If It’s Artificial, How Intelligent Can It Be?

Harnessing Big Data to Enhance Reservoir Performance

SPE-GCS Women In eNergy (WIN) One-Day Congress
In Every Issue

CHAIR’S CORNER
02 Sunil Lakshminarayanan

CALENDAR
03 November 2018

MEMBERSHIP REPORT
04 September 2018

VOLUNTEER SPOTLIGHTS
05 Kumar Pugazhenthi

THEN & NOW
07 Buddy Woodroof

Study Groups

WATER & WASTE MANAGEMENT
09 11/6/18 Freshwater Neutral: Managing Water Use and Giving Back to the Environment
10 11/8/18 Can Space Exploration Technology Solve Oil & Gas Industry’s Greatest Challenges?

GENERAL MEETING
09 11/8/18 The Future of Reservoir Simulation

RESEARCH & DEVELOPMENT
12 11/8/18 Determination of Open Clusters and Fracture Geometry using Fracture Treatment Data
13 11/15/18 Challenges & Lessons from Implementing a Real-Time Drilling Advisory System
14 11/15/18 Controlling Scale Deposition: New Insights on Using Technology to Preserve Production in the Oil Field
15 11/15/18 Harnessing Big Data to Enhance Reservoir Performance

RESERVOIR & DATA ANALYTICS

DRILLING

BUSINESS DEVELOPMENT

CONTINUING EDUCATION

WESTSIDE

COMPLETIONS & PRODUCTION

12 11/14/18 Challenges & Lessons from Implementing a Real-Time Drilling Advisory System
13 11/15/18 Controlling Scale Deposition: New Insights on Using Technology to Preserve Production in the Oil Field
14 11/15/18 Harnessing Big Data to Enhance Reservoir Performance

11/1/2018 In Every Issue

Committees

CONTINUING EDUCATION

18 11/8/2018 Starting an E&P Company

20 11/11/2018 Volunteering at The Beacon
22 2/21/2018 SPE-GCS Inter-Corporate TopGolf Tournament / Networking Event
23 1/19/2018 SPE-GCS Women In Energy One-Day Congress
24 2018 ATCE Ceremony

SPE-GCS WOMEN IN ENERGY

23 1/19/2018 SPE-GCS Women In Energy (WIN) One-Day Congress

Special Events

INNOVATE

24 2018 ATCE Ceremony

The Scholarship Endowment Fund

The SPE-GCS has been providing college scholarships for students interested in math, science, and engineering degrees since 1963. Our program has sponsored over 800 students and has given $5 million dollars in the 56 years that we have been awarding scholarships. Former recipients of this prestigious scholarship have gone on to have successful careers in oil and gas and other industries. Some of them hold key executive positions in internationally reputed firms.

In early 2016, the SPE-GCS Board of Directors launched a scholarship fundraising effort to raise money towards our Scholarship Endowment Fund (SEF). The intent of launching this fund was to provide a long-term safeguard for SPE-GCS’s scholarship. Like any industry, we go through cycles. In the event of a downturn, fulfilling our existing and future scholarship commitments would be at risk, as these scholarships are funded through the section’s yearly income and savings. We currently offer 12 new scholarships every year. These scholarships can be renewed every year (for a period of 4 years) if the scholarship recipients meet the renewal criteria set by SPE-GCS.

The SEF eliminates the risks aforementioned and gives our section the option to increase the number of scholarships and amount per semester. To date, we have made fair progress in growing this fund through donations from various sources. However, we are far from reaching our $6 million dollar goal. We have a long way to go, and we have to do it together. I kindly invite all our members to support this effort by educating their colleagues and corporations about this fund. This will greatly help in the sustenance and growth of our scholarship program. If you would like to know more about the SEF, I encourage you to reach out to me directly.

C&P Symposium

As far as section activities go, I am very proud to announce that the Completions and Production (C&P) study group successfully hosted their inaugural symposium at Occidental Petroleum’s headquarters. Over 150 professionals attended the event that consisted of highly renowned speakers from our industry. I would like to congratulate the C&P study group and symposium committee for their diligent efforts in making this event a huge success. I am confident that this symposium will get be one of our highly sought out events in the years to come!

New Website

The communications committee is redesigning the SPE-GCS website. The effort was kick-started last month, and a lot of time and effort was spent planning the structure, layout, and content of the new website. I am confident it will address the limitations of our current website and will make it a pleasant experience for all users. The new website is expected be up and running in a few months. I will keep updating you about our progress.

Sporting Tourney

As I mentioned in one of my earlier columns, we are trying to add a new dimension to our social activities and are planning our first inter-corporate sporting tournament, which is slated to be held at TopGolf in February 2019. We expect around 500 professionals our industry to participate in the tournament. The Young Professionals (YPs) have been leading this effort and are currently in the marketing phase. If you would like to learn more about, participate in, or sponsor this tournament, please feel free to reach out to me.

All the best!
<table>
<thead>
<tr>
<th>SUNDAY</th>
<th>MONDAY</th>
<th>TUESDAY</th>
<th>WEDNESDAY</th>
<th>THURSDAY</th>
<th>FRIDAY</th>
<th>SATURDAY</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Waste &amp; Water Mgmt</td>
<td>General Meeting</td>
<td>Cont. Education</td>
<td>Young Professionals</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Young Professionals</td>
<td>Research &amp; Development</td>
<td>Innovate</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Northside Permian Basin</td>
<td>Westside Young Professionals</td>
<td>Board of Directors Mtg</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Young Professionals</td>
<td>Drilling</td>
<td>Completions &amp; Production</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Business Development</td>
<td>Reservoir &amp; Data Analytics</td>
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<td></td>
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<td></td>
<td></td>
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**Upcoming Special Events**

Mark Your Calendars

- **11.1 & 11.2.18 SPE-GCS 35TH ANNUAL TENNIS TOURNAMENT**
- **1.19.19 WOMEN IN ENERGY (WIN) ONE DAY CONGRESS**
- **2.21.19 YOUNG PROFESSIONAL INTER-CORPORATE TOPGOLF TOURNAMENT/NETWORKING EVENT**
- **4.6.19 GULF COAST REGIONAL STUDENT PAPER CONTEST AT THE UNIVERSITY OF HOUSTON**
- **5.13—5.17.19 SPE-GCS ELECTRIC SUBMERSIBLE PUMPS SYMPOSIUM**
The Gulf Coast Section (GCS) was established on December 13, 1935. The mission of GCS is part of our Bylaws which were amended by vote of the Board of Directors on February 16, 2017, and by vote of the general membership on April 20, 2017.

**SPE-GCS MISSION**

The mission of the Section shall be the promotion of mutual cooperation in furthering the objectives of the Society of Petroleum Engineers International, Inc. This shall be accomplished by:

I. Providing forums that afford members the opportunity to upgrade and maintain professional competence.

II. Providing social interaction that increases member participation in Section activities as a whole, while striving to maintain the integrity of the Section.

III. Supporting programs in local primary and secondary schools to encourage students to develop their abilities in science, technology, engineering and mathematics.

IV. Supporting engineering programs at the university level.

V. Enhancing the image of the Oil and Gas Industry by sponsoring community service programs.
VOLUNTEER SPOTLIGHT

Mollie Garvey

How did you first get involved with SPE?
I started as an Energy4Me mentor with SPE Dallas. Upon moving to Houston I joined the GCS YPs for a community outreach event supporting the Houston Marathon and had a blast meeting the amazing people who came out early on Saturday morning to volunteer.

What SPE study groups, committees, or volunteer events have you been involved in?
I am actively involved in Energy4Me with SPEI. Last year I served on the GCS YP board as a Community Outreach Committee Member and have been an active volunteer for the GCS YP flagship conferences, Roughneck Camp and Emerging Engineers Symposium, since 2016.

What is your current role with SPE?
I am a Co-Chair for Roughneck Camp 2019.

What is your REAL job and educational background?
I work as a global quality management leader for Halliburton and hold a Master of Engineering in Petroleum Engineering from Texas A&M University and a Bachelor of Science in Environmental Engineering from Lehigh University.

What is your favorite thing about SPE?
I enjoy the networking opportunities and sharing ideas with a diverse group of energy industry professionals while being able to give back to the community, especially to the students we are able to reach through our community outreach and membership events.
Renew Your SPE Membership Today!
Stay connected with SPE-GCS activities

Join up with the brightest minds – 15,000 local members and more than 143,000 international members – in the industry!

Grow your technical skills at our local and international conferences, workshops, and training courses.

Participate in SPE Gulf Coast Section’s events, meetings and activities.

Submit a technical paper for presentation or publication.

Receive discounts on journals, reference books, OnePetro and other SPE publications.

Expand your network with managers, engineers, scientists, and other professionals locally and worldwide.

Develop leadership skills and contribute to the profession through our programs and activities.

Give back to our community and the E&P industry through volunteer opportunities.

For inquiries, please contact the SPE-GCS Membership Team at membership@spegcs.org.

RENEW YOUR MEMBERSHIP ONLINE
THE REST OF THE YARN

This month we continue our look back at the rise and fall of wildcatter Glenn McCarthy, as he takes to the air and the airwaves to get his hotel noticed.

In his efforts to get the Shamrock Hotel – and himself – noticed, in 1947 McCarthy purchased a P-38 fighter for $4,000, spent $50,000 upgrading it, and then entered it in the cross-country Bendix Trophy Race, from Los Angeles to Cleveland. Though 50 planes entered, McCarthy’s promotional skills secured him the advance headlines, due in part to a series of star-studded Hollywood launch parties. He even convinced Joan Crawford to christen “The Flying Shamrock,” smashing a champagne bottle across its nose as flashbulbs burst. McCarthy got still more headlines when the race’s winner, the celebrated flier Paul Mantz, scrambled through the finish-line crowds in Cleveland to claim a $10,000 bet McCarthy had made with him.

Around Houston, he had become a human tornado of postwar progress, donating land for a new airport, holding press conferences to announce charitable gifts, riding a horse in the rodeo parade, and lobbying to bring the city a professional baseball or football team. Between appearances, he purchased a steel factory in Detroit, Houston’s largest radio station, and a string of newspapers. Every appearance and every press release generated headlines, and headlines, McCarthy knew in his heart, would be the key to the Shamrock Hotel’s success.

Next month, McCarthy literally puts down the finishing touches on the Shamrock.
**HISTORY QUIZ**

Two thousand years before Columbus, ancient scientists had calculated the circumference of the earth within what percentage of absolute correctness?

If you would like to participate in this month’s quiz, e-mail your answer to contest@spe.org by noon November 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 OCTOBER’S QUIZ**

As of the year 2007, there were 85 oil fields in the Middle East that had greater than 1 billion barrels of ultimate recoverable oil.

**CONGRATULATIONS TO SEPTEMBER’S WINNER**

Alan Sallwasser with Thermite, LLC

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**CONNECT WITH**

Please send us your feedback on anything related to SPE-GCS.

Email Taylor Wright today:
SPE-GCS@SPE.ORG

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**ENGINEERS OF ALL DISCIPLINES**

Want to get Professionally Registered but have not passed the FE Examination and have been out of college more than four years. Then contact us to find out how to get prepared and pass the FE Exam the first time. The technique has a 98% + pass rate to date. The FE Exam is now a Computer Based Test. You pick your own date to take the FE Test.

**MORE INFORMATION:**

PHONE: 405-822-6761
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WEBSITE: winrockengineering.com
WEBSITE E-MAIL: winrockpe@gmail.com

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**KRYPTOSPHERE®**

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- Proppant pack consolidation without closure stress
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- Scale-inhibition
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[carboceramics.com/kryptosphere](http://carboceramics.com/kryptosphere)
**WATER & WASTE MANAGEMENT**

**Managing Water Use and Giving Back to the Environment**

Managing water use and giving back to the environment will be the focus of this Distinguished Lecturer talk. The presentation will highlight the challenges encountered, lessons learned, and best practices encountered when companies implement efforts to become better stewards of freshwater resources. Karen will also review specific case studies related to Southwestern Energy’s “Freshwater Neutral” initiative, successfully achieved in 2016 within all operating divisions.

The presentation will cover how the focus areas highlighted above dramatically reduced freshwater requirements by up to 30% in some operating areas and saved the operator over $20 million.

**KAREN OLSON**

Karen Olson, Director of Technologies for Southwestern Energy Company (SWN), served as Director of the Strategic Solutions Team that was accountable for leading SWN’s Freshwater Neutral initiative. Olson has also been active with SPE for more than 30 years, in local sections, workshops, and conferences. In 2009, she was awarded the SPE Gulf Coast Regional Production and Operations Award. She is also a Distinguished Member of SPE.

**GENERAL MEETING**

**The Future of Reservoir Simulation**

Reservoir Simulation has evolved over the last 70 years to become a routinely used tool for understanding, predicting and optimizing reservoir performance. Alternative technologies like Decline Curve Analysis, Rate Transient Analysis, and Data Analytics are sometimes touted as offering similar results. This presentation will focus on recent developments in reservoir simulation that make the use of this technology more as a result in speedups in the actual simulation process itself and in the automation and control of multiple simultaneous runs to achieve history-matching and optimization objectives more quickly. Examples will be presented of the application of reservoir simulation.

**JAMES ERDLE**

Dr. Erdle is VP at Computer Modeling Group (CMG) and has over 40 years of petroleum industry experience in research and development, engineering, operations, marketing and sales. Prior to joining CMG, Dr. Erdle founded Erdle Software Services and held international positions in consulting, research and senior operations. Dr. Erdle holds a BS and PhD in Petroleum engineering from Penn State University.
RESEARCH AND DEVELOPMENT

Can Space Exploration Technology Solve Oil & Gas Industry's Greatest Challenges?

The Rockets and Rigs Initiative provides a platform for professionals in the space exploration and oil and gas industries who believe there are similar opportunities and challenges within both arenas that can be addressed, and possibly solved, through a vehicle of collaboration. The Rockets and Rigs Initiative is dedicated to helping:

• Identify common challenges and determine how to collectively solve them
• Create and strengthen cross-industry collaboration
• Expand networks with like-minded colleagues
• Find or create funding mechanisms

STEVEN GONZALEZ

Steven leads Technology Transfer for the NASA Johnson Space Center (JSC). He led the team that developed the 20-year strategy for JSC and has been instrumental in creating numerous strategic initiatives that have connected NASA to the entrepreneur and innovation community in Houston, including the creation of SpaceCom Conference and Expo.

JAMES FRANKS

James started his career as a summer hire Roustabout for Nabors Alaska Drilling while still in school. Following graduation in 1996, he worked for Schlumberger and BP prior to joining Pioneer in 2006, where he has held various engineering and management positions. James has a passion for innovative thinking and new technology and is actively involved in the search for, and implementation of, innovative ideas, products and processes.

FREDRICK JENET

As a founding member of the North American Nano-Hertz Observatory for Gravitational Waves (NANOGrav), Dr. Jenet and his colleagues are utilizing the unique properties of radio pulsars to detect and study fluctuations in space and time known as gravitational waves. Dr. Jenet created the Arecibo Remote Command Center program (ARCC) where undergraduate and high school students can participate in this research by searching the galaxy for new radio pulsars.

EVENT INFO

WHEN
Thursday, November 8, 2018
11:30am – 1:00pm

SPEAKER
Steven Gonzalez
Technology Transfer Specialist
NASA Johnson Space Center

James Franks
Director of Technology Development and Implementation
Pioneer Natural Resources

Fredrick Jenet
Director, Center for Advanced Radio Astronomy
UT Rio Grande Valley

LOCATION
Norris Conference Centre
9990 Richmond Avenue, Ste. 102
Houston, TX 77042

CONTACT
Amit Patil
817-899-7028
apatil14@slb.com

REGISTER ONLINE
**If It’s Artificial, How Intelligent Can It Be?**

We think AI today should also be described as “augmented intelligence” rather than simply “artificial intelligence.” Augmented intelligence has dramatically different use cases based on the user industry segment, such as oil and gas. It may not be obvious, but each user domain has several layers that are interdependent, and each layer could have its own augmented intelligence application. Examples: Where to frac, how to frac, utilized to design, build, deliver, monitor equipment health and schedule component replacement, help find hydrocarbons and so on.

We will review the history of AI in oil and gas, where AI is currently, and where it’s going.

**DON WARLICK**

Since 1976 Don has published and spoken on N.A. E&P investment and energy services markets. His background includes corporate planning and marketing. He is a Contributing Editor to the O&G Financial Journal and a member of SPE.

**GARY CROUSE**

Gary Crouse, experienced in senior management and sales at Oracle O&G, DEC, Sun Microsystems and others, currently focuses on consulting services, computing hardware and software products targeted to O&G and most recently, AI.
PERMIAN BASIN

Parent-Child Relationships Illuminated by Microseismicity

As we move past appraisal in the Permian Basin and jump to full-field development, complications are apparent when wells interact with each other. This study focuses on a 3-well Wolfcamp pad in the Delaware basin that was drilled and completed adjacent to a well online for more than two years. Using standard microseismic analysis, or the “dots in a box” approach, it would appear that the southernmost well and the parent well are interacting in a substantial way.

DAVE CANNON

Dave has 11 years of industry experience working unconventional plays throughout the US. He has an MS in geoscience, with a focus on structural geology and geomechanics. His experience includes plays in Wyoming, Utah, North Dakota, and Montana. In early 2014, Dave joined Diamondback Energy, where he is dedicated to Permian Basin unconventional exploration, assessment, and development.

WESTSIDE

Determination of Open Clusters & Fracture Geometry using Fracture Treatment Data

This presentation focuses on a methodology for determining the number of open clusters at the end of a fracture treatment and the resulting fracture geometry. The methodology has been calibrated with multiple diagnostic methods, including fiber optics, stepdown tests, radioactive tracing, oil and water tracers, fracture modeling, and RTA technologies. Results will illustrate the effects of perforation size and number, cluster spacing, stress shadowing, and diverter performance. The effects of cluster performance on fracture length and asymmetric fracturing will be discussed in relation to parent and infill development. The solutions can be applied to each stage of the wellbore, unlike post-job techniques which often only focus on a few stages.

LUCAS BAZAN

Lucas Bazan specializes in hydraulic and acid fracture design and well performance evaluation. He founded Bazan Consulting, Inc. in 2008 after working with Conoco, ConocoPhillips and BP. He focuses on hydraulic fracture design, post-job analytics, completion optimization, onsite implementation and post-fracture production evaluation of tight gas, coalbed methane and shale reservoirs in North America.
Challenges & Lessons from Implementing a Real-Time Drilling Advisory System

This talk discusses the technical challenges faced while implementing a real-time drilling advisory system. The system uses a data-driven response surface model with physics-based calculations to optimize rate of penetration while minimizing drilling vibration dysfunction. Challenges relate to characterizing drilling performance, performing optimization, and providing driller guidance, and this presentation will describe how the challenges are addressed, followed by results from an unconventional oil and gas field deployment.

Ben Spivey

Ben Spivey completed a BS in mechanical engineering at Georgia Tech and worked for General Electric in gas turbine design. There he developed an interest in system dynamics and optimization. He completed a PhD in chemical engineering, with a focus on process modeling and controls, and began working full-time with ExxonMobil in 2011. For the last four years he has been developing drilling optimization and monitoring algorithms.
Controlling Scale Deposition: New Insights on Using Technology to Preserve Production in the Oil Field

The formation of scale deposits upon tubing, casing, perforations, and even on the formation face itself, can severely constrict fluid flow and reduce the production rate of oil and gas wells. In addition to lost production, a considerable portion of the workover budget is expended in efforts to remove these deposits and prevent their recurrence. As a consequence, scale prevention is a common exercise and is successfully applied in many areas.

Dr. Charles Hinrichsen holds a BS, MS, and PhD in chemistry from Cornell University. He has over 40 years of experience in scale and corrosion control treatment and is a member of SPE, the American Chemical Society, and the National Association of Corrosion Engineers. Dr. Hinrichsen is currently serving as one of the 32 SPE Distinguished Lecturers for the 2018 - 2019 lecture season.
RESERVOIR & DATA ANALYTICS (JOINT EVENT)

Harnessing Big Data to Enhance Reservoir Performance

This joint meeting of two study groups will be a panel discussion. Each speaker will have 5 minutes to describe a recently used algorithm and 10 minutes to describe the organization’s vision for analytics.

**DIEGO MOLINARI**

Diego is a petroleum engineer on Anadarko’s Advanced Analytics and Emerging Technologies (AAET) team. He has an MS in analytics from Texas A&M University, where he was the recipient of the Roland Acra Award for the most outstanding Master’s project in analytics. Diego also completed an MS in petroleum engineering in Italy and a BS in petroleum engineering in Venezuela.

**JUSTIN LO**

Justin Lo leads the data science team at Chevron, rapidly building and delivering the analytics portfolio and scaling solutions across Chevron’s global business units. He joined Chevron in 2013 as a data scientist in Drilling & Completions. He received dual bachelor’s degrees in biomedical engineering and liberal arts Plan II from the University of Texas in Austin. He also holds a doctorate in biomedical engineering from Duke University.

**DAMIAN BURCH**

Damian Burch is the data analytics advisor for ExxonMobil Upstream Research Company. He specializes in combining physics, statistics, and machine learning to distill meaningful information and actionable knowledge from data. Damian graduated from Caltech with a double major in Mathematics and Computer Science, and he has a PhD in Applied Mathematics from MIT. Prior to ExxonMobil, he worked for a Department of Defense research company.

**DR. HECTOR KLIE**

Dr. Hector Klie is Data Science Technical Lead and CEO of DeepCast.ai and Adjunct Professor at the Dept. of Computational and Applied Mathematics at Rice University. Before that, he was Director of Enterprise Data Solutions and Lead Data Scientist at Sanchez Oil & Gas Corporation, and Staff Reservoir Engineer and Lead Data Scientist at ConocoPhillips. He completed his PhD in Computational Science and Engineering at Rice University, where he now teaches.

**EVENT INFO**

**WHEN**
Thursday
November 15, 2018
11:00am – 1:00pm

**SPEAKER**

Diego Molinari
Staff Reservoir Engineer
Anadarko

Justin Lo
Data Science Team Lead
Chevron

Damian Burch
Data Analytics Advisor
ExxonMobil Upstream Research Company

Hector Klie
Data Science Technical Lead & CEO
DeepCast.ai

**LOCATION**

Fleming’s Prime Steakhouse
2405 W Alabama St
Houston, Texas 77098

**CONTACT**

Alejandro Lerza
alejandrolerza@gmail.com

Bob Merrill
bobmerrill@mersep.com

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RESERVOIR DATA SYSTEMS

**REGISTER ONLINE**
BUSINESS DEVELOPMENT

Cube Development: What, How, When, and Why?

Please join us for our November event to discuss the technical and economic merits of cube development. Many public operators including Encana, QEP, Concho, Devon have begun cube development of their multi-stacked pay assets. A panel of speakers will be announced to discuss and debate the potential benefits and risks of this new and exciting development strategy.

What?

"Cube Development" is the industry term for simultaneous full development of a multi-stacked pay reservoir.

How?

What are the "rules of the road" and best practices to successfully execute a cube development program? What planning needs to be done? What cost savings and synergies are created with cube development?

When?

What is the optimal timing for cube development? Are spacing pilots necessary? What is a realistic timeline? Can cube development still be implemented after development drilling has begun?

Why?

The key benefits of cube development are the acceleration of resource recovery and avoiding the negative impacts of parent-child degradation due to pressure depletion from existing wells. Cube development gives the best possible chance for all formations to be developed with maximum reservoir pressure and effective stimulation of multiple stacked pays.

We're continuing an exciting kick-off to the year and will soon have our speaker(s) confirmed. Please check our website https://www.specgs.org/study-groups/business-development/ for updates. We will kick off with our popular networking happy hour from 5:00-6:00 PM followed by the presentation and Q&A from 6:00-7:00 PM. Both will be on the third-floor mezzanine.

SEASON PASS HOLDERS: You do not need to register for this event, as your Season Pass has automatically registered you for all 2018 - 2019 Business Development events. Thank you for being a Season Pass Holder!

JOHN RAINES

John Raines started at Devon as an intern in 2005, his junior year of college. Upon graduation, Raines joined Devon’s Land Department and served in roles of increasing responsibility in Devon’s Business Development and Marketing departments before his most recent positions as vice president of Land and Regulatory and vice president of the Rockies Business Unit. John received a bachelor’s degree in business administration from the University of Oklahoma, with majors in energy management and finance. Raines also holds a law degree from Oklahoma City University.

EVENT INFO

WHEN

Wednesday
November 28, 2018
5:00pm – 7:00pm

SPEAKER

John Raines
Vice President of Delaware Basin Unit
Devon Energy

LOCATION

Four Seasons Hotel
1300 Lamar
Houston, TX 77010

CONTACTS

Heidi Epstein
281-415-1154
heidi.epstein@energynet.com

EVENT SPONSOR

Wells Fargo

REGISTER ONLINE

Back to Table of Contents
CONTINUING EDUCATION

Accelerated Learning Tutorial: Introduction to Gas Lift Systems

This one-day tutorial gives a broad overview of gas lift operations, with an emphasis on onshore/unconventional play gas lift with some “outside the box” techniques. Topics of discussion include downhole equipment involved in gas lift operations, gas lift design procedure and effects of operational changes. Attendees are also briefed on basic troubleshooting issues.

Topics of discussion include an overview of gas lift, downhole equipment and major system components, design process for high reliability, effects of operational changes, and troubleshooting. Attendees will be awarded a certificate for 8 Professional Development Hours (PDH).

CORBIN MOZISEK

Corbin Mozisek works as a Specialist in the Gas Lift Systems group at Liberty Lift Solutions, providing technical training and support to clients, and serving as an internal technical resource for gas lift design and troubleshooting. He holds a BS degree in Business from University of Houston and has 12 years of experience in gas lift.

YOUNG PROFESSIONALS

5K HeartWalk

We’re not just walking. We’re HeartWalking! Our participation in HeartWalk promotes fun ways to be physically active and make healthier choices every day. Imagine the impact if we reduce death and disability from cardiovascular diseases and stroke by 20 percent by 2020.

Please help us reach this lifesaving goal by joining our team (IHS Markit and SPE-GCS YP) or making a donation today. Together, we can make healthier, longer lives possible for everyone. Thank you in advance for your support!

We are not only raising funds, we’re raising heartbeats!

Our fundraising page is up and running, ready for teams and walkers to register: http://www2.heart.org/goto/IHSMarkitAndSPEGulfCoastSectionYP

See you all on November 3!

SPONSORED BY:

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INNOVATE

Starting an E&P Company

Join Innovate Committee for a full-day event about starting an E&P company. This event caters to the budding E&P entrepreneurs, outlining the challenges faced by first-time backed teams, all the way from securing the initial investment to the final sale.

<table>
<thead>
<tr>
<th>TIME</th>
<th>SEGMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 – 8:30</td>
<td>Registration and Breakfast</td>
</tr>
<tr>
<td>8:30 – 8:35</td>
<td>Introduction</td>
</tr>
<tr>
<td>8:35 – 9:20</td>
<td>Keynote: The Development of an Entrepreneur: From a Dream to a Reality</td>
</tr>
<tr>
<td>9:20 – 9:30</td>
<td>Break – Networking</td>
</tr>
<tr>
<td>9:30 – 10:30</td>
<td>Panel: “And now, a word from our sponsor…”</td>
</tr>
<tr>
<td>10:30 – 11:00</td>
<td>Coffee Break – Networking</td>
</tr>
<tr>
<td>11:00 – 12:00</td>
<td>Panel: “How to win” – Ideas &amp; teams that succeed</td>
</tr>
<tr>
<td>12:00 – 1:00</td>
<td>Lunch – Valuation Methods</td>
</tr>
<tr>
<td>1:00 – 1:10</td>
<td>Afternoon Intro</td>
</tr>
<tr>
<td>1:10 – 1:50</td>
<td>Workshop: Legal</td>
</tr>
<tr>
<td>1:50 – 2:00</td>
<td>Break – Networking</td>
</tr>
<tr>
<td>2:00 – 2:50</td>
<td>Workshop: “Land through the life of a PE deal” – Guidance for non-land professionals</td>
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<tr>
<td>2:50 – 3:00</td>
<td>Coffee Break – Networking</td>
</tr>
<tr>
<td>3:00 – 3:50</td>
<td>Workshop: “Understanding finance structures” – Guidance for non-finance professionals</td>
</tr>
<tr>
<td>3:50 – 4:00</td>
<td>Break – Networking</td>
</tr>
<tr>
<td>4:00 – 4:50</td>
<td>Panel: “Crafting a full-cycle business plan” – Guidance for preparing a successful pitch and fundraising</td>
</tr>
<tr>
<td>4:50 – 5:00</td>
<td>Wrap up &amp; Closing</td>
</tr>
<tr>
<td>5:00 – 7:00</td>
<td>Networking Reception</td>
</tr>
</tbody>
</table>

EVENT INFO

WHEN
Thursday, November 8, 2018
7:30am – 5:00pm

SPEAKER
Dick Stoneburner
Managing Director
Pine Brook Partners

A full list of speakers can be found
on the SPE-GCS website.

LOCATION
Fulbright Tower Auditorium,
Downtown Houston
1301 McKinney St
Houston, TX 77002

CONTACTS
David Bowman - 713-351-0571
david.Bowman
@rockcliffenergy.com
Aniket Kumar - 832-839-3083
aniket.av5@gmail.com

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CONTINUING EDUCATION

Learning Tutorial: Introduction to Managed Pressure Drilling

This one-day tutorial gives a broad overview of Managed Pressure Drilling (MPD). MPD provides an active approach to well control. Unlike passive control methods, MPD operations use a closed-loop system that helps determine the downhole pressure limits and manage the annular pressure profile accordingly. As a result, you can learn how to enhance primary well control, verify downhole barriers in real time, and automatically react to influxes and losses.

Attendees will be awarded with a certificate for 8 Professional Development Hours (PDH).

HARSHAD PATIL

Harshad holds an MS in petroleum engineering from LSU and has 14 years of experience in drilling oil and gas wells offshore and onshore. He is an experienced MPD wellsite supervisor.

EVENT INFO

WHEN
Friday, November 9, 2018
9:00am – 4:30pm

SPEAKER
Harshad Patil
Senior MPD Engineer
Weatherford International Ltd

LOCATION
Newpark Drilling Fluids Office
21920 Merchants Way, Katy, TX

CONTACT
Mike Redburn - 307-214-7518
mredburn@newpark.com

REGISTER ONLINE

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. You may also bring gently used or new items to donate.

EVENT INFO

WHEN
Sunday, November 11, 2018
10:30am - 2:00pm

LOCATION
The Beacon
1212 Prairie Street, Houston, TX, 77002

CONTACTS
Sally Ebrahimzadeh
speyp.communityoutreach@gmail.com

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**Young Professionals**

**Big Data Analytics: What Can It Do for Petroleum Engineers and Geoscientists?**

Big data analytics has become quite the buzzword in recent years, and its growing application in E&P operations promises to be an exciting new development. It involves:

- Acquiring and managing data in large volumes, of different varieties, and at high velocities, and

- Using statistical techniques to “mine” the data and discover hidden patterns of association and relationships in large, complex, multivariate datasets.

The ultimate goal is to extract as much intelligence from our ever-expanding trove of data to improve operational efficiencies and make better decisions for optimizing the performance of petroleum reservoirs. However, the subject remains a mystery to most petroleum engineers and geoscientists because of the statistics-heavy jargon and the use of complex algorithms.

In this talk, Dr. Srikanta Mishra will provide a “gentle” introduction to big data analytics by focusing on case studies that demonstrate the value of big data and analytics applied to E&P problems.

**Dr. Srikanta Mishra**

Dr. Srikanta Mishra is Institute Fellow and Chief Scientist (Energy) at Battelle Memorial Institute, the world’s largest independent contract R&D organization. He manages a geoscience-oriented technology portfolio related to computational modeling and data analytics for geological carbon storage, shale gas development and improved oil recovery projects. Dr. Mishra is the author of “Applied Statistical Modeling and Data Analytics for the Petroleum Geosciences” recently published by Elsevier, and has also taught multiple short courses on uncertainty quantification, statistical modeling, and data analytics. He holds a PhD in petroleum engineering from Stanford University.

**Sponsored By:**

Schlumberger
CONTINUING EDUCATION


Even though engineers are technical people, that doesn’t necessarily mean they are good technical writers. Technical writing involves two key competencies: The ability to understand technical language and the ability to express that knowledge in a clear, concise, and coherent manner.

This material focuses on scientific writing, but it is also applicable to any sort of technical writing.

EVENT INFO
WHEN
Wednesday, December 5, 2018
9:00am – 4:30pm
LOCATION
Newpark Drilling Fluids Office
21920 Merchants Way, Katy, TX
CONTACT
Mike Redburn - 307-214-7518
mredburn@newpark.com
REGISTER ONLINE

YOUNG PROFESSIONALS

SPE-GCS Inter-Corporate TopGolf Tournament / Networking Event

Sponsorship Opportunities are available for the first SPE-GCS TopGolf Tournament / Networking Event!

This magnificent event will be held on Thursday, February 21, 2019 from 5:00-8:00 PM. We expect to host 500+ oil and gas professionals from all disciplines and all experience levels in a TopGolf Tournament alongside a networking session. Sponsors will be recognized, and prizes will be awarded at a special reception following the tournament.

Each team will comprise of three members. We will start with an hour of registration, networking with dinner and drinks, and free-play. Following that, TopGolf ambassadors will start with the tournament instructions and coordinate scores. The final hour would be recognizing our great sponsors during a ceremony where we will also be awarding cash prizes to our winning teams and individuals.

Sponsor us, and we will highlight your company in front of the Houston oil and gas industry!

EVENT INFO
WHEN
Thursday, February 21, 2019
5:00pm - 8:00pm
LOCATION
TopGolf Katy
1030 Memorial Brook Blvd
Houston, Texas 77084
CONTACTS
Shakti Sehra - 832-274-7594
shakti.sehra@ihsmarkit.com
Eric Williams - 903-644-6448
ericwilliams86@yahoo.com
Amanda Block
amanda.block@bhge.com
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WHERE ARE THEY NOW?

Past Scholarship Winner: Nicole Ancell Zilveti

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 Nicole Ancell Zilveti’s story:

"This scholarship was the reason I was offered a pre-college internship with Anadarko that summer."

In 2011, I was fortunate enough to receive a SPE-GCS scholarship. This scholarship was the reason I was offered a pre-college internship with Anadarko that summer. This early industry experience jump-started my career because it helped me to stand out in college as a strong candidate for additional scholarships and internships. I worked as reservoir engineering intern with BHP during all three summers of my college years. Working on teams across the petroleum assets, which spanned both the conventional and unconventional parts of the business, helped me gain a broad industry perspective. After I graduated from Rice University in 2015, I returned to BHP as a reservoir engineer.

My first year at BHP, I was tasked to develop a method to model the impact of unconventional wellbore trajectory on liquid loading and overall recovery. The work was definitely challenging, but I learned so much, not only about the technical work, but also how to best communicate my work to other industry professionals.

I moved to the Gulf of Mexico production unit, where I spent a year working mainly in the planning space. While not as technical as I would have liked at the time, I can honestly look back now and know that I gained valuable insights to the petroleum business beyond reservoir engineering.

I have recently relocated to Perth in Western Australia to work as a reservoir engineer on BHP’s operated Australian assets team. I know that if it wasn’t for the SPE-GCS scholarship award several years ago, I would likely not have had the exciting opportunity to relocate internationally so early in my career.

CAREER OVERVIEW

Reservoir Engineer at BHP
- Jersey Village High School – 2011
- Rice University, BS in Chemical Engineering – 2015
One-Day Congress

You are invited to attend the inaugural SPE-GCS WIN Congress, January 18, 2019. The event will serve as a forum to encourage both men and women to address gender-gap challenges in the oil and gas industry, and identify actions to overcome them. Inspirational talks, sharing of best practices, and expert-led discussions will enable teams of men and women to improve diversity in leadership roles, eliminate wage gaps, include a broader spectrum of ideas and cultures, and hire the best qualified workforce. Congress deliverables will include summaries of fact-finding and published action items to help our industry make progress in diversity and inclusion.

About SPEi WIN

SPE International launched Women in eNergy (WIN) to promote gender diversity in the upstream oil and gas industry by attracting, retaining, and engaging women in the STEM fields. Our vision is to empower women to realize their full potential in the oil and gas industry. SPE-GCS hopes to carry this vision forward in the first-ever WIN Congress event.

Join us in support of this global initiative – our diversity is our strength!

Early bird registration is open now through November 16, 2018.

<table>
<thead>
<tr>
<th>Registration</th>
<th>By November 16, 2018</th>
<th>After November 16, 2018</th>
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<tbody>
<tr>
<td>Member*</td>
<td>$75</td>
<td>$100</td>
</tr>
<tr>
<td>Non-member*</td>
<td>$100</td>
<td>$125</td>
</tr>
<tr>
<td>MIT*</td>
<td>$25</td>
<td>$35</td>
</tr>
<tr>
<td>University Student**</td>
<td>$25</td>
<td>$35</td>
</tr>
</tbody>
</table>

* Registration includes admittance to the technical sessions, exhibition, and coffee breaks.

** University students must show a valid student ID to register. If you register online, you will be required to show ID on-site.

For sponsorship opportunities, please email tanhee@geokimika.com. For more information, please email riteja.dutta@drillinginfo.com.
SPE-GCS Recognized at 2018 ATCE in Dallas

In addition to the President’s Award for Section Excellence, our Gulf Coast Section members also garnered a Lester C. Uren Award, three Honorary Memberships, eight Distinguished Member Awards, a Distinguished Service Award, a DeGolyer Distinguished Service Medal, a Public Service Award, three technical awards, and Texas A&M University was recognized as an Outstanding Student Chapter.

Sheng Luo, Texas A&M, won 3rd place, PhD Student Paper Contest.

Marise Mikulis (center) holds our President’s Award for Section Excellence.

Jitendra Kikani received the Lester C. Uren Award.

Distinguished Member Award recipients

Three GCS Honorary Members: Christine Ehlig-Economides, Susan Howes, and Mridul Kumar.

Magy Avedissian (right), president of the Texas A&M Student Chapter.

Darcy Spady congratulates SPE’s best sections.

Anuj Gupta, DeGolyer Distinguished Service Medal.
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