiring Event.



EVENT INFO

WHEN

Tuesday
Mar 27, 2018
10:00am – 3:00pm

LOCATION

Trini Mendenhall
Community Center
1414 Wirt Rd
Houston, TX 77055

CONTACT

Bob Merrill – 713-409-7340
Ramesh Anand – 281-403-6070

spgcs.mit.hiringevent@gmail.com

PRICE

Employers

(pricing based on number of employees)

Less than 50	\$100
51 – 1,000	\$500
More than 1,000	\$1,000

Sponsors

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

(need not be an employer to sponsor)

Job Seekers

Registration Fee \$5
(Registration opens Feb 23)

REGISTER ONLINE

CONTINUING EDUCATION

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

Refracturing operations attempt to bypass near-wellbore damage, re-establish good connectivity with the reservoir, and tap portions of the reservoir with higher pore pressure. Refracturing operations are also performed after a period of production that can alter the stresses

in a reservoir due to depletion; the restimulation can allow the new fracture to reorient along a different azimuth. A successful refracturing operation restores well productivity to near original or even higher rates of production and extends the productive life of a well.

PIYUSH PANKAJ



Piyush Pankaj is the Principal Reservoir Engineer/Team Lead for Schlumberger, with more than 11 years of oilfield experience. He has been involved in numerous studies in the fields of unconventional reservoir simulation and modeling of hydraulic fracturing across various basins in North America. In his past roles as product champion, he successfully launched and led commercial software tools such as Mangrove and Kinetix Shale. He has been responsible for defining new workflow solutions and technology development for unconventional reservoirs. He holds a bachelor's degree in petroleum engineering from the Indian School of Mines (Indian Institute of Technology), Dhanbad, India.

EVENT INFO

WHEN

Fri, Feb 2, 2018, 9:00am – 12:30pm

SPEAKER

Piyush Pankaj

*Principal Reservoir Engineer
Schlumberger*

LOCATION

Newpark Drilling Fluids
21920 Merchants Way
Katy, TX 77449

CONTACT

Mike Redburn – 281-754-8629

mredburn@newpark.com

PRICE

Members: \$100

Non-Members: \$125

Students/MIT/Retired: \$50

REGISTER ONLINE

CONTINUING EDUCATION

Accelerated Learning Tutorial: Software Introduction to Directional Training

- Get the basics of directional drilling theoretical background.
- Quick start of WellScan® directional module.
- Design a BHA.
- Choose the bit.
- Validate DD proposal. (In this module, all training examples will be provided by DrillScan.)
- Get the basics of directional drilling theoretical background.
- Quick start of WellScan®.
- Post-analyze a run.
- Optimize BHA and bit design to increase performance. (In this module, attendees will bring their own case.)

STÉPHANE MENAND



Stéphane Menand is the President of DrillScan and is based in Houston. Previously, he held a research position at Mines ParisTech university. He has 18 years of experience in the oil and gas industry, mainly as an R&D project manager in drilling engineering, more specifically in directional drilling, drillstring mechanics (torque, drag and buckling), drilling dynamics, and drill-bit performance. Menand has authored SPE and other technical papers and patents. He earned a PhD in drilling engineering from Mines ParisTech. Menand serves on the *Journal of Petroleum Technology* Editorial Committee and as Associate Editor of *SPE Drilling and Completions Journal*.

EVENT INFO

WHEN

Thursday
Feb 8, 2018
8:30am – 4:30pm

SPEAKER

Stéphane Menand
*President
DrillScan*

LOCATION

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

CONTACTS

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

PRICE

Members: \$350
Non-Members: \$375
Students/MIT/Retired: \$50

REGISTER ONLINE

CONTINUING EDUCATION

Accelerated Learning Tutorial: Applied Understanding of PVT

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

- Understand the field separation process and sampling procedures.

- Identify fluid types and their phase behavior.
- Select methods of sampling at the well site location.
- Learn how to read PVT lab reports for DLE, CCE, CVD.
- Construct black oil PVT tables for volumetrics and simulation models.
- Explain why and how the Equation of State was developed.

RONALD LANG

Ronald Lang has over 40 years of experience in all aspects of reservoir engineering, including classical and simulation applications. He is involved as a consultant in domestic and international studies requiring application of PVT Equation of State principles. He participates in association with geosciences teams in field development strategies, including primary, secondary, and enhanced oil recovery (EOR) projects. Lang received a BS degree in petroleum engineering in 1974 from Texas Tech University. His career began with Amoco Production Company in Houston and transitioned to consulting firms engaged in exploration and development, acquisition and divestment transaction advisory, and petroleum engineering technical evaluations. He is a licensed Professional Engineer in Texas.

EVENT INFO

WHEN

Friday
Feb 16, 2018
8:30am – 4:30pm

SPEAKER

Ronald L. Lang, P.E.

LOCATION

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

CONTACT

Mike Redburn
281-754-8629

mredburn@newpark.com

PRICE

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

REGISTER ONLINE

YOUNG PROFESSIONALS

Volunteering at The Beacon

Please join SPE-GCS Young Professionals in their support of The Beacon, a nonprofit organization helping the poor and homeless populations of the Houston area. Since opening in 2007, the Beacon has grown from serving 80 clients per day to serving 600-800 clients daily in four core programs: The Beacon Day Center, Cathedral Clinic at The Beacon, Brigid's Hope at The Beacon,

and Cathedral Justice Project at The Beacon. These four programs come together under one roof to provide meals, showers, laundry service, case management, medical and psychiatric care, pro bono legal services, and pastoral care.

Volunteers will assist in both the kitchen and the laundry with daily services, including serving lunch and food prep.

EVENT INFO

WHEN

Sunday
Feb 4, 2018
10:30 – 2:00pm

LOCATION

1212 Prairie St
Houston, TX 77002

CONTACT

Mollie Garvey
garvey906@gmail.com

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YOUNG PROFESSIONALS

Volunteering at the Houston Food Bank

Your time is a gift to hungry kids, seniors, and others who may not have enough to eat. Volunteers produce the equivalent of a meal a minute while helping the Houston Food Bank sort, process and pack food. And it's fun!

This event is a chance to make a difference while getting to know more people from our industry. We will be helping out at the warehouse. Volunteer projects vary based on need and may include inspecting/sorting

food, repacking dry food into family-sized bags, and stocking/cleaning the emergency food pantry.

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



EVENT INFO

WHEN

Sat, Feb 17, 2018
10:30am – 2:00pm

LOCATION

Houston Food Bank
535 Portwall St,
Houston, TX 77029

CONTACT

Mollie Garvey
garvey906@gmail.com

[REGISTER ONLINE](#)

YOUNG PROFESSIONALS

Student Tour of PropTester Inc.

Join us for an interactive tour of PropTester® Inc. laboratory, where some of the industry's cutting-edge technologies are made and validated. The tour will include how proppant is being tested through methods such as conductivity testing, fluid testing, friction flow loop system, and cementing services, along with many other services. Students will also learn about PropTester's new Proppant Transport Research Council, a group of established leaders in hydraulic fracturing from operating companies, service companies, and proppant and chemical manufacturers. The goal of the Council is to identify one-year projects and conduct research to

successfully test proppant transport and behavior for various completion methods utilizing PropTester's facility and newly Proppant Transport Laboratory. The tour will include a visit to the new Proppant Transport Laboratory.

Agenda: Lab tour followed by a networking Q&A lunch kindly provided by PropTester Inc.

Students only (with valid student ID).



EVENT INFO

WHEN

Fri, Feb 23, 2018
10:00am – 12:30pm

LOCATION

PropTester® Inc.
17222 Huffmeister Rd
Cypress, TX 77429

CONTACT

Shahrazed Metouri
shahrazed.Metouri@aramcoservices.com

[REGISTER ONLINE](#)

WHERE ARE THEY NOW?

Past Scholarship Winner: Alan Quintero

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 Alan Quintero's story:

The SPE-GCS scholarship allowed me to pursue a mechanical engineering degree and helped start my career in the oil and gas industry.

I am the Chief Technology Officer of Rowan Companies, where I craft and execute the digital transformation strategy for the company. Prior to this challenge, I was a Partner at Trenegy, a consulting firm based out of Houston, where I led the expansion of Trenegy's client services in operational excellence.

I served as Senior Vice President, Operations West of Transocean Ltd. In this role, I was responsible for the company's operations in the Americas and Europe, including the US, Canada, Brazil, the United Kingdom, and Norway. Prior to that position, I served as Senior Vice President of Operations at Transocean's Geneva headquarters.

I joined Transocean in December 2010 as Vice President, Quality, Health, Safety and Environment after 17 years with Atwood Oceanics, where I worked in various roles, including Senior Vice President of Operations. I have also worked in the E&P, engineering and service sides of the oil industry, including two years as General Manager of Underwater Tools Inc., and six years with Exxon Company USA in various land drilling and management positions.

My board experience includes the Board of Directors of Southwest Electronic Energy, the Executive Committee of the International Association of Drilling Contractors, Chairman of the Transocean subsidiary Transocean Offshore Deepwater Drilling, and the boards of the Cypress-Fairbanks Independent School District and the Lone Star College System.

The SPE-GCS scholarship allowed me to pursue a mechanical engineering degree and helped start my career in the oil and gas industry.

My advice to you as students is that while your college years are a short period of your life that should be enjoyed to the fullest, you must keep your priorities in place. The first goal of your college years should be to provide you the tools necessary to pursue a meaningful



CAREER OVERVIEW

Chief Technology Officer, Rowan Companies

- Cypress Fair High School – 1981
- Texas A&M University, BS in mechanical engineering
- Columbia, Wharton, Harvard University Executive Education programs

career. Fun comes second. To achieve this, I became very good at time management during my college years. I would always plan on Thursdays being free by allowing sufficient time for my studies during the remainder of the week. Then I would meet my classmates for country and western dancing on Thursday nights.

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 Feb 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 four 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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INNOVATE

IES

 INNOVATION &
ENTREPRENEURSHIP
SYMPOSIUM

To capitalize on the ingenuity unlocked by this downturn, SPE GCS INNOVATE committee is organizing a two-day Innovation and Entrepreneurship Symposium on 21-22 March 2018 at Marathon Oil Tower. This event is poised to nucleate oil and gas innovation and

the entrepreneurship community in Houston and will cater to the oil and gas investors, entrepreneurs, and innovators within big corporations. Details, startups application for participation in the shark-tank event, and registration can be found at www.spegcs.org/IES/.

CONFIRMED SPEAKERS

Omar Abou-Sayed
CEO, Advantek

Chris Culbert
Chief Technologist, Johnson Space Center

Ryan Gurney*
MP, CottonWood Venture Partners

Sean Ebert
Partner, Altira

Hossam Elbadawy*
Founder and CEO, O&G Technologies

Dr. Stephen R. Igo
Co-Founder, Cormedics

Hon. Bob Inglis
Former US Representative

Randy Johnson
Director, Innovation, Marathon Oil

Gaurav Khandelwal
CEO, ChaiOne

Ajay Kshatriya
CEO, Biota Technologies

Charlie Leykum
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Greg Laake
MP, Catapult Energy Services Group

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Sr. Director, Baker Institute of Public Policy

Mike Mueller
Director, Houston Technology Center

Robert Nipper Founder, NCS

Gary Petersen
Founder, EnCap Investments

Oliver Phillips* VP, Limerock Partners

Chris Reinsvold
Founder, Reinsvold and Associates

Chris Robart President, Ambyint

Christopher Ross
Exec. Professor, University of Houston

Grace Rodriguez CXO, Station Houston

Richard Spears
VP, Spears and Associates

EVENT INFO

WHEN

Wednesday & Thursday
Mar 21 & 22, 2018

LOCATION

Chevron Building
Auditorium (1st Floor)
1500 Louisiana St,
Houston, TX 77002

PRICE

Members - Early Bird: \$350
Non-Members - Early Bird: \$450

REGISTER ONLINE

Borre Stokholm*
Inv. Manager, Statoil Technology Invest

Mathias Schlecht
VP, Baker Hughes, a GE company

Jim Sledzik* MD, Hall Labs

Richard Ward Sr. Expert - IT, McKinsey

Sponsorship opportunities are available for your company to support this event and attach your company's brand with innovation and entrepreneurship. Please contact Mikhail Alekseenko at maalekseenko@marathonoil.com.

* "Shark Tank" judges and moderator

SPONSORS



AGENDA

DAY 1

March 21, 2018, Wednesday

- 7:30am–8:30am Registration & Breakfast
- 8:30am–9:00am Keynote: *Innovation in O&G*
- 9:00am–10:15am Panel: *External Challenges*
- 10:15am–10:45am Break
- 10:45am–12:00pm Panel: *Partnership and Collaboration*
- 12:00pm–1:00pm Lunch
- 1:00pm–2:30pm Roundtable: *Digital Map and Automation*
- 1:00pm–2:30pm Workshop: *Design Thinking*
- 2:30pm–3:00pm Break
- 3:00pm–4:30pm Workshop: *Innovative Technologies*
- 3:00pm–4:30pm Roundtable: *Startup Roadmap & Resources*
- 4:30pm–6:30pm Reception

DAY 2

March 22, 2018, Thursday

- 7:30am–8:30am Registration & Breakfast
- 8:30am–9:00am Keynote: *Entrepreneurship in O&G*
- 9:00am–10:15am Panel: *Innovation Outside O&G*
- 10:15am–10:45am Break
- 10:45am–12:00pm Panel: *Exit Strategies & Sources of Funding*
- 12:00pm–1:00pm Lunch
- 1:00pm–2:30pm Shark Tank
- 2:30pm–3:00pm Break
- 3:00pm–4:30pm Shark Tank
- 4:30pm–6:30pm Closing Remarks

INNOVATE

Attention Oil and Gas Startups: IES Shark Tank Application is Now Open!

Oil and gas startups are invited to apply for the Shark Tank-style event, where they can present their business ideas to oil and gas investors and initiate funding discussions. The event will be 1:00-4:30 pm March 22 as part of the Innovation & Entrepreneurship Symposium.

IMPORTANT INFORMATION & DATES:

To participate, startups must be seeking seed or series A funding (\$500,000-\$10 million).

Feb 15, 2018 Application deadline

Feb 28, 2018 IES committee will contact selected companies.

Mar 10, 2018 Selected companies will submit their final pitch deck to IES.

To view competition rules and to apply, visit

www.spegcs.org/IES/.

INNOVATE

The Myth of Overnight Success

Entrepreneurs and innovators shape the world – and they do it quickly. Or do they? Join SPE-GCS Innovate Committee for an interactive panel discussion where accomplished energy entrepreneurs will share their stories, debunk the myths around success, and give advice to aspiring entrepreneurs.

AGENDA:

5:15–6:00pm	Registration and Networking	<i>Panelists</i>
6:00–6:15pm	Opening Remarks & Panelists Introductions	<ul style="list-style-type: none"> • <i>Tim Duncan, President & CEO, Talos Energy</i> • <i>Chris Atherton, President, EnergyNet</i> • <i>Omar Abou-Sayed, CEO, Advantek</i>
6:15–7:15pm	Panel discussion	• <i>Mikhail Alekseenko, Chair, Innovate</i>
7:15–8:00pm	Q&A and Networking	<i>(moderator)</i>

OMAR ABOU-SAYED



Omar Abou-Sayed's experience spans the global energy industry, including upstream oil and gas, chemicals, oilfield services, and renewables. He has worked in a variety of engineering, business, and organization-wide leadership roles within major oil companies, management consulting firms, private equity funds, and venture-backed startups. He currently serves

as CEO of Advantek Waste Management Services. He also holds the role of President at Advantek International, a global oilfield consulting firm focused on hydraulic fracturing, geomechanics, and data analytics and artificial intelligence applications within oil and gas. He holds a bachelor's of science in mechanical engineering from the University of Texas at Austin and an MBA from Harvard Business School.

TIMOTHY DUNCAN



Tim Duncan is the President and CEO and a founder of Talos Energy LLC, a private company formed in March 2012 and initially funded with up to \$600 million of private equity commitments from Apollo Global Management, LLC and

Riverstone Holdings LLC. Duncan has a BS in petroleum engineering from Mississippi State University, where he was honored in 2012 as a Distinguished Fellow of the College of Engineering. Duncan also earned an MBA from the Bauer Executive Program at the University of Houston. He is an active member of SPE, IPAA, NOIA, and YPO.

CHRIS ATHERTON



Chris Atherton is the President of EnergyNet Inc. EnergyNet is an oil and gas asset acquisition and divestiture firm specializing in auction sales, sealed bid transactions, and government lease sales. Atherton has 16 years of experience in the energy

industry. He graduated from Texas State University with a business management and marketing degree. He served as the Chairman for the SPE-Gulf Coast Section Business Development Study Group for three years. He is also an active member of IPAA, Texas Energy Alliance, ADAM Houston, ADAM Permian, and Houston Producers Forum.

EVENT INFO

WHEN

Thursday, Feb 1, 2018, 5:15 – 8:00pm

SPEAKERS

Timothy S. Duncan
President and CEO,
Talos Energy LLC

Chris Atherton
President, EnergyNet Inc.

Omar Abou-Sayed
CEO, Advantek Waste
Management Solutions

MODERATOR

Mikhail Alekseenko
Chairman, SPE-GCS
Innovate Committee

LOCATION

Chevron Building
Auditorium (1st Floor)
1500 Louisiana St, Houston, TX 77002

[REGISTER ONLINE](#)



Houston Community College Reappoints Aileen Lu as President

Faculty Advisor Collins Nwaneri reappointed Aileen Lu as President of the SPE HCC Chapter due to her outstanding performance. HCC has reached new heights after Ms. Lu got on board. Highlights include hosting the Aramco event, attending ATCE and Emerging Engineers Symposium, receiving awards, and holding faculty and board meetings. Plans are in the works for field trips, Engineering Day at the Alief Campus, and more. Stay tuned.



December Event Recap

Even though there were only two weeks in December before classes let out for Christmas Break, Texas A&M SPE still organized several events for its members. On the first Saturday of the month, SPE members spent the afternoon picking up trash from our street we adopted through the Adopt-A-Street program. The same day, students also volunteered at the SPARK Conference, hosted by the Texas A&M Student Engineers Council. During the conference, middle and high school students competed in events organized by engineering organizations including Texas A&M SPE, Society of Women Engineers, and Tau Beta Pi Honor Society.

Our last event of the semester was the annual SPE Christmas Party and toy drive benefiting Toys for Tots. The event was generously sponsored by Chevron and was made extra special this year by an unexpected snow flurry that came to College Station.

Finally, Texas A&M Society of Petroleum Engineers would like to extend congratulations to all students who graduated this December from the Harold Vance Department of Petroleum Engineering!

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TEXAS A&M UNIVERSITY

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UNIVERSITY OF HOUSTON

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GEOMECHANICS

Geomechanics Congress: Recent Advancement in Petroleum Geomechanics

The Geomechanics Congress is an effort by SPE-GCS to impart technical knowledge to members. The main objective is to provide attendees with an opportunity to learn and discuss, with highly recognized speakers, the latest petroleum geomechanics topics and technology developments. The four disciplines that will be discussed are:

- 1) Exploration geomechanics
- 2) Drilling geomechanics
- 3) Completion geomechanics
- 4) Production geomechanics

All levels of sponsorship are given in following table. If you would like to sponsor the SPE-GCS Geomechanics Congress, please contact Reza Safari at reza.safari@weatherford.com. SPE-GCS is a non-profit organization 501c3 (tax exempt).

The benefits of being an SPE-GCS Geomechanics Congress sponsor are:

- Raising your brand awareness during the meeting
- Promoting your brand to the oil and gas sector
- Networking with industry leaders
- Positioning your brand as a key industry player

EVENT INFO

WHEN

Wednesday, Apr 18, 2018
7:30am – 4:30pm

LOCATION

Southwestern Energy
1000 Energy Dr, Spring, TX 77389

CONTACT

Reza Safari – 346-804-8916
reza.safari@weatherford.com

PRICE

Members: \$150
Non-Members: \$175
Students/MIT/Retired: \$75

REGISTER ONLINE

BENEFITS TO BEING A SPONSOR	PLATINUM – \$5,000	GOLD – \$3,000	SILVER – \$1,500	BRONZE – \$1,000
Sponsor recognition at symposium and in all media-related events (i.e. LinkedIn, Twitter, Instagram, etc.)	Yes	Yes	Yes	Yes
Logo recognition on SPE-GCS Geomechanics Congress website	Yes	Yes	Yes	Yes
Sponsor logo recognition on programs brochure	Yes	Yes	Yes	Yes
Sponsor banner display	Yes	Yes	Yes	—
Number of free passes for sponsor delegate(s)	3	2	1	—
Introduction to symposium speaker	Yes	Yes	—	—
Sponsor logo recognition at breakfast and lunch table	Yes	—	—	—

2018 SPE YOUNG ENGINEERS OF THE YEAR

Houston Engineers Week promotes the profession of engineering as a social and economic influence vital to the community's welfare

One of its primary objectives is to recognize and honor engineering achievement in the Houston area and advance the public's knowledge and appreciation of all fields of engineering. The Society of Petroleum Engineers Gulf Coast Section is an integral part of the Houston Engineers Week

NII NUNOO



Nii Ahele Nunoo is an Asset Manager at National Oilwell Varco. He started his oilfield career in 2012 designing and qualifying electronics on projects for high-shock, high-pressure, and high-temperature downhole

tool applications. His focus and expertise is downhole drilling tools used for closed-loop automation. He coordinates with sales, product line, and operations to achieve maximum utilization of downhole tools inventory and assets.

He earned his BS in electronic engineering from Minnesota State University. In his free time, Nii Ahele organizes science fairs for middle school students in low-income areas in Houston. He served on the SPE Young Professionals Board the last four years and as the Chair of the Emerging Engineers Conference. He also served as the Career Management and Continuing Education Chair on the SPE-GCS Board of Directors, and is the current Past Chair for the SPE-GCS Young Professionals.

Committee and is strongly represented in the Houston area by 4,000 Young Professionals out of its overall membership of 13,500. This year, SPE-GCS will be honoring two of its outstanding young engineers who have made remarkable impact through technical work, leadership, mentorship, and selfless service to the community.

The 2018 SPE Young Engineers of the Year are Nii Nunoo and Yogashri Pradhan. They'll be joining a list of previous honorees that includes Aniket Kumar (2017), Chiedozie Ekweribe (2016), Simeon Eburi (2015), and Andrea Rowe (2014).

The recipients of the award will be honored during Houston Engineers Week, Feb 18-24.

YOGASHRI PRADHAN



Yogashri Pradhan is a Senior Production Engineer for The Texas Oil and Gas Institute. She oversees production optimization studies in the Permian Basin and mentors graduate students. Previously, she was a production engineer for Devon Energy.

Yogashri is active in SPE through technical conference committee memberships, study groups, and the Young Professionals board. She participates in GCS community service initiatives and co-founded SPE Cares. She is also Leadership Chair for SPE International's Women in Energy Committee. Yogashri is an editor of The Way Ahead, SPE's Young Professionals magazine and has authored/co-authored 10 technical publications.

Yogashri holds a bachelor's in petroleum engineering from the University of Texas, where she was a member of the SPE student chapter and UT's PetroBowl team. She is pursuing her master's in petroleum engineering at Texas A&M University.

GOLF

2018 45TH Annual SPE Gulf Coast Section Golf Tournament

The annual SPE-GCS Golf Tournament is in its 45th year, and is one of the SPE Gulf Coast Section's most important fundraisers. Come out to the beautiful courses of Kingwood and Deerwood Country Clubs and enjoy a great day of golf in support of scholarships for young engineers embarking on the adventure of an oilfield career – not to mention the wonderful food provided out on the course by our fabulous oilfield cook teams!

In addition to prizes for the winners, there are flight vouchers to be raffled off, and all players receive door prizes

courtesy of our generous sponsors. So, bring your customers out for the day and treat them to a fun experience they won't forget!

We need your support more than ever!

The tournament offers a number of sponsorship levels, whether you play golf or not. It's a great way to relax with your industry colleagues while supporting a good cause. All players receive one of a range of great door prizes, and the weather in April is always perfect! Well...perhaps not exactly always, but we do our best.

EVENT INFO

WHEN

Monday,
Apr 9, 2018
10:00am – Shotgun Start

LOCATION

Kingwood
Country Club
1700 Lake Kingwood
Kingwood, Tx 77339

CONTACT

Steve Matthews
golf@spgcs.org

[REGISTER ONLINE](#)

All Proceeds from
the 45th Annual
Golf Tournament
Benefit the SPE-GCS
Scholarship Fund

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Bachelors Sponsorship..... \$ 3,000

One Deerwood or two Kingwood Gold teams, logo on course signage and promotional materials. You also have the opportunity to present the scholarship at the awards banquet.

Masters Sponsorship..... \$ 5,000

Two Deerwood or three Kingwood Gold teams, plus the same benefits as the Bachelors level

ADDITIONAL SPONSORSHIP OPTIONS

Provide a Cook Team ... \$ 200- \$500

Nobody leaves the course hungry!

Hole Sponsor \$ 500

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Long Drive Entertainers..... \$ 2,000

Your logo associated with this amazing display. These professionals literally hit the ball out of sight!

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The first place everybody goes is the place with your logo

Beverage Sponsor..... \$ 2,000

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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

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