



Gulf Coast Section

APRIL
2016

CONNECT

SPE GULF COAST SECTION NEWSLETTER



**THE HONORABLE RYAN SITTON,
TEXAS RAILROAD COMMISSIONER**

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**ARTIFICIAL LIFT FOR THE LIFE OF
WELLS IN UNCONVENTIONAL PLAYS**

NORTHSIDE P. 9

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CHAIR'S CORNER



DR. IVOR ELLUL
2015 - 2016 SPE-GCS Chair



As I write this, CERAWeek has just kicked off with an interesting array of key individuals imparting wisdom on the current state of the oil and gas industry and what will happen in the near and medium term. Amid all the posturing, we who make a living in the industry deal with the day-to-day ramifications of the low commodity price and the challenges that this brings.

The SPE Gulf Coast Section has embraced the need to support our members as they face these challenges, and I would like to brief you on the status of some of these initiatives.

Members in Transition (MiT): We have made tremendous progress on the MiT initiative thanks to the excellent work of C. Susan Howes and the MiT leadership team. The seminar series, which includes topics of interest to SPE members who are transitioning between jobs or who are looking for new career opportunities, is off to a great start. The agenda for the February event included “How to Start Your Own Business,” “The Large Company Hiring Process,” and “Networking Effectively to Build Beneficial Relationships.” We received very encouraging feedback from the first seminar, which I have distilled here ([see right sidebar](#)). As a result, we are planning further seminars that will include the following topics:

- APRIL:** Intellectual Property for Startups and Small Businesses
Texas Workforce Commission and Workforce Solutions Resources
The Business of Your Career: Managing Your Career as a Business Enterprise
- JUNE:** Review of Courses Offered by University of Houston Small Business Dev. Center
Negotiation & Conflict Resolution - Proven Techniques to Achieve a Win/Win Solution
An Entrepreneur's Guide to Attracting Startup Capital

Ideas Launch Pad (ILP): The ILP is part of the MiT initiative, and is intended to assist those who have entrepreneurial ideas that could be candidates for funding and eventual launching as a commercial business. We have partnered with the Houston Technology Center (HTC), which is the eventual vehicle for incubating and launching ideas that come through to the GCS. In February, the ILP committee reviewed five ideas, two of which were selected for referral to HTC. The owners of the two ideas have met with the HTC and have subsequently initiated the application process.

Industry Support: Industry support for MiT has been very encouraging. Drillinginfo has offered to provide its software to unemployed SPE-GCS members and will grant individuals passwords to use Drillinginfo until the end of the year. A brief tutorial for the software will be provided, if needed. Wild Well Control has offered SPE the use of its auditorium for SPE events. The Indus Entrepreneurs (TiE) Houston offered SPE members a discount for their workshop, “How to Reinvent Yourself in a Downturn Market.” The Houston Geological Society publicized SPE MiT events in its newsletter.

Accelerated Learning Tutorials (ALTs):

We have had great success with our first ALTs, which were introductions to gas lift systems (November), managed pressure drilling (January), and reservoir simulation (February). We have four more to go: introductions to flow assurance (April), PVT analysis (May), oilfield geomechanics (June), and nodal analysis (TBA). These one-day courses are proving to be an excellent means of rapidly immersing oneself in a topic.

As the year progresses, I'll advise on more initiatives. So, as always, watch this space...

All the best!

“Thanks for a most informative workshop.

All three topics were well on target and well received. Overall the workshop was well planned and executed. As a webinar participant, I felt connected and engaged throughout the discussion.”

“I continue to congratulate myself for choosing to attend the workshop in person. It was a great value and very beneficial. Thank you for your effort organizing it. It ran very smoothly! I would like to attend the following one also, so hope to see you again!”

“Thanks for arranging the SPE Members in Transition Seminar last Friday. I found the presentations, discussions and networking pretty valuable.”

“It was incredibly valuable to get this insight at this time in my career. A lot of things have changed since the last time I was interviewing for jobs. Thank you very much for the needed update!”

GCS ENERGY TICKER

DJIA



WTI PRICE



HH SPOT PRICE



US PRODUCTION



RIG COUNT



Please visit spegcs.org for more information!

April

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BOARD OF DIRECTORS MEETING

THURSDAY, APRIL 21ST | 7:30 TO 10:30 AM

SPE HOUSTON OFFICE

10777 Westheimer Rd. | Ste. 1075 | Houston, TX 77042

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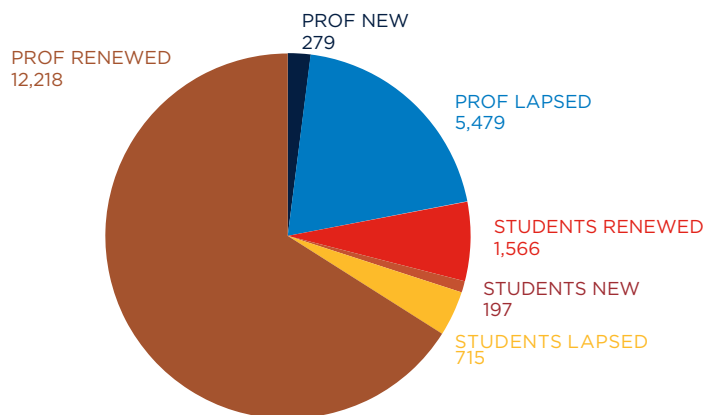
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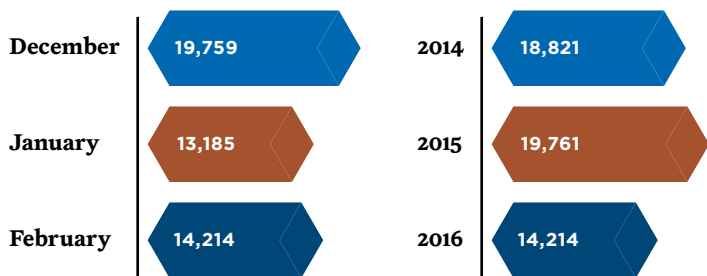
SPE-GCS MEMBERSHIP REPORT

Though February 2016

TOTAL SPE-GCS MEMBERSHIPS



CURRENT MEMBERSHIP TRENDS



STUDENT MEMBERSHIPS

STUDENTS	RENEWED	NEW	TOTAL
HCC	71	28	99
Rice	43	10	53
Texas A&M	973	56	1029
UH	433	60	493
Unassigned	46	43	89
TOTALS	1566	197	1763

*This chart does not reflect lapsed student memberships

DON'T MISS OUT
RENEW YOUR DUES **TODAY!**



VOLUNTEER SPOTLIGHT

ART SCHROEDER

This month, SPE Gulf Coast Section is delighted to feature Art Schroeder as the Volunteer of the Month.

Art started attending SPE meetings right out of college, but really got involved with the organization when he moved to Houston and joined the Gulf Coast Section in the mid-1980s. Over the years, he has held numerous positions with various committees, including the e-Commerce Study Group, which he co-founded and for which served as Vice Chairman and Chairman; the eBiz Conference & Tradeshow, which he co-chaired; and the Petroleum Leadership and Outlook Conference (PLOC) Committee.

Additionally, Art served the Gulf Coast Section as a board member from 2002-2006, was a member of the Long Range Planning Committee, and sat on the eSPE Advisory committee overseeing knowledge management and the website. He was also on the Strategic Planning Committee and the Chair of the Board of Financial Advisors, for which he served as Treasurer and Vice-Treasurer. He has been a frequent participant in SPE forums.

Art is the CEO of Energy Valley Inc., a company that provides money, marketing and management to commercialize and advance energy-related technologies. He has over 25 years' experience in operations, engineering, construction, strategy development, and crisis management.

Art is also a Principal of Safe Marine Transfer, LLC, a startup company funded and supported by DOE/NETL, RPSEA, DeepStar, Baker Hughes, and other industry partners to deliver subsea chemical storage (3000+ bbls) and injection at up to 10,000 fsw as a service.

Art has served on numerous professional, corporate and civic boards. He has published over 100 technical papers and has been granted patents on his innovations. Art graduated from Georgia Tech with BS and MS degrees in chemical engineering with a minor in environmental engineering, and from the University of Houston with an MBA, majoring in finance and international business.

Art is passionate about lifelong learning. He strives to learn something new every day, and his involvement with SPE helps facilitate this passion. He is thankful for the people he has met and the relationships he has built through his involvement with SPE.

Thank you for all of your contributions to SPE, Art!

THEN & NOW

COLUMN BY BUDDY WOODROOF

APRIL
1936

Governor Marland threatens to place state property across the street from Oklahoma City's capitol under martial law if city authorities continue trying to block planned drilling activities on the site.

Flooding originating from the Ohio River overwhelms oil production, refining, and marketing in western Pennsylvania, with damage estimates in the Pittsburgh area alone running as high as \$200 million (serious money in those days).

What are some of the hot exploration areas in North Texas circa 1936? Would you believe Shackelford, Callahan and Young counties (no "sideways" drilling and no shale targets at this time)?

Some relatively complex chemical compounds are being deployed to drill oil and gas wells in this era, but when lost circulation problems occur, drillers opt for "sophisticated" lost circulation materials such as wood fibers, shredded bark, cottonseed hulls, beet pulp, and sugarcane fibers.

East Texas crude oil - \$1.15/bbl

APRIL
1966

A reportedly hot, new oil-finding tool is on the verge of being released to the industry, namely a "borehole gravimeter," which is being touted to detect nearby reservoirs that have been missed in drilling.

The world's most unusual drilling structure is planned for downtown Los Angeles to conceal two rigs and equipment that will drill 64 wells on a 1.5-acre site, while looking for all appearances like a modernistic office building.

Meanwhile, Standard of California's Island Esther, the human-made island encompassing only 0.83 of an acre of space off Seal Beach, CA, will deploy two rigs to drill 128 wells on one of the world's tightest oil sites.

The Bureau of Mines reports plans to deepen a corehole that may have cut the thickest oil-shale deposit yet found in Colorado: 1,650 feet of continuous shale in the Piceance Creek basin.

US active rig count - 1,267

APRIL
1996

Tenneco, which previously reported plans to divest its shipbuilding unit, is now looking to sell, spin off, or form a strategic alliance for its energy unit.

French refiners are joining together to cut excess refinery capacity by closing or selling some of their refineries along the Mediterranean coast. (After all, the French are much better at refining cognac and sherry than they are at refining gasoline and diesel.)

An Oklahoma independent operator reports first gas sales from western Indiana's New Albany shale. (Don't look now, but there is renewed activity in this play.)

Two once-great players, UPR and Amoco, form a joint venture to press the limits of horizontal technology to ramp up Austin Chalk exploration and development across Louisiana.

**Light sweet crude oil - \$24.39/bbl;
Natural gas - \$2.34/MMbtu;
US active rig count - 747**

THE REST OF THE YARN

This month, we begin a look back at the legacy of Theodore Roosevelt.

Presidents come and go, but monuments are always with us. There's a reason Theodore Roosevelt is the only 20th century president whose face is carved into Mount Rushmore, the only one who could hold his own with Washington, Lincoln and Jefferson. Roosevelt not only remade America, but charmed the pants off everybody while he did it. And more than a century after he left the White House, in 1909, the collective memory of his strength, intellect and charisma still lingers.

How many times over the years have Americans settled their affections on some thoughtful, vigorous man who reminded them a

bit of Roosevelt? What was Ernest Hemingway if not a later edition of Teddy, without the burden of office but still equipped with TR's literate machismo. Is it any surprise when recent presidents try to borrow a bit of his personal appeal? Bill Clinton had Teddy's bust on his desk. Barack Obama laid out his vision of middle-class values in the same Kansas town where TR had spoken of his own reform plan as "the square deal."

Teddy stays with us because he seems so much like one of us. Although he was born in 1858, it's the 20th century he decidedly belongs to, the century he brought America into on his terms.

When he arrived at the White House, he already understood the

energies that had been building in the US for decades since the Civil War: the explosion of its industrial power, as led by the likes of Rockefeller, Carnegie and Ford. Along with those energies came the urge by those same industrialists to expand to the point of monopolization. He used his presidency to temper those energies in ways that left the US profoundly changed. Again and again, he framed the questions we still ask: How much influence should the government have over the economy? How much power should the US exert globally? What should we do to protect the environment? The answer to those questions that he kept coming up with was “more,” and not everyone agreed with him, nor do they today.

Next month, we examine where TR’s impact was the greatest.

APRIL QUIZ

Who was the first Soviet woman petroleum engineer?

ANSWER TO MARCH’S QUIZ

The average octane rating of “premium grade” gasoline, circa 1936, was 75, with the lowest-grade gasoline at that time having an average octane rating of 52. (Is it any wonder why they needed lead antiknock additives in the gasolines of that era?)

FEBRUARY’S WINNER

Judy Snelling with BHP Billiton Petroleum

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

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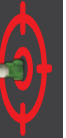
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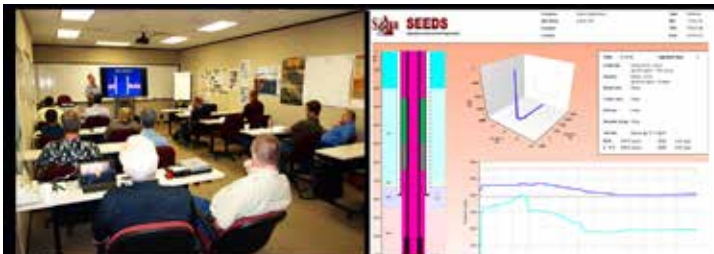
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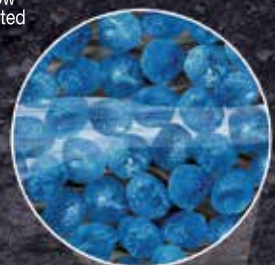
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NORTHSIDE

Artificial Lift for the Life of Wells in Unconventional Plays

Operators of unconventional wells have different approaches to the field development from well construction, completion, stimulation, and finally production. The production phase of unconventional wells from the early flowback to the lower flow rate at the late life of the well brings significant challenges to operators in determining the timing and type of artificial lift system to use. The steep production decline is not the only problem that needs to be addressed in the production phase. To complicate the artificial lift operations, there is often an increase in the gas-to-liquid ratio (GLR) and significant amount of solids.

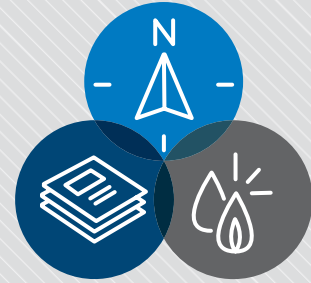
While the flexibility of artificial lift systems has been significantly broadened with new technologies, there is still not a silver bullet or a unique system that can effectively address the challenges throughout the life of the well. This presentation includes case studies from operations on different unconventional plays using transitional artificial lift systems. It will also look at the advantages and disadvantages from the operation standpoint and the estimated comparison of cumulative production among different artificial lift approaches for a well.

DIEGO A. NARVAEZ



Diego A. Narvaez is North America Technical Manager, Artificial Lift, for Schlumberger. He has 23 years of experience in the oil and gas industry, working first for an operator and currently with a service company. Narvaez has held a number of technical roles in several international assignments with REDA Pumps and Schlumberger since 1996. He has a degree in mechanical engineering from the Escuela Politécnica Nacional, Quito-Ecuador and an MBA from the University

of Phoenix. Narvaez holds several patents on technology inventions related to artificial lift.



EVENT INFO

Tuesday 4.5.16

11:30 AM - 1:00 PM

SPEAKER

Diego A. Narvaez
Technical Manager, Artificial Lift
Schlumberger

LOCATION

SWN
10000 Energy Dr
Spring, TX 77389

EVENT CONTACT

Sumitra Mukhopadhyay
281-784-5742
smukhopadhyay
@superiorenergy.com

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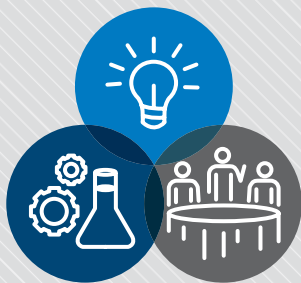
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EVENT INFO

Thursday 4.7.16

11:30 AM - 1:00 PM

SPEAKERS

Nick Tillmann

Director, Client Acceleration
Energy Sector
Houston Technology Center

Bill Capdevielle, P.E.
President & Founder,

Bill Capdevielle Enterprises LLC
Board of Advisors, Magna Imperio
Systems Corporation

LOCATION

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

EVENT CONTACT

Skip Davis
281-359-8556
skip.davis@pega.com

MEMBERS

\$40

NON-MEMBERS

\$45

RESEARCH & DEVELOPMENT

Houston Technology Center Supports Energy Innovation and Entrepreneurs: Putting an End to Desalination Challenges

Houston Technology Center has developed a partnership with SPE. The center's Nick Tillman will give us a short presentation on what HTC is all about. Bill Capdevielle is on the board of a company HTC has assisted.

One would be hard-pressed to say that water management isn't a significant problem in the upstream oil and gas industry. It represents a huge operating expense and a socio-economic challenge to the industry. What if there was a simple process for treating produced water to near-drinking water quality directly at the wellsite? The positive impact on OPEX and cash flow could drastically drive down the break-even oil prices for much of US onshore production. What if the process had an extremely low energy footprint and an unusually high process efficiency? This event will be the first public presentation of a new technology dubbed Electrochemical Nano-Diffusion (END).

Magna Imperio Systems Corp. is honored to be the first client of the Houston Technology Center - North Campus in The Woodlands.

NICK TILLMANN



Nick Tillmann is Director of Client Acceleration for the Energy Sector at the Houston Technology Center. Named by *Forbes* as one of "Ten Technology Incubators Changing the World," the Houston Technology Center provides education, insight and access to capital that entrepreneurs need to move toward commercialization. Tillmann is a seasoned energy executive whose experience includes more than 25 years with ConocoPhillips. He managed the company's \$500 million global petroleum coke business, led strategy management for European businesses, and started the company's operations in Poland. Tillmann has served as Chairman of the Biofuels Taskforce for the Great Houston Partnership, and he is a Director with Silver Fox Advisors.

BILL CAPDEVIELLE, P.E.



Bill Capdevielle is an oil and gas consultant with over 40 years' experience. He earned a BS in petroleum engineering from the University of Southwestern Louisiana in 1971, and an MS in systems management from the University of Southern California in 1975. He retired from Mobil in 2000 and from Hess in 2014. Capdevielle specializes in finding nanotechnologies used in other industries and applying them to the upstream oil and gas industry. He sits on the Board of Advisors for a start-up nanotechnology company, Magna Imperio Systems Corporation, and offers consulting in field development planning, facility operability, and project support. Capdevielle is a Registered Professional Engineer in Texas and Louisiana.

INTERNATIONAL

How Low Prices Are Shaping Corporate Strategy

In a US\$30/bbl world, the priority for companies in 2016 is survival. Budgets continue to be slashed and projects delayed. Further deferrals can be expected, but companies also need to start thinking about how to adapt their portfolios to make money at low prices as well as high. Could this be a golden moment for companies to invest against the cycle to reposition portfolios for lower prices and lower costs?

RUARAIKH MONTGOMERY



Ruaraidh Montgomery has over 10 years of upstream commercial valuation experience with Wood Mackenzie. He is a Principal Analyst in its Corporate Research team, which provides detailed analysis and opinion of the operational performance, strategy, and future potential of 60 of the world's largest E&Ps. Prior to joining Wood Mackenzie, Montgomery spent 2 1/2 years working as an engineer with Hess.



EVENT INFO

Tuesday 4.12.16
11:30 AM – 1:00 PM

SPEAKER

Ruaraidh Montgomery
Principal Analyst
Wood Mackenzie

LOCATION

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

EVENT CONTACT

Barry Chovanetz
214-477-5771
bchovanetz@yahoo.com

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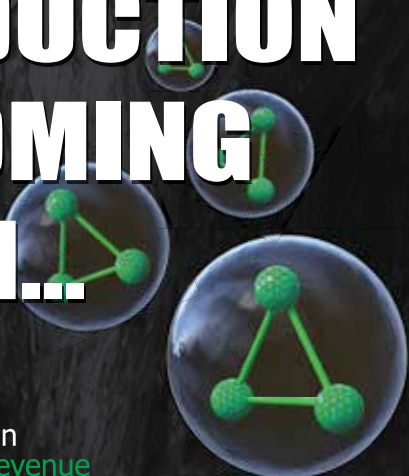
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GENERAL MEETING

The Honorable Ryan Sitton, Texas Railroad Commissioner

The Honorable Ryan Sitton, a member of the Texas Railroad Commission, will present this month's program, which is entitled "The Energy Race". He will cover topics including important issues facing the Texas oil and gas industry and the role the Texas Railroad Commission will play in resolving those issues.

HONORABLE RYAN SITTON



Ryan Sitton is a native Texan who grew up in the Irving area. At Texas A&M University, he earned a degree in mechanical engineering, and he met his wife, Jennifer. Following college, Sitton went to work as an engineer in the energy industry.

In 2006, the Sittons founded Pinnacle Advanced Reliability Technologies, an engineering and technology company focused on reliability and integrity programs for the oil, gas and petrochemical industries. Since 2006, Pinnacle has grown substantially, and today it employs more than 600 people. In three separate years, *Inc.* magazine recognized Pinnacle as one of the 1,000 fastest-growing, privately held companies in the world. For four consecutive years, Pinnacle was one of the recipients of the coveted Aggie 100 designation, which celebrates and recognizes the fastest-growing Aggie-owned or Aggie-led businesses in the world.

With almost 20 years of experience in the oil, gas, and petrochemical industry, Sitton is considered a leading expert in his field, having served on the board of several energy trade associations and as an expert in both regulatory and civil court cases. He currently serves on the board of the Texas A&M Energy Institute.

Last year, Sitton was recognized as one of the Houston area's 40 most influential leaders under the age of 40. In addition, he became the youngest person ever identified as a Distinguished Engineering Alumnus by Texas A&M. He is the first engineer to serve as a Railroad Commissioner in over 50 years.

ONLINE REGISTRATION: spegcs.org/events/3087/



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EVENT INFO

Thursday 4.14.16

11:30 AM - 1:00 PM

SPEAKER

Honorable Ryan Sitton
Commissioner
Texas Railroad Commission

LOCATION

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

EVENT CONTACT

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

MEMBERS

\$35

NON-MEMBERS

\$40

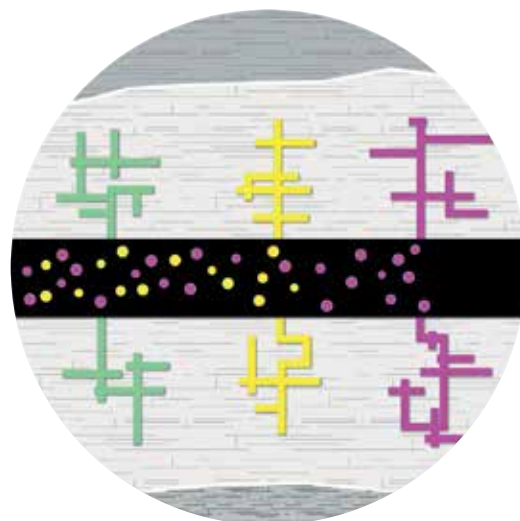


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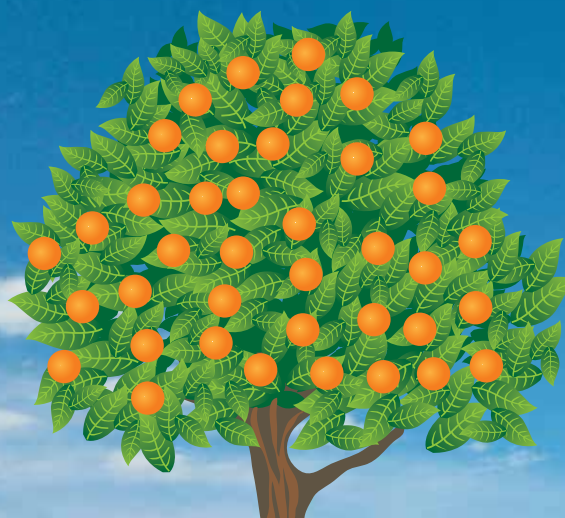
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WESTSIDE

Effect of Hydraulic Fracture Growth on Nearby Natural Fractures

Nearly all fracturing literature attributes the productivity of unconventional reservoirs to the presence of a distributed fracture network within the body of the reservoir. The hydraulic fracture is assumed to be the main conduit connecting these natural fractures to each other and to the wellbore.

Based on a rigorous analytical solution, this presentation reviews the conditions required to activate natural fractures that lie within the body of the formation and away from the propagating hydraulic fracture. It will show that the most likely cause of the activation of these natural fractures is by tensile extension, which occurs when the natural fracture falls within the influence zone of the tip of the growing hydraulic fracture. This causes an increase in the effective formation permeability around the main fracture, which ultimately results in increased well productivity. This presentation will show that single fractures are more likely to cause natural fracture activation than multiple fractures created in plug-and-perf completions. Furthermore, natural fractures closer to the hydraulic fracture are more likely to become activated by it. Some of the findings in this presentation differ from commonly held beliefs in the fracturing community.

ALI DANESHY



Ali Daneshy is President of Daneshy Consultants International and adjunct professor in the Cullen College of Engineering at the University of Houston, where he teaches a graduate course on hydraulic fracturing. He has over 45 years of experience in the technology and application of hydraulic fracturing and has published numerous papers on the subject. He is co-Editor-in-Chief of the *Hydraulic Fracturing*

Journal, a quarterly publication dedicated to the technology of hydraulic fracturing. His main focus is on research, consulting, and teaching short courses related to horizontal well fracturing



EVENT INFO

Wednesday 4.20.16

11:30 AM - 1:00 PM

SPEAKER

Ali Daneshy
President

Daneshy Consultants International

LOCATION

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

EVENT CONTACT

Stephen Loving
713-328-2244
Stephen.loving@corelab.com

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EVENT INFO

Thursday 4.21.16

11:30 AM - 1:00 PM

SPEAKER

Kerry Sandhu
Principal Advisor, Business
Consulting Group
Gaffney, Cline & Associates

LOCATION

Sullivan's Steakhouse
4608 Westheimer Rd
Houston, TX 77027

EVENT CONTACT

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

MEMBERS

\$35/\$45 Walk-In

NON-MEMBERS

\$40/\$45 Walk-In

RESERVOIR

Cost-Effective Recovery Optimization of Waterfloods

In a low oil price environment, minimizing costs while maximizing recovery typically becomes a high priority for most operators. There is a need to focus on reservoir surveillance and monitoring to improve existing waterfloods rather than focusing on exploration and the design of new secondary recovery schemes.

This talk will focus on quick analytical methods for performing waterflood diagnostics on fields and patterns to ensure maximum sweep efficiency is being achieved with current waterflood field development plans. It will also demonstrate a reservoir engineering workflow that is used to conduct surveillance and analyze waterflood performance.

By conducting analytical waterflood diagnostics and optimization potential on waterflood field case studies, the concept of communication analysis will be introduced at a pattern/ individual well level to pinpoint areas with upside potential (water cycling/channeling, poor communication, etc.) where techniques such as gel treatments and pattern reconfigurations would be ideal. Lastly, a case study outlining various water shutoff techniques used to increase oil recovery from mature waterfloods will be presented.

KERRY SANDHU



Kerry Sandhu is a Reservoir Engineer/Project Manager with over 14 years of technical experience in the international oil and gas industry. In addition, he has over five years of operations manager experience and has led two international subsurface consulting offices in Calgary and London. Sandhu has developed expertise in reservoir characterization/analytcs/simulation in the areas of primary production of light and heavy oil, horizontal multi-stage frac wells for shale/tight oil, light/heavy tight oil, water and gas flooding, and EOR such as CO2, polymers, and thermal recovery (steam, CSS, SAGD). Upon completing 100+ waterflood optimization simulation projects, he showcased his expertise by teaching an industry-respected waterflood surveillance/optimization course to 300+ professional geologists and engineers in the last few years, as well as heavy oil and EOR courses.

Sandhu is a Principal Advisor in the Business Consulting group of Gaffney, Cline & Associates. He uses his technical reservoir engineering experience to provide operational and strategic insight to business consulting projects.

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BUSINESS DEVELOPMENT

Royalty Transactions: Overcoming Gaps in a Downside Market

Please join us at 5 PM April 27 at the Four Seasons Hotel in Houston as Scott Noble discusses his success in managing the ups and downs of our industry through the management of royalty and mineral interests. He will also discuss the various gaps that have to be overcome to successfully close transactions in this environment.

SCOTT NOBLE



Scott Noble's 30 years of experience in the oil and gas industry began with exploration and transitioned into mineral and royalty acquisitions. He is the Founder, President and CEO of Noble Royalties and Compass Royalty Management. Since 1997, Noble Royalties has completed more than 200 acquisitions in over 145,000 distinct royalty interests in 30 states with a value greater than \$2 billion — making Noble one of the nation's largest independent oil and gas royalty buyers in the industry. Compass Royalty Management handles all aspects of managing the royalty and mineral estates. Noble studied geology at the University of Texas in Austin.

STUDENTS/RETIRED/TRANSITIONING: \$10



EVENT INFO

Wednesday 4.27.16

5:00 PM - 7:00 PM

SPEAKER

Scott Noble
Founder, President and CEO
Noble Royalties and Compass
Royalty Management

LOCATION

Four Seasons Hotel
1300 Lamar St
Houston, TX 77010

EVENT CONTACT

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

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\$40/\$50 Walk-In

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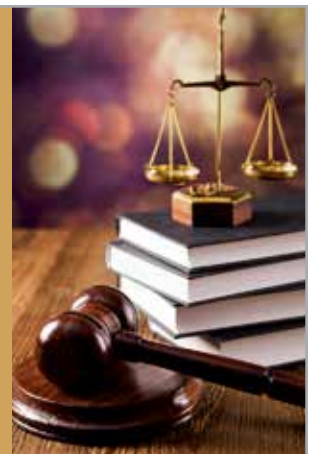
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EVENT INFO

Wednesday 4.27.16

11:30 AM - 1:00 PM

SPEAKER

Dr. Sau-Wai Wong
Advisor for Unconventional
Resources Technology
Shell

LOCATION

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

EVENT CONTACT

Shree Krishna
919-413-9670
shreekrishna@gmail.com

MEMBERS

\$35/\$40 Walk-In

NON-MEMBERS

\$35/\$40 Walk-In

COMPLETIONS & PRODUCTION

Practical Hydraulic Fracturing Stimulation Design Models

The technology of multi-stage, multi-frac horizontal wells (MFHW) is arguably the most important technology that unlocks the potential of unconventional shale gas and liquid rich shale oil systems. The fracture stimulation process involves placing multiple fractures stage-by-stage along the horizontal well using diverse well completion technologies. However, there is still a lack of understanding on how multiple hydraulic fractures would grow and develop in highly heterogeneous rock formations.

Clearly, the scarcity of adequate fracture stimulation design models has not hindered the successful application of MFHW in exploiting unconventional resources. The technology is typically appraised and continuously improved in the field –made possible because of the large number of wells employed. This field optimization process is not always cost effective, and the present low oil price environment acutely points to the need for competent design models that will aid in the application design and optimization of MFHW.

It is challenging to model the development of these fractures, which are subject to the dynamic process of geomechanical stress changes induced by the fracture stimulation treatment itself, and the interaction with multiple other processes, including wellbore mechanics and fluid mechanics. For practical engineering application, we aim to capture key physical processes in computation models, at least in the “first-order;” apply a “manageable” numerical approach, and rely on appropriate model calibration with field data.

This presentation offers a brief overview of one such practical computation modeling approach, outlines the coupled processes that are important, and paints the vision to leverage the model and field data (e.g., injection pressures and microseismic data) to gain better understanding and improve the design of multi-fracture stimulation.

DR. SAU-WAI WONG



Sau-Wai Wong is Advisor for Unconventional Resources Technology in Shell's R&D organization based in Houston, and the Principal Technical Expert on Geomechanics for the company's worldwide operation. He started his career in Shell as a researcher in The Netherlands some 25 years ago, and subsequently took up multiple international assignments in Oman, The Netherlands, Malaysia and US. He was the Subsurface Technology Manager for Unconventional Oil and later the R&D Manager for Unconventional Gas Technology. He is Honorary Professorial Fellow at the School of Earth Sciences, The University of Melbourne (Australia). He holds a BS in civil engineering and a PhD in engineering from The University of Manchester, UK.

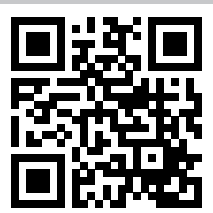
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Networking and Mentoring to Build Beneficial Relationships

Networking is one of the most powerful tools for accelerating and sustaining successful careers. Networking is about making the right connections and building beneficial relationships. Learn how to grow your networking skills to influence change and build collaborative relationships that can add value for both your career and for your employer.

Mentoring will always be an integral part of our development. This relationship-based process for the transmission of knowledge (relevant to work, career or professional development) enables us to gain personal and professional skills to face the challenges ahead. Mentoring's importance becomes evident as we recognize the value of the networking, advice and support a mentor can give us.

C. SUSAN HOWES



C. Susan Howes is a reservoir management consultant in Houston. She was formerly a reservoir management consultant at Chevron, with a prior role as learning and organizational development manager at Anadarko. She has co-authored several papers and articles on uncertainty management, risk management, and talent management for SPE conferences and publications. Howes is chair of the SPE Soft Skills Committee and previously served as SPE Regional Director for Gulf Coast North America. She received the SPE Distinguished Service Award and is an SPE Distinguished Member. Howes holds a BS degree in petroleum engineering from the University of Texas.

PEGGY RIJKEN



Peggy Rijken is the team leader for the Productivity Enhancement team in the Reservoir and Production Engineering department at Chevron, with prior assignments as a hydraulic fracture engineer and as a geomechanics specialist. Rijken holds a PhD in petroleum engineering from the University of Texas and a Master's in mining and petroleum engineering from Delft University of Technology in The Netherlands. Rijken serves on the SPE Talent Council Committee and is chair for the Annual Technology Conference and Exhibition SPE Reservoir Engineering Committee. She previously served on the ATCE Well Completions Committee and served on the ATCE SPE Well Stimulation Committee prior to becoming the committee chair. Rijken also serves as a technical editor for the SPE Production and Operations SPE editorial review and is the 2015 recipient of the UT Austin PGE Distinguished Alumni Award.

EVENT INFO

FRIDAY

4.8.16

8:30 AM - 4:30 PM

SPEAKERS

C. Susan Howes
Reservoir Management Consultant

Peggy Rijken
Team Leader - Productivity
Enhancement Team
Chevron

LOCATION

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

EVENT CONTACT

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

REGISTRATION

speecs.org/events/3190/

MEMBERS

\$50/\$60 Walk-In

NON-MEMBERS

\$55/\$60 Walk-In

The SPE-GCS auxiliary will not have a formal luncheon and program in April. Meet us at Mia Bella for conversation and friendship, with separate checks. Please note a new e-mail address for Nancy Hill.

EVENT CONTACTS

Evelyn Earlougher 281-419-1328 earlougher@comcast.net	Nancy Hill 281-435-1619 ben-81-rth@comcast.net
---	--

DEADLINE FOR RSVP

Tuesday, April 5

EVENT INFO

TUESDAY

4.8.16

EVENT LOCATION

Mia Bella Trattoria
110 Vintage Park Blvd
Houston, TX 77070

Accelerated Learning Tutorial: Introduction to Flow Assurance

This accelerated tutorial will introduce flow assurance to engineers and geoscientists who may be aware of it, but are not familiar with the salient details. It will cover the basic business and technical aspects of why this topic is important in field development. The event will also include a discussion of the origin of flow assurance, as well as the primary areas of manifestation of flow assurance challenges. A look at how these challenges are addressed will include an introduction to the software simulation tools that represent state-of-the-art solution methodology. Finally, case studies will demonstrate real-life instances of how flow assurance problems are assessed and the appropriate engineering analysis deployed. Attendees will receive a certificate for eight Professional Development Hours (PDH).

DR. IVOR ELLUL



Dr. Ivor Ellul began his career in the oil and gas industry in 1980, in West Germany, as a design engineer on pipeline and storage tank systems. After specializing in the modeling of multiphase flow in pipelines, he worked for a number of years in numerical modeling of single- and multi-phase pipelines. He has conducted a comprehensive number of pipeline simulation studies for clients worldwide. Recent experience includes various executive positions in the upstream area of the oil and gas industry.

Ellul is visiting Professor to the Petroleum Engineering Department of Imperial College London, where he lectures the MS course on pipeline and process engineering. He currently serves as Chairman of the Pipeline Simulation Interest Group as well as Chair of the SPE-GCS.

Ellul holds a BS in mechanical engineering from the University of Malta and MS and PhD degrees in petroleum engineering from Imperial College London. He is a registered Chartered Engineer in the United Kingdom and a registered Professional Engineer in the state of Texas.

SPE-GCS Networking Event & Membership Drive

Please join us for the SPE-GCS Networking Event & Membership Drive! Hors d'oeuvres and beverages will be served, and there will be a cash bar. Attendance is free of charge.

REGISTRATION LINK
spegcs.org/events/3164/



EVENT INFO

THURSDAY

4.14.16

8:30 AM – 4:30 PM

SPEAKER

Dr. Ivor Ellul
Managing Director
CiSK Ventures, Ltd.

LOCATION

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

EVENT CONTACT

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

REGISTRATION

spegcs.org/events/3189/

MEMBERS/NON-MEMBERS

\$350

A limited number of subsidized passes for this one-day tutorial are available for students/retired professionals and professionals with no corporate support.

EVENT INFO

TUESDAY

4.14.16

6:00 PM – 9:00 PM

EVENT LOCATION

Houston Texans Grille – CityCentre
12848 Queensbury Ln, Ste 208
Houston, TX 77024

EVENT CONTACT

E. Faye York
efayeyork@aol.com

Making Better Appraisal and Development Decisions: Using DRA & VOI

Behavioral science suggests that human nature favors decisions that satisfy (good enough is good?), not necessarily those that optimize. Often value is left on the table, particularly when risks & uncertainties are involved.

More than fifty years ago an approach was born which helps to overcome this human limitation, namely Decision Risk Analysis (DRA), which helps us to optimize not just survive. DRA is a structured process involving both facilitation and modelling that helps stakeholders optimize their decision making in the face of risks and uncertainties.

This presentation will introduce DRA and also focus on one tool in the armory known as Value of Information analysis (VOI). The when, why and how of VOI will be explained. If you are facing a number of decisions where outcomes are uncertain and there is an opportunity to acquire additional information which costs money and/or time, then you should consider undertaking a VOI analysis and this talk will be of interest to you.

PETE NAYLOR

Pete Naylor has a Physics BSc, a Chemical Engineering PhD and is a Chartered Scientist, a Chartered Engineer and a Fellow of the Institution of Chemical Engineers. He has 30 years of experience in oil & gas and for the past 15 years has led DRA studies to optimize significant investment decisions. He also leads Project Risk Management studies helping managers to achieve their objectives on time and budget. Pete has worked within integrated teams on major decisions including field appraisal and development strategies, refurbishment of facilities and asset integrity management.

STUDENTS/TRANSITIONING: 5 Slots Available

EVENT INFO

WEDNESDAY

4.20.16

11:00 AM - 1:00 PM

SPEAKER

Pete Naylor

SPE Distinguished Lecturer, BG Group

EVENT LOCATION

1415 Louisiana St, 39th Floor
Houston TX 77002

EVENT CONTACT

Sahil Malhotra

832-854-7885

sahil.malhotra@chevron.com

MEMBERS

\$20/\$30 Walk-In

NON-MEMBERS

\$30

The International Sustainable World Project (I-SWEEEP)



SPE-GCS will volunteer to judge at the I-SWEEEP science fair competition. I-SWEEEP, The International Sustainable World (Energy, Engineering, and Environment) Project, is open to high school students. It is the largest science fair event of its kind worldwide. With the support of leaders in industry and higher education, I-SWEEEP works with local, national and international science fair organizations to bring top-ranking participants and qualifying projects to Houston each year.

SPE-GCS is looking for 5-10 judges to be part of I-SWEEEP. Volunteer judges will evaluate research projects of young scientists. If you are interested, please register now. If you have any questions or concerns, marissa.brower@gmail.com.

EVENT INFO

FRIDAY

4.29.16

9:00 AM - 1:00 PM

2:00 PM - 5:30 PM

LOCATION

George R. Brown Convention Center
1001 Avenida De Las Americas
Houston, TX 77010

EVENT CONTACT

Marissa Davis

979-285-7209

marissa.brower@gmail.com

MORE INFORMATION

isweeep.org/judge/

Oil Patch Orientation

This seminar is one of the most popular SPE programs! The course is designed as a nontechnical, audiovisual guided tour through the oil patch, illustrating the basic equipment and techniques used in the discovery, development and production of petroleum.

Outline:

- Introduction
- The economics and future of the petroleum industry
- Theory of the origins of hydrocarbons
- Reservoir parameters (eg: porosity/permeability)
- Geology of petroleum and geophysics
- Drilling basics
- Well logging
- Well completions
- Reservoir drive mechanisms
- Production equipment (sub-surface and surface)
- Midstream and downstream topics

JOHN FARINA provides petroleum engineering consulting and technical training to the international and domestic petroleum industry. He has over 30 years' experience in production and reservoir engineering. He has a BS in petroleum engineering from West Virginia University, and has previously worked for Shell Oil and Schneider and Merkle Associates.

RON HINN is a Vice President of PetroSkills, a worldwide leader in training and development of E&P technical professionals. He specializes in knowledge management, competency development and technical training. A petroleum engineering graduate of Tulsa University, Hinn is very active within SPE, having served in positions at the worldwide, regional and local levels.

C. SUSAN HOWES is a reservoir management consultant in Houston. She was formerly a Reservoir Management Consultant at Chevron, with a prior role as Learning and Organizational Development Manager at Anadarko. Howes is chair of the SPE Soft Skills Committee. She holds a BS degree in petroleum engineering from the University of Texas.

KEN ARNOLD is a Senior Technical Advisor at WorleyParsons with 50 years of experience in projects, facilities and construction related to upstream oil and gas developments. He spent 16 years at Shell in engineering and engineering research management. In 1980, he formed Paragon Engineering Services, which had a staff of 600 when it was acquired by AMEC in 2005.

MARTY STETZER leads EKT Interactive Inc. in Houston, an e-training company specializing in design and delivery of large-scale, customized safety and technical content training programs. He has worked with national and international oil and gas companies in the Middle East, Russia, India, Italy and Europe. Stetzer has a BME from Kettering Institute in Michigan and an MBA from Carnegie Mellon University.

DR. TERRY N. GARDNER is a mechanical engineer who spent over 35 years with Exxon and BP working to advance deepwater technology. He has taught undergraduate engineering at Cornell and Rice.

EVENT INFO

TUESDAY

5.17.16

8:30 AM – 5:30 PM

SPEAKERS

John Farina
Ron Hinn
C. Susan Howes
Ken Arnold
Marty Stetzer
Dr. Terry N. Gardner

LOCATION

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

EVENT CONTACT

Regina Eco
reginaeco@gmail.com

MEMBERS/NON-MEMBERS

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Where Are They Now?

PAST SCHOLARSHIP WINNERS

The Scholarship Committee recently conducted a survey of past recipients of the SPE-GCS scholarship. If you're considering donating to the SPE-GCS scholarship fund or hiring an SPE-GCS scholarship winner for a summer 2016 pre-college internship, you'll be glad to know that the program has enjoyed considerable success over the past six decades. Here's winner **Thomas Belsha's** story:

I decided to pursue petroleum engineering in 1998 and received an SPE-GCS scholarship. That scholarship gave me the opportunity to work as a "marine roustabout" for Diamond Offshore on a drilling platform, about 100 miles offshore in the Gulf, the summer between high school and college. That was a fantastic experience and increased my desire to pursue petroleum engineering.

Getting as much practical, hands-on field experience prior to and during college is one of the best ways to enhance your career. The Petroleum Department at Texas A&M was very focused on us finding internships. Because of my SPE scholarship internship experience, I was able to get a field internship with Burlington Resources. I worked as a lease operator in the Louisiana swamps and was invited back as a Production Engineer.

My final summer, I worked as a reservoir geology intern in Farmington, NM, for Burlington in the San Juan Basin. I was offered a full-time position in for Burlington and spent four years working as a Production/Completion Engineer.

I shortly transferred into Business Development, and after Burlington was acquired by ConocoPhillips, I spent a year in the field as a drilling engineer/company man in the ETX Deep Bossier play and moved to Reservoir Engineering. In 2007, I took a position as a BD Engineer with LINN Energy. I then transferred to Operations and spent the next three years as a Production Manager over field operations.

In 2014, I started an Integration/Data Management team to improve our integrations and data issues resulting from over 60 acquisitions. I lead a multi-disciplined team of operations, accounting and IT personnel.

The SPE scholarship I received helped me decide to pursue petroleum engineering, and the summer internship after high school gave me a great advantage early in my career. My advice to students is to make a plan and strive toward that goal. Even if the plan changes later on, you will learn and grow much more by working toward the path you chose. Also, be a sponge and get significant field experience early in your career.

THOMAS BELSHA



Thomas Belsha is an Integration Manager at LINN Energy. He graduated from Katy Taylor High School in 1998 and then earned a BS in petroleum engineering from Texas A&M University.

For Corporate Registration & Information:
spegcs.org/sponsorship-opportunity/

For Individual Scholarship Donation Information:
spegcs.org/spegcs-scholarship-fund/

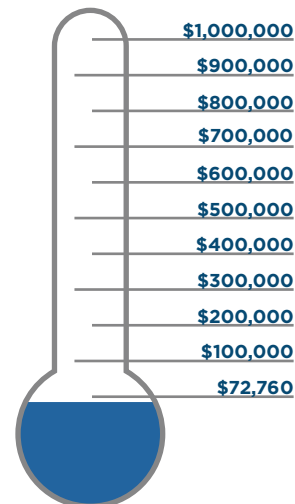


SPE-GCS Scholarship Fund Update

As promised on the SPE-GCS Scholarship Fund Page, we are excited to announce the first status update of our fundraising efforts – as of February 18, 2016 we have raised \$72,760 to support our scholarship program! We thank all our donors for their support and generosity.

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 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 fellow 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!

SPE-GCS Scholarship Fund Status
 Raised 74,960 as of March 4, 2016



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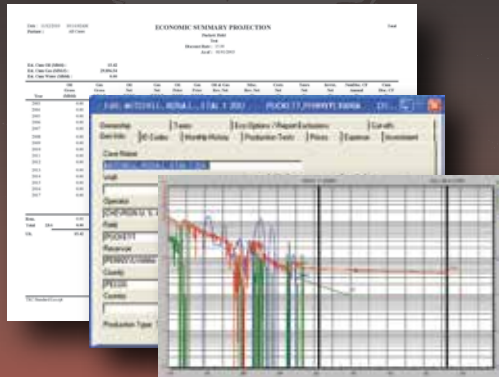
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Members in Transition Initiative

THIRD SEMINAR SERIES

The SPE Members in Transition Seminar Series includes topics of interest to SPE members who are between jobs during the industry downturn or who are looking for new career opportunities. The agenda for the third seminar in the series is below.

Program 1: Intellectual Property for Startups and Small Businesses

To succeed in today's economy, most new ventures need an effective intellectual property (IP) strategy that addresses registering intellectual property, publishing information, and preserving information as a trade secret. Learn the basics to help you create an IP strategy, including how to perform cost-benefit analysis regarding both domestic and foreign IP filings. The presentation includes a case study of the application of petroleum E&P technology into other industries to create dual use technology.



GARY KATZ received his law degree from Rutgers University-Newark and his geology degree from Rutgers University-New Brunswick. Prior to his current role as Partner at FisherBroyles, he worked as a patent attorney for Matthews, Lawson, McCutcheon & Joseph, PLLC and served as in-house patent counsel at ExxonMobil.

Program 2: Texas Workforce Commission and Workforce Solutions Resources

The Texas Workforce Commission and Workforce Solutions offers a wide variety of resources for those in career transition, including unemployment information and seminars covering topics such as writing resumes, interviewing, and rebranding your skills. Many services are offered via the Internet.



SAMMY CAROLINA received his degree from OU. He provides unemployment information to employers, community organizations, elected officials, claimants, and labor organizations.



CHRYSTAL BROUSSARD received her degree from OU. She provides unemployment information to employers, community organizations, elected officials, claimants, and labor organizations.

Program 3: Managing Your Career as a Business Enterprise

In this seminar, we will explore an integrated, strategic, lifelong career management system. This system will enable you to build, operate and navigate the business of your career to achieve your maximum, authentic professional success.



KIM SAWYER has over 20 years of experience starting businesses, leading companies, and being involved in almost every aspect of a business enterprise. He owns and manages theWealthSource®, a firm that provides coaching programs for individuals, teams and enterprises. He holds an entrepreneurship BBA from UH and an MS in organizational development from UT.

EVENT INFO

FRIDAY

4.1.16

8:00 AM - 1:00 PM

SPEAKERS

Gary P. Katz
Managing Partner
Katz Law Group, LLC.

Sammy Carolina
Regional Unemployment Specialist
Texas Workforce Commission

Chrystal Broussard
Workforce Account Executive
Workforce Solutions

Kim Sawyer
Owner
theWealthSource®

LOCATION

SPE Gulf Coast Office
Training Room
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Houston, TX 77042

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c.susan.howes@gmail.com

Alex McCoy
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MEMBERS/NON-MEMBERS


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NOTE


Registration is capped at 30

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Cost-Saving Innovations to Improve Drilling Economics and Well Integrity

ANNUAL DRILLING SYMPOSIUM

The Annual Drilling Symposium is hosted by the Drilling Study Group to disseminate knowledge and technology to achieve the many objectives of drilling operation, including understanding risk and hazard mitigation, real-time application, and new technologies. This year, we focus on cost-saving innovations to improve drilling efficiency. This symposium is also a great opportunity to network with oil and gas industry professionals in an engaging and dynamic environment.

PRELIMINARY AGENDA

Keynote Speaker - Steven L. Mueller, Southwestern Energy CEO

Adapting Wells Automation Efforts to a Low Oil-Price Environment

- David Blacklaw, Shell

Evaluating Barriers to Manage Drilling Cost and Risks - Prosper Aideyan, TOTAL

Onshore Well Control Intervention Trends - Daniel Eby, Blowout Engineers

Next Generation Kick Detection During Connections: Influx Detection at Pumps Stop (IDAPS) Software - Brian Tarr, Shell

Well Integrity: What Completions and Production Engineers Need from Drillers to Make the Well Successful - George E. King, Apache

From the asset to the enterprise: scalable and actionable real-time analytics

- Moray Laing, SAS

Stuck Pipe Prediction Using Automated Real Time Modeling and Data Analysis

- Curtis Cheatham, Weatherford

From Historical Drilling Data to Optimized Drilling Operations Using an Integrated Drilling Guidance System and Novel Machine Learning Algorithm

- Enrico Ladendorf, Pason Systems

An Instrumented Top Drive Sub System: Enabling Greater Drilling Efficiencies Via Innovative Sensing Capabilities - Thomas M. Bryant, APS Technology Inc.

Double the performance improvements When You Combine Automation and Optimization - Tony Pink, National Oilwell Varco

Drilling Optimization and Hazard Mitigation Solutions

- Akshay Sagar, Halliburton

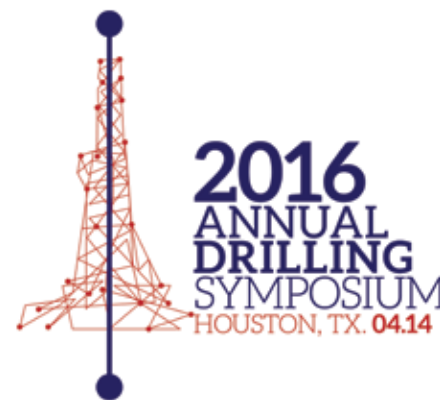
Applied Drilling Automation With the Goal to Improve Safety and Performance

- Eric Maidla, TDE Petroleum Data Solutions, Inc.

High Frequency Drilling Measurements and Drilling System Model Work Together

- Yezid Arevalo, Schlumberger

EVENT INFO



THURSDAY

4.14.16

8:00 AM - 5:00 PM

HOSTED BY

Drilling Study Group

LOCATION

Southwestern Energy Office
10000 Energy Drive
Spring, TX 77389

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NON-MEMBERS

\$115/\$125 Walk-In

EVENT RECAP

On February 13, twelve YPs volunteered at the MathCounts competition to help motivate students do well in math. MathCounts is a competitive middle-school math program that promotes mathematics achievement nationwide. Participating schools select students to compete individually and as part of a team in written and oral competitions. After a full morning spent solving math problems and an exciting countdown round, local winners were selected. Congratulations to all the participants! ▼



MathCounts



MathCounts



MathCounts



MathCounts

Derrick Klutsey, Manoj Devashish, Sagar Asalapuram, and Danny Marquez delivered a lecture from the Energy4Me website to a highly enthusiastic group of fifth-graders at Codwell Elementary. They shared their individual experiences with over 70 students who eagerly asked insightful questions into how engineering and energy work. The volunteers did a remarkable job of motivating the students and getting them excited about energy. To learn more about how you can volunteer for an Energy4Me lecture, contact Danny Marquez at dannymarquez0@gmail.com. ▶



Energy4Me



Energy4Me



Energy4Me



Energy4Me



Energy4Me

The University of Houston SPE Student Chapter prepared a UH Game Day basket as a silent auction item for the Engineer of the Year Gala. Special thanks to Melati Amtar, Social Media Chair of the UH Student Chapter, for putting together such a nice donation, which included tickets to the next UH vs. OU football game and a football autographed by UH Football Coach Tom Herman. ▼



HSSE-SR & Young Professionals Movie Night



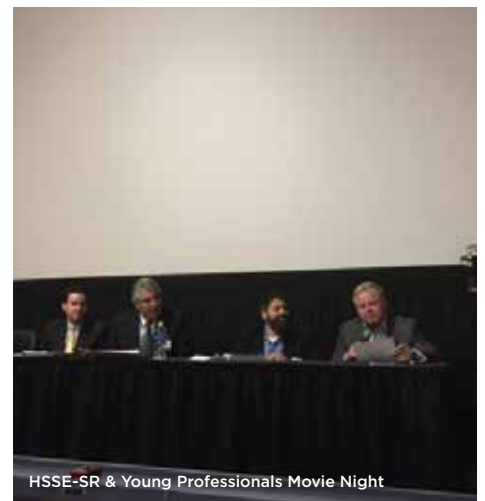
HSSE-SR & Young Professionals Movie Night



UH Game Day Basket



HSSE-SR & Young Professionals Movie Night



HSSE-SR & Young Professionals Movie Night



College and Career Expo



College and Career Expo

Committee: Young Professionals

YP - Rebuilding Together Houston Days

SATURDAY, APRIL 23 & SATURDAY, APRIL 30
7:30 AM - 5 PM

For questions or inquiries, please contact Danny at dannymarquez0@gmail.com, Catalina at catalina.leal@bakerhughes.com or John Matheus at john.matheus@entercoms.com

EVENT INFO

REGISTRATION

To register for event on April 23
spegcs.org/events/3160/

To register for event on April 30
spegcs.org/events/3161/

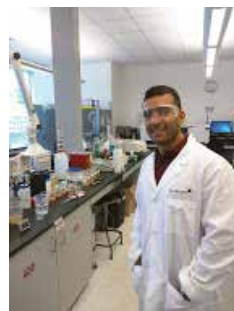
SPE-GCS

TAMU STUDENT CHAPTER

TRAINING FOR THE FUTURE

Every semester, our Technical Training Committee organizes field trips, lectures, and workshops to supplement our members' classroom experience with real-world knowledge.

In January and February, the committee hosted five workshops exploring several software packages. At each workshop, a group of 20 students learned about these powerful industry tools, including StimPlan, which is used for designing and analyzing hydraulic fractures; PipeSim, which simulates multiphase flow in wells; and Fekete-IHS, which is applied for production analysis and reserves evaluation.



The Technical Training Committee also organized two field trips. First, students traveled to Weatherford's facility in Katy, TX. They learned about how Weatherford produces surface pumping units and how the different artificial lift pumps work. Additionally, a group of TAMU-SPE members traveled

to Clariant's facility in The Woodlands, TX, where they learned more about the chemistry behind the oil and gas industry. During this field trip, student members learned how certain chemicals are manufactured and then utilized to maximize oil and gas production.

Thank you to everyone who is helping us to prepare for our futures with these opportunities



Students learning about Weatherford pumping units



Field trip to Weatherford's facility

RICE STUDENT CHAPTER

INTRODUCTION

The Rice University SPE student chapter is a student arm of SPE International. As a student organization, our mission is to provide each affiliate with opportunities for personal and professional development through the SPE student membership benefits and through technical and social activities. Each year, we organize guest lectures, industrial visits, and seminars by distinguished members from academia and from the petroleum industry. Our faculty advisor, Dr. George Hirasaki, had a 26-year career with Shell before joining Rice in 1993. Here are just a few of the activities we've been involved in over the past year:

Paper Contest

On April 25, 2015, the chapter hosted the 2015 SPE-GCS Regional Student Paper Contest. Undergraduate, master's and PhD students from Texas A&M University, Rice University, and University of Houston presented their research projects and networked with each other during the contest.



Resumania and Mock Interview Workshop

Last fall, the committee hosted career development events such as Resumania and a mock interview workshop. Industry representatives gave insightful suggestions on how to modify members' resumes to catch employers' eyes.

Field Trips

Last fall, Rice Chapter hosted field trips to FEI and Newpark Technology Center, which provided students with valuable learning experiences outside their everyday activities.

A Halliburton facility tour on March 23 gave students insights into product enhancement, cementing, wireline and perforating, completion tools, and baroid.

Distinguished Guest Lecture

On February 22, the chapter invited C. Susan Howes to give a lecture on networking to build beneficial relationships. Howes showed students how to build their networking skills to boost their careers and benefit their employers.

Conference Attendance

Rice Chapter sponsored 20 members for the 2015 Annual Technical Conference and Exhibition and 2016 SPE Student Symposium in Houston to bridge academia and the petroleum industry.

A Special Invitation: Advisory Board

The committee plans to launch an advisory board to invite both Rice alumni and industry representatives to give student members advice and help them build personal connections. If you are interested and willing to support us, please contact Yongchao Zeng at yz42@rice.edu.



Student Chapter Directory

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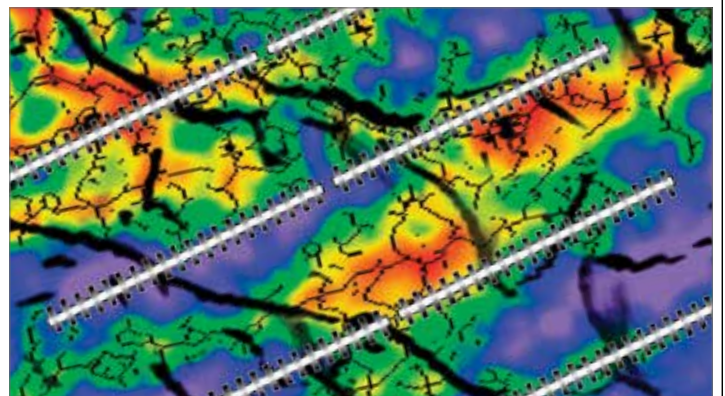
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editor@spegcs.org

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April CALENDAR

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
					Members in Transition (MiT)	
		Northside		Research & Development	Auxiliary Continuing Education	
		International		General Meeting		
				Membership		
				Continuing Education		
				Annual Drilling Symposium		
			Westside	Board of Directors		Young Professionals
				Reservoir		
			Business Development		Community Service	Young Professionals
			Completions & Production			