



Gulf Coast Section

DECEMBER
2016

CONNECT

SPE GULF COAST SECTION NEWSLETTER

UNCONVENTIONAL SUBSEA WELL ABANDONMENT: NEW APPROACHES

—GENERAL MEETING P. 16

THE VALUE OF SHARING AND LEARNING FROM OFFSHORE E&P SAFETY-RELATED DATA

HSSE-SR P. 17

TWO VITAL SECRETS FOR BUILDING BETTER TYPE WELLS

RESERVOIR P. 12

HOW NOT TO DO DRILLING AUTOMATION

SPE DISTINGUISHED LECTURER: DR. BILL KOEDERITZ

NORTHSIDE P. 19

MEMBERS IN TRANSITION

11TH SEMINAR SERIES

P. 23



CHAIR'S CORNER

DEEPAK M. GALA, SHELL

2016-2017 SPE-GCS Chair



Uncertainty and cyclical business create challenges for those of us who make our careers in the oil and gas industry. Our companies compete in a cyclical market, although the current extended downturn might be the first one many professionals have experienced. Recent retirements of experienced engineers from the baby-boom generation, and layoffs of younger and mid-career employees, have reduced the industry's in-depth technical ranks.

If you're reading this, you probably want to continue working in the oil and gas industry. How can we assure our places and build careers we can be proud of in an industry in the midst of rapid change? How do we develop the skills to succeed in an era of lower-for-longer commodity prices, while applying the latest technology, fit for purpose standardization models and without compromising safety or respect for the environment? Perhaps most important, how do we transcend the turmoil around us and enjoy our work and life?

I have come to realize that there are some things under my control and some things that I really cannot control. I suggest that you always focus on things that are under your control or realm of influence. Do the best job that you can on what you are doing now. Then look for avenues to gain new skills. Volunteer for projects that will help you gain new experience, expand your professional capabilities, and give you visibility in your company.

Like it or not, perceptions mean a lot in the workplace. Fortunately, you can control how you are perceived. While you are working to the best of your ability and adding value to your company, inform your supervisors and managers about your accomplishments and continuously seek feedback. Take advantage of performance appraisals (both formal and informal) by proactively communicating the results of your work, the problems you have solved, the skills that you have gained, and what could be done better in the future. Earlier in my career, I made a point of completing detailed quarterly performance summaries of what I had achieved, without waiting for my boss to set aside time to evaluate me. I also included projects and assignments that I planned to tackle in the next quarter. This gave me autonomy and empowerment and helped me take charge of my career.

I've also found that it is important to make each job a unique opportunity and keep an open mind. At times we find ourselves in roles that aren't exactly what we expected, especially when there are less roles available in the industry. Even in these situations, you're likely to find problems that you can solve, new things to learn, and situations that require your intuition, patience and judgment.

With the right attitude, you can make most jobs meaningful and rewarding. Whatever you do, be persistent, even when things don't go entirely right. Being persistent really helps develop resilience in your career. This approach has kept me from being resentful at work, and it has helped my personal life because I didn't have to bring hard feelings home with me every evening.

It's also important to never stop learning. Always look for something new to learn or do to expand your horizons. During the financial meltdown in 2009, I earned an executive master's degree in finance, which helped me understand the global financial crisis as well as the economics of the oil and gas industry. By learning a new technical skill or mastering a new software application, you can be more valuable to your team and your company. Find out how your company and its industry peers are developing

ways to operate more efficiently. This knowledge will likely spark ideas and suggestions of your own on how to improve your company's operations.

As we head into another exciting year, it's important for all of us to reflect on 2016, be proud of our accomplishments, take control of our careers, and welcome 2017!

SPE-GCS Update

The SPE-GCS has been providing college scholarships for students interested in math and engineering degrees since 1963. Our program has sponsored over 500 students in the 53 years that we have been awarding scholarships. The SPE-GCS currently has a total of 85 scholarship recipients in the program for 2016-17 academic year. Since 1994, SPE-GCS has given out over \$3.4 million in scholarships. The current scholarship amount is \$2000/student/year, renewable for up to 4 years based on academics and other criteria.

Earlier in the year, the SPE-GCS Board of Directors launched a scholarship fundraising effort to raise money towards a Scholarship Endowment Fund. As of November 1, 2016 we have raised close to \$100K which includes donations from SPE members and affiliates, company donations, company matching donations, named scholarship donations, and pledges. We invite you to consider future donation (tax deductible contribution) in support of our fundraising efforts. Some companies may offer matching program where your donation will go an extra step. Please visit our scholarship fund website: spegcs.org/spegcs-scholarship-fund/#Donate.

Stay engaged, stay safe,

Deepak M. Gala

December 2016

CONTENTS

STUDY GROUPS

- 9 **Drilling**
12.1.16
Joint Meeting with AADE:
The Boom of 2017
- 11 **Research & Development**
12.2.16
Nanotechnology Research for
Cleaner Waters
- 12 **Reservoir**
12.6.16
Two Vital Secrets for Building Better
Type Wells
- 13 **Completions & Production**
12.7.16
Optimizing Well Placement and
Completion Strategies in the Piceance
Basin Niobrara
- 15 **International**
12.9.16
Brexit: Implications and Issues for the
Oil & Gas Industry
- 16 **General Meeting**
12.13.16
Unconventional Subsea Well
Abandonment: New Approaches
- 17 **HSSE-SR**
12.13.16
The Value of Sharing and Learning
from Offshore E&P Safety-Related Data
- 18 **Westside**
12.14.16
Mississippi Canyon Gulf of Mexico Frac
Pack Case Histories and the
Importance of Proppant Tracing and
Gravel Pack Logging

- 19 **Northside**
12.15.16
How NOT to Do Drilling Automation

COMMITTEES

- 20 **Young Professionals**
12.3.16
CycleHouston Bicycle Build
 - 20 **Auxiliary**
12.9.16
December Luncheon:
Fleming's Steakhouse
 - 21 **Continuing Education/Career Management**
12.9.16
Accelerated Learning Tutorial:
Introduction to Gas Lift Systems
 - 21 **Young Professionals**
12.11.16
Volunteering at The Beacon
 - 22 **Education**
Where Are They Now: Scott Nonhof
 - 22 **Education**
Scholarship Fund Update
- ## MORE
- 23 **Members in Transition (MiT)**
12.2.16
11th Seminar Series
 - 27 **Special Announcements**
Ideas Launch Pad (ILP) Update

IN EVERY ISSUE

- 5 **Volunteer Spotlight**
Jennifer Pinnick
Tony Webb
- 6 **Then & Now**
Buddy Woodroof
- 24 **Event Recap**
SPE-GCS at Energy Day
YP Professional Event
YP Roughneck Camp
BD MA&D Symposium
YP at The Beacon
- 29 **SPE-GCS Student Chapter Section**
TAMU
University of Houston
- 30 **SPE-GCS Directory**

BOARD OF DIRECTORS MEETING
THURSDAY, DECEMBER 15 | 7:30 TO 10:30 AM | HOUSTON SPE OFFICE



Navigate uncertain times.
Rethink how you work.

Entero[®] MOSAIC[™]

Reserves, Economics, and Decline Software

Isn't it time to stop manipulating data through the backend, creating manual queries to report in Excel, questioning your application security, getting frustrated with poor scenario comparisons, or using 3rd party tools to enter and edit data?

Entero MOSAIC delivers *ASSET INTELLIGENCE* to help you do your work faster, with less effort. It is **one comprehensive solution** that supports corporate, project, and well level processes for reserves, economics, and declines.

- ◊ **EFFICIENCY:** Experience up to 50% in productivity gains
- ◊ **SPEED:** Go from weeks to hours in entry, editing, evaluating, reconciling, and reporting
- ◊ **INTEGRITY:** Have confidence in your data with better visibility
- ◊ **TRUST:** Improve security through role based user/data management
- ◊ **INSIGHT:** Built-in stored results with scenario comparisons at the portfolio level

Learn more at www.entero.com/mosaic, or call toll-free at 877.261.1820.

entero
energy software



SPE-GCS VOLUNTEER SPOTLIGHT

This month the SPE Gulf Coast Section is excited to feature Jennifer Pinnick and Tony Webb as Volunteers of the Month.



JENNIFER PINNICK

Jennifer got involved with SPE when she was working in Covington, LA, by attending Young Professionals events and the Deepwater Technical Symposium. In 2014, Jennifer moved to Houston and began volunteering at SPE events and attending technical webinars and learning events. Jennifer has always appreciated the opportunity to network and get more insight into particular areas of the industry. “I sometimes learn as much from talking to the other attendees over lunch or dinner as I do from the formal presentation,” she says. Currently, Jennifer serves as Chair of the Scholarship Committee.

Jennifer graduated with a degree in chemical engineering from Rice University in 2008. Since then, she has worked a variety of upstream petroleum engineering-type roles, both in production operations and reservoir engineering. In her current role, she works as an advisor in reservoir management for Chevron North America Exploration & Production. “It’s an exciting role because I get to work with diverse operations in North America – everything from heavy oil steamflood, to ultra-deepwater, to shale and tight,” she says.

A desire to give back to the SPE community that has given much to her over the years was what initially got Jennifer interested in volunteering with SPE. As she got more involved with the Education/Scholarship Committee, she realized how impactful the scholarship process is on the future generations working in the industry. Students send thank-you letters explaining how they are able to pursue the career of their dreams because of the SPE-GCS scholarship. The first time she read the thank-you letters, “I was floored, and completely inspired,” says Jennifer. “If a little bit of my time can make such a big difference in a student’s education and future career, it is completely worth it.

“The best part about volunteering is the people you meet along the way, and knowing that you made a difference.”



TONY WEBB

Tony’s involvement with SPE began with attending SPE BD Study Group meetings for several years. He then became an SPE volunteer, joining the Publicity Committee. He became Publicity Chair in 2007. He currently serves as a member of the Programs Committee.

Tony received a BA in chemistry from the University of the South (1977) and a BS in chemical engineering from Georgia Tech (1979). In 1978, he took a short course called “Introduction to Coal Mining and Petroleum Extraction” from a retired geologist, who suggested he join SPE to learn more about upstream career opportunities.

Deciding that oil and gas looked more fun than a Bayer (bauxite) plant in Arkansas, Tony became a Reservoir/Production Engineer for ARCO, where he was responsible for numerous onshore, shelf and deepwater projects. While still enjoying the technical/economic aspects of our industry, he became interested in business/contractual issues and received an MBA from the University of Houston (1990).

After expressing the desire to try a business/transaction-oriented position, Tony became a landman for Vastar, where he was responsible for a variety of onshore and offshore transactions and agreements. This became a business development position at BP, where he currently is a Project Manager with the Lower 48 Business Development group.

When asked what drives him to volunteer with SPE, he replied: “I decided that I should become involved and return the favor, as I had been enjoying the benefits of these excellent gatherings through the efforts of SPE volunteers. Since I became a volunteer, I have thoroughly enjoyed being part of a team that delivers such informative presentations while having the privilege of meeting so many incredible people in our industry. I would advise young career professionals (whether in engineering, land, finance, or legal) to take advantage of these types of volunteer opportunities to both expand their contact base and be exposed to a wider variety of topics and viewpoints on issues that impact our industry and the populations we serve.”

THANK YOU BOTH FOR ALL THAT YOU DO FOR SPE!

THEN & NOW

COLUMN BY BUDDY WOODROOF

DECEMBER 1956

What are some of the offshore rig characteristics of the future, as described by mid-20th century industry futurists? 250 ft water depths for fixed platforms and 600 ft depths for floating units; less expensive fixed-deck designs; drill ships that can drill core holes and test wells; and underwater completions.

You probably knew the story behind the America-Canada focused production company that merged the country names into its "Amerada" moniker, but did you also know that there was another refining company in Abilene of about the same era by the name of the Texas Calgary Company?

The state of Colorado plans to petition Congress to reactivate the oil-shale research plant in Rifle (with the Navy doing the work), in light of the failure of private industry to make any headway with oil-shale experiments. (Can George Mitchell be far behind?)

Speaking of the "Father of Shale," were you aware that there has been a move afoot to declare May 21 "National Shale Day," in honor of George Mitchell's birthday?

East Texas crude oil - \$2.90/bbl;
US active rig count - 2,674

DECEMBER 1976

How many of you "boomers" remember the oil-friendly Texas congressman chosen by fellow Democrats to serve as House Majority Leader in 1976? I'll give you a hint: bushy eyebrows, favorite son of the Cowtown folks. That's right — Jim Wright.

Four major oil companies report plans to set up a \$50,000 fund to compensate New England fishermen for any damages suffered during offshore oil and gas development in the upcoming Georges Bank area off the New England coast. (Are you serious? \$50,000!)

How about this for a deal? Venezuelan President Carlos Andres Perez makes a deal with Russia to supply Cuba with 20,000 bbl/day of crude in return for Russia serving Venezuela's customers in Western Europe.

Test results are due shortly for a computerized instrument designed for installation on tankers to measure the discharge rate and total hydrocarbons discharged during deballasting, with a later refinement that will record the ship's position at the moment of deballasting.

US active rig count - 1,860

DECEMBER 1996

A Garland independent is rigging up to drill a rank wildcat in Georgia in hopes of winning the \$250,000 prize from that state for completing the first successful oil or gas well there.

Iraq claims to have initial deals with 50 firms from Europe, Southeast Asia, and South America to purchase oil as soon as Baghdad accepts the terms on the long-delayed oil-for-aid program.

Chevron, Murphy and Conoco are doing battle with environmental lobby groups in their efforts to produce gas from federal waters in the Gulf of Mexico in the Destin Dome area off the coast of Florida.

Enron's planned \$2.5 billion Dabhol power project in India appears to be on track, which bodes well for its plans to import LNG from Qatar to fuel the power plant. (Best be checking the books carefully!)

Light sweet crude oil - \$23.94/bbl;
Natural gas - \$3.45/MMbtu;
US active rig count - 851

THE REST OF THE YARN

This month, we examine some of TR's famous sayings and expressions that are commonplace today.

Speak softly and carry a big stick. Teddy claimed that this was a West African proverb, but no one was ever able to confirm that. As governor of New York, he recounted his refusal to appoint a corrupt man despite the wishes of the party machinery and used the proverb to illustrate his tactics.

Bully pulpit. "Bully," meaning "first rate," was one of Roosevelt's

favorite words. His friend George Haven Putnam accused him of using the presidency to preach. Roosevelt replied, "Yes, Haven, most of us enjoy preaching, and I've got such a bully pulpit!"

Muckraker. In a 1906 speech, Teddy spoke of the Man with the Muck Rake, a character in *The Pilgrim's Progress* who continues raking muck instead of looking to the heavens. Angry about investigative pieces he felt were biased, he was firing back at journalists. Ironically, the term became a badge of honor.

Next month, we examine some more of TR's famous sayings.

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

OK, most people can probably name the largest oil-producing field in the world circa 1976 (Saudi Arabia's Ghawar field), but can you name the second-largest oil-producing field in the world at that time?

**ANSWER TO
NOVEMBER'S QUIZ**

*See the November issue for a list of the six true/false oil-finder IQ test questions, circa 1956. The correct answers are:
1) F; 2) T; 3) T; 4) F; 5) T; 6) F.*

OCTOBER'S WINNER

Keith Chandler

Retired

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.

**2015 PROFESSIONAL ENGINEERING EXAM
RESULTS FOR PETROLEUM ENGINEERING**

First Timers 61% Second+ Timers 32%
National Average Pass Rate 54%

PE Exam Application Deadline Date: December 1, 2016
Next Petroleum PE Exam Date: December 28, 2016

2016 HOUSTON COURSES
December 22 – 26, December 26 – 30

P: 405-822-6761 | E: bingwines@cox.net
winrockengineeringinc.com

**The latest stator
elastomer technology from
PV Fluid Products!**



**Drive down non-productive time with
drilling solutions that work!!**

- Minimal chemical swell
- Improved stator life in aggressive applications
- Able to maintain higher differential pressures
- Advanced fit philosophy provides broader temperature range
- Reduced chunking failures
- Higher ROP
- Increased bottom line



PV Fluid Products
The PROGRESSIVE
rotor and stator company



www.pvfluid.com



HERE'S AN **IDEA:**

RESERVES SOFTWARE
THAT HELPS YOU WORK
SMARTER, NOT HARDER.



**YOU HAVE
A CHOICE.**

Tired of pushing data back and forth between multiple applications? Want to focus more time on work that adds value? Work smarter with Value Navigator® - forecasting, economics and reserves in one reliable, robust and easy-to-learn system.

Nail your forecasts. Ace your economics. Perfect your reserves. Boost productivity. Deliver on production targets and netbacks. Happy CEO. Happy investors. Happy you. Val Nav is engineered for results like that – and times like these.

More than 300 of North America's top E&P companies choose Val Nav. Find out why.

**Proud Sponsor of NAPE Summit 2017.
See us in booth #3647.**

Visit energynavigator.com/valnav2016
or call Lynn Babec at 1-866-856-9544.



Val Nav®

by ENERGY NAVIGATOR

DRILLING

Joint Meeting with AADE: The Boom of 2017

With one quarter of the recovery under our belts on land in the US, the industry has entered a period where it is the best of times for oil and gas producers: decent commodity prices and low service costs. This is driving drilling activity and should push spending on oilfield equipment and services much higher in 2017.

RICHARD B. SPEARS



With an engineering degree from Oklahoma State University and graduate work in industrial engineering, Richard B. Spears has worked for 37 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 and was an SPE Distinguished Lecturer for 2005-2006. He is also a 30-year member of the Association of Energy Service Companies.

Spears is on the board of directors for Allied Horizontal Wireline, a wireline logging company that is commercializing GE's digital openhole logging technology; Abrado Wellbore Services, a wellbore diagnostics company; and W-Technology, a manufacturer of directional drilling components.

CleanMax
Wellbore Cleanup Software

Pegasus Vertex, Inc. | Drilling Software
(713)981-5558 | info@pvisoftware.com



EVENT INFO

Thursday 12.1.16

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
713-806-2631
Fieldwick2@gmail.com

MEMBERS

\$40/\$50 Walk-In

NON-MEMBERS

\$50

STUDENT/MIT/RETIRED SPE

\$15

PHDWIN™

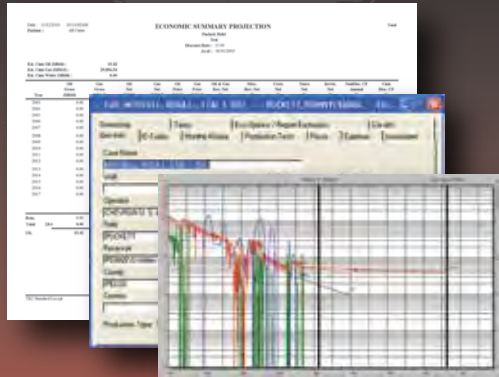
Integrated Economics & Decline Curve Analysis

NOW EVEN MORE POWERFUL WITH

PHDRMS™

Reserves Management System

The *complete solution* for evaluating, managing, and reporting reserves and performance data.



Schedule an **online** presentation **TODAY!**

TRC Consultants, LC 888-248-8062 www.phdwin.com

Visualize the Possibilities



At Petrolink we see things a little more clearly.

You can too with our advanced real-time visualization tools. From customizable displays and collaborative environments to powerful analytics and reporting, we help you spot trends, gain insights and see the potential in your operations.

www.petrolink.com



INWOOD SOLUTIONS, LLC
Enhanced oil recovery • Petroleum engineering

Petroleum Engineering
Enhanced Oil Recovery
Project Management
Profitability Analysis
Reservoir Simulation

Dr. J Roger Hite
Inwood Solutions, LLC
(713) 385-5343
hite@inwood-solutions.com

RESEARCH & DEVELOPMENT

Nanotechnology Research for Cleaner Waters

The availability of, and accessibility to, clean drinking water is a key challenge to societal stability and prosperity. The availability of, and accessibility to, clean industrial water is also a key challenge, toward its sustainable use in oil and natural gas production. The multidisciplinary field of nanotechnology has matured enough for researchers and practitioners to envision real prospects for successful solutions to the contaminated water problem. This presentation will describe different nano-based methodologies and approaches to lower contamination concentrations to acceptable levels. In addition to published literature, this talk will draw examples from the speaker's research (e.g., catalytic converters for water pollution control) and from the newly established National Science Foundation-sponsored Engineering Research Center on Nanotechnology-Enabled Water Treatment (NEWT).

DR. MICHAEL S. WONG

Dr. Michael S. Wong is Professor and Chair of the Department of Chemical and Biomolecular Engineering at Rice University. He is also Professor in the departments of Chemistry, Civil and Environmental Engineering, and Materials Science and NanoEngineering. He was educated and trained at Caltech, MIT and UCSB before arriving at Rice in 2001. His research program broadly addresses chemical engineering problems using the tools of materials chemistry, with a particular interest in energy and environmental applications ("catalysis for clean water") and an emphasis on understanding synthesis-structure-property relationships in heterogeneous catalysis. Current research activities and interests are structure-property analysis of palladium-on-gold catalysts; metal-on-metal nanoparticle synthesis; treatment of dioxane, nitrate, fluorocarbons, and chlorocarbons from water; sugar upgrading chemistry; and nanoparticle assembly.

Wong's honors include the MIT TR35 Young Innovator Award, the American Institute of Chemical Engineers Nanoscale Science and Engineering Young Investigator Award, *Smithsonian Magazine* Young Innovator Award, Guest Professorship at Dalian Institute of Chemical Physics, and the North American Catalysis Society/Southwest Catalysis Society Excellence in Applied Catalysis Award. He is Research Thrust Leader on multifunctional nanomaterials and part of the leadership team in the NSF-funded NEWT (Nanotechnology Enabled Water Treatment) Engineering Research Center, based at Rice.



EVENT INFO

Friday 12.2.16
11:30 AM - 1:00 PM

SPEAKER

Dr. Michael S. Wong
 Department Chair & Professor
 Rice University

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

MEMBERS

\$40/\$50 Walk-In

NON-MEMBERS

\$50

STUDENTS/MIT/RETIRED SPE

\$15



EVENT INFO

Tuesday 12.6.16
11:30 AM – 1:00 PM

SPEAKER

Randy Freeborn
Chief Research Engineer
Energy Navigator

LOCATION

Sullivan's Steakhouse
4608 Westheimer Rd
Houston, TX

EVENT CONTACT

Alexsandra Martinez
adinorah.martinez@gmail.com

MEMBERS

\$40/\$50 Walk-In

NON-MEMBERS

\$50

STUDENTS/MIT/RETIRED SPE

\$15

RESERVOIR

Two Vital Secrets for Building Better Type Wells

Each year, companies use averaged well production (type wells) to support billion-dollar expenditures to buy and develop oil and gas resources. These type wells often have unrepresentative rate-time profiles and recoveries overstated by as much as 50%. These intolerable errors result from common, but incorrect, assumptions in constructing type well production profiles, and the selection and weighting of analog wells.

Literature related to constructing type wells is sparse and incomplete. This lecture will fill that gap and lead participants to informed decisions for best practices in type well construction. Hind casting examples show that only small errors in recovery result when the type well construction combines historical and predicted production rates. This improvement results from using educated estimates (not intrinsic values) for months with no data to average, and from individual well forecast errors that offset one another. A Monte Carlo method incorporates risk and leads to better well selection and weighting factors, achieving more representative rate-time profiles. The recommended methodology incorporates aggregation and choosing different uncertain parameters. Parameter choice is important because it makes little sense to risk recovery (e.g., P90 for proved reserves) when the application demands a different parameter, such as present value.

Type well construction methods are common, but they have errors that are difficult to detect. Evaluators are likely using type wells for financial analysis, facility design, cash flow prediction, reserve estimation, and debt financing without knowledge of the inaccuracies and options to improve accuracy.

RANDY FREEBORN



Randy Freeborn is an expert in empirical forecasting, type wells, and related technology. As Chief Research Engineer at Energy Navigator, he is responsible for identifying and inventing engineering technology for inclusion in the company's reserve management software. He has been a professional engineer for 44 years and is a member of SPEE and SPE. Freeborn has prepared numerous technical papers for presentations at conferences, workshops and industry meetings. He has given guest lectures at the University of Houston and Texas A&M, and he has been called as an expert witness.

COMPLETIONS & PRODUCTION

Optimizing Well Placement and Completion Strategies in the Piceance Basin Niobrara

Black Hills Exploration and Production has drilled and completed a number of 8,000- to 10,000-foot horizontal wells in the Niobrara Formation in the Piceance Basin in Colorado. The Niobrara Formation in the Piceance Basin is a 1,200-foot thick, low-permeability, gas-producing pay-zone with complex rock properties. The exploration program had three major items to address: the optimal zone in which to land the horizontal wells, the proper orientation of the horizontal wellbore in that zone, and how to complete the horizontal wells effectively. The evaluation included a combination of diagnostics, such as pilot well data, microseismic and micro-deformation mapping, spectroscopy logs, borehole image logs, fracture modeling, DFITs, multi-well production logs, and production diagnostics.

DR. MIKE MAYERHOFER



Dr. Mike Mayerhofer is the Director of Technology at Liberty Oilfield Services in Denver. He leads a team of engineers providing advanced fracture engineering solutions with special emphasis on unconventional shale and tight oil and gas plays. Previously, he was the Director of the Fracturing Center of Excellence at Pinnacle, a Halliburton service in Houston specializing in the application of fracture diagnostic data to optimize fracture completions, well placement, and infill drilling strategies. His 25-year involvement with hydraulic fracturing and reservoir engineering includes fundamental research and real field applications in various global producing areas and has resulted in over 65 technical papers and journal articles. Before joining Pinnacle in 1997, he worked for Union Pacific Resources in Fort Worth. He has a doctorate in petroleum engineering from Mining University Leoben in Austria. He was a member of the SPE Well Completions Committee from 1998 to 2001 and served on the JPT Editorial Committee. He received the 2009 Completions Optimization and Technology Award for the SPE Gulf Coast North America Region.



Is challenging project documentation draining your resources?

WE can help with;

- ✓ Technical Writing
- ✓ Data Book Compilation
- ✓ Project Management
- ✓ Printing & Binding

ZAETRIC® 281-298-1878 www.zaetric.com



EVENT INFO

Wednesday 12.7.16
11:30 AM - 1:30 PM

SPEAKER

Dr. Mike Mayerhofer
Director of Technology
Liberty Oilfield Services

LOCATION

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

EVENT CONTACT

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

MEMBERS

\$40/\$50 Walk-In

NON-MEMBERS

\$50

STUDENT/MIT/RETIRED SPE

\$15



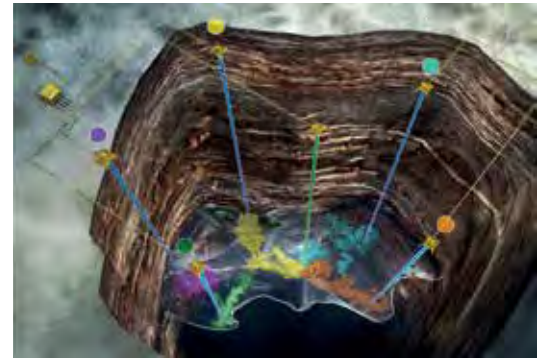
Johnson Matthey

Understand well connectivity using tracer technology

A Tracerco interwell chemical tracer study gives you critical data to help you optimize field development.

- Well connectivity determination
- Cross flow evaluation of faults and layers
- Pore volume swept calculation
- Sweep efficiency measurement
- Residual oil saturation determination

Flood smart, recover more with Tracerco technologies



To learn more about our local field and lab capabilities contact:

4106 New West Drive, Pasadena, TX 77507, USA

Tel: +1 281-291-7769 | Fax: +1 281-291-7709 | <http://hubs.ly/H03-lkQ0>



No-Cost MPD or UBO SCREENING

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

- Get insight into managing your challenging wells
- Review your best-fit solution: Conventional, MPD, UBO
- Get a blueprint for all your service needs (training, execution, personnel, analytics)



Signa Engineering Corp.
Houston, TX USA, 281.774.1000
www.signaengineering.com

- Walk away with your analysis and results
- No-obligation consultation
- By appointment only, Thursday afternoons in Houston, TX, USA

Contact:
Dr. Sagar Nauduri, PE
281.774.3116
snauduri@signa.net

Reduce water. Save money.

Hexion's AquaBond™ proppants reduced water by 92% without hindering the flow of oil compared to traditional resin coated sand in laboratory testing.

AquaBond proppants are enabling operators to reduce formation water disposal costs, maximize well profitability, and lower cost per BOE.

Visit us at hexion.com/oilfield

© 2016 Hexion Inc. All rights reserved. "AquaBond" and "Reduce water. Save money." are trademarks owned by or licensed to Hexion Inc.

INTERNATIONAL

Brexit: Implications and Issues for the Oil & Gas Industry

For its December luncheon, the International Study Group will host a discussion on the Brexit referendum outcome and its potential implications for the oil and gas industry. The British Consulate will highlight the issues and risks that the industry should be aware of and monitor, and offer insights into the current policy and political environment.

A finalized list of speakers will be announced on the event webpage.

CYNTHIA CONNER



Cynthia Conner is a Senior Policy Lead at the British Consulate of Houston and a member of the Global and Economic Policy Group at the British Embassy in Washington, DC. She focuses on international energy issues and regularly leads engagements with the oil and gas industry and Congress. Previously, Conner worked for the National Aeronautics and Space Administration at the Johnson Space Center, where she served seven years as a senior analyst supporting the Chief Financial Officer and the Office of Legislative Affairs. Cynthia holds a master's in public administration from The George Washington University and a degree in political science from Texas A&M University.

ONLINE REGISTRATION: spegcs.org/events/3451/



EVENT INFO

Friday 12.9.16
11:00 AM – 1:00 PM

SPEAKER

Cynthia Conner
Senior Policy Lead
British Consulate General - Houston

LOCATION

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

EVENT CONTACT

Mary Beth Snodgrass
713-882-3665
mbs@localconnect.com

MEMBERS

\$40/\$50 Walk-In

NON-MEMBERS

\$50

STUDENTS/MIT/RETIRED SPE

\$15

Critical Well Engineering

www.vikingeng.net

Petroleum Consulting
Multi-String Analysis
Material Selection
Well Construction
QA/TPI Surveillance
Failure Investigation
Training

VIKING
ENGINEERING

The Way Tubular Design Should Be



EVENT INFO

Tuesday 12.13.16

11:30 AM - 1:00 PM

This is a joint meeting with the Houston Chapter of the API.

SPEAKER

Martial Burguières
VP of Marine Well Services
Wild Well Control Inc.

LOCATION

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

EVENT CONTACT

Barry Faulkner
281-627-8790

MEMBERS

\$40/\$50 Walk-In

NON-MEMBERS

\$50

STUDENTS/MIT/RETIRED SPE

\$15

GENERAL MEETING

Unconventional Subsea Well Abandonment: New Approaches

Martial Burguières will make a presentation on the new techniques and technology used to abandon wells in ultra-deep offshore waters.

It is now accepted that conventional methods (rig and riser) for subsea well abandonment are no longer economically feasible and that different tools and techniques need to be developed/adopted to decrease costs. Intervention systems, both riser based and riserless, offer access to wells in a cost-efficient manner.

It is proposed that with proper implementation of tooling and materials conveyed through the intervention system, total days and costs can be further reduced. Adoption of non-cement plugging materials allows for some of these unconventional plug and abandonment (P&A) solutions. After the successful temporary abandonment (TA) of a critical deepwater well in the Gulf of Mexico utilizing bullheaded resin plugs, a myriad of applications for normal well P&A can be construed.

MARTIAL BURGUIERES



Martial Burguières is Vice President of Marine Well Services for Wild Well Control Inc. He oversees the Subsea, Unconventional Marine, and Well Contained groups.

Burguières began his career in the oilfield service sector, primarily focused on well intervention and construction with Weatherford. He has held positions at Oceaneering International Inc., Weatherford Inc., and AF Global Corp.

After joining Oceaneering as part of the DTS group, Burguières saw the need to bridge the gap between well operations and subsea equipment/workover packages, as he felt they were being developed disparately vs. in parallel.

A native of Houston, Burguières holds a BS from Texas Christian University and an MBA from Rice University.

Rose & Associates

Courses Consulting Software

Unconventional Resource Valuation and Assessment Course
(3 to 5 days)

UCRA Software
To model, value and risk drilling in resource plays

www.roseassoc.com



HSSE-SR

The Value of Sharing and Learning from Offshore E&P Safety-Related Data

Since 2014, BSEE and SPE have been collaborating to develop a voluntary, industrywide framework for sharing safety data. The framework would enhance the industry's ability to capture and share key learnings from significant events with the objective of identifying and mitigating potential high-consequence risks.

The discussions, expert opinions, and suggestions offered by a group of safety-data management experts during a summit are captured in a technical report approved by the SPE Board of Directors in September and currently posted on the SPE website. This panel discussion will present highlights from the summit and the technical report, as well as provide an opportunity for SPE members to ask questions of the panelists.

ROLAND MOREAU



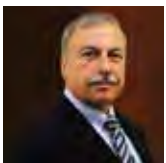
Roland Moreau (moderator) is Vice President of Finance for SPE International, as well as President-Elect Designate on Board of Trustees for the American Institute of Mining, Metallurgical, and Petroleum Engineers. He retired from ExxonMobil in 2014 after 34 years of service, mainly in the area of HSSE.

DOUG MORRIS



Doug Morris is Chief of the Office of Offshore Regulatory Programs for BSEE, responsible for developing and maintaining up-to-date regulations, policies, standards, and guidelines for best available safety practices governing the industry's offshore operations. Morris also held positions at the Energy Information Administration, the MMS, API, and Exxon.

JOHN KARISH



John Karish is an HSE consultant following a career with Ensco International, where he served as a director-level HSE professional. Karish pioneered development and delivery of safety leadership training and development programs for both operator and drilling contractor senior personnel. Karish received the 2013 SPE HSSE International Service Award.

CHARLIE WILLIAMS



Charlie Williams is Executive Director of the Center for Offshore Safety. After a 40-year career at Shell, Williams led the creation of COS and received the Offshore Technology Conference Special Citation and the SPE HSSE Award for this work. Most recently, he received the Offshore Energy Center - Pioneer Award for lifetime achievement.

DEMETRA COLLIA

Demetra Collia is Program Director for the Close Call Data Program for freight rail and transit for the Bureau of Transportation Statistics, US DOT. She has over 30 years of experience in development and implementation of safety data programs for the federal government. Before joining BTS, she was responsible for developing analytical and statistical methodology for estimating occupational risk for OSHA regulatory programs.



EVENT INFO

Tuesday 12.13.16

11:30 AM - 1:00 PM

SPEAKERS

Roland Moreau
SPE International

Doug Morris
BSSE

John Karish
HSE Consultant

Charlie Williams
Center for Offshore Safety

Demetra Collia
Bureau of Transportation Statistics

LOCATION

Marathon Oil Tower
5555 San Felipe St
Houston, TX 77056

EVENT CONTACT

Kathleen Antoine
713-496-5456
kantoine@hess.com

MEMBERS

\$40/\$50 Walk-In

NON-MEMBERS

\$50

STUDENTS/MIT/RETIRED SPE

\$15



EVENT INFO

Wednesday 12.14.16

11:30 AM -1:00 PM

SPEAKER

Jack Sanford
Deepwater Completions Consultant
Sanford Engineering

LOCATION

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

EVENT CONTACT

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

MEMBERS

\$40/\$50 Walk-In

NON-MEMBERS

\$50

STUDENTS/MIT/RETIRED SPE

\$15

WESTSIDE

Mississippi Canyon Gulf of Mexico Frac Pack Case Histories and the Importance of Proppant Tracing and Gravel Pack Logging

A case study will be presented involving Noble Energy Mississippi Canyon Deepwater (DW) Gulf of Mexico frac packs performed over the last five years. This presentation describes the role that proppant tracers and gravel pack (GP) logs played in improving operations, ensuring a complete annular pack, evaluating frac pack (FP) efficiency, and providing data for decision-making as well as identification of best practices. Included in the presentation are eight DW completions involving 13 FP treatments and an associated 17 GP logs that have been performed over the last five years in water depths ranging from 4,000 to 7,000 feet and reservoir intervals between 15,000 and 27,000 feet with pore pressures between 10.5 and 14.1 ppg.

The results and learnings described in this presentation can assist others in the industry when similar challenges are faced. Deepwater completions must be productive and reliable. Proppant tracing and gravel pack logging can assist the operator in real-time operational decision-making, production start-up procedures, and future completion design modifications, to ensure that maximum benefit is realized from the sand control treatment. It will be shown that this is another useful tool that every completion program should consider in order to ensure success and avoid preventable failures.

JACK SANFORD

Jack Sanford is a deepwater completions consultant currently working for Noble Energy and Talos Energy in Houston. Most recently, he was the Lead Completion Engineer for Noble's Gunflint Development. Sanford has worked with several operators over the last 25 years (internationally and domestically), including Noble, ENI, Exxon (Nigeria), Unocal, Amoco, and Kerr-McGee. He is a member of SPE and is a Registered Professional Engineer in Louisiana. Sanford holds BS degrees in geology and petroleum engineering from Texas A&M University, along with an ME degree in petroleum engineering.

NORTHSIDE

How NOT to Do Drilling Automation

The uses of automation in the drilling process are expanding and are typically resulting in improved drilling performance. However, many of these projects struggle in the initial stages, often trying to overcome a common set of hurdles. Many of these hurdles are not technical challenges, but instead are related to people issues and the methods for implementing the solutions. This presentation covers the basics of drilling automation and describes the problems and solutions that have been found to improve the startup success for drilling automation.

DR. BILL KOEDERITZ

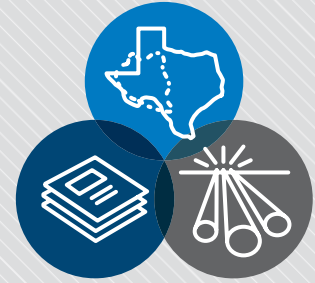


Dr. Bill Koederitz, a SPE Distinguished Lecturer, currently holds the position of Chief Technology Officer at GK Plus Innovations. Previously, Koederitz spent 20 years building real-time applications and drilling automation systems at National Oilwell Varco. Prior to that, Koederitz worked as a drilling engineer and as a university researcher. He holds BS, MS and PhD degrees in petroleum engineering from Louisiana State University and is a Registered Petroleum Engineer in Texas. He has authored or co-authored 25 technical papers and holds 15 patents.



Guar Gum Powder of various grades · Readily available in Houston for immediate delivery · We are one of the **largest stockist** of high performing Guar Gum Powder

16000 Barkers Point Lane Ste 228 | Houston, TX
832.314.7317 | www.UnityOilEnergy.com



EVENT INFO

Thursday 12.15.16
11:30 AM – 1:00 PM

SPEAKER

Dr. Bill Koederitz
SPE Distinguished Lecturer
Chief Technology Officer
GK Plus Innovations, LLC

LOCATION

SWN
10000 Energy Dr
Spring, TX 77389

EVENT CONTACT

Jon Spencer
281-844-0104
jon.spencer@tracero.com

Matt Boothe
281-731-3140
matt_boothe@swn.com

MEMBERS

\$40/\$50 Walk-In

NON-MEMBERS

\$50

STUDENTS/MIT/RETIRED SPE

\$15

CycleHouston Bicycle Build

Join SPE Young Professionals for the annual Bicycle Build with CycleHouston. Each year this organization partners with elementary schools to encourage students in kindergarten through third grade to improve reading skills, behavior, and attendance. Students who commit to a special monitoring program and fulfill all necessary requirements are rewarded with a bike! SPE Young Professionals will assist with assembling some of 10,000 bikes to be delivered to these students the week before Christmas.

*A donation of \$40 per participant is required. This 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, visit cyclehouston.org/



EVENT INFO

SATURDAY

12.3.16

9:00 AM - 12:00 PM

LOCATION

NRG Center
1 Reliant Parkway
Houston, TX 77054

EVENT CONTACT

Catalina Leal
catalina.leal@bakerhughes.com
(832) 729-5462

Antonio Lazo
antonio.lazo@chevron.com

MEMBERS & NON-MEMBERS

\$40

REGISTRATION

spegcs.org/events/3438/



Christmas Luncheon

This will be the very last Christmas Luncheon for the Houston SPE Auxiliary. We hope that past members, officers and friends will join us for this special event.

LOCATION

Fleming's Prime Steakhouse
788 West Sam Houston Parkway N, Ste 120
Houston, TX 77024

EVENT CONTACT

Evelyn Earlougher
281-419-1328
earlougher@comcast.net

EVENT INFO

FRIDAY

12.9.16

11:00 AM

Accelerated Learning Tutorial: Introduction to Gas Lift Systems

This one-day tutorial will give attendees a broad overview of gas lift operations, with an emphasis on deepwater applications. It will cover downhole equipment involved in gas lift operations, gas lift design procedure, and effects of operational changes. Attendees will also be briefed on basic troubleshooting issues.

Topics covered include:

- Overview of gas lift
- Major system components
- High-reliability deepwater solutions
- Design process for gas lift systems
- Daily operations
- Troubleshooting
- Reference information

SANDIP MELKAVERI

Sandip Melkaveri is a Gas Lift Technical Support Specialist in the Artificial Lift Systems group at Weatherford International. He provides technical support to customers and Weatherford personnel vis-à-vis designing and troubleshooting gas lift installations. Melkaveri also teaches the “Gas Lift Fundamentals in Artificial Lift Training” seminar and is an assistant instructor for a three-day gas lift applications seminar. He began his career as a mud-logger and has eight years of experience in the oil and gas industry. He holds a BS degree in petrochemical engineering from Andhra University, India, and an MS degree in petroleum and natural gas engineering from West Virginia University.

CORBIN MOZISEK

Corbin Mozisek works as a Specialist in the US Gas Lift Systems group at Weatherford International. He provides technical training and support to clients and Weatherford personnel. Weatherford operations and sales teams also look to him as a technical resource for both gas lift designing and troubleshooting. Mozisek has nine years of experience, focused mainly in gas lift. He holds a BS degree in business from the University of Houston.

EVENT INFO

FRIDAY

12.9.16

8:30 AM – 4:30 PM

SPEAKERS

Sandip Melkaveri
Technical Support Specialist
Weatherford International

Corbin Mozisek
Technical Support Specialist
Weatherford International

LOCATION

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

EVENT CONTACT

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

MEMBERS & NON-MEMBERS

\$350

STUDENTS/MIT

\$100/\$175

REGISTRATION

spegecs.org/events/3441/

Committee: Young Professionals

Volunteering at The Beacon

Please join SPE-GCS Young Professionals in their support of The Beacon, a nonprofit organization helping the poor and homeless populations of the Houston area. Since opening in 2007, the Beacon has grown from serving 80 clients per day to serving 600-800 clients daily in four core programs: The Beacon Day Center, Cathedral Clinic at The Beacon, Brigid’s Hope at The Beacon, and Cathedral Justice Project at The Beacon. These four programs come together under one roof to provide meals, showers, laundry service, case management, medical and psychiatric care, pro bono legal services, and pastoral care.

More than 85% of the services of The Beacon are operated by volunteers. On December 11, it will be the SPE-GCS Young Professionals that answer the call to service. Please come and bring friends or family.

Please have a good breakfast to stay energized throughout the event, which extends beyond the regular lunchtime and involves some physical activity. Donations of gently used or new items are appreciated.

EVENT INFO

SUNDAY

12.11.16

10:45 AM – 2:00 PM

LOCATION

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

EVENT CONTACT

Catalina Leal
832-729-5462



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, you'll be glad to know that the program has enjoyed considerable success over the past six decades. Here's winner Scott Nonhof's story:

The best times in college were found before and after class in the SPE Student Lounge in the Richardson Building at TAMU. Here you could always find a cutthroat game of 42 or a rowdy game of Hearts to join. But the lounge was also a place where we first started to learn how to work with others on projects and homework assignments. This early collaboration of minds was my entrée into teamwork-based projects, and, though I didn't know it at the time, it gave me an appreciation of working in multi-disciplinary settings that would aid me throughout my career.

I have had the pleasure of working with some of the best and brightest entrepreneurs in our industry over the past 20-plus years. Starting my career with one of the largest mineral owners in the US (International Paper), gave me broad, multi-basin experience to build on. For 10 years, I had the fortune of working with, and being outnumbered by, teams of geoscientists and landmen. Springboarding from that base to working with a small independent in the A&D sector (White Oak Energy) has afforded me both career satisfaction and professional growth.

Before receiving the SPE-GCS scholarship, I knew nothing about the petroleum industry. Receiving the SPE-GCS scholarship was my first exposure to the industry. Had I not received it, I probably wouldn't have entered the industry. As our industry prepares to graduate a new group of leaders during a time that feels upside down and backwards, my advice for students is to prepare for the worst and expect the best! It may be cliché, but this business is cyclical and preparation is the key. Our industry rewards entrepreneurs and risk takers, but know that many times our future is in the hands of product price. Plan for it.

SCOTT NONHOF



CAREER OVERVIEW

Senior Vice President,
White Oak Energy

- Spring High School - 1990
- Texas A&M University, BS in petroleum engineering

SPONSORSHIP

spegcs.org/sponsorship-opportunity/

DONATION INFO

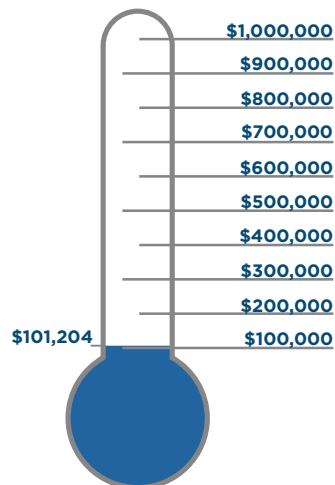
spegcs.org/spegcs-scholarship-fund/

SPE-GCS Scholarship Fund Update

We are excited to announce the status update for our fundraising efforts. As of November 1, 2016 we have raised **\$101,204** to support our scholarship program! So far, we have received donations from past scholarship recipients who wanted to give back, SPE-GCS Board of Directors, SPE-GCS Study Group and Committee Leaders, SPE-GCS event attendees, SPE-GCS members and associates, SPEi leaders, and company donations.

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

FUND STATUS



Members in Transition Initiative

11TH SEMINAR SERIES

The SPE Members in Transition Seminar Series features topics of interest to SPE members who are between jobs during the current industry downturn or who are looking for new career opportunities. The agenda for the 11th seminar in the series will include “Better Performance Through Better Communication,” “Role of Big Data Analytics in Oil & Gas Strategy,” “Successful Engineers ... How to Be a Great One?,” and a discussion of resources for SPE members.

Program 1: Better Performance Through Better Communication

This interactive discussion will cover the intricacies, subtleties and nuances of communication and how you can use them to become more productive and successful. You'll learn how to respond to what others are saying, both verbally and non-verbally, and how to better get your own messages across.



DR. DAVID PELTON

Dr. David Pelton has been a professional communicator for over 40 years and has taught courses in communication and related subjects for PetroSkills, Energy Delta Institute, The Learning Tree, Integrative Learning & Consulting, Ltd., and the Oxford Management Centre. He is President of Pelton Communications, LLC and holds degrees from Cornell University, The New England Conservatory of Music, and the University of Cincinnati.

Program 2: Role of Big Data Analytics in Oil & Gas Strategy

There is a wealth of information available for unconventional, deepwater and mature fields. With constrained CapEx and OpEx, companies have to rethink the way they look at their data, business processes, and strategy to meet production numbers and generate profits. This talk will give an insight on combining data and integrating it with IT and business processes to provide solutions for today's exigent E&P environment.

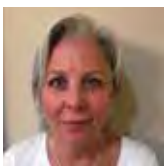


DR. ASHWANI DEV

Dr. Ashwani Dev is the Big Data Strategy Manager for Halliburton. He has more than 15 years of geoscience and technology experience in oil and gas. Dev holds a PhD and a master's in geophysics from the University of Texas at Dallas and Indian Institute of Technology, Roorkee, India.

Program 3: Successful Engineers ... How To Be a Great One?

What does it take to be a great engineer — not just a good one? It's more than education and experience; it's about what drives you to make choices. This conversation will reveal leadership tactics that will improve your decision-making and project performance.



KATHRYN HUMPHREY

Kathryn Humphrey's love of rocks has taken her far from her hometown of Fargo, ND. After a BS in geological engineering and a MS in petroleum engineering, she joined a major IOC and produced a lot of hydrocarbons through big and small oil wells and gas wells, and from dry and deepwater wells around the world. She is now consulting after 30 years with an operator and three years as a vice president of engineering.

EVENT INFO

FRIDAY

12.2.16

10:00 AM – 3:00 PM

SPEAKERS

Dr. David Pelton
President
Pelton Communications, LLC

Dr. Ashwani Dev
Big Data Strategy Manager
Halliburton Energy Services

Kathryn Humphrey
Principle Well & Reservoir Engineer
Add Energy

LOCATION

Houston Technology Center
410 Pierce St
Houston, TX 77002

EVENT CONTACT

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

Ashish Fatnani
832.415.6835
ashish.fatnani@halliburton.com

MEMBERS

\$40/\$50 Walk-In

NON-MEMBERS

\$50

STUDENTS/MIT/RETIRED SPE

\$15

Registration capped at 70

SPE-GCS CONNECT
EVENT
RECAP

SPE-GCS once again sponsored and actively participated in **Energy Day** at Sam Houston Park on October 15. SPE members GQ Guo, Sawyer Song, Derrick Klutsey, and Community Services Chair Lisa Li volunteered on a beautiful Saturday on behalf of our SPE section. Hundreds of students and parents interested in energy stopped by our booth. Each heard our one-minute rock and fluid samples lecture and took a quiz. Afterward, they were congratulated for their new knowledge about the oil and gas business. Students, parents, and the public in general appreciated the energy education SPE provided.



On September 29, more than 50 **Young Professionals** showed up for an event with consultants from Boston Consulting Group. Young Professionals broadened their perspectives and horizons in the oil and gas industry through an interactive session with BCG management consulting practitioners. The session included an overview presentation of BCG's energy practices, a panel discussion with current BCG consultants, and a post-event networking session.



RoughNeck Camp is an annual one-day conference organized by SPE-GCS Young Professionals Group. On July 21, over 300 interns and early career professionals visited the Shell Woodcreek complex to take part in RNC 2016. Bruce Culpepper, President of Shell Oil, was the keynote speaker. This year's theme was "Supporting the Current Market Conditions, Riding the Energy Roller-Coaster: Challenges and Opportunities for YPs in a Cyclic Oil & Gas Industry." As RNC 2016 Co-Chair Abe Abraham stated: "This year's RNC is a testament to the resilience of our oil and gas industry, and it clearly demonstrated that the YPs understand the values of networking — especially during a downturn."



2016 Inaugural SPE Gulf Coast Section Mergers Acquisitions, and Divestments Symposium



Over 100 seasoned and aspiring business development professionals convened at the inaugural SPE Gulf Coast Section Mergers, Acquisitions, and Divestments Symposium.

The event was held October 20 at the Petroleum Club of Houston. It featured two keynote speakers and 15 presenters – including CEOs, MA&D advisors, and engineering, finance, tax, land, and legal experts. They provided a thorough overview of the role, participants, and methods of MA&D in the upstream/midstream oil and gas industry.

Keynote speaker D. Ron Harrell, Chairman Emeritus, RyderScott Petroleum Engineers, shared an illuminating perspective on the integral role of petroleum engineering in the upstream MA&D process. Luncheon keynote speaker Phil DeLozier, Executive VP Business Development for EnerVest LTD, provided a case study of successful company formation, growth, and continual revitalization through play-focused MA&D and close attention to business cycles and execution.

The symposium closed with a networking reception at which an additional 50 business development professionals joined in the fellowship and discussions of the day.

We are grateful to SPE, all speakers and symposium committee members, our generous Scholarship Sponsors who contributed \$6,000, and the enthusiastic attendees for making this inaugural symposium a success. Thank you!

For more information on the symposium, visit spegcs.org/events/3339/.



SPE-GCS Section Mergers Acquisitions, and Divestments Symposium



SPE-GCS Section Mergers Acquisitions, and Divestments Symposium



SPE-GCS Section Mergers Acquisitions, and Divestments Symposium



SPE-GCS Section Mergers Acquisitions, and Divestments Symposium



SPE-GCS Section Mergers Acquisitions, and Divestments Symposium



SPE-GCS Section Mergers Acquisitions, and Divestments Symposium

SPONSOR DONORS

Benefiting SPE-GCS Scholarship Program

GOLD



SILVER



BRONZE





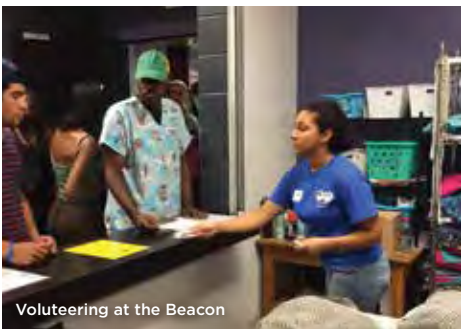
Volunteering at the Beacon



Volunteering at the Beacon



Volunteering at the Beacon



Volunteering at the Beacon



Volunteering at the Beacon

Thanks to all of our volunteers who helped out at both of our most recent volunteering events at The Beacon homeless shelter. We served the community while connecting with other Young Professionals in our industry. For more details, check out our event calendar at spegcs.org/events.



Volunteering at the Beacon



Volunteering at the Beacon



Volunteering at the Beacon



SPE-GCS Section Mergers Acquisitions, and Divestments Symposium



SPE-GCS Section Mergers Acquisitions, and Divestments Symposium

Ideas Launch Pad Update

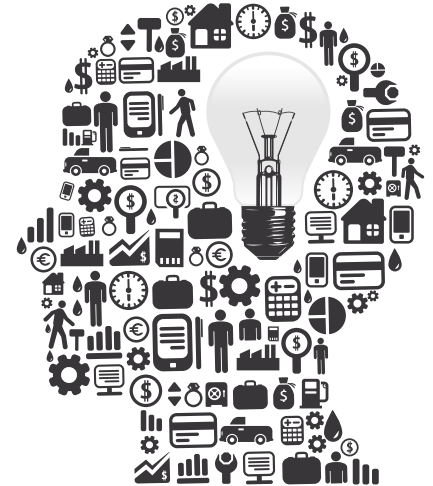
The SPE-GCS continues with its successful initiative of the Ideas Launch Pad (ILP) and is again looking for members to submit new technology ideas. Our objective is to help assess technology that has the potential to be launched as a commercial venture and to help you kick-start your dream.

If you have an idea that you believe fits this criterion, then we are looking for a two-page technical abstract laying out the idea in sufficient technical detail, the market need, and the feasibility of development, as well as a preliminary estimate of funding requirements. You can submit this information via the ILP Submission Form on the SPE Gulf Coast Section website. A committee meets regularly to review the ideas submitted and to select those that merit further support.

We are partnering with the Houston Technology Center (www.houstontech.org), the largest technology business incubator and accelerator in Texas. The HTC advances the commercialization of emerging technology companies in the greater Houston area. The ideas selected by the SPE-GCS ILP committee will be submitted to the HTC for further consideration. All four ideas submitted this year to the HTC have been accepted and the companies have commenced the business acceleration program.

The Section will cover the \$250 application fee to the HTC and will support the presentation that will be made to the HTC Energy Advisors Council. Should your fledgling company with the great idea be selected to become clients of the HTC, you will be eligible to apply for seed money of \$25,000, funded by the McNair Group, as well as ongoing support from the HTC during the incubation period as further funds are sought for development and launch of the company.

Ideas Launch Pad is managed within SPE-GCS Innovate. Innovate was formed through the combination of the Technology Transfer Committee and Digital Energy Study Group with a focus on bringing our members knowledge and insights on emerging and innovative technology that will drive next generation E&P growth.



DAYS



WORKOVERS

SCALEGUARD

Proppant-delivered
scale-inhibiting technology

Reduce your LOE with the longest-lasting scale inhibition treatment by far...and counting

SCALEGUARD® proppant-delivered scale-inhibiting technology is a unique, long-term well maintenance solution that assures optimal production and significantly reduces LOE.

Each treatment can be designed to last the life of the well, and one Uinta operator is saving over \$160,000 per well in maintenance costs each year.

carboceramics.com/scaleguard

CARBO

Production. Enhanced.

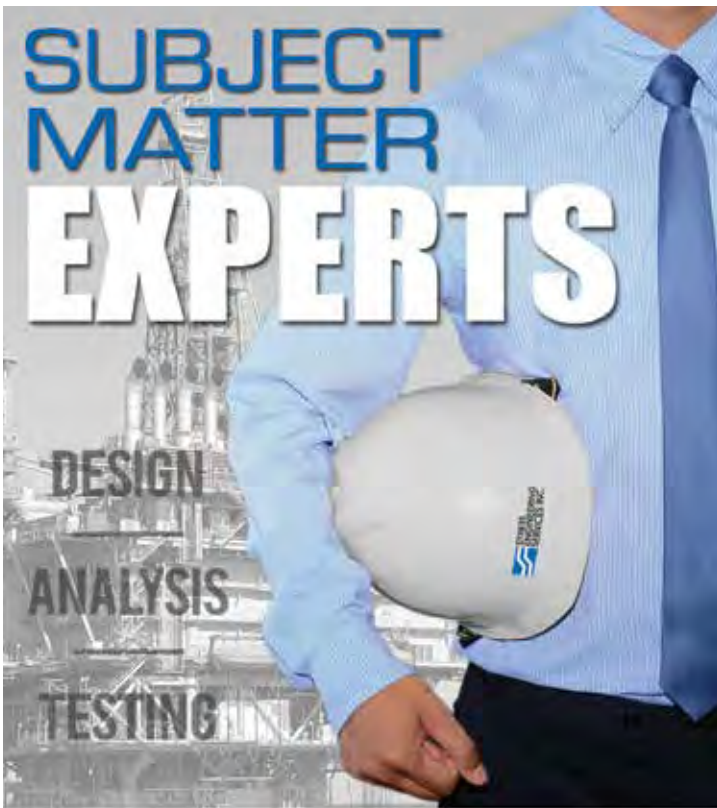
Completion Diagnostics – The EUR Enhancer



ProTechnics

For more information visit us at www.corelab.com/protechnics or call 713-328-2320

SUBJECT MATTER EXPERTS



DESIGN
ANALYSIS
TESTING

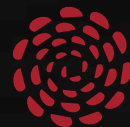
**STRESS
ENGINEERING
SERVICES INC.**

281.955.2900
www.stress.com

HOUSTON • CINCINNATI • NEW ORLEANS • BATON ROUGE • CALGARY

DELIVERING GLOBAL SOLUTIONS FOR E & P CHALLENGES

- Drilling & Completion
- Well Control
- Reservoir & Production



**SIERRA
HAMILTON**

+1.713.956.0956 • Sierra-Hamilton.com

SPE-GCS STUDENT CHAPTERS

SUCCESS AT ALL LEVELS IN INTERNATIONAL STUDENT PAPER CONTEST

Texas A&M University had a strong presence at the International Student Paper Contest at ATCE Dubai this past September. Each division had an Aggie petroleum engineer placing.

In the undergraduate division, Melissa Leroy won second place for her paper "Pattern Realignment Optimizes Waterflood in Thin Bed Sandstone."

Hanyu Li placed first in the master's division for his paper "Wave Propagation Models Capture Pressure Diffusion Behavior in Heterogeneous Unconventional Reservoirs," earning him the title of world champion.

In the PhD division, Karin Gonzalez won third place for her paper "Adaptive Grid Refinement Improves Gas Injection Modeling."

Congratulations to our new international champions on this amazing accomplishment! Whoop!

Additionally, TAMU-SPE accepted the 2016 Outstanding Student Chapter Award for the second year in a row. This award would not have been possible without the amazing hard work and leadership from the officers, board chairs, committee directors and co-chairs, faculty mentors, and members!

ENERGY DAY 2016 AND STEM NIGHTS

TAMU-SPE's Outreach Committee partnered with the Consumer Energy Alliance and participated in the annual Energy Day Festival at Sam Houston Park in Houston. SPE volunteers, in collaboration with other companies and organizations, shared our passion for the energy industry. Kids, parents and teachers stopped by our booth to learn about SPE, the oil and gas industry, and what we do as petroleum engineers. They also participated in demonstrations. The Outreach Committee thanks all of the volunteers who helped make this booth a success and the Office of the Provost and the Consumer Energy Alliance for giving TAMU-SPE the opportunity to participate.

The Outreach Committee also visited Greens Prairie and Spring Creek elementary schools in College Station for their annual STEM nights. Families stopped by our booths to talk to our members about energy and engineering, as well as learn about drilling fluids. Thank you to both schools for inviting us and to the Outreach Committee for their hard work this semester!

UNIVERSITY OF HOUSTON

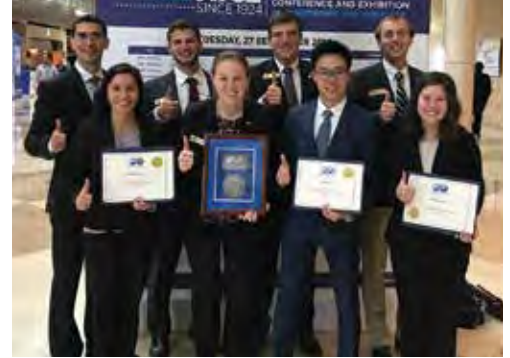
A Semester in Review

The Society of Petroleum Engineers-University of Houston Student Chapter would like to acknowledge the recent successes and events hosted by our organization. We would like to thank the numerous sponsors whose support has allowed us to continue offering excellent resources and opportunities for students.

Our Petrobowl team extends its deepest gratitude for the support of our participation in the International Petrobowl Championship hosted by the ATCE in Dubai. Our members from the University of Houston were the only team selected from the Gulf Coast Section in the global championship. We are overwhelmingly proud of our team and their representation of the Cougar community in Dubai.

In September, members toured the Ocean Star Offshore Drilling Rig and Museum in Galveston. This free event allowed students to view the real-world applications of their work in the classroom and learn about drilling activities, safety, and life on an oil rig.

During our second general meeting, we were thrilled to hear a presentation by Shahid Haq of Schlumberger. He shared his decades of professional experience as a petroleum engineer, from his beginnings as a reservoir engineer in Pakistan to being part of the world's largest oilfield services company. His brilliant combination of information and personal narrative informed our audience about the process of becoming a subject matter expert, the day-to-day activities of a professional engineer, and the future challenges of the energy industry.



Student Chapter Directory

HOUSTON COMMUNITY COLLEGE

Raymond McCoy
rqm3rd@yahoo.com

RICE

Yichen Liu
astron.liuy@gmail.com

TEXAS A&M

Alex Lambros
alex.lambros@tamu.edu

UNIVERSITY OF HOUSTON

GQ Guo
president@uhspe.org

DIRECTORY

2016-2017 Board of Directors

CHAIR

Deepak Gala, Shell
832-377-2732
deepak.gala@shell.com

VICE CHAIR

Trey Shaffer, Environmental Resource Mgmt.
281-704-3664
trey.shaffer@erm.com

PAST CHAIR / ADVANCEMENT COMMITTEE

Ivor Ellul, CiSK Ventures
713-240-2740
iellul@ciskventures.com

SECRETARY

Marise Mikulis, Baker Hughes
281-723-2901
marise.mikulis@bakerhughes.com

TREASURER

David Flores
281-381-5828
david_p_flores@yahoo.com

VICE TREASURER

Prashant Sainani, ConocoPhillips
214-315-5427
prash87@gmail.com

Board Committee Chairs

CAREER MANAGEMENT, MIT

Sunil Lakshminarayanan, Occidental
713-344-1249
sunil_lakshminarayanan@oxy.com

C. Susan Howes,
Subsurface Consultants & Associates
713-798-2444
c.susan.howes@gmail.com

COMMUNICATIONS

Bryan Marlborough,
Gate Premier Solutions
985-232-0318
bryan.marlborough@gmail.com

COMMUNITY SERVICES

Lisa Li, Williams
281-814-6849
yuli2008@comcast.net

EDUCATION

Simeon Eburi, Chevron
832-854-3134
simeon.eburi@chevron.com

INNOVATE COMMITTEE

John Reichardt, RPS Group
713-595-5121
john.reichardt@rpsgroup.com

MEMBERSHIP

Kris Pitta
713-204-5141
pittakris@gmail.com

PROGRAMS

Fady Chaban, CDEUS
832-387-7249
chabanf@gmail.com

SOCIAL ACTIVITIES

James Jackson
281-376-1993
jjackson5223@gmail.com

YOUNG PROFESSIONALS

Nii Ahele Nunoo, NOV
507-304-5416
nii.nunoo@nov.com

DIRECTORS AT LARGE 2016-2018

Mohammad Tabatabaei
Newfield Exploration
281-674-1535
mtabatabaei@newfield.com

Robert Estes
713-204-5141
ra-estes@att.net

Ernie Prochaska, NOV
281-221-1434
ernie.prochaska@nov.com

DIRECTORS AT LARGE 2015-2017

John "J.J." Jackson, Unimin Corp.
832-247-0233
jsjackson@unimin.com

Alvin Barber, Schlumberger
713-689-2725
abarberspe@gmail.com

Mark Fleming, Suntrust Robinson Humphrey
832-603-2305
mark.fleming@suntrust.com

SPE GULF COAST NORTH AMERICA REGIONAL DIRECTOR

J. Roger Hite, Inwood Solutions, LLC
713-385-5343
hite@inwood-solutions.com

Committee Chairs

AUXILIARY

Nancy Giffhorn
rgiffhorn@aol.com

OILFIELD GAMES

Lindsey Ferrell, Frontline Group
spevolunteer@frontline-group.com

AWARDS BANQUET

Jeremy Viscomi,
Petroleum Technology Transfer Council
jviscomi@pttc.org

ESP WORKSHOP

Barry Nicholson, OXY
barry-nicholson@oxy.com

GOLF CO-CHAIR

Robin Smith
robin77095@att.net

INTERNSHIPS

David Li, DSL Ocean Group
dsl6625@yahoo.com

NEWSLETTER

Brittini Romero, Unimin
editor@spegcs.org

PUBLICITY

Pablo Perez, Bardasz
pablo.perez@bardasz.com

SCHOLARSHIP

Jennifer Pinnick, Chevron
gcssholarship1@gmail.com

SPONSORSHIP

David Pantoja, Citi A&D Group
david.pantoja@citi.com

SPORTING CLAYS

Paul Conover, NOV
paul.conover@nov.com

TENNIS

Erin Chang, BP
erin.chang@bp.com

WEB TECHNOLOGY

Lindsey Newsome,
Newsome Marketing Group
lindseynewsome@gmail.com

Study Group Chairs

BUSINESS DEVELOPMENT

David Pantoja, Citi A&D Group
david.pantoja@citi.com

COMPLETIONS & PRODUCTION

Jonathan Godwin
jongodwin@hotmail.com

DRILLING

Ernie Prochaska, NOV DDS
ernie.prochaska@nov.com

GENERAL MEETING

Robert Saucedo, ASHMIN
rsaucedo@ashmin.com

HSSE AND SOCIAL RESPONSIBILITY

Trey Shaffer, Environmental Resources
Management (ERM)
trey.shaffer@erm.com

INTERNATIONAL

Mary Beth Snodgrass, Local Content LLC
mbs@localcontent.com

NORTHSIDE

Sumitra Mukhophadhay, Superior Energy
sumitra.mukhophadhay@
superiorenergy.com

PERMIAN BASIN

Amy Timmons
atimmons1114@gmail.com

PETRO-TECH

Jessica Morgan, Blackstone Minerals
jmorgan@blackstoneminerals.com

PROJECTS, FACILITIES, CONSTRUCTION

Chris Shaw, Shell
c.shaw@shell.com

RESEARCH & DEVELOPMENT

Kitty Harvey, Cameron
kitty.harvey@c-a-m.com

RESERVOIR

Freddy Alvarado, Chevron
freddy.alvarado@chevron.com

WATER & WASTE MANAGEMENT

Barbara Denson, Weston Solutions
barbara.denson@WestonSolutions.com

WESTSIDE

Steve Loving, Core Laboratories, LP
stephen.loving@corelab.com

CONNECT

INFORMATION

EDITOR

Brittni Romero | editor@spegcs.org

ADVERTISING COORDINATOR

Brendan Marlborough
advertising@spegcs.org

BOARD LIAISON

Bryan Marlborough
bryan.marlborough@gmail.com

LAYOUT & DESIGN

DesignGood | designgoodstudio.com
kristie@designgood.com

GULF COAST SECTION ADMINISTRATOR

Taylor Wright | spe-gcs@spe.org

HOURS & LOCATION

10777 Westheimer Rd, Ste 1075
Houston, TX 77042
713-779-9595 x 813 | F 713-779-4216
Monday - Friday 8:30 a.m. to 5:00 p.m.
Work Schedule - 09/80

For comments, contributions, or delivery
problems, contact editor@spegcs.org.

December 2016

CALENDAR

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY Drilling	FRIDAY Research & Development Members in Transition (MiT)	SATURDAY Young Professionals
					1	2
		Reservoir	Completions & Production		SPE-GCS office closed International Cont. Ed/Career Mgmt Auxiliary	3
	4	5	6	7	8	9
10						10
Young Professionals		General Meeting HSSE-SR	Westside	Board of Directors Northside		
	11	12	13	14	15	16
	18	19	20	21	22	23
						SPE-GCS office closed
	25	26	27	28	29	30
						31



Your Clear Solution for Deepwater Completions

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

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

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

tetratec.com



DEDICATED TO THE CØRE 

© 2016 TETRA Technologies, Inc. All Rights Reserved. TETRA and the TETRA logo are registered trademarks, and TETRA CS Neptune is a trademark of TETRA Technologies, Inc.



SOCIETY OF PETROLEUM ENGINEERS GULF COAST SECTION

10777 Westheimer Road
Suite 1075
Houston, TX 77042

NON-PROFIT
ORGANIZATION
U.S. POSTAGE
PAID
PERMIT NO. 6476
HOUSTON, TX

YOUR AD COULD BE HERE! ADVERTISE WITH US & REACH OVER 16,000 OIL AND GAS INDUSTRY INFLUENCERS EVERY MONTH!

Buy ads that really produce

SPE-GCS hits your target audience

Flexible ad sizes in full-color, glossy publication

SPECIAL PRICING & PROMOTIONAL RATES AVAILABLE FOR A LIMITED TIME, CONTACT US NOW!

ADVERTISING COORDINATOR
Brendan Marlborough
advertising@spgcs.org



ARE YOU AN ADVERTISING SALES PROFESSIONAL LOOKING FOR YOUR NEXT MOVE? BECOME A PART OF A TEAM THAT INCLUDES PROFESSIONALS FROM THE TOP PETROLEUM INDUSTRIES IN THE GULF COAST REGION.

Society of Petroleum Engineers is currently hiring for an **ADVERTISING SALES COORDINATOR** to join the Connect newsletter team. This is a great opportunity to build relationships while earning a generous commission based income.

Primary focus will be to prospect and secure ad sales for the SPE-GCS Connect monthly newsletter.

FOR MORE INFO CONTACT
Communications Chair
Bryan Marlborough
bryanmarlborough@gmail.com