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**BOARD OF DIRECTORS MEETING – APRIL 19**

**SPE-GCS@SPE.ORG**
A number of key activities are underway to renew the Board of Directors and address findings from an internal audit conducted for the Gulf Coast Section by Grant Thornton. I’ve provided a brief summary of this work by the Board for the members of the Gulf Coast Section.

Election of Gulf Coast Section Board Members

We have begun our nomination process to elect several key Board positions. The Nominating Committee will be chaired by Deepak Gala, and members include Marise Mikulis, Karin Gonzalez, Mohammad Tabatabaei, Nils Kageson-Loe, Bill Davis, and Mike Redburn.

The Nominating Committee will proceed as follows:

1. The Nominating Committee will prepare a slate of candidates for each office and the date and location of a vote for the following positions: one candidate each for the position of vice chair, secretary, vice treasurer, and three at-large directors. The Nominating Committee will also nominate one candidate for each director (key committee chair) position to be appointed by the chair.

2. The deadline to submit nominations will be April 15.

3. Please submit nominations to Deepak Gala at deepak.gala@shell.com and Taylor Wright at spe-gcs@spe.org

4. Slate of candidates will be presented at the May 17, 2018, Board of Directors meeting for approval.

5. The results will be published via e-mail or the newsletter following the Board meeting in June.

All nominees must meet the qualifications for section membership defined in Article IV of the Gulf Coast Section Bylaws.

Gulf Coast Section Audit

In support of the governance requirements of SPE and the Gulf Coast Section, Grant Thornton was retained to undertake an operational review of SPE-GCS from October 30-November 3, 2017. Prashant Sainani, Gulf Coast Section Treasurer, facilitated the audit with support from myself, Taylor Wright, and Vicki Rau. I thought it would be useful to share the following excerpt from the executive summary with members:

“The operational review focused on the Section’s underlying governance and structure and the policies, procedures and operations within the financial management and communication business processes for FY 2018 as of November 2017. The review primarily focused on benchmarking current operating processes against leading practices for not-for-profit and trade organizations. Observations and recommendations are relative to a not-for-profit or trade organization with an already established set of procedures aligned with leading practices.

Grant Thornton identified several notable processes during the review:

• SPE–GCS has active membership and encourages both petroleum engineers and adjacent disciplines to join the Section.

• Despite the energy industry down cycle and subsequent decrease in membership and funding, SPE-GCS established the scholarship fund to support students in the profession.

• The annual budgeting process combines input from all levels, including committees, study groups, and the executive committee.”

The auditors reviewed and assessed relevant documentation, including bylaws, organizational charts, roles and responsibilities, policies, financial data for 2016–2017, and key presentations.
Chair’s Corner, Continued from page 2

During the review, process design and control procedures were tested on a limited basis to determine compliance with internal policies and procedures and industry leading practices.

A number of potential operational improvements and opportunities were identified, including opportunities to improve accounting controls, policies, and procedures, as well as governance associated with the scholarship endowment fund. To address these findings, Sunil Lakshminarayanan has accepted the role of Audit Committee Chair. Sunil has developed an action plan and is working closely with the Board of Directors to address the findings.

The Gulf Coast Section has a long history, and the volunteers serving on the Board of Directors are doing great things on behalf of our section and industry. Please join me in thanking the dedicated members of the GCS Board of Directors: [www.spegcs.org/committees/board-of-directors/](http://www.spegcs.org/committees/board-of-directors/).

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**Upcoming Special Events**

Mark Your Calendars

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**APRIL**
- **12** Permian Basin Symposium
- **18** Geomechanics Congress 2018
- **19** Data Science Convention
- **26** Reservoir Technology Symposium

**MAY**
- **24** Emerging Engineers Symposium
Membership Through February 2018

- 1,198 RENEWED STUDENTS
- 10,775 PROFESSIONALS RENEWED
- 344 LAPSED STUDENTS
- 3,796 LAPSED PROFESSIONALS
- 258 NEW PROFESSIONALS
- 0 NEW STUDENTS

Current Membership Trends

<table>
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<th>TOTAL MEMBERSHIP</th>
<th>2017–18</th>
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February 2018 Membership: 12,231

A single application of SCALEGUARD proppant-delivered scale-inhibiting technology has maintained production rates and eliminated costly workovers for nearly two years in previously scale-prone wells in Manitoba, Canada. Similarly impressive results have been achieved in over 200 wells across North America.

The numbers speak for themselves
For more production enhancing technologies that improve your initial production, EUR and ROI numbers, talk to CARBO.

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[carboceramics.com/manitoba](http://carboceramics.com/manitoba)

Board of Directors Meeting

**WHEN** Apr 19, 7:30 – 10:30am

**WHERE** SPE Houston Office: 10777 Westheimer Rd, Ste 1075 Houston, TX 77042

**R.S.V.P.** Taylor Wright
T (713) 457–6821
F (713) 779–4216

[spe-gcs@spe.org](mailto:spe-gcs@spe.org)

Study Group Pricing

- **MEMBERS:** $40/$55 Walk-in
- **NON-MEMBERS:** $55
- **STUDENTS/MIT/Retired SPE:** $15
JODY MAHONEY

Jody Mahoney got involved with SPE at the University of New South Wales in Australia, where she received her bachelor’s in petroleum engineering. She then moved to Perth and became involved in the Western Australian Section of SPE. After five years in Perth, she moved to Houston and became involved in events focused on unconventionals. In 2015, she reached out to Mohammad Tabatabaei, who welcomed her into the GCS Reservoir Study Group. She served as Vice Treasurer and is now Program Chair. Jody is the Subsurface Manager for the Mad Dog Field at BHP Billiton. As a reservoir engineer, she has worked deepwater GOM, onshore unconventionals, and offshore Australia assets.

Volunteering with SPE allows Jody to meet talented, interesting people, all with a common interest. Conversations with these brilliant people keep her volunteering no matter how busy life and work become.

MOHAMMED DOOPLY

Mohammed Dooply has published technical papers, held technical committee memberships, and chaired sessions at SPE conferences. Since 2016, he has served on the Drilling Program Subcommittee for ATCE. He also serves as Arrangement Chair for the Drilling Study Group. Mohammed is a Deepwater Cementing Technical Specialist for Schlumberger, where he provides technical support for worldwide deepwater cementing operations. After earning a degree in mechanical engineering from the University of Indonesia, Mohammed joined Schlumberger in 1998 as Cementing Field Engineer in Indonesia. He has held cementing technical and managerial positions in Schlumberger operations. He is a member of AADE.
HAROLD: Cyber fraud and identity theft are hitting the news repeatedly. How concerned should people be?

PHILLIP: Plenty. It is America’s fastest-growing crime and Texas is one of the top 5 states in victims per 100,000 in population. Almost everyone at least knows someone personally who has been victimized. Our Wealth Management Committee – a group that includes attorneys, MBAs, CPAs, CFA® charterholders and CFP® practitioners – has devoted increased discussion to this topic every year for the last four years. We consider it a critical area of our risk management conversations with clients.

HAROLD: “Risk management” is usually a code word for insurance. Is this an insurance issue?

PHILLIP: Insurance is really only on the fringe of cyber fraud risk. It’s also fair to say that signing up for one of the credit fraud monitoring services, while possibly worthwhile, is certainly no panacea. You must take proactive steps to create an effective defense. That makes it a standout compared to many other risk-management strategies, and therefore unique compared to most of what we have experienced in our 46 years of advising clients.

HAROLD: What are some of those “proactive steps?”

PHILLIP: Locking down your credit bureau files, creating a “deterrence” protocol with your credit card usage, and putting penetration “armor” on your major asset accounts – these are a few, but more than time permits detailing. The key is to invest the time, preferably with the help of someone qualified to give counsel, to develop a set of strategies that work efficiently for you and are relatively hassle-free to maintain.

At Linscomb & Williams, our Wealth Advisors are prepared to invest that time with you as part of a client-centered wealth management conversation. We are ready to start that conversation on a no-cost, no-obligation, exploratory basis at our offices in the Houston Galleria or The Woodlands.

For more information, or a copy of our Form ADV, Part II, with all of our disclosures, call Harold Williams at 713 840 1000 or visit www.linscomb-williams.com.
THE REST OF THE YARN

This month we continue our look back at the rise and fall of wildcatter Glenn McCarthy, as an unlikely financial partner for his hotel steps forward.

As World War II drew to a close, in the summer of 1945, a broker put McCarthy in touch with an officer at the Equitable Life Assurance Society of the United States. It was a fateful choice. Up and down Fifth Avenue, scores of New York lenders, keenly aware of the massive loans Sid Richardson and Clint Murchison had taken, were flocking to find oilmen of their own to fund. America’s third-largest lender, Equitable, was late to the oil game but determined to catch up. Its executives had opened their oil lending office in Dallas just weeks before, in May 1945. Its first loan was for $425,000. The second, to McCarthy, would be a jaw-dropping $22 million, among the largest loans Equitable’s board had ever approved. That was only the beginning.

To ascertain McCarthy’s creditworthiness, Equitable first commissioned an analysis of his business. In February 1946, a petroleum engineer it had hired valued McCarthy’s oil and gas reserves at $45 million. On the strength of that report, Equitable advanced McCarthy the first $22 million, all but $3 million of which went to pay off existing debts. McCarthy knew that more would be coming, and in short order began to put his plans into motion. He moved his offices into the Shell building, taking up the entire sixth floor, and hired a public-relations man, a Houston radio veteran named Fred Nahas. If McCarthy so much as burped, Nahas made sure it got into the papers. Texas reporters quickly discovered that McCarthy, with his dashing mustache and good looks, was eminently quotable—making him an entirely different animal from taciturn Hugh Roy Cullen or other press-shy Texas oilmen. So frenetic were McCarthy’s preparations that year, and so effective Nahas at publicizing them, it sometimes seemed McCarthy was the only oilman in Houston in 1946.

Next month, McCarthy begins his promotional campaign.

APRIL 1970

Russian oilmen are reportedly involved in exploration-development programs in more than 20 countries, while boasting of enormous new Siberian reserves, all of which are threatened by high production costs.

The infant organization of Arab Petroleum Exporting Countries (Oapec) reports five more Arab producing nations (Algeria, Bahrain, Qatar, Abu Dhabi, and Dubai) as seeking to be admitted, to join present members Kuwait, Saudi Arabia, and Libya.

US rig count: 927

APRIL 1985

London-based Scottish and Marine Oil plc and partners report strong hydrocarbon shows off Sicily in its first well in Italian waters (sure beats working in Muleshoe, TX!). Conoco looks to install as many as three tension-leg well platforms (TLWP) to develop the deepwater Green Canyon in the Gulf of Mexico, and the three platforms would share a permanently moored tanker, which would contain the production equipment and personnel accommodations.

US rig count: 1,939

APRIL 2000

The movement toward the virtual oil company continues to gain momentum, as McMoRan Exploration and Halliburton announce the formation of an alliance in which Halliburton will take over the operation of McMoRan’s Gulf of Mexico E&D program.

Nigeria creates a new police unit—authorized to shoot vandals on sight—to protect its oil pipelines, acknowledging that they have tried all other alternatives and now must resort to this extreme measure.

Light sweet crude oil: $26.99/bbl
Natural gas: $2.92/MMbtu

US rig count: 775
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Light sweet crude oil:
$26.99/bbl

Natural gas:
$2.92/MMbtu

US rig count:
775

HISTORY QUIZ

The majority of the earliest fracturing fluids were oil-based. By 1970 (and within 5%), what percentage of the fracturing fluids being employed were water-based?

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

ANSWER TO MARCH’S QUIZ

In the early part of the 21st century, John Browne, Group Chief Executive with BP, was quoted as saying, “I believe the American people expect a company like BP, the largest single supplier of oil and gas in this country, to offer answers, not excuses.”

Congratulations to February’s winner – Jack Courtney

CONNECT WITH SPE-GCS

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Announcing the launch of the Digital Transformation Study Group!

Tentative Lunch & Learn subjects include:
- OMV Sucker Rod Pump Edge Analytics
- DCP Benefits of Analytics and Physics based IoT
- Transocean, IoT Deployment Lessons Learned

Check the webpage specs.org/study-groups/digital-transformation/ for monthly Lunch & Learns Agenda. From that page use the link provided to review your preferences to receive email updates from our study group!

**RESEARCH & DEVELOPMENT**

**Imaging P- and S-wave 9 Component Seismic Data**

RARE is an exclusive, proprietary, state-of-the-art seismic processing algorithm.

- RARE’s software extracts weak signals from complex noisy seismic data.
- RARE offers a novel method to extract S-wave information (SV-SV, SH-SH, P-SV and SV-P wavefields) from a Vertical Force Sources (VFS), traditionally considered to be a P-wave sources, from 2D (1C or 2C) seismic data or 3D multicomponent seismic data.
- R&D includes extraction of the SV-P wavefield from traditional/legacy P-wave datasets.

**JOHN ROBINSON**

John Robinson has been active in seismic R&D for the past 14 years and is the inventor of RARE Technology (RARE). John holds 18 patents and patent applications in the United States and other countries for RARE Technology. John believed in his technology so much that he used it to successfully drill wells for his own O&G company, e-Wave Exploration, L.P.
Countering Human Trafficking: Risks and Strategies for the Oil and Gas Industry

In the aftermaths of a disaster, such as Hurricane Harvey, a sudden demand for workers can lead to exploitation. Especially in remote areas where workers and services may be limited, there is a risk of illicit labor recruiters providing workers to contractors in their supply chain. There has been a precedent of legal cases related to Hurricane Katrina and the oil and gas industry. This presentation will discuss potential risks to the industry and provide recommendations for intervention and prevention of labor exploitation.

MINAL PATEL DAVIS

Minal Patel Davis serves as Houston Mayor Sylvester Turner’s Special Advisor on Human Trafficking. She is charged with making a local impact on human trafficking from a policy-level perspective and by advancing systems change. She developed and is implementing Turner’s Anti-Human Trafficking Strategic Plan. Davis received her JD and MBA from the University of Connecticut and a BA from NYU.
Optimization in Unconventional Oil & Gas: How Far Can We Go?

Unconventional oil and gas resource development in North America has benefited significantly from operators’ relentless focus on cost reduction and optimization. A number of workflow improvements and new technologies have enabled operators to reduce costs consistently over several years. Some cost reductions have also come from discounts provided by oilfield service and equipment players following the recession. This presentation will provide an overview of cost optimization in unconventionals over the past few years and key drivers along with identifying new opportunities for cost optimization.

Uday Turaga is Founder and CEO of ADI Analytics, a management consulting firm. Turaga has led ADI for the past nine years and through 300 projects for clients including ExxonMobil, Shell, Saudi Aramco, BASF, GE, Honeywell, and the US Department of Energy. Turaga holds a PhD in fuel science from Penn State and an MBA from UT-Austin. He has authored over 100 papers and patents.

Beating the Competition – Deepwater vs. Shale

This presentation will examine the economic and technology metrics for deepwater and shale as they compete for asset dollars. The oil patch is getting healthy again, but in a vastly different world. Improving efficiencies, completion of “the great crew change,” and emerging/alternative energy sources are keeping prices lower for longer.

Deepwater prospects, once a big part of the oil patch’s growth, face significant competitive headwinds, primarily from shale. Shale continues to improve production efficiencies and gain market share. For deepwater to compete, it will need to find new configurations and efficiencies other than just dropping the cost of equipment.

Brian Skeels

At TechnipFMC, Brian Skeels serves as technical advocate and strategic planning specialist for new technologies, HPHT, riserless light well intervention, ROV interfaces, remote robotics, and hydrate remediation programs. Skeels has a BS in mechanical engineering from Cornell University and an MS in ocean engineering from the University of Rhode Island. He is an Adjunct Professor in subsea engineering at the University of Houston.
Dr. Ge Jin is a Senior Geophysicist in subsurface technology at ConocoPhillips. He developed a series of applications that utilize DAS signals in the low-frequency band to characterize unconventional reservoirs. Jin obtained his PhD in geophysics from Columbia University and holds BS degrees in geophysics and computer science from Peking University.

**DR. GE JIN**

Dr. Ge Jin is a Senior Geophysicist in subsurface technology at ConocoPhillips. He developed a series of applications that utilize DAS signals in the low-frequency band to characterize unconventional reservoirs. Jin obtained his PhD in geophysics from Columbia University and holds BS degrees in geophysics and computer science from Peking University.

**Hydraulic Fracture Geometry Characterization Using Low-Frequency DAS Signal**

Monitoring and diagnosing completions during hydraulic fracturing operations provides insights into the fracture geometry, interwell frac hits, and connectivity. This presentation will showcase examples using the low-frequency band of the DAS signal to constrain hydraulic fracture geometry. It will be shown that DAS data in the low-frequency band provide a powerful attribute to monitor small strain and temperature perturbations in or near the monitor wells.

**EVENT INFO**

**WHEN**
Wed, April 18, 2018
11:30am – 1:00pm

**SPEAKER**
Ge Jin
Senior Geophysicist, ConocoPhillips

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

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

**REGISTER ONLINE**

Liang Xu is responsible for developing fracturing additives, including surfactant, friction reducer, and proppant transport. He was the recipient of the MVP award for surfactant technologies from Halliburton Academy, and his RockOn surfactant technology was voted the best production chemical in 2013 by World Oil. He has authored or co-authored over 15 SPE papers and several patents.

**SPE Distinguished Lecturer - Liang Xu**

**EVENT INFO**

**WHEN**
Thurs, April 19, 2018
11:30am – 1:00pm

**SPEAKER**
Liang Xu
Technical Manager, Halliburton

**LOCATION**
SWN Campus
10000 Energy Dr, Spring, TX 77389

**CONTACT**
Jon Spencer – 281-291-7769
jon.Spencer@tracerco.com
Matt Boothe – 281-731-3140
matt_Boothe@swn.com

**REGISTER ONLINE**
Operators’ Group, Rig Contractors, and OEM/Service Company Work to Solve Rig Data Quality Issues

IADC/SPE-18962

Matt Isbell graduated from the University of Texas with a BSME and has 27 years of experience optimizing drilling performance in fields around the world. He is a Drilling Optimization Advisor at Hess focused on developing and implementing a continuous improvement process to target and address value limiters during drilling and completion operations.

Production Optimization With Artificial Lift and Why Should You Care

DR. RAJAN CHOKSHI

Dr. Rajan Chokshi is an Artificial Lift and Production Optimizer. With 34-plus years of global experience, he has worked in multi-phase flow, artificial lift optimization, and real-time production monitoring. He has co-authored over 15 SPE papers, delivered SPE webinars, and conducts workshops globally. He has been selected as an SPE Distinguished Lecturer twice.
BUSINESS DEVELOPMENT

Tellurian – The LNG Export Race

Tellurian’s Vice Chairman and co-founder, Martin Houston, will discuss how the growth in US natural gas production and increasing liquefied natural gas (LNG) exports have impacted the global gas markets – and what role Tellurian has to play.

Tellurian is developing an LNG production and export terminal on the west bank of the Calcasieu River, south of Lake Charles, LA. The project is expected to be sanctioned in 2019 and to ship its first cargo by 2023. Tellurian is also developing upstream and midstream assets to support its LNG development.

A networking hour in the mezzanine will be followed by an hour-long program, including Q&A.

MARTIN HOUSTON

Martin Houston is co-founder and Vice Chairman of Tellurian. He retired from BG Group in 2014 as Chief Operating Officer and a member of the board of directors. Houston sits on the National Petroleum Council and is a Fellow of the Geological Society of London. He has a bachelor’s degree in geology from Newcastle University and a master’s in petroleum geology from Imperial College, London.

EVENT INFO

WHEN
Wednesday
April 25, 2018
5:00-7:00pm

SPEAKER
Martin Houston
Vice Chairman and Co-Founder
Tellurian

LOCATION
Four Seasons Hotel Houston
1300 Lamar St
Houston, TX 77010

CONTACT
Heidi Epstein
832-679-7182
heidi.epstein@ihsmarkit.com

REGISTER ONLINE
PERMIAN BASIN

SPE-GCS Permian Basin Study Group Presents

2018 Permian Basin Symposium: Permian Basin Challenges & Opportunities in a Cyclic Oil & Gas Industry

Annually, SPE-GCS hosts the Permian Basin Symposium, a one-day conference primarily focused on the most prolific and active basin in the US. In its 12th year, the event continues to provide a networking forum to discuss and disseminate the latest innovations and technological advances that drive the Permian Basin's resurgence despite the challenging market conditions. We expect over 300 engineers, scientists, academics, managers, and financial executives to attend.

Please visit [www.spegcs.org/PBS](http://www.spegcs.org/PBS) for more information.

KEYNOTE SPEAKERS

MONTE DOBSON

Senior Vice President of Development, XTO Energy

ALLEN GILMER

Co-Founder and Executive Chairman, Drillinginfo

EVENT INFO

WHEN

Thursday
April 12, 2018
8:00am – 4:20pm

LOCATION

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

PRICE

Members: $125
Non-Members: $150
Students/MIT: $40

Please also join us for happy hour after the event.
4:30-7:00pm

The General Public
797 Sorella Ct, Ste 118
Houston, TX 77024

REGISTER ONLINE

SPEAKERS

- Abe Abraham and Amy Timmons
- George King – Distinguished Engineering Advisor, Apache
- Kathy Ball – E&P Analytics and Data Science Manager, Devon Energy
- Shauna Noonan – Chief Production Officer, OXY
- Jim Rose – Partner, Sidley Austin LLP
- Patrick Lissonnet – Vice President, Kayne Capital
- Jon Grimmer – Vice President, Quantum Energy Partners
- Joey Hall – Executive VP of Permian Operations, Pioneer Natural Resources
- Dave Soberneim – Executive VP of Engineering & Technology, Keane Group
GEOMECHANICS

Geomechanics Congress: Recent Advancement in Petroleum Geomechanics

The Geomechanics Congress is an effort from SPE-GCS to contribute and impart technical knowledge to members. Attendees can learn and discuss, with highly recognized speakers, the latest petroleum geomechanics topics and top technology developments. The event will discuss exploration, drilling, completion, and production geomechanics.

Gold Sponsors

Silver Sponsors

SPE-GCS is pleased to support the Geomechanics Congress with Gold and Silver Sponsors.

EVENT INFO

WHEN
Wed, Apr 18, 2018, 7:30am – 4:00pm

LOCATION
Southwestern Energy
1000 Energy Dr, Spring, TX 77389

CONTACT
Reza Safari – 546-804-8916
reza.safari@weatherford.com

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

REGISTER ONLINE

AGENDA

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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</thead>
<tbody>
<tr>
<td>7:30am</td>
<td>Registration/Breakfast</td>
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<tr>
<td>8:20am</td>
<td>Welcome and safety briefing</td>
</tr>
<tr>
<td>8:30am</td>
<td>Keynote</td>
</tr>
<tr>
<td>9:15am</td>
<td>Using Geomechanics Earlier in the Life Cycle</td>
</tr>
<tr>
<td>9:40am</td>
<td>Salt Flow and Deformation of Reservoir Intervals Within Layered Evaporate Sequences Over Geological Time Scales: Insights From Geomechanical Forward Modeling</td>
</tr>
<tr>
<td>10:05am</td>
<td>Implications of New Stress Mapping for Oil and Gas Production in Tight Formations</td>
</tr>
<tr>
<td>10:30am</td>
<td>First break/networking</td>
</tr>
<tr>
<td>10:45am</td>
<td>Drill Bit Geomechanics: Providing the Data Needed for Mechanical Studies</td>
</tr>
<tr>
<td>11:10am</td>
<td>Pore Pressure Prediction and Wellbore Stability Analysis to Reduce Drilling Risks</td>
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<tr>
<td>11:35am</td>
<td>Lunch/networking</td>
</tr>
<tr>
<td>12:45pm</td>
<td>Mapping Reservoir Stress Conditions Using Hydraulic Fracturing Microseismicity</td>
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<tr>
<td>1:10pm</td>
<td>Geomechanical Effects on the Efficiency of Plug &amp; Perf Completions in Unconventional Wells</td>
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<tr>
<td>1:35pm</td>
<td>How Much Do Proppants Contribute to Production in Unconventional Resources?</td>
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<tr>
<td>2:00pm</td>
<td>Geomechanical Modeling of Asymmetric Hydraulic Fracture Height Propagation in a Multilayered Rock Using Damage Mechanics and the Material Point Method</td>
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<tr>
<td>2:25pm</td>
<td>Second break/networking</td>
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<tr>
<td>2:45pm</td>
<td>Well Productivity Enhancement: From Reservoir Geomechanics to Near-Wellbore Geomechanics</td>
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<tr>
<td>3:10pm</td>
<td>Utilizing 3D Geomechanics Models to Evaluate and Influence Production and Injection Operations</td>
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<tr>
<td>3:35pm</td>
<td>Coupled Reservoir/Geomechanics/Stimulation Modeling Workflow to Forecast and Mitigate Infill Degradation</td>
</tr>
</tbody>
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DATA ANALYTICS

Data Analytics Study Group Presents the Data Science Convention
Transforming the Upstream O&G Industry with Advanced Data Science Solutions

SPE-GCS will host a one-day Data Science Convention at the Norris Conference Center in Houston on Thursday April 19. The theme is “Transforming the Upstream O&G Industry with Advanced Data Science Solutions.” The convention is intended for upstream oil and gas professionals, academics, and students with interests in emerging data science, machine learning, and artificial intelligence applications.

SPONSORED BY:

AGENDA

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>7:30am</td>
<td>Registration and Reception</td>
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<tr>
<td>8:00am</td>
<td>Keynote: Greg Leveille, CTO, ConocoPhillips</td>
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<tr>
<td></td>
<td>Session: Levering Emerging Technologies</td>
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<tr>
<td>8:30am</td>
<td>Kim Pham, Assoc. Partner, IBM Global Business Services</td>
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<tr>
<td>9:00am</td>
<td>Dr. Richard Baraniuk, Victor E. Cameron Professor, Rice University</td>
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<tr>
<td>9:30am</td>
<td>Pallav Sharma, Chief Scientist, Tachyus</td>
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<tr>
<td>10:00am</td>
<td>Break</td>
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<tr>
<td>10:30am</td>
<td>Session: Driving Oilfield Efficiencies and Productivity</td>
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<td></td>
<td>Pedro Esteves Aranha, Technology Advisor, Petrobras</td>
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<tr>
<td>11:00am</td>
<td>Patrick Rutty, Sr. Product Manager, DrillingInfo</td>
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<tr>
<td>11:30am</td>
<td>Barry Zhang, CEO Quantico Energy Solutions</td>
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<tr>
<td>12:00pm</td>
<td>Lunch</td>
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<tr>
<td>1:00pm</td>
<td>Keynote: Michael Rowley, Director of Technology &amp; Innovation BP</td>
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<td></td>
<td>Session: Unlocking New Hydrocarbon Resources</td>
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<tr>
<td>1:30pm</td>
<td>Prashant Mehrotra, Senior Manager, Strategy, Accenture</td>
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<tr>
<td>2:00pm</td>
<td>Dr. Liz Percak-Dennett, Technology Director, Biota Technology</td>
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<tr>
<td>2:30pm</td>
<td>Break</td>
</tr>
<tr>
<td>3:00pm</td>
<td>Panel Session: Building Data Science Practices in Organizations</td>
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<td></td>
<td>Andy Flowers, Director, Advanced Analytics, Marathon Oil</td>
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<td></td>
<td>Pradeep Ashok, Senior Research Scientist, University of Texas, Austin</td>
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<td></td>
<td>Pat Kinder, Sr. Director, Pioneer Natural Resources</td>
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<td></td>
<td>Troy Ruths, CEO and Chief Data Scientist, Ruth Analytics and Innov.</td>
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<tr>
<td>4:15pm</td>
<td>Closing Remarks</td>
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<tr>
<td>4:30pm</td>
<td>Networking and Exhibition</td>
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EVENT INFO

WHEN
Thursday
Apr 19, 2018
7:30am – 6:00pm

LOCATION
Norris Conference Center – Town & Country
816 Town and Country Blvd #210
Houston, TX 77024

EXHIBITION REGISTRATION
Supriya Gupta
supriya026@gmail.com
Jeremy Vila
jeremypvila@gmail.com
Tom Howes
howestb@gmail.com

PRICE
Members: $175
Non-Members: $200
Students/MIT/Retired: $75
Above pricing ends on 4/18/2018

REGISTER ONLINE
# Reservoir

## 2018 Reservoir Technology Symposium

Maximizing Our Resource

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

## Agenda

<table>
<thead>
<tr>
<th>Session 1</th>
<th>Technology &amp; Innovation: Emerging Technologies to Maximize Our Resources</th>
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<tbody>
<tr>
<td>S1.01</td>
<td>Andrew Oghena, Chevron</td>
</tr>
<tr>
<td>S1.02</td>
<td>Reza Rastegar, Occidental Petroleum Corporation</td>
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<tr>
<td>S1.03</td>
<td>Hani Elshahawi, Shell</td>
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</table>

<table>
<thead>
<tr>
<th>Session 2</th>
<th>Production Forecasting &amp; Reserves Estimation</th>
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<tbody>
<tr>
<td>S2.01</td>
<td>Dan Diluzio, Newfield</td>
</tr>
<tr>
<td>S2.02</td>
<td>Christine Ehlig-Economides, University of Houston</td>
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### Lunch

Keynote Luncheon: Oil Geopolitics and US-Mideast Relations

Jim Krane, Rice University’s Baker Institute

<table>
<thead>
<tr>
<th>Session 3</th>
<th>Unconventional Reservoirs – A Service Company’s Perspective</th>
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<tbody>
<tr>
<td>S3.01</td>
<td>Johannes Will, Dynardo</td>
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<tr>
<td>S3.02</td>
<td>Liz Percak-Dennett, Biota</td>
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<tr>
<td>S3.03</td>
<td>Chet Ozgen, Nitech</td>
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<tr>
<th>Session 4</th>
<th>Unconventional Reservoirs – An Operator’s Perspective</th>
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<tbody>
<tr>
<td>S4.01</td>
<td>Faye Liu, ConocoPhillips</td>
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<tr>
<td>S4.02</td>
<td>Do Shin, Occidental Petroleum Corporation</td>
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<tr>
<td>S4.03</td>
<td>David Rains, Chevron</td>
</tr>
</tbody>
</table>

## Event Info

### When

Thurs, Apr 26, 2018, 7:30am – 4:00pm

### Location

Anadarko Conference Center
1201 Lake Robbins Dr
The Woodlands, TX 77380

### Registration & Pricing for Symposium

**Thursday | April 26, 2018**

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<td>$125</td>
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<tr>
<td>Registration</td>
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<tr>
<td>Students/MIT/Retired</td>
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*Limited spots. See website for details.

### Registration & Pricing for One-Day Workshop

**Friday | April 27, 2018**

**One-Day Workshop Sponsored by 3esi-Enersight**

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<th>Category</th>
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<td>Late Registration</td>
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<td>Registration</td>
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<td>Students/MIT/Retired</td>
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## Sponsors

Diamond | Platinum | Gold | Silver | Bronze |

Anadarko Petroleum Corporation | RFD Rock Flow Dynamics | Entero | CMG Computer Modeling Group LTD | Reservoir Data | Miller and Lents
MEMBERS IN TRANSITION (MiT)

SPE MiT Initiative: 27th Seminar Series
The SPE Members in Transition Seminar Series features topics of interest to SPE members who are transitioning between jobs during the current industry downturn or who are looking for new opportunities. The agenda for the 27th seminar will include the following programs:

PROGRAM 1
What Type of Mentor Are You?
There are many opportunities to mentor, but you must first determine which mentoring capacity is best suited for you. This discussion will cover the following mentoring categories and the roles the mentor and mentee play in the relationship: technical, job, career, impact, or counseling. Everyday opportunities to give back in this way will also be shared.

CHUCK GREER
Chuck Greer was recently recognized as Chevron Mentor of the Year. His 40-plus-year career includes roles of increasing responsibility at Chevron, Production Management Industries, Growth Resources, and Schlumberger. He received MS and BS degrees in electrical engineering from Virginia Tech.

PROGRAM 2
Data to Make Value-Driven Decisions
Cheng Zhang will demonstrate an effective visual analytical workflow utilizing pertinent geologic and engineering data to generate a type well profile. The type well profile provides an improved understanding of predicted well performance, critical to estimating the economic outcome and thereby reducing risk for value-driven decisions.

CHENG ZHANG
Cheng Zhang partners with OGRE Systems to grow their professional reserve-related brand, R3. He received a BS in petroleum geology from SWPU in China and MS degrees in petroleum engineering from the University of Houston and the University of Wyoming.

PROGRAM 3
BetterSpeak: 3 Steps to Improving How You Say What You Say
Ever gotten irritated when people ask you to repeat something because they couldn’t understand you? Ever thought that it may be because you don’t speak well? Learn to improve how you speak so people won’t keep interrupting you and making your life miserable.

DR. DAVID PELTON
Dr. David Pelton has been a professional communicator/presenter for 45 years and has taught courses in communication and communication-related subjects. He holds degrees from Cornell University, The New England Conservatory of Music, and the University of Cincinnati.

EVENT INFO
WHEN
Friday
April 20, 2018
10:00am – 3:00pm

SPEAKERS
Chuck Greer
Well Abandonment Advisor
Chevron

Cheng Zhang
Business Development Executive
OGRE Systems

Dr. David Pelton
President
Pelton Communications, LLC

LOCATION
Houston Technology Center
410 Pierce St
Houston, TX 77002

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

Ashish Fatnani
832-415-6835
ashish.fatnani@halliburton.com

PRICE
Members: $40/$50 Walk-In
Non-Members: $50
Students/MIT/Retired: $15

Registration Cap: 70

REGISTER ONLINE
CONTINUING EDUCATION

Accelerated Learning Tutorial: Introduction to Petroleum Geology

This daylong tutorial will give attendees an overview of geological concepts in the context of petroleum exploration and production. Topics include petroleum generation and accumulation and the variables within depositional systems that impact reserve recovery. Attendees will receive a certificate for eight Professional Development Hours.

TOPICS
- Introduction
- Historical geology/geologic time
- Physical geology/depositional processes and stratigraphy
- Depositional basins
- Structural geology
- Petroleum reservoirs/ conventional and unconventional
- Reservoir characterization
- The petroleum prospect
- Reference information

DR. MAGGIE DALTHORP

Maggie Dalthorp most recently served as Exploration Manager for Murex Petroleum Corporation. Prior experiences include running her own company, Moorhouse Associates Inc. Dalthorp holds an MBA and a doctorate in coastal and marine system science from Texas A&M University-Corpus Christi and a bachelor’s in geology from The University of Texas at Austin.

EVENT INFO

WHEN
Friday
April 20, 2018
8:30am – 4:30pm

SPEAKER
Dr. Margaret Dalthorp
Exploration Manager
Murex Petroleum Corporation

LOCATION
SPEI Houston Training Center
10777 Westheimer Rd
Houston, TX 77042

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

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

REGISTER ONLINE
Artificial Lift for Unconventionals

Artificial lift is a vital application in today’s unconventional environment. Two common types of artificial lift are gas lift and hydraulic lift. During this discussion, attendees will learn the basic concepts of these lift systems and how they are being used.

For gas lift, discussion will center on:
- Gas lift’s role in providing solutions to today’s unconventional fields, where laterals are getting longer and IP targets are growing
- The basics, including its flexibility, which allows engineers to obtain higher initial rates while optimizing life-of-well production.
- Examples of how “conventional” design techniques may be limiting the effectiveness of a gas lift system, while outside-the-box completion options are expanding gas lift’s normal operating window.

For hydraulic lift, attendees will learn about and discuss:
- The basics (how it works, its performance, system response, components, configurations, proper operation).
- Specific application topics, especially with regards to early production.

CORBIN MOZISKE
Corbin Moziske is the US Gas Lift Technical Advisor for Liberty Lift Solutions. He provides clients with customized solutions to their specific gas lift programs. He began his career in the field and has over 11 years of experience focused mainly in gas lift. He holds a BS degree from The University of Houston.

OSMAN A. NUNEZ-PINO
Osman A. Nunez-Pino is a Hydraulic Lift Applications Engineer for Liberty Lift Solutions. He holds a BS in mechanical engineering from La Universidad del Zulia in Maracaibo, Venezuela. He has published technical papers with SPE, co-authored technical articles about hydraulic lift systems, and served as an instructor of hydraulic lift technology around the world.
**YOUNG PROFESSIONALS**

**Volunteering at The Beacon**

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

Volunteers will prepare and serve meals and help with the laundry.

**EVENT INFO**

**WHEN**
Sun, April 15, 2018
10:30am – 2:00pm

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

**CONTACT**
Mollie Garvey
garvey906@gmail.com

**REGISTER ONLINE**

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**YOUNG PROFESSIONALS**

**The Digital Oilfield**

The digital oilfield is a complex ecosystem of operators, oilfield service companies, and technology entrants, both startups and established industry titans. Digital is changing the way customers, suppliers and employees interact, creating new business models, attracting new players and increasing competition.

Please join us to:
- Learn about BCG’s view on the 12 digital domains reshaping the energy world.
- Deep dive into digital case studies from real BCG client engagements.
- Hear how BCG is contributing to the digital oilfield transformation.
- Discuss hot topics facing the digital oilfield today and into the future.

This event is sponsored by Boston Consulting Group.

**EVENT INFO**

**WHEN**
Thursday
April 26, 2018
5:30 – 7:30pm

**LOCATION**
Boston Consulting Group
1221 McKinney St, Ste 3000
Houston, TX 77010

**CONTACT**
Eric Kinsey Regel
504-920-8392
eregel@gateinc.com

**REGISTER ONLINE**
YOUNG PROFESSIONALS

Introduce a Girl to Engineering Day at Rice University

In partnership with the Society of Women Engineers Houston and Rice University chapters, SPE-GCS Young Professionals invite you to Introduce a Girl to Engineering Day at Rice University. We will be teaching oil and gas engineering through hands-on experiments and contests.

Volunteers will assist teams of seventh- to ninth-graders in activities that teach design, planning, the scientific method, and the application of energy and oil and gas principles like density, pressure and porosity.

The morning shift is 8:30am - 12:00pm, and the afternoon shift is 12:00 to 4:00pm. Volunteers are encouraged to participate in both shifts if their schedule permits.

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- Determine clean out efficiency

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www.tracerco.com/reservoir-characterisation

EVENT INFO

WHEN
Sat, May 5, 2018
8:30am – 12:00pm and
12:00pm – 4:00pm

LOCATION
Rice University
6100 Main St, Houston, TX 77005

CONTACT
Mollie Garvey
garvey906@gmail.com

REGISTER ONLINE
WHERE ARE THEY NOW?

Past Scholarship Winner: Scott Joyce

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

"My favorite college memories include summer internships where I applied my new engineering knowledge in commercial, real-world settings."

As a roustabout for Conoco, based in Carlsbad, NM, I fell in love with the oil and gas industry. I had an opportunity after my daily responsibilities to spend time on a drilling rig, where I learned all about the drilling process (vertical wells back then!)

My junior summer was spent in Mont Belvieu, TX, at a gas fractionator owned by a subsidiary of Chevron. I helped fix some cooling tower problems, and I worked on startup preparations for a butane isomerization facility. Finally, I worked for BP in Prudhoe Bay, AK. I learned a lot about topside facilities and equipment that summer, and I enjoyed the great Alaskan outdoors!

After graduation, I worked outside of the oil and gas industry for several years and earned my MBA. After completion of my MBA, I went back to the industry I love in 2000 as an energy banker in Houston. I’ve worked for Bank of America, The Royal Bank of Scotland, and BNP Paribas. I current head Capital One’s Energy Technical Services and Special Assets teams, as well as credit risk management for energy and other industries.

The SPE-GCS scholarship allowed me to finish my mechanical engineering degree without having to work as much during the school year. My advice to students is to keep your minds open. The current recovery in the commodity markets should open up opportunities. Those opportunities may not be exactly what you expect, but your career will likely take many twists and turns, and there are many paths to success in the oil and gas business! You may not be able to do exactly what you want to do right out of school, but look for opportunities to learn and add value. For the first several years of your career, I recommend seeking opportunities that expand your future career options. It takes a while to really figure out “what you want to be when you grow up”!

CAREER OVERVIEW

Credit Risk Executive at Energy, Capital One

- Katy Taylor High School – 1990
- Texas A&M University – College Station, BS in Mechanical Engineering
- University of California - Berkeley, MBA

scott.joyce@capitalone.com

CONTRIBUTE TO THE SPE-GCS SCHOLARSHIP FUND TODAY!
PROFESSIONAL REGISTRATION REVIEW COURSES FOR PETROLEUM ENGINEERING

The Courses cover topics on the Texas State Board Petroleum Engineering Professional Examination.

2018 HOUSTON COURSES
I  August 20 – 24, 2018
II  October 8 – 12, 2018

MORE INFORMATION:
PHONE: 405-822-6761
E-MAIL: bingwines@cox.net
WEBSITE: winrockengineering.com
WEBSITE E-MAIL: winrockpe@gmail.com

2018 SPE Gulf Coast Section Awards and Scholarships Banquet

WHEN:
Thurs, May 24, 2018
5:30pm – 10:00pm

WHERE:
HESS Club
5430 Westheimer Rd
Houston, TX 77056

KEYNOTE SPEAKER:
Tom Blasingame,
Texas A&M University

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

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281 296 1878 www.zaetric.com
The certificate program in unconventional energy sources is a specialized certification to meet the oil industry’s current demand for professionals with better understanding of the exploitation and performance of unconventional resources. Tailored for working engineers, courses can be viewed at students’ convenience. Online meet-ups and discussions between students and professors provide additional guidance and interaction.

**Why the University of Houston?**

Located in the Energy Capital of the World, the University of Houston is arguably the best place to pursue a certificate or a degree in petroleum engineering. Houston is home to more energy professionals than any other city in the world. The UH petroleum engineering department is the largest program in the Cullen College of Engineering, underlining the ever-growing demand for a highly skilled petroleum engineering workforce in Houston and beyond.

**Courses and Curriculum**

Students take four required courses:

**PETR 6332**  
Reserves Estimation I

**PETR 6318**  
Special Topic: Horizontal Drilling

**PETR 6330**  
Fundamentals of Hydraulic Fracturing

**PETR 6397**  
Unconventional Reservoirs

View descriptions of the courses listed above and all graduate petroleum engineering in the UH Graduate Catalog.

For more information on UH Engineering’s certificate programs, please visit [www.egr.uh.edu/certificate-programs](http://www.egr.uh.edu/certificate-programs).
North American Student Symposium

During the North America Student Symposium in February at LSU, all members in attendance gained great insight into Big Data technology. The symposium also hosted the regional PetroBowl competition, where the Texas A&M team competed against universities from across the nation. Our members extend a thank-you to all who helped organize this exciting event.

Another event we look forward to every year is Aggieland Saturday, which took place February 10. This is one of the largest recruiting events not only for petroleum engineering, but also for Texas A&M University as a whole. Our members gave tours and presentations to numerous prospective students and their families.


North American Student Symposium

Our trip to the North American Student Symposium was a great opportunity for our members to gain practical knowledge through workshops and to meet members from other student chapters.

The following students placed in the symposium’s paper contest:

**PHD DIVISION**
1st Clara Palencia
2nd Mohab Dessouki
3rd (tie) Huy Tran and Yuan-Yun Lin

**MASTER’S DIVISION**
1st Dutt Tripathi
2nd Sunit Mathur
3rd Jude Rodrigues

**BACHELOR’S OF SCIENCE DIVISION**
1st Diego Barrera

Congratulations to everyone on their noteworthy efforts. Additionally, UHSPE thanks our host, the LSU student chapter, for providing a wonderful experience.

Student Chapter Directory

**HOUSTON COMMUNITY COLLEGE**
Aileen Lu: aileen.business.us@gmail.com

**RICE UNIVERSITY**
Eric Vavra: edv1@rice.edu

**TEXAS A&M UNIVERSITY**
Jordan Argamany: j.argamany@tamu.edu

**UNIVERSITY OF HOUSTON**
Tony Nowak: president.uhspe@gmail.com

**PRAIRIE VIEW A&M**
Natalie Russell: natalie.russell789@gmail.com
FUSION proppant consolidation technology is the only stimulation and sand control solution that met major operators’ requirements to sustain long-term proppant pack integrity, withstand stress cycling and allow the ultra-high 50,000+ bwpd injection rate needed for their GOM wells.

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