



Gulf Coast Section

DECEMBER
2015

CONNECT

SPE GULF COAST SECTION NEWSLETTER

ENERGY IN AMERICA – WHAT IS DRIVING CHANGE

GENERAL MEETING P. 22

SPE AT TEXAS A&M AND
SPE-GCS – COLLABORATING
IN HOUSTON AT CITY CENTRE

PROJECTS, FACILITIES, AND CONSTRUCTION P. 15

APPLYING LEAN TO
OIL & GAS –
A HESS PERSPECTIVE

RESEARCH & DEVELOPMENT P. 11

IS DRILLING THE
UNDRILLABLE CREATING
THE UNFRACCABLE?

WESTSIDE P. 19

DISTINGUISHED LECTURER PROGRAM
WELL DESIGN AND INTEGRITY:
IMPORTANCE, RISK AND
SCIENTIFIC CERTAINTY

COMPLETIONS & PRODUCTION
AND PERMIAN BASIN P.17

CHAIR'S CORNER

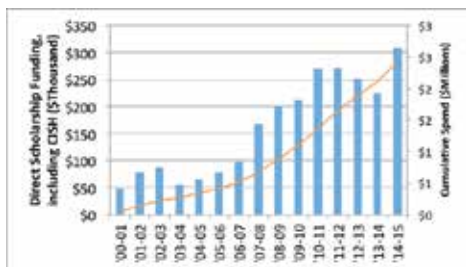


DR. IVOR ELLUL
2015 - 2016 SPE-GCS Chair

I dedicate my Chair's Corner this month to one of the most important functions, indeed, objectives of our section. As part of our mission as members of the SPE, we are to "provide opportunities for professionals to enhance their technical and professional competence." This process commences with those young individuals whose imagination is captured by the energy industry and who have decided to pursue studies in petroleum engineering or a related field. These individuals represent the future of our industry, and we have a duty to encourage and assist them in any way that we can.

I will not forget the intrigue that I experienced as my father, having run BP's operations in Malta for a number of years, decided to take a position with Aramco (not yet Saudi Aramco then). The stories that he would tell about the mega-projects relating to the giant Ghawar and Safaniya fields very much inspired me to further pursue my petroleum engineering studies. When I began studying in London for my master's degree, the SPE was very much present in providing scholarship assistance at times when funds were running low. This is what SPE is all about.

The SPE-GCS has been supporting education for a number of years now in the form of scholarships. As you can see from the chart below, we have been committed to steadily growing our scholarship funding over the last 15 years, reaching a peak last year. The initiative is dedicated to increasing interest in the oil and gas industry among high school seniors and helping retain students currently enrolled in petroleum-related academic disciplines. Additionally, the SPE-GCS partners with Communities in School Houston (CISH) to serve at-risk students in the Greater Houston area.



issue of Connect with incentives that we are providing to encourage companies to sponsor the SPE-GCS in its various activities.

This month, we launch our second initiative: building a Scholarship Fund. The objective is to develop a financial base that will fund our annual scholarship disbursements. This will entail the setting aside of between \$5 million and \$6 million in order to endow scholarships at the level we are hoping to maintain. How are we going to deliver on this very tall order? Well, we are offering the opportunity for each and every one of you to contribute to the Scholarship Fund at whatever level you feel comfortable. Notably:

- Voluntary contributions when registering for any SPE-GCS activity
- Individual donations and/or commitments – a commitment of \$16,000 (\$4,000 for four years) will secure a "named" scholarship
- Distributions from endowment, trust and estate funds

We are lucky and, indeed, very privileged to be part of the largest section within the global organization of the SPE. We are also very privileged to count among us many individuals who are pioneers in the oil and gas industry. It is our duty to support and assist in the preservation of this legacy.

The high school student of today may be the pioneer of tomorrow. Let us be the catalyst for this.

We are counting on your generosity and foresight. Thank you.

All the best!

WHAT SCHOLARSHIP RECIPIENTS SAY:

- "I wanted to thank you again for your generosity. This scholarship really means a lot to me and my family." TAMU Petroleum Engineer, Class of 2018
- "I really appreciate this scholarship, as it allows me to afford the education to study what I am passionate about." TAMU Petroleum Engineer, Class of 2017
- "I really appreciate the funds I received last year as they helped relieve the financial burden of going to college and allowed me to focus on my classes." UT Austin Chemical Engineer, Class of 2018
- "I can't wait to one day be a future engineer in the O&G industry!" University of Houston Mechanical Engineer, Class of 2018
- "I appreciate the opportunities you create through scholarship funding." TAMU Chemical Engineer, Class of 2019
- "This scholarship is extremely important to my education, and for that I couldn't be more thankful." UT Austin Petroleum Engineer, Class of 2017

GCS ENERGY TICKER



December

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BOARD OF DIRECTORS MEETING

THURSDAY, DECEMBER 17 / 7:30 TO 10:30 AM

Location **SPE HOUSTON OFFICE**

10777 Westheimer Rd, Ste 1075, Houston, TX 77042

Event Contact **SHARON HARRIS**

713-457-6821 / 713-779-4216 FAX / sharris@spe.org

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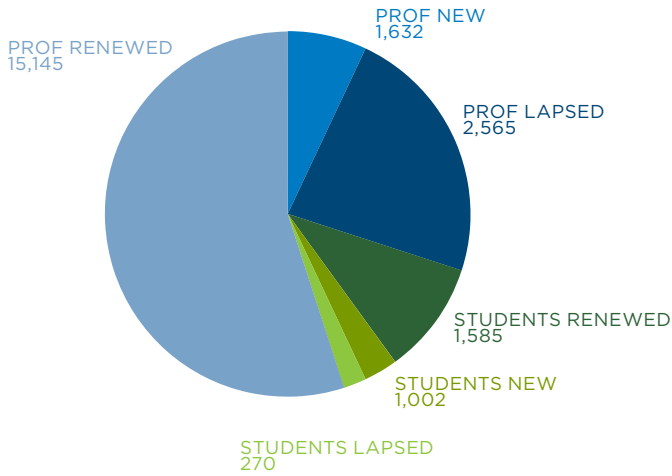
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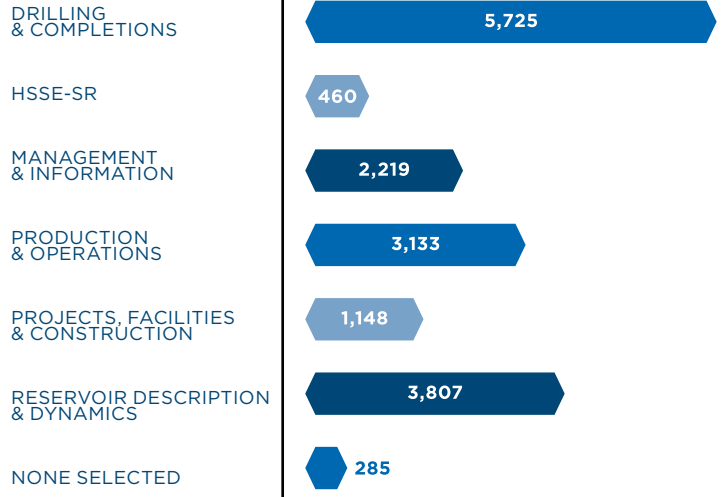
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SPE-GCS MEMBERSHIP REPORT EXTRA OCTOBER 2015

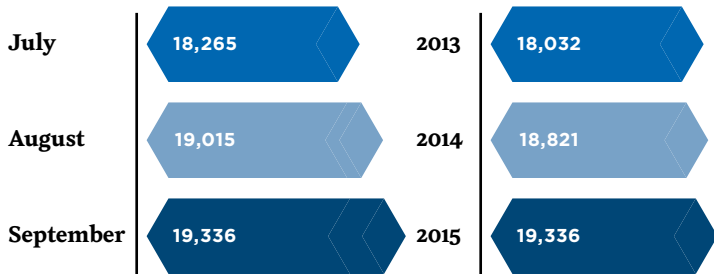
TOTAL SPE-GCS MEMBERSHIPS



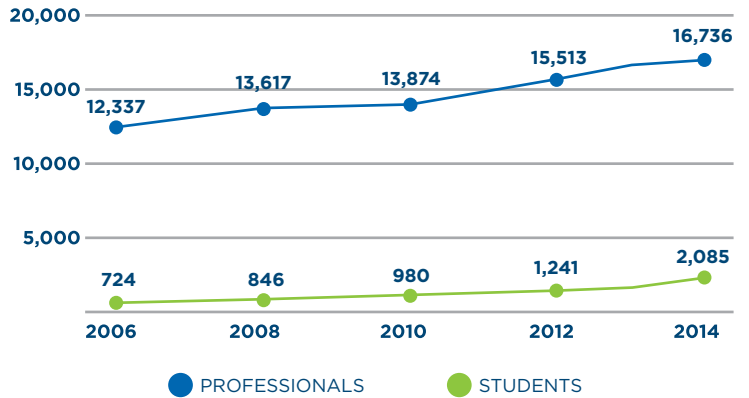
MEMBERS BY TECHNICAL DISCIPLINE



CURRENT MEMBERSHIP TRENDS



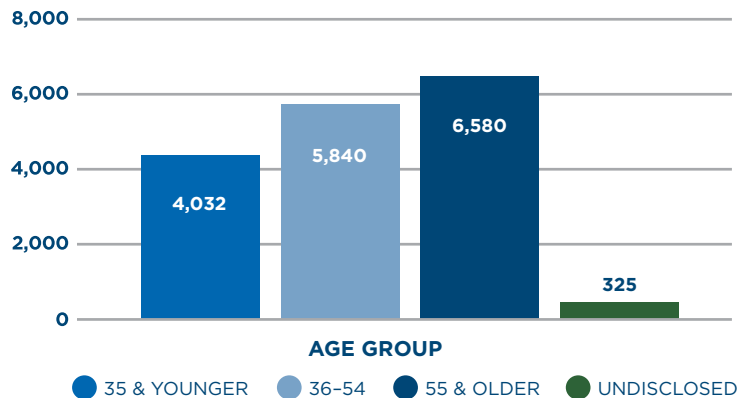
TOTAL MEMBERS BY YEAR



STUDENT MEMBERSHIPS

| STUDENTS | RENEWED | NEW | TOTAL |
|---------------|-------------|-------------|-------------|
| HCC | 72 | 132 | 204 |
| Rice | 58 | 37 | 95 |
| Texas A&M | 1078 | 468 | 1546 |
| UH | 360 | 317 | 677 |
| Unassigned | 17 | 48 | 65 |
| TOTALS | 1585 | 1002 | 2587 |

PROFESSIONAL MEMBERS BY AGE



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

THEN & NOW

COLUMN BY BUDDY WOODROOF

DECEMBER 1960

SoCal residents are excited over a confirmed gas discovery off Santa Barbara. It has long been rumored that the tight holes being drilled off the coast of Santa Barbara County had discovered gas, and Phillips Petroleum confirms the completion of a gas well rich in distillate. As is normally the case in that environmentally sensitive area, the well was whipstocked from an onshore location.

One of Houston's favorite son wildcatters - John Mecom - completes dredging work in preparation for spudding a South Louisiana well that is projected to 26,000 feet, which would make it the deepest well ever drilled.

The AAPG organizes a committee to survey independent operators to determine why so many geologists are being dropped from company payrolls and so few students are pursuing geology degrees at the major universities. The chairman of the committee is another one of Houston's favorite son wildcatters - Michel Halbouty.

Humble Oil & Refining reports great success deploying seismic crews through the swamplands of South Louisiana using its "pullboat." The pullboat is pulled through the soggy swamplands by looping one end of a cable around a giant tree and then winching its way toward that tree.

East Texas crude oil - \$3.15/bbl

DECEMBER 1980

Pemex reports plans to market its own gasoline and petrochemicals through American independents instead of selling crude to major US refiners. Its goal is to make more profit under the Pemex brand. (Don't ever remember seeing a Pemex Petrol station, do you?)

As many as five wildcats/year are planned for offshore Ireland over the next decade. (One requirement will be that all drilling mud must be dyed green.)

The Carter administration revokes Dresser's license to export drillbits to the Soviet Union, the latest in a number of sanctions imposed since the Soviets invaded Afghanistan.

Thanks to better oil and gas prices (Remember those?), Exxon will close out the year with a record 224 wells drilled onshore in South Texas, its highest activity level in southern Texas in 20 years.

US active rig count - 3,233

DECEMBER 2000

BP awards \$1 billion in offshore service contracts for deepwater Gulf of Mexico projects including Crazy Horse, Mad Dog, Holstein and Atlantis.

The UK's PSC Heavy Lift Ltd. claims a world record for the heaviest object ever lifted, namely the 12,680-ton semisubmersible deck for the Deepwater Horizon RBS-8D. (Name sound familiar?)

Petrobras is developing a new satellite technology employing buoys with infrared devices to transmit signals to low-orbit satellites when the devices detect the presence of hydrocarbons in the sea offshore Rio de Janeiro, the site of two major oil spills this year.

Mitchell Energy reports plans to double the capacity of its Bridgeport natural gas processing plant in North Texas in order to handle increasing volumes of Barnett Shale gas.

**Light sweet crude oil - \$29.68/bbl;
Natural gas - \$8.05/MMbtu; U.S. active
rig count - 1,088**

THE REST OF THE YARN

This month, TR follows through on his threats.



As promised, Roosevelt directed Knox to pursue his suit. All the same, TR remained open to more cooperation with Morgan. Roosevelt really was willing to cut deals, but he wanted the business world on notice that the freewheeling days were over. Morgan had reason to play ball. Northern Securities was only one of the many trusts he had assem-

bled. General Electric, Western Union, International Harvester, Aetna Insurance: He controlled them all. Just a year earlier, he had put together what was then the world's largest corporation, U.S. Steel, whose \$1.4 billion in assets was equal to 7% of the gross national product. When TR recorded that in their meeting, Morgan asked him bluntly, "Are you going to attack my other interests, the Steel Trust and others?" Roosevelt's answer couldn't

have been entirely reassuring: “Certainly not — unless we find out in any case they have done something wrong.”

Though Roosevelt’s Justice Department went on to bring 44 more antitrust suits, he never attacked any other interests of Morgan’s. He even used Morgan as a mediator to help settle a Pennsylvania miners strike that threatened to create a winter scarcity of coal for heating. When he ran for president in 1904, TR was not above accepting contributions from the very businesses he was pressuring, though he was so careful not to show them any favor in his second term that Henry C. Frick, one of Rockefeller’s lieutenants, was left to grumble, “We bought the son of a bitch, but he wouldn’t stay bought.”

The Northern Securities suit eventually landed at the Supreme Court, and Roosevelt won a narrow but crucial victory that opened the way for more aggressive use of the Sherman Antitrust Act. He also established a Department of Commerce and Labor, which included a Bureau of Corporations to monitor the budding monopolies. TR endlessly reassured Big Business that he intended merely to keep an eye on its conduct. He did, however, let it be known that he meant business, too. Only “the corporation that shrinks from the light” would have anything to fear from government, he once said. Then he added, “About the welfare of such corporations we need not be oversensitive.”

Next month, TR passes the torch to William Howard Taft.

THEN & NOW
D E C E M B E R
QUIZ

Which of the following groups had the highest reported average wage level circa 1960.....refinery workers, production workers, all-manufacturing workers, or valet parkers?

ANSWER TO NOVEMBER’S QUIZ

The oldest oil company in California, circa 1950, was Union Oil, which was the subject of a book about oil in the West and the history of the oil industry in general titled “Black Bonanza.”

**CONGRATULATIONS
TO OCTOBER’S WINNER**

**James Deaver with Oil Field
Development Engineering, LLC**

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



**VOLUNTEER
SPOTLIGHT**
THANGAVEL SUBBU

This month, SPE-Gulf Coast Section is delighted to feature Thangavel Subbu as the Volunteer of the Month. Thangavel has been a devoted member of SPE for the last couple of years and has served on the Digital Energy Study Group (DESG) in several capacities, most recently as the Treasurer.

Thangavel is an information technology project manager and project management consultant with over 25 years of experience in various industry sectors. He completed his master’s degree in management information systems (MIS) and also received his MBA from Colorado State University. He is a certified Project Manager (PMP) and a Certified Scrum Master (CSM). Managing IT projects for various energy clients brought him to Houston and to the Gulf Coast Section.

Not only is Thangavel a valued SPE volunteer, but he also served as a volunteer leader with the Project Management Institute (PMI) and received the prestigious “Leader of the Year Award.”

Richard Morneau says of Thangavel, “You can count on him for things done on time and with the utmost quality regardless of the circumstances – I cannot think of anyone more deserving of this recognition.”

Thank you, Thangavel!

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DRILLING

Joint Event with American Association of Drilling Engineers (AADE): Challenges & Opportunities in the Oilfield Equipment & Service Market

The global oilfield equipment and service market enjoyed record years through 2014, but the collapse in drilling activity in 2015 has brought many service companies to the brink of extinction. Richard B. Spears will present his firm's 2016 outlook for key oilfield service and equipment markets.

RICHARD B. SPEARS



With an engineering degree from Oklahoma State University and graduate work in industrial engineering, Richard B. Spears has worked for 36 years in the upstream oil and gas industry, starting as a field engineer for Halliburton. Today, Spears is one of the managing directors of Spears & Associates, an oilfield market research firm founded in 1965. The firm has over 400 clients worldwide, including all major oil companies, many national oil companies, all major service companies, and over 100 private and institutional investors. Spears has been with the firm since 1985 and leads the firm's mergers and acquisitions support practice.

Spears is a 30-year member of the Society of Petroleum Engineers (SPE 1141910) and was an SPE Distinguished Lecturer 2005-2006. He is also a 30-year member of the Association of Energy Service Companies.

He is on the board of directors of several oilfield service companies: Allied Horizontal Wireline, a wireline logging company that is commercializing GE's digital open hole logging technology; Abrado Wellbore Services, a wellbore diagnostics company; and W-Technology, a manufacturer of directional drilling components.



EVENT INFO

Thursday

12.3.15

11:30 AM - 1:00 PM

SPEAKER

Richard B. Spears
Managing Director
Spears & Associates Inc.

LOCATION

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

EVENT CONTACT

Tom Wick
713-806-2361
Fieldwick2@gmail.com

MEMBERS

\$35

NON-MEMBERS

\$45

STUDENTS & TRANSITIONING

\$10

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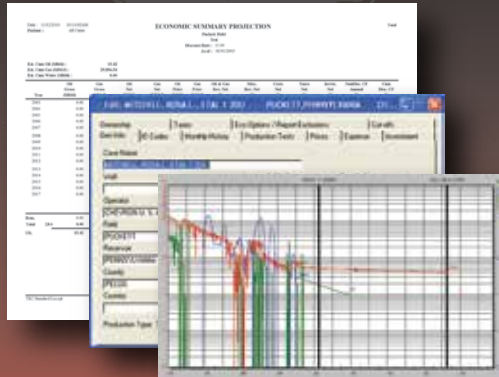
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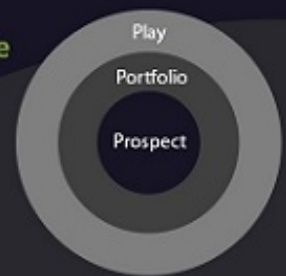
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RESEARCH & DEVELOPMENT

Applying Lean to Oil & Gas - A Hess Perspective

Hess Corporation began its lean journey in 2010 as a way to improve its ability to find and produce shale oil and gas safely, efficiently and responsibly within the Bakken Formation in North Dakota. By approaching the operation as a well factory and developing lean thinking ability throughout the team, the company has shown remarkable improvements in safety, lead time, and cost of developing its wells. Since then, Hess has expanded its lean deployment throughout its assets in North America, Europe, Africa and Asia and is seeing similar results. Although the application of lean principles within an organization can achieve significant improvements in safety, production and cost, these results will be short-lived without a transformation in thinking throughout the organization. Hess has addressed this by driving lean from the company's 2020 Vision all the way to the wellhead and the work performed every day. This presentation will cover the Hess approach to lean within an oil and gas operation, including some of the roadblocks and results experienced.

KEVIN GRUVER

Kevin Gruver is the Global Lean Deployment Manager for Hess Corporation. In support of Global Supply Chain and Finance from 2007-2009, Gruver helped develop each organization's Project Management Office and coached and mentored lean project leaders in Equatorial Guinea, Algeria, Indonesia, Malaysia, and several locations within the United States. Since 2010, Gruver has been working with Hess executive management to form the strategy for and execute a more holistic, comprehensive lean deployment in an effort to truly transform the company's culture.

Gruver's experience includes positions in engineering, finance, and supply chain management with increasing levels of managerial responsibility. He has led process improvement efforts in the automotive, aerospace, and oil and gas industries for over 20 years. Gruver is a certified Master Black Belt (MBB) and Project Management Professional (PMP), though he places much more value on true, practical lean experience. He holds an MS in mechanical and aerospace engineering and a BS in aerospace engineering from the University of Virginia. In addition, he holds an MBA from the University of Michigan.



EVENT INFO

Thursday
12.3.15

11:30 AM - 1:00 PM

SPEAKER

Kevin Gruver
Global Lean Deployment Manager
Hess

LOCATION

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

EVENT CONTACT

Kitty Harvey
281-901-3245
kitty.harvey@c-a-m.com

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NORTHSIDE

Infill Completion & Production Optimization Workflow: Case Studies From the Eagle Ford Shale

The revolution surrounding unconventional resources has transformed the economics of oil and gas production in the US. However, the approaches taken during the initial phase of a high commodity price period cannot be continued in the current economic environment. Many operators across unconventional plays are moving from drilling wells in the held by production (HBP) phase and focusing on infill well development. It is not uncommon for lateral infill wells to exhibit lower estimated ultimate recoveries (EURs) than their parent HBP, resulting in lower economic returns. In some cases, the parent well is damaged and production is permanently lost due to hydraulic fracture interference caused by infill wells. This presentation will review past practices, developmental challenges, modeling, and technology enablers in order to maximize the limited CAPEX being spent on infill well development.

Infill well development cannot focus on single well modeling and economics. Instead, it must be treated as an integrated, dynamic system. The speakers will discuss methods to improve productivity in infill and HBP wells, such as parent well protection via refracturing and integrated completion design and modeling. Case histories will show the productive and financial impact of improving infill well performance via refracturing.

New, complex hydraulic fracture simulators are being incorporated in the design and optimization of infill pad well completion evolution. Such simulators can be easily created from field-wide geologic models, and results can be coupled with reservoir simulators to quickly optimize the completion. This talk will detail hydraulic fracture model calibration from a single well, carryover to infill wells, production history matching of existing infill well fracturing treatments, and optimization of infill well completions in a partially depleted reservoir area. Design modifications will be discussed in addition to the impact they had on infill well production results.

JASON BAIHLY

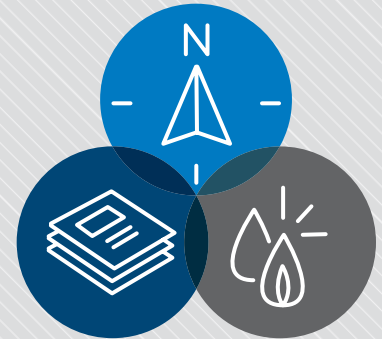


Jason Baihly is the Refracturing and Risk Project Manager for Schlumberger. He leads the overall refracturing effort, including candidate recognition, economic analysis, design, marketing, and R&D. In addition, Baihly performs risk analysis on new development, recompletion, and refracturing for various assets and develops alternative business models to help operators perform well work in a dynamic market. He has over 10 years of experience in optimization of horizontal and vertical wells in many unconventional plays both domestically and abroad. Baihly has a BS in civil engineering from South Dakota School of Mines and Technology and an MS in petroleum engineering management from Heriot-Watt University in Edinburgh, Scotland.

EFE EJOFODOMI



Efe Ejofodomi is a Senior Production Stimulation Engineer for Schlumberger with over nine years of experience across different countries, including the US and Argentina. His expertise includes designing and evaluating hydraulic fracturing treatments in tight gas sand and oil/gas shale formations, as well as microseismic monitoring and reservoir modeling. He is involved in providing integrated solutions and workflows for unconventional reservoirs, including horizontal well design and optimization, completion design, performance prediction, and evaluation. Ejofodomi earned an MS degree in petroleum engineering from Texas A&M University in 2006.



EVENT INFO

Tuesday
12.8.15

12:00 PM – 1:30 PM

SPEAKERS

Jason Baihly
Refracturing and
Risk Project Manager
Schlumberger

Efe Ejofodomi
Senior Production
Stimulation Engineer
Schlumberger

LOCATION

The Greenspoint Club
16925 Northchase Dr
Houston, TX 77060

EVENT CONTACT

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

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\$35/\$50 Walk-In

NON-MEMBERS

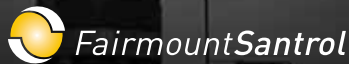
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Please join us for a special SPE-GCS event on Tuesday, December 8, 2015. The history of the SPE-GCS and local universities is one of collaboration, and this event will be the first in a series highlighting the relationships between SPE and academia in Houston. For the first event in this series, we will host a networking luncheon at Texas A&M Mays Business School City Centre. Students, faculty and alumni will be present, and all current and prospective SPE members are welcome to attend.

The event will also introduce the GCS to the facilities available at the Texas A&M Mays Business School City Centre. Study group members can learn more about hosting events at City Centre.

The event will focus on networking and follow this schedule:

- 11:00 AM to 12:00 PM – Sign-in and networking
- 12:00 PM to 1:00 PM – Lunch and topic
- 1:00 PM to 1:30 PM – Networking and close

ERNESTO VALBUENA



Ernesto Valbuena is a reservoir simulation engineer at Chevron Energy Technology Company in Houston. He focuses on reservoir-network integration for multiple offshore assets, and supports enhancements and testing for INTERSECT, a next-generation simulator jointly developed by Chevron, Schlumberger and Total. Valbuena’s industry experience includes a borehole-reservoir engineer position in Schlumberger in 2008-2009 and professional internships. His technical interests include numerical simulation, pressure transient, fluid phase behavior and thermodynamics, production logging, and flow assurance.

Valbuena holds PhD and MS degrees in petroleum engineering from Texas A&M University (2015 and 2011, respectively), and a BS from La Universidad del Zulia (Venezuela, 2008). He is active in the Society of Petroleum Engineers (SPE), with roles including YP-GCS Board 2015, technical committee member at Latin American and Caribbean Petroleum Engineering Conference (LACPEC) since 2013, and various leadership positions in the Texas A&M SPE Student Chapter since 2011.

To read more about the collaboration and history of SPE-GCS and the Texas A&M Student Chapter, see the article on P. 32



EVENT INFO

Tuesday
12.8.15
11:00 AM – 1:30 PM

SPEAKER
Ernesto Valbuena
Petroleum Engineer
Chevron

LOCATION
Texas A&M Mays Business School at
City Centre
800 Town and Country Blvd
Houston, TX 77024

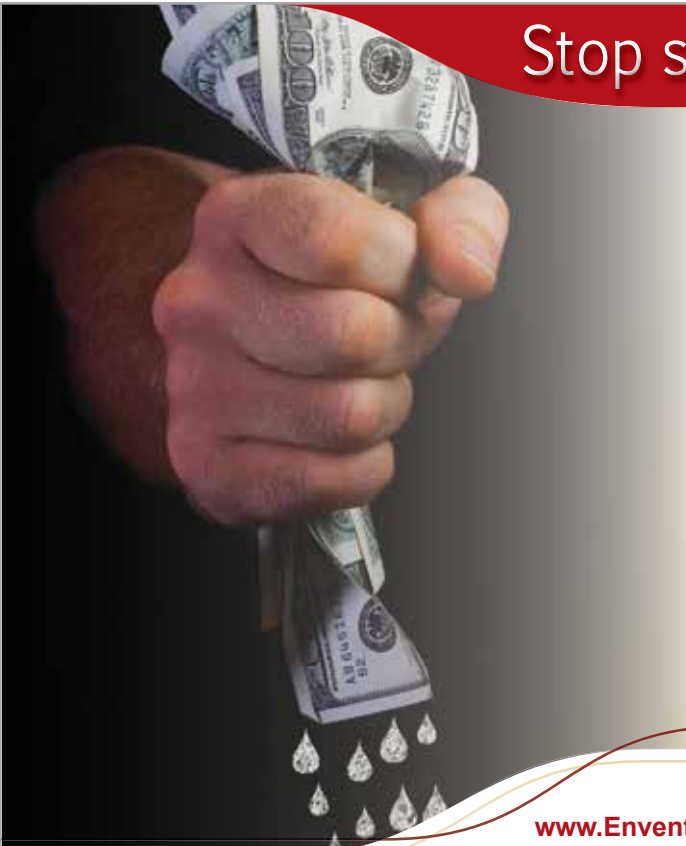
EVENT CONTACT
Bryan W. Marlborough
985-232-0318
bryan.marlbrough@gmail.com

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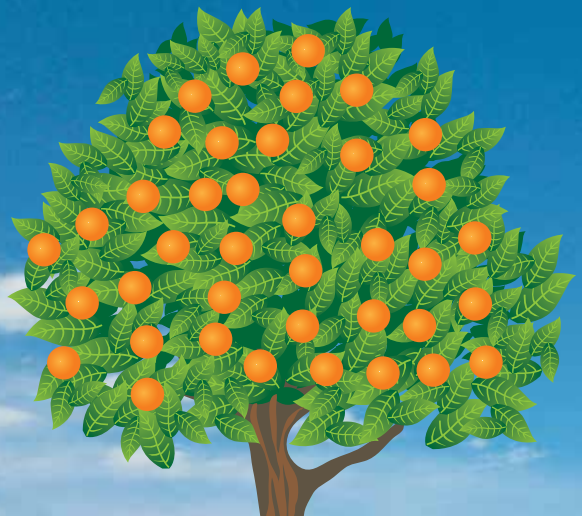
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COMPLETIONS & PRODUCTION + PERMIAN BASIN

Well Design and Integrity: Importance, Risk and Scientific Certainty

This event is presented by an SPE Distinguished Lecturer, Brun Hilbert

The term “well design and integrity” has taken on added meaning as a result of intense media scrutiny and public interest regarding hydraulic fracturing and the tragic Macondo well blowout in the Gulf of Mexico. The complexities and costs of well design have increased significantly to meet the challenges of ultra-deep wells exceeding 30,000 feet, ultra-HPHT wells (500F and 30,000 psi), and ultra-deepwater drilling (exceeding 10,000 feet).

As a consequence, the risk to companies designing wells for these applications has increased. As we know from recent events, the consequences of failures can be enormous, and minimizing the risk of such catastrophic failures is imperative. It is not simply coincidental that the engineering tools for well design have become ever more complex. Tools such as nonlinear finite element analysis (FEA), computational fluid dynamics (CFD), and multi-physics software are now commonly used. What are these tools and the input data required for output of dependable and accurate results? This presentation will summarize applications of these tools, exhibiting their input requirements, and output interpretation and quality. Applications will include threaded connection pressure integrity, cement and rock strength and deformation, and formation-cement-casing interactions, all of which involve complex nonlinear material and interface behavior.

The presentation will cover computational modeling of the temperature dependent, viscoplastic response of salt and “soft” porous rocks, and compactive behavior of high-porosity formations. Downhole tools may include stainless steels, elastomer and polymer components. Seal rings and inflatable packers are highly temperature dependent and exhibit significant creep behavior. Calibration of material model parameters is vitally important, but for non-metals can require a significant number of samples, which are difficult and expensive to acquire and test. The correct selection of a validated material model can be the key to success or failure in minimizing risk.

DR. BRUN HILBERT

Dr. L. Brun Hilbert Jr. is a Principal Engineer in Exponent's Mechanical Engineering and Materials/Metallurgy practice. Hilbert has been consulting at Exponent since 1996 in the fields of mechanical and petroleum engineering, with special applications to engineering mechanics and geomechanics. He has worked in the petroleum exploration and production industry for 30 years



EVENT INFO

Wednesday
12.9.15

11:30 AM – 1:00 PM

SPEAKER

Dr. Brun Hilbert
SPE Distinguished Lecturer
Exponent Failure Analysis
Associates Inc.

LOCATION

The Greenspoint Club
16925 Northchase Dr
Houston, TX 77060

EVENT CONTACT

Amy Timmons
Atimmons1114@att.net

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WESTSIDE

Is Drilling the Undrillable Creating the Unfraccable?

There is little doubt that the success and reliability of frac-pack completions in the Gulf of Mexico (GoM) have become the yardstick by which GoM sand control completions are measured. Simultaneously, stress-caging has become standard practice as a method to overcome the challenges associated with drilling through depleted zones in order to cope with complex mud-window constraints for new developments and infill wells.

While these two techniques, in isolation, represent uniquely optimal solutions to their individual challenges, there is growing evidence that their application within the same wellbore has the potential to create a major issue. The stress-cage application is ostensibly based on the premise of creating an increased hoop stress around the wellbore (that may include small, plugged fractures) and thereby an increased fracture gradient, which allows for drilling through substantial depletion. However, the presence of a range of widely distributed particle sizes in the mud system, as well as increased general solids loading, can result in deep and invasive plugging of the permeable formations and any smaller fractures within the same open-hole sections. When these plugged formations then become the target for subsequent fracturing operations, there is a significant potential to create near-wellbore issues that complicate or bring into question the ability to install a frac-pack completion.

This presentation will discuss a number of examples of the application of stress-cage, in which resulting fracturing operations appear to have been hampered or complicated by the drilling of the section with stress-cage material and/or the associated mud conditions. These examples will provide evidence of such interactions, but just as importantly, demonstrate the potential contradiction that these two techniques represent. All of this poses the fundamental question of whether we are creating the unfraccable by drilling the undrillable.

MARTIN RYLANCE

Martin Rylance is the Senior Advisor and Engineering Team Lead for the Fracturing and Stimulation Group within the BP Global Wells Organization (GWO). He has worked with BP, its partners and JVs for more than 28 years, since graduating with honors with a BS in pure mathematics. He has held the positions of Interventions Team Lead with BPX in Bogota, Senior Engineer with TNK-bp in Moscow, and Project Manager with BP in a number of frontier exploration areas.

Rylance has been involved in all technical aspects of pumping operations, well-control, well interventions, and pressure services, including hydraulic fracturing, snubbing, stimulation, coiled-tubing, PWRI, and cuttings re-injection. In more recent years, he has specialized in the development of tight oil and gas reservoirs, and hydraulic fracturing in tectonic and HTHP environments. He has numerous papers and publications to his name with SPE; the American Institute of Mining, Metallurgical, and Petroleum Engineers; and various numerical and geological societies. He is an active member of SPE and the American Society of Mechanical Engineers Executive Committee, and he served as an SPE Distinguished Lecturer in 2008-09 and 2013-14.



EVENT INFO

Wednesday

12.9.15

11:30 AM – 1:00 PM

SPEAKER

Martin Rylance
Senior Advisor and
Engineering Team Lead
BP

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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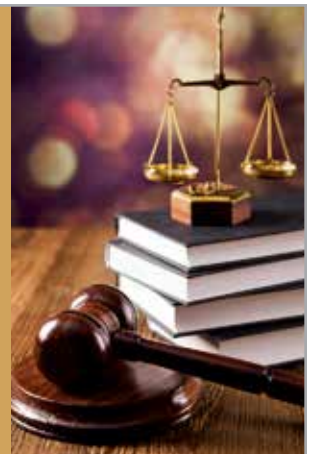
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RESERVOIR

Employing Statistically Enhanced Decline Analysis (SEDA) to Attain Accurate Developed Proved and Possible Deterministic Reserves

The preferred method of reserves evaluation for producing wells is deterministic. However, when deterministic methods are used, evaluators cannot reliably assign reserves that satisfy the prescribed certainty for each reserves category. In addition, they have no method to quantify the impact that aggregation will have on reserves certainty. This presentation will introduce Statistically Enhanced Decline Analysis (SEDA) – a new method for accurate, consistent reporting of deterministic reserves. To our knowledge, SEDA is the only method available to resolve the deficiencies of deterministic reserves estimates. It also adapts well to existing reserves evaluation software and improves accuracy and consistency at reduced cost.

RANDY FREEBORN



Randy Freeborn is the Chief Research Engineer with Energy Navigator and a major contributor to Value Navigator software – the forecasting, economics and reserves system of choice for more than 300 North American E&P companies. Freeborn is a 1973 graduate from the University of Calgary with a BS in engineering. He holds membership in the Association of Professional Engineers and Geoscientists of Alberta, Society of Petroleum Evaluation Engineers, and SPE. He has practiced petroleum engineering for more than four decades, specializing in reservoir engineering, exploitation, and the evaluation of oil and gas properties. He is a recognized subject matter expert in decline curve analysis, the use and construction of accurate and more reliable type wells, and forecasting unconventional oil and gas. Freeborn is a frequent speaker at SPE workshops. He has also been a guest lecturer to graduate students at Texas A&M University and the University of Houston.



EVENT INFO

Thursday
12.10.15

11:30 AM – 1:00 PM

SPEAKER

Randy Freeborn
Chief Research Engineer
Energy Navigator

LOCATION

Sullivan's Steakhouse
4608 Westheimer Rd
Houston, TX 77027

EVENT CONTACT

Alexandra Martinez
959-249-0994
adinorah.martinez@gmail.com

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EVENT INFO

Thursday
12.10.15

11:30 AM - 1:30 PM

SPEAKER

William M. Arnold
Professor in the Practice of
Energy Management
Rice University

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

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GENERAL MEETING

Energy in America - What Is Driving Change?

This is a joint meeting with the Houston Chapter of the American Petroleum Institute (API).

Disruption has become a dramatic part of America life, much of it tied to innovation. The energy industry is leading change. The mix of energy we use, from renewables to oil and gas, is shifting dramatically. Natural gas is rapidly taking out coal; a large nuclear power plant will be shuttered; solar is becoming increasingly competitive.

Let's ask a few questions. What is driving this change? How do we compare with the rest of the world? What does this tell us about markets and prices? What disruptions lie ahead? The Great Crew Change is becoming a reality – what kind of energy industry will emerging energy leaders build?

WILLIAM M. ARNOLD



William M. Arnold is Professor in the Practice of Energy Management at the Jones Graduate School of Business at Rice University. Arnold joined Rice in June 2009 and has taught courses on the Geopolitics of Energy and Managing in a Carbon-Constrained World.

Previously, as Royal Dutch Shell's Washington Director of International Government Relations and Senior Counsel for the Middle East, Latin America, and North Africa, he engaged at the highest levels of government in the US and abroad to provide geopolitical insights, develop business strategies, build scenarios, and advance multi-billion-dollar projects.

Arnold held a White House appointment as Senior Vice President of the Export Import Bank of the United States from 1983 to 1988. His international banking experience includes Executive Vice President/International Banking Division of First City National Bank-Houston (now JPMorganChase); General Manager, COMIND International Banking Corporation (now Banco do Brasil); and Vice President/Manager of the Latin America Division of Texas Commerce Bancshares (now JPMorganChase).

Arnold holds a Bachelor of Arts degree in economics from Cornell University, as well as a Master of Arts in Latin American studies and a Master of Business Administration/International Finance from the University of Texas at Austin. He completed graduate studies at the Europa Instituut of the University of Amsterdam, and the Graduate School of Banking at the University of Wisconsin. He served in the US Army and was awarded the Army Commendation Medal.

INTERNATIONAL

Mexico Series

The International Study Group will host a lecture event on December 17 featuring Mike Martinez from Wood Mustang Group. The outline and topics are to be determined. Please check the SPE-GCS website for updates. We hope you can join us.

MIKE MARTINEZ



Mike Martinez is an accomplished bilingual and bicultural international business executive with over 30 years of senior management level experience. He has led the management, start-up and turnaround of several companies (in the US and Latin America) in the chemical, oil and gas (on-shore and offshore), power, military, and manufacturing markets. Martinez resided in Mexico City from 2003-2007 as

President of Bay-Inelectra, a Mexican JV that executed engineering, procurement and fabrication offshore projects for Pemex. Martinez serves as Vice President for Business Development for Wood Group Mustang. He holds a bachelor's degree in electrical engineering, graduating Summa Cum Laude from the University of Cincinnati.



EVENT INFO

Thursday
12.17.15

11:30 AM - 1:00 PM

SPEAKER

Mike Martinez
VP of Business Development
Wood Group Mustang

LOCATION

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

EVENT CONTACT

Barry Chovanetz
bchovanetz@yahoo.com

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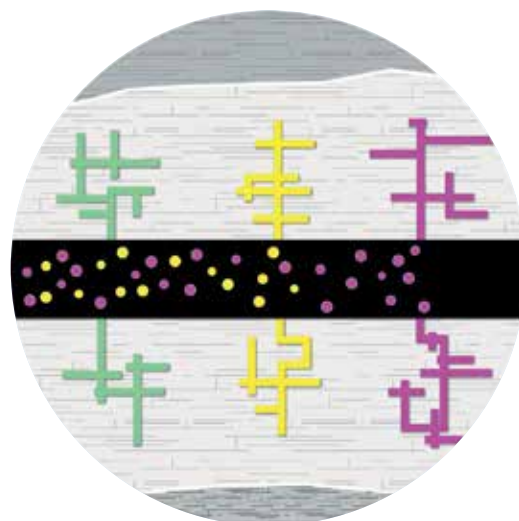
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December 7-18
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November 9-20, December 7-18
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November 30 - December 4

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Utilizing Micro Bio-Reactor Technology for Bioremediation of Industry Related Wastes

Learn about the latest breakthrough in bioremediation delivery technology that overcomes many of the challenges faced by other bioremediation technologies. In this presentation, Ron Finn, Founder and President of TerraMed Remediation, LLC, and Steve Ellis, Founder and Executive Vice President of DryLet, will introduce data proving how this new micro bio-reactor technology is a significant advancement in the bio-remediation field.

This patented and NCP-listed bioreactor delivery technology:

- Is in an active solid formulation that locks in or “sticks” to the contaminated surfaces and is not wasted by leaching away
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- Easily overcomes the oil:water interface issue that water-based microbial delivery systems encounter
- Only uses safe non-GMO organisms and is EPA NCP listed
- Requires one-third the moisture content that current wet bioremediation technologies need to function. This is an especially crucial parameter in arid job locations. This also allows for less ecological damage due to oversaturation of the soil.
- Leaves the post-remediated soil in better condition than the start, from contamination to soil that can immediately be used for plant growth. This technology can restore hydrocarbon-laden soil to an improved plant-friendly environment and leaves a minimal ecological footprint.
- Can be applied from aircraft to remediate the marshland interface between water and land

RON FINN

Ron Finn is the President of TerraMed Remediation, LLC, which he founded in 2015. He is the President & CEO of FINNCO Oil & Gas, LLC. He was Global Frac Sand, Vice President, Sales for Kinder Sand. His background also includes serving as a gas analyst for the Texas Railroad Commission and working with Halliburton. He graduated in 1985 from the University of Texas at Austin with a degree in petroleum engineering.

STEVE ELLIS

Steve Ellis is the Founder and Executive Vice President of the biotechnology company DryLet, which has a presence in countries including Canada, Costa Rica, Greece and Russia. His previous experience includes serving as Director of Program Management for Nortel. He is a graduate of Louisburg College in North Carolina.

EVENT INFO

TUESDAY

12.1.15

11:30 AM - 1:00 PM

SPEAKERS

Ron Finn
Founder and President
TerraMed Remediation

Steve Ellis
Founder and Executive Vice
President, DryLet

EVENT LOCATION

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

EVENT CONTACT

Carol Piovesan
949-232-6353
cpiovesan@APOoffshore.com

MEMBERS/NON-MEMBERS

\$35

Ethics Seminar: Texas Board of Professional Engineers - Licensing Process

This continuing education seminar will focus on ethics. Topics to be covered include licensing requirements and application process, rule and legislative changes that affect the profession, and board issues/actions. The one-hour seminar will qualify attendees for their annual ethics training requirement by the Texas Board of Professional Engineers.

JAMES PAPPAS



James Pappas is President of RPSEA, the Research Partnership to Secure Energy for America, in Sugar Land, TX. He has held several other positions with RPSEA. Prior to RPSEA, he held technology manager and drilling, completions, facilities, production, operations, reservoir, and M&A engineering and management roles with Devon, Santa Fe Snyder, Fina, UPRC, and Amoco. He's been in the oil and gas industry for 39 years.

He has been SPE International Production and Operations technical director and SPE Technical Programs and Meetings Committee chair on its board; chair of the SPE-Gulf Coast Section Scholarship Committee, General Meeting, Drilling Study Group, and Board of Directors. He has also served on several technical program committees for the Offshore Technology Conference, the SPE Annual Technology Conference and Exhibition, Latin American and Caribbean Petroleum Engineering Conference, SPE R&D Conference, and the SPE P&O Conference. He is also co-chair of the Marine Technical Society (MTS) OTC Program Subcommittee and is a past Private Industry Practice chair and Executive Committee member of the Texas Society of Professional Engineers (TSPE).

Pappas has authored over 60 technical papers on various technical and professional topics. He earned a BS in chemical engineering and a BA in chemistry from the University of Texas at Austin in 1979 and graduated with an MBA with highest honors from the University of Texas at Tyler in 1993.

EVENT INFO

THURSDAY

12.3.15

SPEAKER

James Pappas
President
RPSEA

EVENT LOCATION

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

EVENT CONTACT

Sunil Lakshminarayanan
832-627-3470
sunil_lakshminarayanan@oxy.com

MEMBERS/NON-MEMBERS

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\$50/\$55 Walk-In

PROGRAM

This month brings another informal gathering of friends for Christmas harp music. There will be an auction featuring handcrafted jewelry by Mary Zwald. Proceeds will go to the SPE Auxiliary Scholarship Fund. Deadline is Tuesday, December 8.

EVENT CONTACTS

| | |
|---|---|
| Evelyn Earlougher 281-419-1328 earlougher@comcast.net | Nancy Hill 281-435-1619 Nancyhill2444@sbcglobal.net |
|---|---|

EVENT INFO

FRIDAY

12.11.15

11:00 AM - 1:00 PM

EVENT LOCATION

Fleming's Restaurant
Town and Country
788 West Sam Houston Pkwy N
Houston, TX 77024

Bicycle Build with CycleHouston

Join SPE Young Professionals for the annual Bicycle Build with CycleHouston (previously known as Elves and More).

Each year, this organization partners with elementary schools to encourage students in kindergarten through third grade to improve reading skills, behavior, and attendance.

Those students who commit to a special monitoring program and fulfill all necessary requirements are rewarded with a bike!

SPE Young Professionals will help assemble some of 10,000 bikes to be delivered to these students the week before Christmas.

Each participant is required to donate \$40, which almost covers the cost of one bicycle. For the first 25 registered volunteers, SPE will cover half of this fee.

To learn more about CycleHouston, please visit <http://cyclehouston.org/>.



EVENT INFO

SATURDAY

12.5.15

9:00 AM - 12:00 PM

LOCATION

NRG Center
1 Reliant Parkway
Houston, TX 77054

EVENT CONTACT

Catalina Leal
832-729-5462
Catalina.leal@bakerhughes.com

MEMBERS & NON-MEMBERS

\$40

REGISTER

spegcs.org/events/3078/

Volunteering at The Beacon

Please join SPE-GCS Young Professionals in their support of The Beacon, a nonprofit organization helping the poor and homeless populations of the Houston area.

Since opening in 2007, The Beacon has grown from serving 80 clients per day to serving 600-800 clients daily in four core programs: The Beacon Day Center, Cathedral Clinic at The Beacon, Brigid's Hope at The Beacon, and Cathedral Justice Project at The Beacon. These four programs come together under one roof to provide meals, showers, laundry service, case management, medical and psychiatric care, pro bono legal services, and pastoral care.

More than 85% of the services of The Beacon are operated by volunteers. On December 13, it will be the SPE-GCS Young Professionals who answer the call to service. Please come and bring friends or family.

Please have a good breakfast before arriving in order to remain energized throughout the event, which goes beyond the typical lunchtime and may involve some physical activity. You may also bring gently used or new items to donate.

EVENT INFO

SUNDAY

12.13.15

10:45 AM - 2:00 PM

EVENT LOCATION

The Beacon
John S. Dunn Outreach Center
1212 Prairie St
Houston, TX 77002

EVENT CONTACT

Catalina Leal
832-729-5462
Catalina.leal@bakerhughes.com

REGISTRATION

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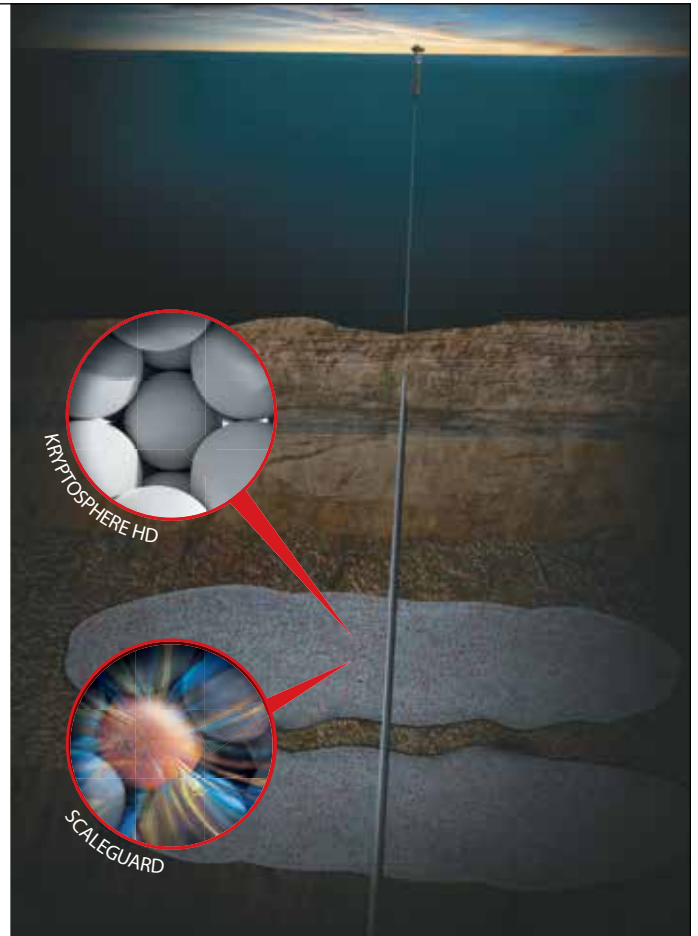
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SPE-GCS Volunteer Opportunity: Assist Your Local High School in STEM Education

Interested in supporting your local high school in science and math? The SPE-GCS has a program that will meet your aspirations.

LEADER: Dick Murphy, SPE-GCS member and retired Marathon Oil Company engineer. stancal@windstream.net

WHAT IS THIS? Volunteer tutors work closely with teachers, helping to explain concepts to students and giving them more individual attention.

FOCUS: Physics, chemistry, biology, math - mainly on-level classes

REQUIREMENT: Science, engineering or business degree

COMMITMENT: Half-day per week or more for a semester. Commitment of this length ensures continuity of effort and gains trust of teachers and students.

EVENT INFO

LOCATION

Fort Bend ISD high schools:
Dulles, Austin, Clements
Katy ISD high school: Taylor

NOTE

Volunteers can live outside these school districts.

EVENT CONTACT

Dick Murphy
stancal@windstream.net

MORE INFO

Dick Murphy
spegcs.org/committees/education/

Looking for Summer Interns?

Last summer, the SPE-GCS Education Internship Committee secured summer internships for some of the new SPE-GCS scholarship recipients thanks to Anadarko! Students who express interest will be recommended to companies for consideration.

If you are a company representative and you are interested in sponsoring internships or scholarships, please contact David Li, Internship Committee Chair (dsl6625@yahoo.com). Our SPE-GCS scholarship recipients are carefully selected by the scholarship committee, and many have gone on to have very successful careers in the oil and gas industry.

The SPE-GCS Internship Committee is also looking for internships for Houston Community College PetroTech students. These students need to have an internship to graduate. Let us know if you can offer any internships to HCC PetroTech students.

EVENT INFO

EVENT CONTACT

David Li
713-299-7568
dsl6625@yahoo.com

MORE INFO

spegcs.org/committees/education/



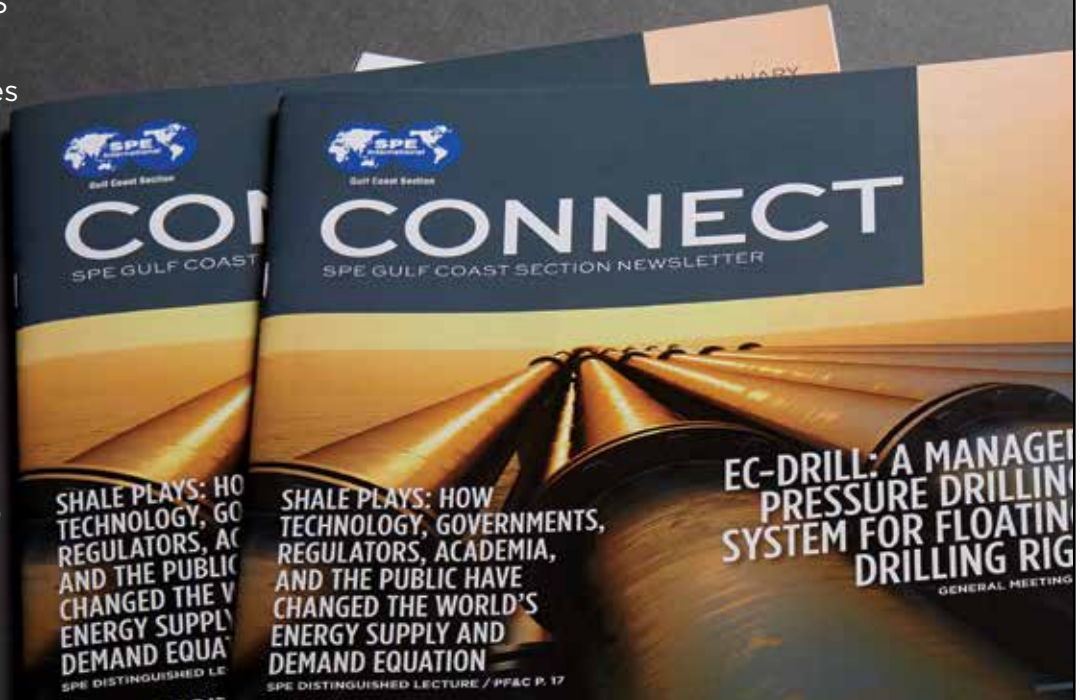
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2016-17 SPE-GCS Scholarships

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

The requirements for new applicants:

- Currently reside in Houston or 29-county Gulf Coast area (Austin, Brazoria, Brazos, Burleson, Chambers, Colorado, Fayette, Fort Bend, Galveston, Grimes, Hardin, Harris, Jasper, Jefferson, Lee, Liberty, Madison, Matagorda, Montgomery, Newton, Orange, Polk, San Jacinto, Trinity, Tyler, Walker, Waller, Washington, and Wharton)
- Enroll in an engineering or science program at a university in the fall
- Currently be a high school senior
- Be a US citizen
- Submit a completed scholarship form by February 12, 2016
- Submit high school transcripts
- List activities, awards and honors
- Submit SAT and/or ACT score; minimum required SAT score is 1650
- Include professional reference letters
- Demonstrate financial need (if applicable, not required)
- Submit short essay (approximately 500 words)

The process:

- Scholarship committee reviews each application
- Selected applicants are interviewed in the second round (April 2016)
- After the interviews, the scholarship committee meets and decides the 2016-17 scholarship recipients (May 2016)

Oilfield Games

Oilfield Games

In an innovative approach to both fundraising and networking, SPE's Gulf Coast Section introduced the OilSim Competition earlier this year to raise funds for local petroleum engineering scholarship recipients. Help us make the second annual event bigger and better by supporting the newly rebranded Oilfield Games: Sign up to volunteer on the committee, participate as a player, or donate a sponsorship!

The next event will take place in spring 2016 and will again feature an oilfield simulation training software. In this interactive gaming event, teams will work together to produce profitable fields while upholding good corporate citizenship. Come put your technical knowledge to the test in this simulation of the collaborative aspects of oil and gas ventures – may the odds be ever in your favor!

The success of Oilfield Games hinges on the support of our sponsors. We are seeking donations as follows.

- **\$10,000 Diamond Event Sponsor**
- **\$7,000 Platinum Sponsor**
- **\$5,000 Gold Sponsor**
- **\$3,500 Silver Sponsors (2)**
- **\$2,000 Bronze Sponsors (3)**

EVENT INFO



APPLICATION & INSTRUCTIONS

spegcs.org/scholarship-application-instructions/

COMPLETED APPLICATIONS

GCS-Scholarship@spemail.org

NOTE

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

Each 2016-17 first-time scholarship recipient may be eligible for a summer internship with an oil and gas company based on availability.

MORE INFO

spegcs.org/committees/scholarship-internship/

EVENT INFO

EVENT CONTACT

Lindsey Ferrell
spevolunteer@frontline-group.com
281-453-6058

MEMBERS

\$65

NON-MEMBERS

\$75

For more information about sponsorships, participating or volunteering, please contact the event Chair, Lindsey Ferrell.

SPE AND ACADEMIA WORKING TOGETHER

SPE Gulf Coast Section & Texas A&M University

As many of you know, the SPE Gulf Coast Section is the largest section in the SPE worldwide family. Formed in 1935 and currently over 19,000 members strong, SPE-GCS has been recognized for its success with a President's Award for Section Excellence nine times in the past 11 years. Without question, one of the reasons for this continued achievement is the SPE-GCS commitment to actively supporting its five student chapters: University of Houston, Rice University, Houston Community College, Prairie View A&M University, and Texas A&M University.

The SPE-GCS relationship with the Texas A&M University SPE chapter has been particularly fruitful—not surprising, given that the A&M College of Engineering is one of the largest by enrollment and one of the most distinguished in the country. The collaboration between SPE-GCS and the TAMU SPE chapter has been mutually beneficial and highlights the exciting things that can happen when industry and academia work together.

A Little History

The TAMU SPE chapter has a long and storied history, as the current officers recently discovered. Ignited by what was supposed to be a 25-year anniversary celebration event, the TAMU SPE officers discovered that petroleum engineering students have had an organization at Texas A&M far longer than a quarter century. In fact, they learned that the chapter is one of the oldest student organizations on campus, having started in 1932 as the Petroleum Engineering-Geology Club. Some former students believe the organization goes back even further, to the inception of the TAMU petroleum engineering degree in 1928.

Like the SPE Gulf Coast Section, TAMU SPE is currently the largest student chapter in SPE International with over 1,500 members, and it has been an SPE Gold Standard Chapter multiple times (2010 to 2014). The students are very active in the College Station community as well as in SPE-GCS activities in Houston and the Gulf Coast area, often attending SPE-GCS Board meetings and regularly taking part in events such as the Roughneck Camp, the Emerging Engineers Conference, and the Annual Technical Conference and Exhibition. The SPE-GCS

Board members make regular reciprocal visits to the TAMU College Station campus for Career Days and student chapter meetings.

But the A&M students aren't the only active SPE participants; three noted A&M professors have held SPE leadership positions of late. Dr. John Lee, who has had a long and illustrious teaching career at TAMU, recently served a three-year term on the SPE-GCS Board as a Director At Large. Dr. Tom Blasingame, longtime TAMU Professor of petroleum engineering, is currently a student chapter advisor, and the 2015-2016 SPE International Board Reservoir Description and Dynamics Technical Director. And Dr. Dan Hill, TAMU professor, department head, and Noble Chair, is serving as the 2015-2016 SPE International Board Director for Academia.

New Collaboration at CityCentre

Over the past several months, an exciting new development has come from the GCS-TAMU partnership as the Texas A&M Mays School of Business has become an official host for SPE-GCS (or SPE International) events at their CityCentre campus location in the West Houston corridor! The beautiful 30,000-square-foot facility offers meeting, conference and event space, as well as executive classrooms and expansive dining and multi-purpose spaces.

To celebrate this new alliance, SPE-GCS will host a special event at the CityCentre campus on Tuesday, December 8, 2015. The event will bring university students, faculty and alumni together with SPE professional members for a networking luncheon and guest speaker (see page 15 for event details). Students from any university are welcome to attend, as are all current and prospective SPE-GCS members.

One needs to look no further than the successful graduates from all of the student organizations SPE-GCS supports to see that industry wins when it actively invests in and supports academia. The SPE-GCS is proud to be home to tomorrow's best and brightest engineering minds!

For further information about the Texas A&M CityCentre campus or to inquire about booking an SPE or SPE-GCS event at the TAMU CityCentre location, please contact Kathy MacLennan, SPE-GCS Manager, at kmaclennan@spe.org.

SPE-GCS
STUDENT CHAPTER PAGE
TEXAS A&M
GIVING BACK TO THE COMMUNITY

TAMU-SPE

Texas A&M University is continuing its public outreach and philanthropy campaign with special emphasis on community service and public education about the important role of the petroleum industry in global development. We sincerely thank all the volunteers from our chapter for their selfless service and hard work.

GALVESTON BEACH CLEAN-UP

On September 26, the TAMU-SPE participated in the SPE Cares Initiative: Galveston Beach Clean-Up event to kick off the Annual Technical Conference and Exhibition. Twelve volunteers represented our chapter — the highest turnout of any SPE student chapter in attendance! Volunteers spent the morning picking up trash on Galveston Beach with fellow SPE members.



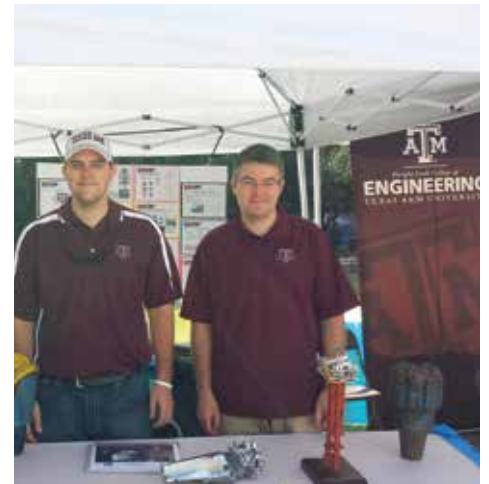
REBUILDING TOGETHER HOUSTON

On October 10, the TAMU-SPE participated in a joint volunteer project with University of Houston SPE Student Chapter. Students spent the day painting and doing minor repairs to the siding and trim of a local Houston resident's home. The project was run through Rebuilding Together Houston, a non-profit organization that has been providing free home repair and renovation services to low-income homeowners since 1982. A special thank-you goes out to David McCalvin for his generous donation of all necessary materials to complete the project.



ENERGY DAY

On October 17 our chapter was part of the Energy Day in Sam Houston Park. The event had over 25,000 people visiting from all over the Houston area to learn more about the energy industry. TAMU-SPE had a booth there where we talked about the SPE and the oil and gas industry. We would like to thank the Consumer Energy Alliance and the Office of the Provost for giving SPE the opportunity to participate in such an incredible event.



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UNIVERSITY OF HOUSTON

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EVENT RECAP

The SPE-GCS Young Professionals have been busy this season participating in continued education and networking events. In September, they hosted a networking event at Lucky Strike Bowling to help welcome PetroBowl SPE student members in Houston. It was a great turnout – they had more than 100 attendees enjoying networking, bowling and billiards. In October, the YP’s hosted a topical professional event at the Wedge Tower. Guest speaker Kevin Lacy delivered an enriching talk on “The Career Cruise: Navigating Your Career in Uncharted Waters.” The audience included professionals from energy companies, service companies, and educational institutions.



PetroBowl Social



Career Cruise



PetroBowl Social



Career Cruise

SPE-GCS YP members Danny Marquez and AJ Gundepalli kicked off the Energy4Me program at Lanier Middle School by delivering a presentation on energy. Energy4Me educates students and the public about energy in all of its incarnations. Today, SPE partners with schools around Houston to catalyze the growth and reach of the program in order to impart knowledge and information about the complex workings of the energy industry. In order to expand the program, the YP’s are looking for more volunteers like you!

In September, the SPE-GCS YP co-hosted a Galveston Beach Clean-up with SPE-GCS community services and SPE Cares Initiative at Hershey Beach, Galveston. About 40 volunteers made a difference for our environment by collecting 60 pounds of trash at Hershey Beach. Volunteers joined the SPE-GCS YP’s in October for the Playworks Leadership Junior Coach Kickoff. All three events were great opportunities to give back to the community while getting to know people from our industry.



Playworks



Playworks Leadership Junior Coach Kickoff



Playworks Leadership Junior Coach Kickoff



Playworks Leadership Junior Coach Kickoff



Playworks Leadership Junior Coach Kickoff



SPE-GCS DISCOUNTS

Houston Museum of Natural Science

SPE-GCS members can receive 30-60% percent off the regular price on all museum tickets. These discounts include HMNS exhibit halls, the Wortham Giant Screen Theatre, Burke Baker Planetarium, the Cockrell Butterfly Center, and museum special events.

Here's how to get your discount:

1. Visit <http://corporatecoupon.hmns.org/>
2. Enter this password (all lowercase): rock
3. Print your coupon. Only one coupon is needed per group.
4. Redeem your coupon for tickets during your visit or call 713-639-4629 for ticket info and scheduling.

EVENT RECAP

SPE, Rebuilding Together Houston, and Mr. Martinez want to thank the 16 volunteers from Texas A&M and UH who worked on the exterior of the Martinez home. The volunteers replaced eaves, constructed a ramp, and painted the exterior of the home all in one day. Materials for the work were sponsored by SPE-GCS Membership Chair David McCalvin and his company, McCalvin Enterprises. Thank you for your time and for making an impact on the community in which we live and work. See you all at the next one.



Rebuilding Together Houston



Rebuilding Together Houston



Rebuilding Together Houston



Rebuilding Together Houston



Rebuilding Together Houston



Rebuilding Together Houston



Rebuilding Together Houston



Rebuilding Together Houston



Rebuilding Together Houston



Rebuilding Together Houston



Rebuilding Together Houston



Energy Day is Houston's largest annual free family festival showcasing science, technology, engineering and mathematics (STEM). Nearly 70 interactive demonstrations and exhibits taught students and their families about energy, science, technology, efficiency, conservation, and careers in the energy industry. The exciting exhibits and interactions with energy experts help spark students' interest in STEM.



REMINDER

Renew and Update

Renew your SPE membership and update your profile before December 31 so that you don't miss a single issue of Connect!

The GCS Connect newsletter is your source for all SPE-GCS news and Gulf Coast Section activities.

RENEW TODAY AT:

<http://www.spe.org/join/renew.php>.

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