



Gulf Coast Section

CONNECT

SPE GULF COAST SECTION NEWSLETTER

MAY
2017

ANNUAL AWARDS & SCHOLARSHIP BANQUET

ANNUAL AWARDS BANQUET COMMITTEE P. 22

ACCELERATED LEARNING TUTORIALS

CONTINUING EDUCATION & CAREER MANAGEMENT P. 19 & 20

WATER IN DEPTH

WATER AND WASTE MANAGEMENT P. 13

OIL & GAS 'SHARK TANK'!

ENTREPRENEURSHIP CELL P. 22

2017 RESERVOIR TECHNOLOGY FORUM

RESERVOIR P. 11



CHAIR'S CORNER

DEEPAK M. GALA, SHELL

2016-2017 SPE-GCS Chair

ENTREPRENEURSHIP



With companies challenged to push boundaries in a new lower-for-longer era of our industry, the pace of innovation is picking up and Houston is emerging as the Silicon Valley for oil and gas. Scientific breakthroughs, technical innovation, and faster turnaround are the key ingredients to continue making progress.

Houston has several accelerators; venture capital and private equity firms are flush with capital; and operators and service companies are warming up to the challenges of trying something novel. However, becoming a Silicon Valley-style startup community requires plenty of work. Starting a company is challenging. For lack of money and connections, and perhaps missing guidance, many great ideas never get off the ground.

SPE, with its strong industry presence and reach, takes a leading role in promoting innovation and entrepreneurship in our industry. The **Ideas Launch Pad** initiative was set up in collaboration with the Houston Technology Center in early 2016, followed by the proposal to kick off an oil- and gas-focused **Entrepreneurship Cell** committee by four dedicated SPE members/entrepreneurs (Mikhail Alekseenko, Moji Karimi, Aniket Kumar, and Nii Nunoo). The committee has generated overwhelming interest within the community.

The E- Cell committee organizes monthly after-hours events on entrepreneurship topics, including panel sessions, fireside chats with oil-and-gas startup CEOs, workshops, and networking events. With attendees ranging from investors to startup founders to potential customers, the events provide a natural forum for exchange of ideas and for fundraising. Since August, the Entrepreneurship Cell has conducted events that have garnered great interest and traction with the oil and gas entrepreneurs and investors alike. For example, the February panel session on "Raising Money For an Oil & Gas Startup" had more than 100 attendees at the evening event. The next E-Cell event is on May 31. At this pseudo *Shark Tank*- style event, startups will get feedback from industry experts on how to perfect their business model — and will potentially get investments.

Some companies have active innovation programs, such as Shell's GameChanger program. GameChanger works with startups and businesses on early-stage ideas that have the potential to impact the future of energy. It provides the companies support, expertise, and seed funding, while allowing them to maintain independence and to make their own decisions. The E-Cell committee plans to bring in speakers from GameChanger and other innovation practitioners to speak at future events.

TAKE YOUR
PASSION
AND MAKE IT
HAPPEN.

SPE-GCS Update

A separate **Scholarship Endowment Fund** has been set up within the overall Vanguard Investment account for GCS. Individual donors can benefit from company match contributions. Companies such as **Chevron, Shell, BP, ConocoPhillips, Murphy, Encana, Noble Energy, and ExxonMobil** offer matching programs for employee donations. (I personally applied for Shell's existing Easymatch program last year and felt it was a straightforward process.) If your company does not match SPE scholarship donations, ask your HR department about getting added.

It is important that you designate the gift for the SPE-GCS Scholarship Endowment Fund (and not the SPE International Foundation).

I want to stress, as always, that giving is a personal and voluntary choice, and irrespective of your choice, I am glad we are part of the SPE family.

Communications Chair Bryan Marlborough has undertaken a major overhaul of the SPE-GCS website with our partner eConverse Social Media Inc. The new site will be responsive on all devices and ensure that search functions allow for members to easily find documents and events. It will also incorporate community functionality to increase engagement, among other enhancements. We expect the new website to be running by September.

Stay engaged, stay safe,

Deepak M. Gala

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STUDY GROUP PRICING

(unless specified separately)

MEMBERS

\$40/\$55 Walk-In

NON-MEMBERS

\$55

STUDENTS/MIT/RETIRED SPE

\$15

**BOARD OF
DIRECTORS MEETING**
THURSDAY, MAY 18 | 7:30 TO 10:30 AM
HOUSTON SPE OFFICE

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SPE-GCS VOLUNTEER SPOTLIGHT

This month the SPE Gulf Coast Section is excited to feature Supriya Gupta and Shauna Noonan as Volunteers of the Month.



SUPRIYA GUPTA

Supriya saw SPE-GCS as an excellent medium for learning, development and networking, but noticed a gap in the field of analytics and big data, which she believes can transform the way we solve problems in exploration and production.

She presented her vision for a Data Analytics Study Group to the SPE-GCS board last year and was given their support and guidance to help put her plans into action. Since then, the Data Analytics Study Group has become a reality, with Supriya at the helm.

“It has been a challenging, yet rewarding experience!” she said. “I have pretty much devoted all my free time to building and growing this Study Group.”

Supriya works as a Data Scientist at Schlumberger. She has a bachelor’s degree in chemical engineering from BITS, Pilani (India) and a master’s degree in petroleum engineering from the University of Houston.

She envisions the Data Analytics Study Group as a platform to bring together the Houston E&P community and provide them an opportunity to learn about the analytics tools and techniques transforming the industry. She hopes that the group will help oil and gas professionals develop confidence in analytics and big data and expedite the adoption of this relatively new field in the industry.

“SPE has played a key role in my professional development,” she said. “This Study Group is my way of giving back to this wonderful community.”



SHAUNA NOONAN

Shauna’s journey with SPE began in college. She served as chapter Vice President at the University of Alberta while obtaining a BS in petroleum engineering. Since then, she has authored over 25 industry publications, two SPE Digital Edition series, and an SPE webinar on ESP reliability.

Shauna has served as a technical and associate editor for many years, receiving the SPE Peer Apart recognition in 2011. She has chaired SPE conferences and workshops, written the JPT Artificial Lift Technology feature for six years, received the 2012 Gulf Coast Regional Production and Operations Award, and from 2013-2015 served as the Technical Director for Production and Operations on the SPE International Board of Directors. Today, Shauna serves on international award and conference program committees.

Throughout her career of over 23 years, Shauna has worked as a rig supervisor, field engineer, completion engineer, production engineer, and artificial lift specialist. She has worked on local assets, technology development, engineering, and executive management.

Shauna is Chief of Production Engineering at Occidental Petroleum, where she directs the company’s global production engineering efforts. This includes leading a team of discipline experts and having oversight over recruitment and competency development for Oxy’s production and artificial lift engineers. She travels to Oman, Qatar, Colombia, and US locations to work with the local leadership on their production challenges and to mentor engineers on technical development and career path planning.

“SPE has added rungs to that career ladder and allowed me to climb much higher,” she said. “Along that climb and my involvement within SPE, I have met wonderful people who have become my mentors, my colleagues, and dear friends.”

THANK YOU BOTH FOR ALL THAT YOU DO FOR SPE!

THEN & NOW

COLUMN BY BUDDY WOODROOF

MAY 1947

Stanolind Oil & Gas announces that it will begin producing Synthol (gasoline made from natural gas) on a commercial scale in its Synthol plant in the Hugoton field, KS, in 1949.

Meanwhile, in Rifle, CO, the US Bureau of Mines goes on stream with its shale-oil demonstration plant in the first serious effort to evaluate the commercial possibilities of this fuel source.

East Texas crude oil - \$1.95/bbl

MAY 1977

Despite opposition from environmentalists and suburban communities, one East Coast deputy mayor is actively promoting offshore drilling in the Baltimore Canyon and Georges Bank areas, namely, New York City Deputy Mayor Osburn Elliott.

Pemex claims it may launch a major drilling play in Baja California, where officials claim the geology is favorable for "enormous crude deposits" and "vast volumes" of natural gas.

US rig count - 1,947

MAY 2007

Following last month's attack by the Ogaden National Liberation Front in which 65 Ethiopian and nine Chinese workers were killed at a Chinese oil company exploration site in eastern Ethiopia, seven Chinese workers kidnapped during the attack were released to the Red Cross in Ethiopia.

Meanwhile, Saudi Arabia's ministry of interior announces the arrest of 172 Islamic militants it said were plotting to attack the country's oil infrastructure, reportedly using suicide attacks targeting oil installations as well as military bases both inside and outside the country.

**Light sweet crude oil - \$63.88/bbl;
Natural gas - \$7.95/MMbtu;
US active rig count - 1,744**

THE REST OF THE YARN

This month we continue our look back at the rise and fall of wildcatter Glenn McCarthy, as his entrepreneurship skills kick in.

The sole job McCarthy knew was pumping gas, so he set his sights on opening his own station. For days he counted the cars passing a busy corner at Main and McGowen streets. Armed with his calculations, he began paying daily visits to the Sinclair Oil office in suburban Angleton, where he pestered the man in charge to let him open a station. In time the man, impressed with McCarthy's tenacity, agreed, but the deal was harsh: Sinclair would take almost all profits from gasoline sales, while McCarthy could keep anything he made fixing cars and selling tires and accessories.

As a gas-station manager, McCarthy was by every account a force of nature. For wash-and-grease jobs, he would drive customers to their offices in the morning and pick them up in the afternoon with a greased and washed automobile. He worked 20 hours a day, and kept the station open the other four by hiring his father. He bought huge stacks of tires at a discount, sold them for twice what he had paid for them, and sold used cars on the side. He claimed his station sold more gasoline than any other in Houston, and he may have been right. Sinclair rewarded him with a second station at Westheimer and Waugh on Houston's West Side. By early 1933, McCarthy was clearing \$1,500 a month.

Next month, McCarthy decides it's time to enter the oil business.

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

MAY QUIZ

What famous Texas oilfield's discovery well would never have been completed had it not been for the operator's wife pawning her last item of jewelry to finance the final few feet of drilling?

ANSWER TO APRIL'S QUIZ

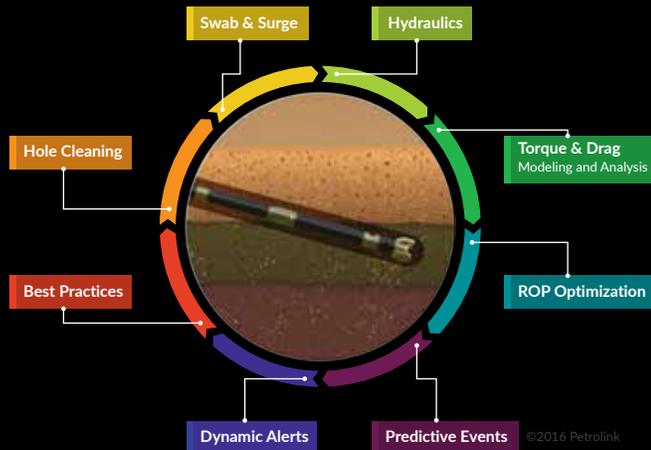
In 1947 Oklahoma celebrated its 50th year of commercial oil production.

MARCH'S WINNER
Alan Sallwasser

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WORTHWHILE CONVERSATIONS

TOO GOOD TO BE TRUE?

ANNUITIES: LIFTING THE FOG AND FINDING THE FACTS

Phillip: We hear a lot about fines paid by major insurers over misleading annuity claims...

Heidi: We've observed an evolution in financial products from insurers and brokers over 45 years. Generally, the more complex a financial product, the more chance for confusion. Regulators are highly concerned about misleading sales practices. In 2016, a major U.S. insurer paid a \$25 million fine to settle allegations that more than 70% of their annuity applications omitted facts.

Phillip: Aren't annuities presented as a conservative investment?

Ryan: We recently met with a couple nearing retirement to review their annuities which were sold as having "market upside with no downside." Indexed Annuities are not even regulated at the federal level, so policing of advertising claims is left to the 50 state insurance departments. Some of what the advertising cowboys circulate on the internet would never pass muster if scrutinized by the SEC or FINRA.

Phillip: So what is the real problem with these?

Carolyn: The real problem is that the high cost associated with the "no downside" part

of the pitch means that there is actually no meaningful upside. Our firm's professionals span multiple disciplines – attorneys, CPAs, CFA® charterholders and CFP® practitioners. We've torn these products apart, run the numbers and even served as expert witnesses in litigation. It can take hours reading through disclosure documents to understand the various provisions and costs that often greatly limit the upside return. The practical "guarantee" is a return that will be far below the market's return in the long run.

Phillip: If I'm like many people and already own one of these, what should I do next?

Harold: Linscomb & Williams can sit down for a no-cost, no-obligation review of your existing financial plan to see how any annuity holdings fit. No two situations will be alike. We have an experienced team of professionals to evaluate your situation and offer fiduciary guidance, without the conflict of selling financial products. We are ready to talk, and can meet you at our Galleria or Woodlands offices.

For a free copy of our white paper, "Hidden Risks of Annuities," send an email to info@linscomb-williams.com.



(Left to right: Phillip Hamman, CFA, CFP®; Ryan Patterson, CFA, CFP®; J. Harold Williams, CPA/PFS, CFP®; Carolyn Galfione, CPA, CFP®; Heidi Davis, CPA/PFS, CFP®)

Linscomb & Williams is not an accounting firm.

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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Tuesday 5.9.17

12:00 PM – 1:30 PM

SPEAKER

Travis Harris
Product Line Manager,
Cemented Systems
Packers Plus Energy Services Inc.

LOCATION

SWN Campus
10000 Energy Dr
Spring, TX 77389

EVENT CONTACT

Jon Spencer
jon.spencer@tracerco.com

NORTHSIDE

Application of Ball-Drop Technology to Improve Efficiency of Limited Entry Completion Systems

Ball-drop, or ball-activated, completion technology is traditionally associated with single point entry stimulation (one ball per sleeve) in open hole applications. Recent advancements in this technology have led to the development of a system that uses one ball to activate multiple sleeves in cemented liner applications, combining the efficiency of ball-drop completions with the placement accuracy of limited entry stimulation in cemented wells.

This limited entry ball-drop completion system is designed to stimulate a high number of entry points in one treatment, reduce completion time, remove risk of wireline and coiled tubing runs, eliminate the need to mill out the system prior to flow back, and solve entry point erosion concerns. By using a non-erodible material in each sleeve, the limited entry effect is designed to be consistent throughout the entire stimulation. Field trial results will be shared as part of a discussion on creating time savings and operational improvements in traditional cemented liner completion methods.

TRAVIS HARRIS



Over his 30-year career in oil and gas, Travis Harris has focused on new product launches. Before joining Packers Plus, he was responsible for all daily operations, in a large district area, which included cased hole completions, open hole completions, remedial and stimulation, through-tubing fishing and all big hole fishing operations. Harris holds a BBA degree from Texas State University and a number of patents.



Thursday 5.11.17

5:00 PM – 7:30 PM

SPEAKERS

Sebastien F. Matringe
Quantum Reservoir Impact
Luther Birdzell
OAG Analytics

LOCATION

Station
1301 Fannin St #2440
Houston, TX 77002

EVENT CONTACT

Supriya Gupta
supriya026@gmail.com

DATA ANALYTICS

Analytics Technologies for Reservoir Diagnostics and Well Construction



The Data Analytics Study Group focuses on demonstrating case studies and application of analytics in oil and gas. Sebastien F. Matringe will introduce reservoir diagnostics technologies used by QRI to identify field development opportunities in mature assets: new well locations, workovers, production and surface facility optimization, drilling and completion performance improvements. Luther Birdzell will talk about use of data analytics for optimizing wellbore placement and evaluating completion scenarios.

SEBASTIEN F. MATRINGE

As VP of Technology at QRI, Sebastien F. Matringe leads a technology development effort aiming at accelerating and eventually automating reservoir management analysis. Matringe started his industrial career as a reservoir engineer at Chevron. His experience also includes research in reservoir simulation. Matringe holds BS and MS degrees in mechanical engineering from ENSEEIHT, France, and MS and PhD degrees in petroleum engineering from Stanford University.

LUTHER BIRDZELL

Luther Birdzell is an engineer, data scientist, and entrepreneur who is passionate about intellectual, machine, and kinesthetic learning. For over 20 years, Birdzell has been teaching computers how to represent high-cost digital and physical assets. His contributions include an AI-enabled deep cycle lithium battery simulation system; the strategic vision that led to commercializing tools to replace expensive data center assets with low-cost software during development and testing. Birdzell holds two electrical engineering degrees from Dartmouth College.

WESTSIDE

Managed Pressure Flowback in Unconventional Reservoirs: A Permian Case Study

Flowback programs for multi-stage horizontal wells in unconventional reservoirs are too often completed without a sufficient understanding of how the flowback could affect the long-term performance of the well. Operators are becoming more aware of how extremely sensitive unconventional completions and formations can be to overly aggressive flowback practices used to increase initial production. To date, collection and analysis of the data gathered during flowbacks has been infrequent and without much understanding of their inherent value.

This discussion will focus on the specific type of damage that can be created by aggressive flowback practices and mitigated by effectively monitoring and controlling initial rates and pressures. A Permian Basin case study will be examined to demonstrate the benefits of optimizing choke schedules to effectively manage drawdown pressure to reduce damage to fractures and increase cumulative production.

DARRYL TOMPKINS



Darryl Tompkins has over 10 years of oil and gas industry experience concentrating on unconventional reservoir engineering. He is the Reservoir Evaluations Technical Advisor for the SPIDR Team within Halliburton's Testing and Subsea Product Service Line, where he works on advancing testing technology globally in conventional and unconventional reservoirs. He is a registered Professional Engineer in Ontario, Canada, and holds a BS in mechanical engineering from the University of Windsor, Canada.

GENERAL MEETING

Refining and Terminalling

Exports of refined products have increased by 270% in the past nine years as the domestic consumption of refined crude products has declined in recent years and domestic crude production has increased. This presentation will provide an overview of:

- Crude production/imports/price differentials and their implication
- US shale oil and gas as a game changer
- Refining market dynamics
- Refining operations
- Refined product use and exports
- Petroleum storage analysis
- Crude transportation
- Financial analysis
- Refinery-to-terminal conversion

Substantial investments in downstream processing were made before the recent US light crude production boom. The result was US refiners being well positioned to process a broad range of crudes. This refining flexibility has sustained export opportunities and profitability.

STEVE CROWER



Steve Crower, Director of Energy at SDR Ventures in Denver, has over 20 years of operational and financial experience focused on the energy industry. With SDR, he provides M&A advisory services to all sectors of the energy industry. Crower serves as an adjunct professor at the University of Colorado at Denver, teaching Global Refining and Terminalling. He holds a BS in civil engineering from the University of Michigan and an MBA concentrating in finance from Rice University.



Wednesday 5.17.17

11:30 AM - 1:00 PM

SPEAKER

Darryl Tompkins
Reservoir Evaluations
Technical Advisor
Halliburton

LOCATION

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

EVENT CONTACT

Stephen Loving
stephen.loving@corelab.com



Thursday 5.18.17

11:30 AM - 1:00 PM

SPEAKER

Steve Crower
Director, Energy
SDR Ventures, Denver

LOCATION

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

EVENT CONTACT

Barry Faulkner
barryf1944@gmail.com

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Reservoir Technology Forum

The Reservoir Study Group annually hosts the Reservoir Technology Forum to disseminate knowledge and technology to achieve the many objectives of reservoir management, including understanding risk, increasing production and reserves, and maximizing recovery.

SESSION 1 - TECHNOLOGY AND INNOVATION I: RELIABLE AND EFFICIENT FORECASTING

8:30 AM - 10:30 AM

S1.01 First Look at Accelerating Compositional Models using CPU+GPU-Based Systems

Hau Tran, Rock Flow Dynamics (RFD Inc.)

S1.02 Probabilistic Uncertainty Quantification of a Complex Field Using Advanced Proxy Based Methods and GPU-Based Reservoir Simulation

Dr. Reza Ghasemi, Stone Ridge Technology

S1.03 Big Data: Advanced to "Now What?"

Dr. Eric Laine, Laine & Associates

SESSION 2 - TECHNOLOGY AND INNOVATION II: EMERGING TECHNOLOGIES TO IMPROVE RECOVERY EFFICIENCY

10:30 AM - 11:30 AM

S2.01 High-Resolution Porosity-Permeability Logs Driven by Macro-to-Nano Structures and PVT-Pyro-Geochemistry

Dr. Avrami Grader, Ingrain

S2.02 Integrated Reservoir-Network Simulation to Model Subsea Boosting Systems for Deepwater Development

Gaurav Seth, Chevron

Keynote Speaker

Danny Brown, Anadarko Petroleum Corporation

SESSION 3 - PRODUCTION FORECAST AND RESERVES ESTIMATION IN UNCONVENTIONAL RESERVOIRS

1:00 PM - 2:30 PM

S3.01 Reservoir Engineering Aspects and Forecasting of Well Performance in Unconventional Reservoirs

Dr. Tom Blasingame, Texas A&M University

S3.02 Characterizing Performance of Woodford Shale Wells in the Merge Play, Oklahoma

Brian Collins, LINN Energy

S3.03 Integration of Improved Asymmetric Frac Design Using Strain Derived From Geomechanical Modeling in Reservoir Simulation

Sandra Silva, FracGEO LLC

SESSION 4 - OIL AND GAS BUSINESS: CHALLENGES AND OPPORTUNITIES OF THE LOW OIL PRICE

3:00 PM - 4:30 PM

S4.01 Emerging Upstream Growth Opportunities in Mexico

Loren Long, Talos Energy LLC

S4.02 Making Partnerships Work in a Low-Price Environment

Geoff Walker, Water Street Partners, LLC

S4.03 TBD

Steve Gardner, BBVA Compass Bank

For more information on the training events and additional pricing options, please visit: spegcs.org/events/3594 & spegcs.org/events/3596



EVENT INFO

Thursday 5.18.17

8:30 AM - 4:30 PM

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Rock Flow Dynamics

Stone Ridge Technology

Entero

Silver

CMG

Ingrain

FracGeo

LOCATION

Anadarko Conference Center

1201 Lake Robbins Dr

The Woodlands, TX 77380

EVENT CONTACT

Alexandra Martinez

adinorah.martinez@gmail.com

MEMBERS

\$100/125 Walk-In

NON-MEMBERS

\$125

STUDENT/MIT/RETIRED SPE

\$20

Limited spots available.

See website for details

ONLINE REGISTRATION

spegcs.org/events/3266



Wednesday 5.24.17

5:00 PM - 7:30 PM

SPEAKERS

Parker Reese
Jason Cansler
Stephen Lipari

LOCATION

Four Seasons Hotel Houston
1300 Lamar St
Houston, TX 77010

EVENT CONTACT

Cody Felton
cody.felton@energynet.com

PLS

BUSINESS DEVELOPMENT

M&A: Lessons and Stories From Recent Sellers in the Permian

Please join the SPE Business Development Group for talks by Silverback Exploration II's newly appointed President and CEO Stephen Lipari, Ameredev's President and CEO Parker Reese, and Rock Oil's President Jason Cansler. This unique and exciting event will allow the audience to hear accounts of how these companies were built and subsequently sold for large profits. The Permian Basin dominates the current A&D marketplace, and this is a great opportunity to learn from those who were on the sell-side of large deals and perhaps see what's next for these companies and the Permian. Networking will begin at 5:00 PM in the mezzanine, with the program and Q&A session beginning at 6.

PARKER REESE

Parker Reese is President and CEO of Austin-based Ameredev. In February, Ameredev closed a \$633 million sale in the southern Delaware Basin to Callon Petroleum. Reese holds a BS in Petroleum Engineering from Texas A&M and is an SPE member.

JASON CANSLER

Jason Cansler is President of Rock Oil. In November, Rock Oil closed a \$980 million sale in the Midland Basin to SM Energy. Cansler holds a BS from Kansas State and an MS from the University of Kansas, both in geology, and an MBA from Tulane.

STEPHEN LIPARI

Stephen Lipari is President and CEO of San Antonio-based Silverback Exploration II. In December, Silverback Exploration I closed a \$855 million sale of southern Delaware Basin assets to Mark Papa's Centennial Resource Development. Lipari holds a BS in Petroleum Engineering from LSU and is an SPE member.



Wednesday 5.24.17

11:30 AM - 1:30 PM

SPEAKER

Neha Sahdev
Halliburton - Pinnacle

LOCATION

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

EVENT CONTACT

Shree Krishna
shreekrishna@gmail.com

COMPLETIONS AND PRODUCTION

Applications of Fiber Optic Diagnostics in Non-Instrumented Wells

In recent years, the industry has made significant strides in the use of fiber optics for downhole evaluation. In this talk, we will look at various applications of fiber optic sensors run in non-instrumented wells on coiled tubing, wireline, and slickline. We will look at case studies of treatment evaluations, examples of cross-well communication, and how this data set can be used to make completions optimization decisions. We will also talk about how operators have been able to achieve operational efficiency by combining fiber optic diagnostic runs with other planned downhole work.

NEHA SAHDEV



Neha Sahdev is a principal project manager for Pinnacle, Halliburton in Denver. She is responsible for all fiber optics projects in the Rockies and is involved in development work methods and new analysis techniques for fiber optic data sets. She has over 10 years of experience in intelligent completions and diagnostics. She has worked in various parts of the world and has experience in mature fields, enhanced oil recovery, and, lately, unconventional field optimization. She worked with Schlumberger globally from 2006 to 2014 and joined Pinnacle, Halliburton in 2014 in Denver.

WATER AND WASTE MANAGEMENT

Water in Depth

ConocoPhillips engages with various stakeholders in the areas where they operate. Those stakeholders include local elected officials, community leaders, educators, students in middle and high school, and emergency officials. In communicating with stakeholders, ConocoPhillips discovered there was misinformation about water usage. So the company built a 3D water tool (Conceptual Model) to illustrate the space between aquifers and its wells. By the end of this presentation, you will better understand the size of a water well's footprint relative to other uses. See complete data, science and engineering enabling ConocoPhillips to responsibly manage groundwater and protect groundwater resources. Hear how the company proactively works with entities such as the Texas Water Development Board and Groundwater Conservation Districts on groundwater resource management and information sharing.

PETE SPICER

Pete Spicer is a Senior Environmental Scientist/Advisor for ConocoPhillips, currently representing the company on numerous oil and gas advocacy groups, including API Produced Water & Upstream Water and the TXOGA Water committees. He also co-chairs the Water Sustainability Committee for the South Texas Energy and Economic Roundtable. Spicer has been working in the environmental field for upstream oil and gas for over 25 years. He has a bachelor's in petroleum geology from Stephen F. Austin State University and his master's in geology and hydrogeochemistry from Texas A&M.

REGISTRATION LINK

spegcs.org/events/3585/



Wednesday 5.24.17

11:30 AM - 1:00 PM

SPEAKER

Pete Spicer
Senior ENV Scientist/Advisor
ConocoPhillips

LOCATION

Marathon Oil Tower - Conf. Center
5555 San Felipe St
Houston, TX 77056

EVENT CONTACT

Reshmy Mohanan
reshmy.mohanan@griffindewatering.com

PETRO-TECH

Petro-Tech Study Group Plans New Content

Rig counts are growing, and the downward spiral may have reached its floor. As we begin this ascent, please join us in breathing new life into the Petro-Tech Study Group! Cheryl Collarini has accepted chairmanship for 2017-2018, and we are working with industry leaders and volunteers to bring new content and direction to the group. We're looking for speakers, committee members, and volunteers — and we want support and feedback as well. Please encourage technicians of all disciplines to join SPE, register with SPE-GCS, and join the Petro-Tech Group. Or contact us for more information. Events are being planned now, and we will be hosting and planning meetings throughout the summer.

Contact Jessica Morgan at jmorgan@blackstoneminerals.com or Vanessa Mills at vmills@collarini.com to volunteer for a committee position. Receive group news blasts through spegcs.org or via our Yahoo Group. Send an email to gcs-petro-tech-subscribe@yahoogroups.com to subscribe.

STUDY GROUP CHAIR

Cheryl Collarini
ccollarini@collarini.com
832-251-0553

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Well intervention using coiled tubing or slickline?

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

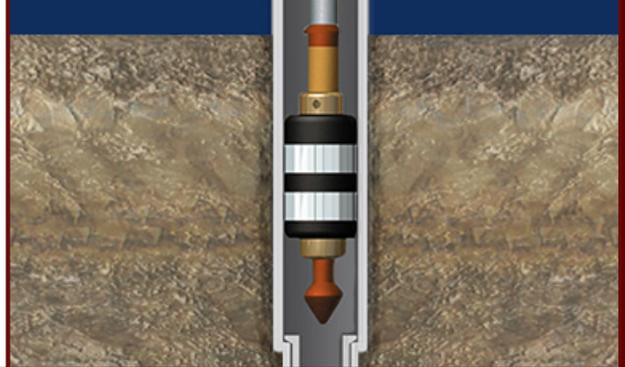


TAM INTERNATIONAL

Challenges

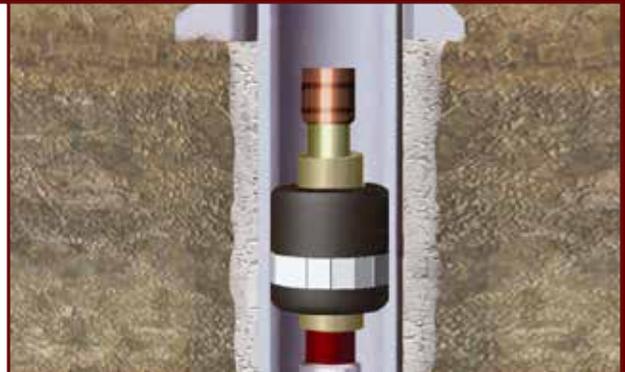
TAM-J Case History

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



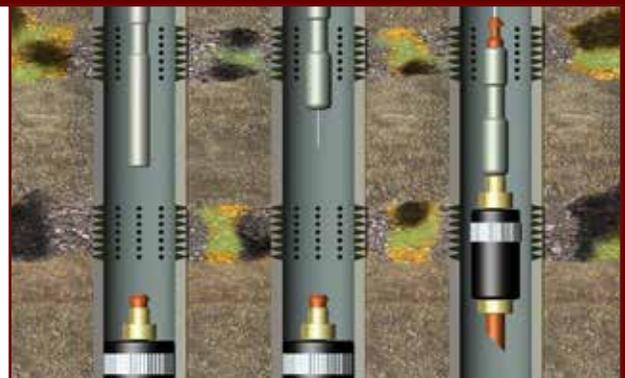
TIP Case History

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



SlikPak Case History

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



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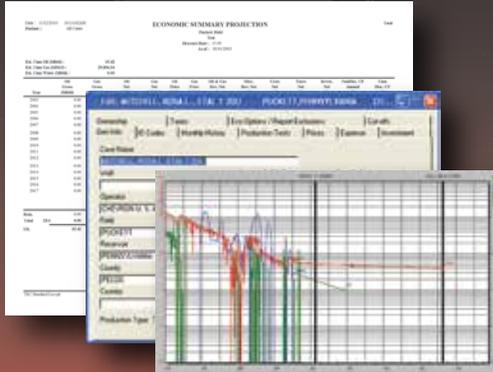
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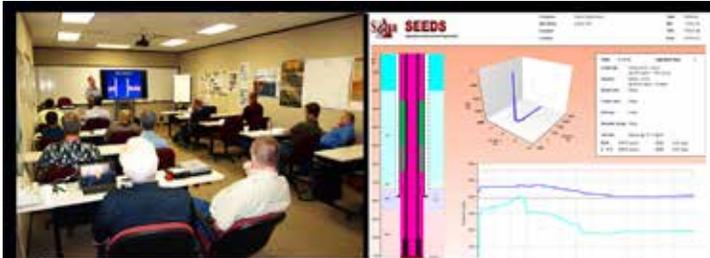
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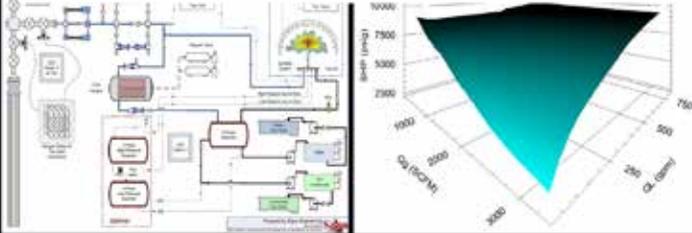


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Where Are They Now?

PAST SCHOLARSHIP WINNERS

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

After receiving the SPE scholarship, I was offered an internship with Chevron before my first semester at UT. I worked with a reservoir management group in our Southern Africa business unit in Houston covering assets in offshore Angola. I was excited to see what day-to-day life is like as an engineer, and that early experience strengthened my confidence that I was on the right path.

I returned to Chevron in Houston after my freshman year and worked with the same group. I requested a production role next and accepted an offer to work in Bakersfield on the Midway Sunset field. That summer allowed me to work in a field office and get a glimpse of the base business close to the wellhead. For my final internship, I worked on Chevron's Tubular Bells deepwater GOM project, a JV with Hess. The look into the deepwater business and the dynamics of working as the non-operating partner continued to add new experiences.

I joined Chevron full-time after graduation and worked on our Oklahoma waterflood assets before transitioning to our East Texas shale and tight gas properties. I believe my internships helped me adapt quickly to post-college employment and improved my ability to contribute within my team. I applied takeaways from my own internships to my role as an intern mentor this past summer and enjoyed working with a younger engineer to create a worthwhile and value-adding project. I'm thankful my career started with the pre-college internship and has continued to progress with Chevron from there.

JAY BOWLING



CAREER OVERVIEW

Reservoir Engineer at Chevron

- Cypress Woods High School – 2010
- University of Texas at Austin, BS in petroleum engineering – 2014

CONTACT

jaybowling@chevron.com

SPONSORSHIP

spegcs.org/sponsorship-opportunity/

DONATION INFO

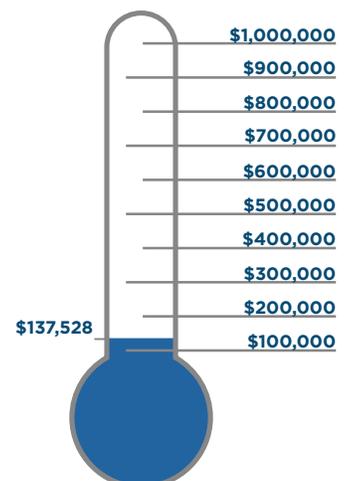
spegcs.org/spegcs-scholarship-fund/

SPE-GCS Scholarship Fund Update

We are excited to announce the status update for our fundraising efforts. As of April 1, 2017, we have raised **\$137,528*** to support our scholarship program! So far, we have received donations from past scholarship recipients who wanted to give back, SPE-GCS Board of Directors, SPE-GCS Study Group and Committee Leaders, SPE-GCS event attendees, SPE-GCS members and associates, SPEi leaders, and company donations.

For more information about our scholarship fund, scholarship program or our current donor list, please visit www.spegcs.org/spegcs-scholarship-fund/. You will find testimonials from past scholarship recipients and learn about the impact that SPE-GCS scholarships had on their lives and professional careers. If you have not yet donated, we invite you to visit our website and support our efforts as a member of the SPE-GCS family and fellow industry professional. As a reminder, all donations are tax-deductible. We also encourage you to find out if your company has a matching program that could make your individual donation go even further!

FUND STATUS

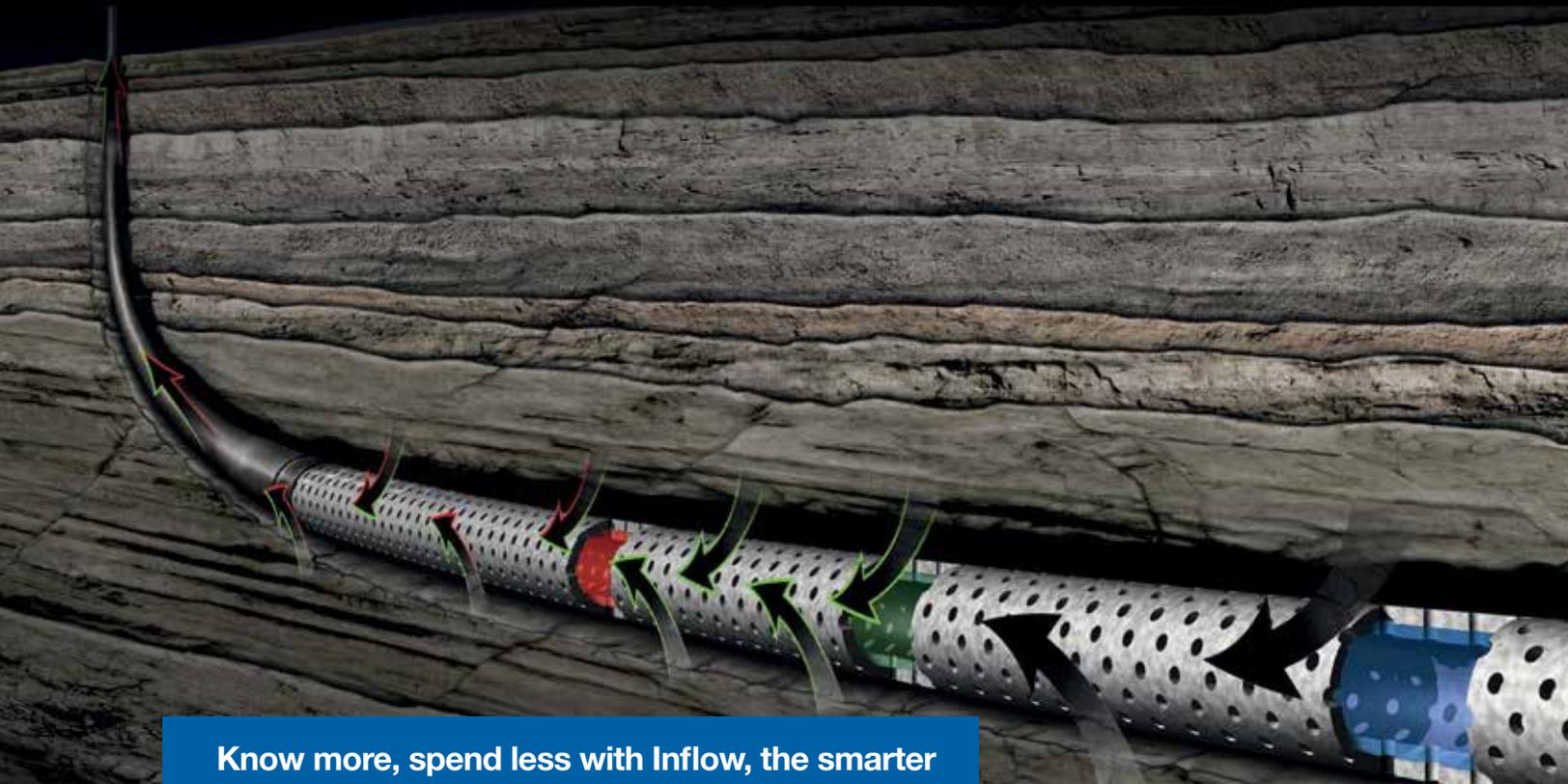


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Providing Insight Onsite

Volunteering at the Houston Food Bank



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

The YP Community Outreach committee is presenting this event as a way to make a difference while getting to know more people from our industry.

We will be helping at the warehouse. 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: <http://bit.ly/2nakaai>

EVENT INFO

SATURDAY

5.13.17

8:00 AM - 12:00 PM

LOCATION

The Houston Food Bank -
Portwall Headquarters
535 Portwall St
Houston, TX 77029

EVENT CONTACT

Antonio Lazo
antonio.Lazo@chevron.com

ONLINE REGISTRATION

spegcs.org/events/3511/

Accelerated Learning Tutorial: Profitability Analysis and Decision Making

The most significant reason for doing economic evaluations is to make wise investment decisions. This process involves answering three critical questions: What will it cost? What is it worth? Will it earn adequate return on investment?

These questions cannot be answered easily or simply. They require educated forecasting and calculation techniques, which are the subject of this course.

Course Outline:

1. Introduction
2. Production Forecasting
3. Reserve Estimation
4. Oil and Gas Price Forecasting
5. Cash Flow
6. Economic Decision Tools
7. Risk and Uncertainty
8. Budgeting and Investment Planning

DR. J. ROGER HITE



Dr. J. Roger Hite is a petroleum engineering consultant in Houston. His consulting firm is Inwood Solutions, LLC. Hite is also part owner of a production company with property in Louisiana. He has published a number of papers and articles, primarily on EOR management. He holds a BS from Tulane University and a PhD from Princeton University, both in chemical engineering. Hite is an SPE Distinguished Member and a recipient of the International Management and Information Award. He is Regional Director for the Gulf Coast North America Region.

EVENT INFO

FRIDAY

5.19.17

8:30 AM - 4:30 PM

LOCATION

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

EVENT CONTACTS

Sunil Lakshminarayanan
sunil_lakshminarayanan@oxy.com

MEMBERS/NON-MEMBERS

\$350

MIT/STUDENTS

\$175/\$100

ONLINE REGISTRATION

spegcs.org/events/3578/

Accelerated Learning Tutorial: Introduction to Reservoir Simulation

This course introduces participants to theoretical and practical concepts in reservoir simulation technology. Participants will learn about the fundamentals of reservoir simulation, its main components, and how they are used in the development of a simulation study. The course is divided into four parts:

1. Overview of reservoir modeling
2. Reservoir simulation equations
3. Reservoir simulation strategies
4. Simulation model QA/QC and model interrogation

Closing remarks will include discussion of the value of reservoir simulation, tools and workflows, and future trends.

JOSE VILLA



Jose Villa has been a Senior Reservoir Engineer with Anadarko Petroleum Corporation since 2015. He has 18 years of experience as a reservoir engineer and reservoir modeling and simulation specialist. He has participated in the development and deployment of reservoir simulation technologies. He holds a BS from Central University of Venezuela and an MS from Stanford University, both in petroleum engineering. Villa also volunteers for the SPE-GCS Reservoir Study Group and has chaired several SPE workshops.

EVENT INFO

TUESDAY

5.23.17

8:30 AM - 4:30 PM

LOCATION

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

EVENT CONTACT

Sunil Lakshminarayanan
281-248-1443
sunil_lakshminarayanan@oxy.com

MEMBERS/NON-MEMBERS

\$350

MIT/STUDENTS

\$175/\$100

ONLINE REGISTRATION

spegcs.org/events/3576/

Oil Patch Writing Workshop

Unlike generic technical writing courses, this petroleum-specific class will focus on upstream jargon and oil industry writing standards following the SPE Style Guide.

Developed for engineers and geoscientists, this course starts by defining the parts of speech as building blocks and then teaches students how to use them to build strong sentences, paragraphs and documents that are clear, concise and correct. Grammar, usage, capitalization, and punctuation rules are illustrated using examples taken from real-life oil industry writings. Microsoft Word tips for formatting text, figures, tables, and equations will be shared, along with editing and proofreading techniques for polishing the final product. A useful workbook will be provided to remind you of the rules and give you an opportunity to practice them in class.

JEANNE PERDUE



Jeanne Perdue holds a BS in chemistry from the State University of New York at Albany. She started her career as a chemist at the Texaco Research Laboratories in Bellaire. She later conducted research and literature searches at the Texaco Library. Perdue then became an oil and gas journalist, covering drilling and information technology for Hart's *E&P* magazine and launching *Upstream Technology* magazine.

She is now a technical writer at Occidental Petroleum. A Distinguished Member of the Society of Petroleum Engineers, Perdue has served as Secretary and Chair of the Gulf Coast Section, among other roles.

EVENT INFO

FRIDAY

5.26.17

8:30 AM - 1:00 PM

LOCATION

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

EVENT CONTACT

Sunil Lakshminarayanan
sunil_lakshminarayanan@oxy.com

MEMBERS/NON-MEMBERS

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

STUDENTS/MIT

\$15

ONLINE REGISTRATION

spegcs.org/events/3577/

Members in Transition Initiative

16TH SEMINAR SERIES

The SPE Members in Transition Seminar Series includes topics of interest to SPE members who are between jobs during the current industry downturn or looking for new opportunities. This month's agenda features "Digital Trends and Opportunities in the Oilfield," "Enhancing Your Skills During Booms and Busts," "The Future of Analytics in Oil and Gas," and a discussion of resources for SPE members.

Program 1: Digital Trends and Opportunities in the Oilfield

This discussion will address the following questions:

- What are the trends driving digital adoption?
- How are digital technologies impacting the oilfield?
- What does this mean for future oilfield employment opportunities?



ALEX ROBART

Alex Robart is the Managing Director of Unconventional Capital. He is also a co-founder of Digital H2O, acquired by Genscape in 2015. He holds a BS from the University of Virginia in systems engineering and an MBA from the University of Michigan.

PROGRAM 2: Enhancing Your Skills During Booms and Busts

As the oil and gas industry comes out of one of its worst downturns, it is crucial to keep learning and enhancing your value to employers and clients. This talk will cover numerous methods for improving both technical and soft skills.



BILL KEMP

Bill Kemp is a Houston-based Account Manager for PetroSkills. He is responsible for client interaction for workforce competency development and technical training in the oil and gas industry. Kemp has served in local and national SPE leadership roles. He holds a BSEE from the University of Texas at Austin.

PROGRAM 3: The Future of Analytics in Oil and Gas

There's a gaping shortage in the skills crucial for the success of a data-driven organization. This gap will be filled by arming oil and gas practitioners with strong data science skills. Data scientists bring a unique blend of business acumen, the ability to acquire and prepare data for analysis, and analytical skills to extract business insights. This session will show you how an understanding of analytics bridges the skills gap and empowers business users with the best domain knowledge to become citizen data scientists and deliver more value to their organizations.



CATALINA HERRERA

Data scientist Catalina Herrera is a Solutions Consultant for TIBCO, providing a wide range of analytics expertise, as well as an experienced problem solver in multiple industries. She holds master's degrees from Texas Tech, West Texas A&M University, and Los Andes University, Colombia.

EVENT INFO

FRIDAY

5.12.17

10:00 AM – 3:00 PM

SPEAKERS

Alex Robart
Managing Director
Unconventional Capital

Bill Kemp
Account Manager
PetroSkills

Catalina Herrera
Solutions Consultant
TIBCO

LOCATION

Houston Technology Center
410 Pierce St
Houston, TX 77002

EVENT CONTACT

Susan Howes
713-553-5020
c.susan.howes@gmail.com

Ashish Fatnani
832.415.6835
ashish.fatnani@halliburton.com

MEMBERS

\$40/\$50 Walk-In

NON-MEMBERS

\$50

STUDENTS/MIT/RETIRED SPE

\$15

Registration capped at 70

SPE-GCS Annual Awards & Scholarship Banquet

Join the SPE Gulf Coast Section as we celebrate another year of student success, emerging professionals, established industry leaders, and longtime members and supporters!

Every year SPE-GCS holds a banquet to honor SPE Scholarship recipients, Young Professionals, the SPE Legion of Honor, and the recipients of the SPE Gulf Coast North America Regional awards and SPE Gulf Coast Section awards.

SPE-GCS gives over \$100,000 annually in scholarships. The annual banquet recognizes high school seniors and college students who will receive SPE-GCS and Communities in Schools-Houston scholarships for the 2017-18 academic year. Scholarship recipients and their parents are invited to attend. Members of the Legion of Honor have served SPE for 50 years and will be honored for their commitment to our professional society.

Our keynote speaker this year is Nathan Meehan, 2016 Society of Petroleum Engineers President. In his talk "Sustainability and the Future of Oil and Gas," Meehan will review key sustainability issues and compare a Middle Eastern field, Prudhoe Bay, and North American unconventional in light of their relative impacts with observations on improvements required in unconventional reservoirs. We also look forward to the return of banquet emcee Mark Vandermeer, the Voice of the Houston Texans. SPE-GCS supports his charity, Get a Great Gig, which focuses on free job search and career coaching.

NATHAN MEEHAN

Nathan Meehan, 2016 Society of Petroleum Engineers president, is Senior Executive Adviser at Baker Hughes, advising executive management on reservoir and geoscience issues. Meehan also is the recipient of the Lester C. Uren Award for Distinguished Achievement in Petroleum Engineering and the Degolyer Distinguished Service Medal, and he served as a Distinguished Lecturer. Meehan earned a BS in physics from the Georgia Institute of Technology, an MS in petroleum engineering from the University of Oklahoma, and a PhD in petroleum engineering from Stanford University.

Entrepreneurship Cell

Oil & Gas Pseudo 'Shark Tank'!

Join the SPE Entrepreneurship Cell for a fun event where startups pitch to investors and industry experts and receive critical feedback. Five startups will each present a five-minute pitch and then receive 10 minutes of feedback from the panel. The group founders are young entrepreneurs and intrapreneurs from Marathon Oil, Halliburton, National Oilwell Varco, and Biota Technology. They are set to hold monthly events such as panel discussions, pseudo 'Shark Tank'-style sessions, startup CEO speeches, and happy hours. The Sharks Include:

ANDREW POON

Andrew Poon is Chief Marketing Officer at Chief Outsiders. He helps small and medium-sized businesses grow by aligning their strengths, business plan, and customer needs. He has over 35 years of experience, ranging from startups to large corporations.

HOSSEIN ROKHSARI

Hossein Rokhsari is a partner at Darcy Partners. Previously, he spent eight years at McKinsey & Company. He has been investing in the O&G technology space since 2013, and he has advised many CEOs and executives of Fortune 100 companies.

LANCE ROBINSON

Lance Robinson is Director of Technology Ventures at ConocoPhillips. He has an engineering background with extensive experience with startups, technology project development, and business management. Robinson has an MBA from the University of Dallas.

TRENT JACOBS

Trent Jacobs is the Digital Editor for the *Journal of Petroleum Technology*, the flagship publication of SPE. He covers emerging technologies and produces in-depth reports on the upstream industry's biggest challenges.

EVENT INFO

THURSDAY

5.25.17

6:00 PM - 10:00 PM

SPEAKER

Nathan Meehan
Baker Hughes
Senior Executive Adviser

LOCATION

Norris Convention Center -
City Centre (Red Oak Ballroom)
816 Town and Country Blvd #210
Houston, TX 77024

EVENT CONTACT

Jeremy Viscomi
jviscomi@pttc.org

MEMBERS/NON-MEMBERS

\$60

REGISTRATION LINK

spegcs.org/events/3469/

EVENT INFO

WEDNESDAY

5.31.17

5:30 PM - 7:30 PM

LOCATION

Station Houston
1301 Fannin St #2440
Houston, TX 77002

EVENT CONTACT

Moji Karimi
karimi.moji@gmail.com
832-917-2353

MEMBERS/NON-MEMBERS

\$20.00 Early Bird Registration -
(ends 05/10/2017)

REGISTRATION LINK

spegcs.org/events/3558/

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

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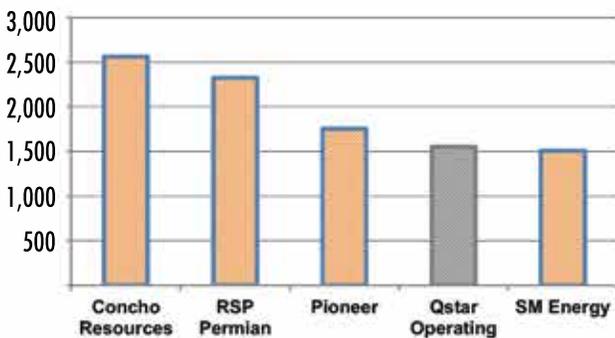
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- Extraction of Frac Length from rate-time data
- Design Revisions based on Well Performance

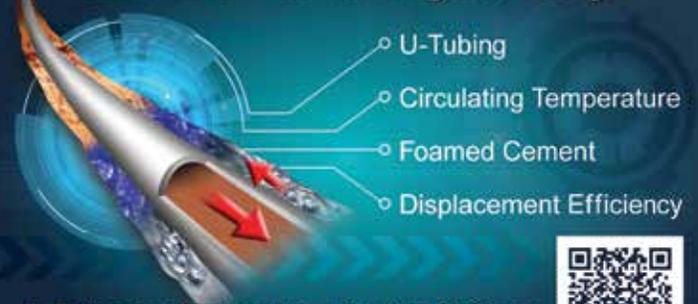
This is not a basic course but a **design optimization and reservoir analysis integrated training** to highlight design trends that have been successful. Featuring a panel session with the instructors - John Ely, Jerry Jensen, John Lee and Steve Wolhart.

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SPE-GCS STUDENT CHAPTERS

HOUSTON COMMUNITY COLLEGE

SPE HCC Appoints Aileen Lu President

Aileen Lu is the new president of SPE HCC (Houston Community College). Previously the treasurer of the chapter, Aileen is pursuing a degree in petroleum engineering.

With her unique background in procurement and supply chain management, Aileen's vision is to help members with career development, update current policies and broaden knowledge, in addition to possibly raising scholarships and sponsorships and making SPE more known. Aileen has been working closely with SPE, HCC, and Fortune 500 oil and gas companies.

In March, she met with Jeanne Perdue, former Chair of SPE-GCS, to discuss the chapter. "I can see that SPE HCC will be in good hands!" Jeanne said.

Previously, Aileen was the Executive Officer of the China Australian Chamber of Commerce and the Entry Clearance Officer for the British Consulate General Shanghai. She also worked with Formula One Grand Prix. In California, Aileen served as Vice President of the San Diego Chinese Association and was a consultant for the Small Business Development Center. She holds a degree in business management from University of Shanghai for Science and Technology.

Stay tuned for our next event: "Overview of International Trade Law for O&G Companies" by Robert Ward, Trade Compliance Empowered Official, Aramco Services Company.

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

UNIVERSITY OF HOUSTON

UH SPE Student Paper Contest

In February, UHSPE held its annual Student Paper Contest. Both undergraduate and graduate students showcased papers on their research. Participants were recognized for their dedication to their field and received constructive feedback from industry professionals to further promote UHSPE's major goal of student professional development.

With the assistance of volunteers and industry judges, the event drew a plethora of student submissions and observers. We would like to extend a sincere thank-you to those who donated their time and insight in evaluating the submissions. Congratulations to the contest winners this year! We look forward to inviting students back next year.

TEXAS A&M UNIVERSITY

2017-18 Officers Elected

As another year comes to a close, a new team of officers is elected to continue the legacy and excellence of TAMU-SPE. We would like to thank all those involved with TAMU-SPE leadership for their hard work and dedication this year.

The officer team for the 2017-2018 academic year is:

President

Jordan Argamany

Vice President Internal

Miranda Jones

Vice President External

Ravi Lad

Treasurer

Kyle Soares

Secretary

Cameron Osterhaus

Graduate Representative

Joshua Ebin

We are excited to begin working with the new officers and see what this next year has in store for us!

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May 2017 CALENDAR

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY SPE-GCS Office Closed	SATURDAY
	1	2	3	4	5	6
7	8	Northside 9	10	Data Analytics 11	Members in Transition (MIT) 12	Young Professionals 13
14	15	16	Westside 17	Board of Directors Meeting General Meeting Reservoir 18	SPE-GCS Office Closed Continuing Education 19	20
21	22	Continuing Education 23	Business Development Completions & Production Water & Waste Management 24	Annual Awards Banquet 25	Continuing Education 26	27
28	29	30	Entrepreneurship Cell 31			