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Tennis Tournament
P. 26
CHAIR’S CORNER

DEEPAK M. GALA, SHELL
2016-2017 SPE-GCS Chair

The new Bureau of Safety and Environmental Enforcement (BSEE) Well Control Rule (WCR) will be effective as of July 29, 2016. I will provide a short overview on the WCR, as it is important for our members and industry.

After the Deepwater Horizon/Macondo incident in April 2010, BSEE was established in October 2011 to oversee offshore worker safety, environmental stewardship, and resource conservation. BSEE’s workforce fulfills the Bureau’s mission by employing a spectrum of statutory authorities that are designed to reduce offshore risk and improve the ability of companies to respond effectively should an incident occur.

In April 2015, BSEE proposed new regulations for Outer Continental Shelf—Blowout Preventer Systems and Well Control equipment. More than 170 comments from different companies and organizations were submitted to BSEE on the proposed rule by July 2015. Industry organizations (API, IADC, OOC, IPAA, NOIA, etc.) as well as individual companies reacted swiftly, formed various work groups and worked on the WCR for over a year in anticipation of the final WCR. The final rule was released in mid-April 2016 and was required to be implemented within 90 days, with the exception of certain regulations that have implementation timeframes ranging from one (use of BAVOS) to seven years (shear rams that center drill pipe during shearing operations) following publication. BSEE has been working with the organizations, companies with providing clarifications on the WCR.

The final rule was released in mid-April 2016 and was required to be implemented within 90 days, with the exception of certain regulations that have timeframes of up to seven years for implementation.

The key regulations in the BSEE WCR can be loosely grouped into four categories:
1) Drilling margins
2) BOP maintenance and inspection requirements and BAVOS – BSEE-Approved Verification Organization
3) Real-time monitoring (RTM) requirements
4) API standards (incorporates 10 different API standards)

The cost of complying with the new WCR will vary depending on each company’s current stage in the implementation process. While initial cost estimates from the original draft version of the WCR have come down, the fact remains that operating in the Outer Continental Shelf will become more expensive as the industry moves to fully comply with this new WCR.

SPE-GCS Update
I have been impressed by the interest of our professionals in technical topics and career advice and the events SPE sponsors to address those needs.

Recently, I attended the R&D Study Group’s “Key Challenges Facing the Upstream Operators” luncheon. The event featured four speakers representing Shell, Total, Anadarko and Chevron. It was sold out with over 100 professionals in attendance, a high turnout that confirms the resiliency of our SPE chapter members. Congratulations to Kitty Harvey, R&D Study Group Chair, and her team for organizing this event.

I also attended the Roughneck Camp. This annual event is managed by SPE Young Professionals. After six months of meticulous planning and outstanding leadership by Abe Abraham and Venkata Gundepalli, the event was a resounding success. The camp attracted more than 275 attendees (with over 50 waitlisted). I would like to acknowledge Shell for allowing SPE to use its facility for this flagship event. The significant savings from using this venue were returned to support our education initiatives.

Website Hosting
We are moving specgs.org’s web-hosting portal to SPEI. This will save us $15,000 annually.

Staffing
Plans are in place to have a full-time dedicated support staff for our section. SPEI will support GCS in providing this critical link.

Finance
The board has approved the 2016-2017 budget for a break-even year. The key areas allowing us to break even are the ESP workshop, newsletter ads, community services, expense reduction with key events, and education expenses. Section Treasurer David Flores will need ongoing support from study group and committee treasurers in providing enhanced oversight on their expenses.

For the first time, SPE-GCS Annual Kick-Off was held at a no-cost venue. Thanks to RAC Conference Center for hosting the event.

Stay engaged, stay safe,

Deepak M. Gala
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TAMU
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**BOARD OF DIRECTORS MEETING**

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September, 2016

**SPE-GCS MEMBERSHIP REPORT**

**Through July 2016**

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**TOTAL SPE-GCS MEMBERSHIPS**

- PROF NEW: 664
- PROF RENEWED: 13,414
- PROF LAPSED: 4,372
- STUDENTS NEW: 367
- STUDENTS RENEWED: 1,632
- STUDENTS LAPSED: 627

---

**CURRENT MEMBERSHIP TRENDS**

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**STUDENT MEMBERSHIPS**

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</tr>
</tbody>
</table>

*This chart does not reflect lapsed student memberships*

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**DON’T MISS OUT**

**RENEW YOUR DUES**

**TODAY!**

---

**VOLUNTEER SPOTLIGHT**

**JAMES RODGERSON**

This month the SPE Gulf Coast Section is thrilled to feature James Rodgerson as the Volunteer of the Month. James got involved with SPE in the mid-'80s through the encouragement of several colleagues while working in R&D at BJ Services. Since then, James has been a dedicated member of SPE, holding numerous positions within the SPE-GCS Permian Basin Study Group for more than a decade.

James started his career in the oilfield over 34 years ago. He is a hydraulic fracturing and completions engineering advisor with over 30 years in shale stimulation experience and more than 20 years of horizontal stimulation experience.

He has served in multiple engineering roles throughout his career, from field, to region engineer, to research and development. James began his career with BJ Services, later working at BP. Most recently, he has been very active with Devon Energy in the Completions Technology group. In this role, he works with various business units involved with hydraulic fracture design support, DFIT analysis, and DTS/DAS fiber optic implementation and evaluation as a Completions Advisor.

James has authored and co-authored multiple SPE papers. He has served as Permian Basin Chair, GCS Banquet Chair, and in numerous other volunteer roles within SPE. James graduated from Texas A&M University with a BS in industrial distribution.

James believes that SPE is a great way to give back. He is always encouraged to see the next generation of emerging professionals starting in the industry. He finds great pleasure in being able to help others as he has been helped throughout his career.

“SPE has always been the best resource to both share and explore emerging technology,” he says. “(It) is a part of my extended family. Not only is it a great resource to share ideas and network, but it has been a great way to stay in touch with those whom I love and care about. One of my greatest pleasures is to have been a part of something greater than myself, and to promote the success of others.”

Longtime colleague Amy Timmons said of James, “Along with being a longtime mentor and colleague, James has supported me throughout my oilfield service career – this is why I believe James deserves to be a Volunteer Spotlight as many other SPE members feel.”

Thank you for all that you do for SPE, James!
Pipeline giant El Paso Natural Gas moves toward full-scale downstream integration as it purchases three refineries (with plans for two more), plunges into petrochemical manufacturing in a joint project with General Tire and Rubber, and coordinates refining and marketing centers in Texas and New Mexico.

Gulf Oil reports plans to reenter what was previously the Texas drilling-depth record well in Reeves County at 18,609 ft, only to be temporarily abandoned due to the prospects of a seemingly hopeless fishing job, and is now planned to be deepened to a new Texas drilling-depth record of 19,200 ft.

Stanolind Oil & Gas and White Eagle International Oil reach an agreement to expand their development program in Cuba to encompass a total of 13 million acres (pre-Castro era).

Humble Oil & Refining receives clearance from the Texas Railroad Commission to try its new “condensing-gas drive” method of secondary recovery, which involves injecting rich casing-head gas or separator gas souped up with propane into the pay horizon.

East Texas crude oil - $2.90/bbl; US active rig count – 2,507

A coalition of oil and gas associations and federal lawmakers from both parties is planning how to most effectively petition the administration and Congress for an oil import fee that would establish a $20-$22/bbl floor for crude prices.

Canadian Energy Minister Marcel Masse cites continuing interest in developing the Hibernia oil field off Newfoundland to the extent that the federal government is prepared to offer Mobil Oil Canada Ltd. and its partners a $1 billion loan guarantee.

T. Boone Pickens, the “sugar daddy” of Oklahoma State University and general partner of Mesa Limited Partnership, launches an organization whose aim is to champion stockholder rights, and will spend up to $1.3 million to start United Shareholders Association that will represent the rights of 47 million US stockholders.

The Zapata Corporation receives a $25 million line of credit to complete development of the Wisdom gas field in the western part of the Gulf of Mexico (Remember the founder of the Zapata Corporation … GHWB).

Light sweet crude oil - $27.37/bbl; Natural gas - $2.43/MMbtu; US active rig count – 731

Harken Energy reports continued success in drilling +/- 15,000 ft gas/condensate wells in Lafourche Parish, LA, exploiting the sparsely explored Bol formation (Remember any board members of Harken Energy … GWB).

Weather derivatives are attracting increased energy company interest as a part of their risk management strategy to reduce risk associated with adverse or unexpected weather conditions. (What about blowout derivatives?)

Nexen Inc., Calgary, President and CEO Charlie Fischer forecasts his company doubling in size over the next five years through exploration of its 37 million-acre inventory. (But did they forecast being a wholly owned Chinese company in 15 years?)

By late morning on September 11, nonessential personnel at much of Houston’s massive concentration of refining and petrochemical complexes were sent home after those plants earlier in the day went on heightened security. (Remember where you were and what you were doing when you got the word of the terrorists’ actions?)

A

s at home, so in the world: In all places Roosevelt was an activist. He was the first president to urge wholeheartedly that the US accept its role as a global power. He looked at the US the way many now understand the universe, something that began expanding the moment it was born. But it was not until just before he reached the presidency that the nation burst through its continental confines. In 1898 the Spanish-American War and its aftermath suddenly placed under US supervision a whole collection of territories, namely, Cuba, Puerto Rico, Guam, and the Philippines, and to Roosevelt’s delight, the US became an actor on the world stage across two oceans. As assistant secretary of the Navy under McKinley — a job that should have been virtually meaningless but that he turned into a power center — he urged on the war. As a Rough Rider, he had fought in it. As president, he would work to make Americans understand that their new global prominence was a long-term proposition.
Roosevelt had sounded the first chords of the American Century, but the Spanish-American War was a quick and easy victory. Although it was followed by a bloody anti-American insurgency in the Philippines, for the most part he did not live to see the lethal predicaments a global power can face. We’ll never know how he might have handled Vietnam or Iraq. His expansionist impulse did, however, have an idealistic side; he talked about spreading democracy. And you could see its legacy in later developments like the Marshall Plan. But every time the US contrived to overthrow an elected leader abroad who proved resistant to American aims, some of Teddy’s legacy was also at work. There could not have been a more literal legacy than the 1953 coup engineered by the US to oust Mohammed Mossadegh, the Iranian prime minister who attempted to nationalize his country’s oil industry. The CIA officer in Tehran who choreographed the overthrow was TR’s grandson Kermit (for whom the West Texas town is named).

Next month, we examine Roosevelt’s gifts to America’s future.

---

THE QUIZ

What oil-producing area is reported to be England’s first possession in North America?

**ANSWER TO MAY’S QUIZ**

The arrival of the giant dirigible airship Hindenburg in New York City in May 1936 was heralded as a new transportation development of considerable potential interest to the oil industry.

**MAY’S WINNER**

Fred Growcock

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

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## RESEARCH & DEVELOPMENT

### Developing Innovators - Corporate or Entrepreneurs

Our industry is continuously challenged to improve itself in a manner that results in a more efficient (and safer) supply of hydrocarbons at a global level. So where will the next big idea come from? What determines which ideas make it and which ones fail? Why do some ideas make it that shouldn’t? In short, how do we ensure value creation beyond simple survival of the fittest or luckiest?

Like most skills, innovation can be taught, developed and cultivated. When creating corporate innovators or entrepreneurs, this means a focus on developing talent in three key areas: technical skills, application skills, and leadership skills. Developing competencies in these areas helps reduce ventures’ risks and ensures a focus on creating value.

### TROY MEBANE

Trey Mebane serves as Vice President of Innovation for National Oilwell Varco. He has focused his 25-plus-year career on “wealth creation through innovation” for the companies he has served. In his current role, Mebane focuses on innovation strategies that leverage his experience base to help establish a culture of innovation for NOV through commercialization management, business/technology scouting, and NOV Ventures (a talent development program).

While at NOV, Mebane has held leadership in software development, R&D, engineering, marketing, strategic planning, and business development.

Mebane holds a degree in computer science from Texas State University, where he graduated with honors, and a master’s in technology commercialization from The University of Texas at Austin. There, he received the George Kozmetsky Award for Academic Excellence and the program’s Outstanding Student Award.

### 2015 PROFESSIONAL ENGINEERING EXAM RESULTS FOR PETROLEUM ENGINEERING

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

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

### 2016 HOUSTON COURSES

September 22 – 26, SEPTEMBER 26 – 30

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winrockengineeringinc.com
Efficiency and Aggressiveness in Performance Drilling – Effects On Drilling Mechanics, Drilling System Analysis, and Hole Opening Applications

The terms efficiency and aggressiveness play key roles in performance drilling, with regards to project planning and execution. They influence drilling system (bit & reamer/BHA/drive system, hydraulics, drilling parameters, etc.) design for different applications. The system then impacts how projects are executed, which then determines how success is measured in actual field situations.

There are several different positions on what the two terms are and what they represent. Consequently, their perceived influences on the performance drilling process also generate lots of debate. Certain groups assume the two terms to be the same; others argue for an inverse relationship. This situation has arisen primarily due to the lack of practical, field-driven definitions for the terms from a drilling dynamics standpoint. As a result, their actual effects on product development, drilling system analysis, and performance drilling remain inconsistent.

This discussion will define efficiency and aggressiveness from a practical, field-driven perspective, with supportive data. The effects of the two terms on product development, drilling system analysis, and performance drilling will also be discussed. Most importantly, their effects on bit/reamer development and matching, BHA design, and drilling system analysis in “hole opening applications,” particularly in harsh environments, will be discussed.

GRAHAM MENSA-WILMOT

Graham Mensa-Wilmot is a Senior Advisor, Drilling Engineer in Chevron’s Energy Technology Company. Mensa-Wilmot is the MAXDRILL (performance drilling) project leader. He has more than 28 years of experience in drilling applications research, downhole tool development, drilling vibrations identification and remediation, drilling mechanics, drilling system design and analysis, and drilling performance improvement. He has authored 42 technical papers and holds 36 patents.

Mensa-Wilmot is a recognized industry leader on performance drilling. He serves on the SPE/IADC Drilling Conference Program Committee and the SPE Drilling and Completions technical review committee. He serves on the JPT editorial committee, as technical editor for the Bits/BHAs and Performance Drilling. He serves as a 2016/2017 SPE distinguished lecturer. Mensa-Wilmot holds an MS degree in drilling engineering from Romania’s University of Petroleum and Gas in Ploiesti.
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Low oil and gas prices are a gift to our industry. They challenge us to find new ways to survive and thrive under much more demanding economic conditions. They also create an opportunity to rethink the fundamental strategies that underpin our growth and competitiveness. Is there a better way to compete and grow?

This presentation offers a strategy that is widely applied in manufacturing industries, but that has been overlooked in ours. Under it, we compete not just on economic performance, but also on the rate of innovation. We forgo the pursuit of project delivery, and benchmarking against each other, in favor of the pursuit of absolute value capture and the enabling of strategic aspirations through a deliberate process of target setting.

The presentation is aimed at senior managers in operator, contractor and supplier companies who are navigating the stormy waters of today’s energy business, seeking a new way to compete in the future.

ROBERT ORLEAN

Robert Orlean is the founder of Orlean Technical Solutions, which helps clients craft compelling strategies and capture dramatic improvements in their projects, designs and services. Clients around the globe have used Orlean’s approaches and tools to enhance their projects’ profitability, create competitive advantage, and solve complex problems in the upstream, midstream and downstream sectors of the energy industry. Customers include most major oil companies, equipment suppliers, and contractors.

Orlean is a graduate mechanical engineer from the University of London’s Imperial College. He is also a Certified Value Specialist by SAVE International and a member of SPE. He is certified as an Innovation Master by the Invention Machine Corporation. Before founding Orlean Technical Solutions in 1998, he worked for Shell Oil Company on a wide range of onshore and offshore design and construction projects as an engineer, researcher and manager.
Laura Capper discusses findings from her firm’s upcoming report on disposal well practices in upstream oil and gas. Topics will include the root causes of induced seismic activity on a basin-by-basin basis, changes in regulations, media portrayal of issues, community responses, potential impacts on upstream operations, plausible alternatives and costs for SWD disposal, and mitigating practices operators can employ today.

**LAURA CAPPER**

CAP Resources is a Houston-based oil and gas and technology consultancy that specializes in market assessment, strategy development for emerging market opportunities, technology commercialization, operations planning, due diligence/transaction support services, and aggressive growth strategies for oil and gas technology, operating, and service companies and their investors.

The firm’s president, Laura Capper, brings 25 years of experience in managing technology commercialization and aggressive growth strategies for public and private companies, including integrated oil and gas companies, oilfield service companies, technology transfer offices, and private equity and venture capital firms.

Prior to founding CAP Resources, Capper oversaw business development for Advanced Micro Devices in the San Francisco region, ran North American Sales for Landmark Graphics (now a Halliburton company), and held management roles at four venture capital-backed emerging energy technology companies. Capper holds a BS in electrical engineering from Rice University.
Verifying Performance and Capability of New Technology for Surface and Subsurface Facilities

As seen in the US shale oil revolution, the development of new technology helps reduce capital costs, simplify production, increase the capacity of facilities, and, in some cases, make marginal projects profitable. While dealing with significant risk, the challenge of progressing technology can be overcome through technology qualification. A technology qualification program (TQP) identifies risks and takes the correct steps to mitigate rather than avoid them.

This lecture summarizes the required steps in qualifying technology and how to track technology development through the technology readiness level (TRL) ranking system. Some pitfalls of TQP execution will be discussed, as well as the dangers of taking shortcuts. Data from a recent subsea separation qualification program will be presented. The TRL has evolved more quickly and gained more industry acceptance than the TQP. Nonetheless, continued standardization of both the TQL and TRL is needed to reduce the cost of developing technology and allow faster implementation.

Event schedule:
11:00 AM to 11:30 AM – Sign-in and networking
11:30 AM to 1:00 PM – Lunch and presentation
1:00 AM to 1:30 PM – Networking and close

ED GRAVE

Ed Grave is Upstream Senior Technical Advisor for fractionation and separation at ExxonMobil Upstream Research Company in Spring. Recognized in the company for his expertise in advancing new technology, he led ExxonMobil’s effort to design and qualify a separation system for ultra-deepwater. Grave initiated and is the technical chairman of the joint industry Separations Technology Research Program on qualifying separation equipment. He also served as vice chair of SPE’s Separation Technology Technical Section. Grave graduated from New Jersey Institute of Technology with an MS degree in 1982. He began his career at Lummus and joined Mobil Research & Development Company as a mass transfer specialist in 1990.

NOTE: All attendees to this event MUST pre-register & pre-pay. It is mandatory for this event to accommodate the ExxonMobil campus security protocols. Access will not be granted into the campus without it.
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Diagnostic Evidence for Advancing Diversion-Aided Completions

Fiber optic technologies (DTS/DAS) and production logging measurements in North America have repeatedly demonstrated that limited entry conditions (i.e., back-pressure) persist for only a few minutes after proppant reaches the primary casing exit points. This identification of a real and material problem with respect to fluid exit efficiency indicates that limited-entry alone is not sufficient, and some enhanced strategy must be deployed. Diversion technology has been introduced to provide improvements to this result. This presentation will describe the current state of diversion technology being used in new wells to impact the fracture initiation point count spacing and cluster flow efficiency.

Recent advances in fiber optic technology utilized both during the stimulation process and during production afterward have demonstrated that flow is actually four-dimensional in nature and dynamic over time. During pumping operations, there can be chaotic arrangements of casing exit points that allow flow (breakdown) and no flow, as well as wild temporal fluctuations in cluster-specific flow rates. Adding diversion strategies to this already dynamic environment has further escalated the complexities observed, while revealing the necessity to define the fundamental system influencing variables that affect the success of the diversion outcomes.

Measuring completion parameter sensitivities with standard diversion practices is much less reliable as compared with integrating a systematic engineered approach that addresses the root causes of the high-variability. New methods being investigated are seeking to tighten the window of uncertainty associated with chemical diversion, thus enabling a greater understanding of the diversion process, and facilitating more effective calibration of pumping and completion designs based on diagnostic measurements.

MATTHEW LAHMAN

Matthew Lahman is a Global Product Champion for Halliburton in Houston. He began his career in 2008 as a hydraulic fracturing field professional working in the Haynesville/Bossier shale and tight gas formations in north Louisiana and east Texas, including technical oversight of over 600 unconventional frac stages. Lahman leverages his field experience in the research and development of global applied engineering methods to maximize the conductive exposed induced fracture area generated through stimulation to improve recovery factors. He facilitates collaboration and field process development between geographies and disciplines in support of Halliburton’s strategic objectives. He is an SPE member and holds a BS degree from Louisiana Tech University.
On September 19, 2016, SPE-GCS International Study Group will host a luncheon with Loren Long of Talos Energy, LLC, who will speak on his company’s experiences in the first rounds of bidding on Mexico leases following the Mexico Energy Reforms of 2014.

Talos Energy, LLC is an early entrant into Mexico’s shallow water. In a consortium with two other companies, Sierra Oil & Gas and Premier Oil, during Mexico’s Round 1 shallow water lease sale in 2015, four-year old Talos Energy won two blocks that total more than 160,000 acres.

The story of Talos Energy LLC is one of a seasoned team backed by two private equity providers to build a company in the Gulf of Mexico. The Houston company formed in 2012 with equity commitments of up to $600 million from Apollo Global Management and Riverstone Holdings, to execute an acquire, develop and explore strategy based on 3-D seismic data in the Gulf of Mexico and lower Gulf Coast. It holds blocks in the Gulf of Mexico from High Island to Main Pass, in both shallow and deepwater areas.

Loren Long will also share Talos’ experience working with Mexican regulators in preparing to drill the first non-Pemex exploratory well in 77 years. He will offer his perspective on the future of the oil and gas business in Mexico.

**LOREN LONG**

Loren Long is the Managing Director – Mexico for Talos Energy LLC, based in Houston. He has been with Talos since August 2014, but previously worked with the Talos management team at Phoenix Exploration from 2006 to 2011. In 2011, Long co-founded a private oil and gas company, Momentum Oil & Gas, which produced and explored in South Texas.

Long graduated from Stanford University with a BS in petroleum engineering in 1994 and immediately moved to Houston to work for Amoco as a drilling engineer. In late 1996, Long began working for Union Pacific Resources as a production and reservoir engineer in East Texas and the Gulf of Mexico shelf. In 2000, Long moved back to Houston, where he worked in various engineering positions with Anadarko Petroleum, Houston Exploration, Redman Energy, and Phoenix Exploration.
The evaluation of shale is complicated by the structurally heterogeneous nature of fine-grained strata and their intricate pore networks, which are interdependent on geologic factors including total organic carbon content, mineralogy, maturity, and grain-size. The ultra-low permeability of the shale rock requires massive hydraulic fracturing to enhance connectivity and increase permeability for the flow. To design an effective fracturing technique, it is necessary to have a good understanding of the reservoir characteristics and fluid flow properties at multiple scales.

Representative core plug samples from a tight carbonate source rock in the Middle East were characterized at the core and pore scale levels. 2D Scanning Electron Microscopy and 3D Focused Ion Beam–SEM analysis were studied to characterize the organic matter content in the samples together with (organic and inorganic) porosity and matrix permeability. The FIB-SEM images in 3D were also used to determine petrophysical and fluid flow (SCAL) properties in primary drainage and imbibition modes.

The organic matter was found to have an effect on the imbibition two-phase flow relative permeability and capillary pressure behavior and hysteresis trends among the analyzed samples. The data obtained from DRP provided information that can enhance the understanding of the pore systems and fluid flow properties in tight formations, which cannot be derived accurately using conventional methods.

Dr. Avrami Grader is an expert in multi-phase flow in porous media. He is a former professor at Penn State’s Department of Energy and Mineral Engineering. Grader’s research focused on two- and three-phase flow in porous media, transient pressure analysis with its effect on well testing and on reservoir engineering water influx problems, and multi-phase flow dynamics in the near wellbore domain, including wellbore mechanics. He has provided consulting services in X-ray CT imaging and image processing and analysis, including work in Germany, Brazil and the US. Grader holds a PhD in petroleum engineering from Stanford University and is a member of the Society of Petroleum Engineers of AIME. He also is author or co-author of 45 referred articles and/or published bound proceedings.
Sourcing water for the large multi-frac stimulations in West Texas is a well-known constraint on oil and gas development in the area. Additionally, large volumes of produced water have traditionally required disposal in injection wells. Rather than viewing these constraints only as challenges, ConocoPhillips' Permian Unconventional water management team realizes the tremendous and unique opportunity to address both issues by using treated produced water for reuse in hydraulic fracturing operations. With this perspective, water management strategy development has become a truly collaborative and integrative process that addresses the full life-cycle of water. To reduce implementation risks and improve economics in a safe and environmentally responsible manner, the Permian Unconventional Asset plans to initiate full field produced water reuse early in appraisal and development of the project.

**DR. KRISTIE S. MCLIN**

Dr. Kristie S. McLin is the Water Management Project Lead for ConocoPhillips' Mid-Continent Business Unit. McLin aligns and integrates all aspects of water management into a holistic strategy for the asset, including sourcing, transfer, storage, disposal, and reuse. McLin joined ConocoPhillips in 2012 as an inorganic geochemist in the technology division. Her prior experience includes research on optimizing water management processes for production and injection in engineered geothermal systems (EGS) at the Energy and Geoscience Institute at the University of Utah. She also consulted for the petroleum and geothermal industries on the impact of water-rock interactions on production and injection processes. She holds a BS and an MS from New Mexico Institute of Mining and Technology and a PhD from the University of Utah.
Balaji Ramachandran, PhD, is the Associate Professor of Geomatics at Nicholls State University in Louisiana. In the past 10 years, Ramachandran has been responsible for developing the geomatics program at Nicholls. He has been awarded the Contractors Educational Trust Fund Super Endowed Professorship and T. Baker Smith Endowed Professorship for his efforts in helping build this new program. He also directs the state-of-the-art Geospatial Technology Center at Nicholls. He manages several projects on GIS applications, data-warehousing of regional GIS datasets, monitoring coastal erosion and subsidence using GNSS, and Internet-based GIS applications. He is also working on emerging technologies involving unmanned aerial systems for mapping barrier islands, monitoring critical infrastructure, oil- and gas-related industries, and terrestrial laser scanning for coastal erosion in Louisiana.

A new breed of Remote Sensing (RS) platform known as Unmanned Aerial Systems (UAS) is emerging. UAS are widely used in “dull, dirty and dangerous” military applications and are now being applied to industry. Aircraft sizes range from 10 cm (micro air vehicle) to Global Hawks with wingspans as wide as 70 m. UAS can be equipped with a variety of interchangeable imaging devices and sensors such as digital videos; infrared cameras; thermal, multi-spectral and hyper-spectral sensors; synthetic aperture radar; laser scanners; chemical, biological, and radiological sensors; and weather-monitoring devices.

Small-sized UAS (sUAS) platforms will be ideal for aerial robotics in facility inspection and monitoring of deepwater production platforms, offshore and onshore facilities; in rapid response and assessment to monitor oil spills, in monitoring endangered species along oil and gas operation corridors; and in securing critical infrastructure from threats. Robotics technologies present an opportunity to develop reliable and deployable solutions to support business processes while removing personnel from the operating theater and accessing areas that would otherwise be difficult or impossible.

Dr. Balaji Ramachandran will discuss the exciting potential of sUAS in the oil and gas industry and share some of the latest research from the geomatics program at Nicholls State University. Ongoing research projects include characterization of Louisiana barrier islands, inspection of offshore platforms, infrastructure monitoring, and precision agriculture. An sUAS certification program is being designed to prepare students for UAS-related careers.
Arthur E. Berman is a geological consultant with 38 years of experience in petroleum exploration and production. He consults for several capital groups and E&P companies in the energy sector. He frequently gives keynote addresses for investment analyst conferences, oil and gas association meetings, and professional societies.

Berman regularly contributes to CNBC, CNN, CBC, BNN, OilPrice.com, Bloomberg, Platts, The Financial Times, and The New York Times. He is a Director of the Association for the Study of Peak Oil & Gas USA, a Managing Director and contributor at now-archived The Oil Drum, an associate editor of the AAPG (American Association of Petroleum Geologists) Bulletin, and past Vice President and Bulletin Editor of the Houston Geological Society.

He has published more than 100 articles on geology, technology, and the petroleum industry during the past five years, with topics including petroleum exploration, oil and gas price trends, petroleum play evaluation, sequence stratigraphy, and petroleum geopolitics. He has also authored more than 20 articles and reports covering all major shale gas plays. He worked 20 years for Amoco Corporation (now BP) and 17 years as an independent geologist. He earned an MS in geology from Colorado School of Mines and a BA in history from Amherst College.
COMPLETIONS & PRODUCTION

Unconventional Strategies for Conventional Wells

Current market conditions have led many producers to change their strategies to improve efficiency, production, and cost savings. Many legacy wells hold the power to do these things with a little investment and strategy adjustment. This presentation will cover well candidates, procedures, and rig selection, as well as how to achieve new production through casing exits and the use of a work-over rig.

BOB CHITWOOD

Bob Chitwood serves as Vice President of Operations at Key Energy Services. He began his career in energy production 38 years ago as a rig operator for Updike Brothers Inc., where he was later promoted to Field Supervisor and Operations Manager. After Updike Brothers was acquired by Key in 1998, Chitwood became the Rocky Mountains Operations Manager and later the Rocky Mountains Division Manager.

Chitwood has extensive experience in downhole and wellbore processes and holds a well control certification. He has been trained in developing job safety analysis work plans and has been accredited by the International Association of Drilling Contractors Rig Pass safety program. Chitwood has also received training from the Center for Creative Leadership.
September Luncheon & Program

LOCATION
Carmelo’s Italian Restaurant
14795 Memorial Dr
Houston, TX 77079

EVENT CONTACT
Evelyn Earlougher
281-419-1328
eearlougher@comcast.net

SPE-GCS YP Volunteering at the Houston Food Bank

Join the YPs to help the Houston Food Bank meet its goal of serving 100 million nutritious meals to the Houston community by 2018.

The YP Community Outreach Committee planned this event so that we can make a difference while getting to know more people from our industry.

We will help out at the warehouse. Projects will depend on the Food Bank’s needs and may include inspecting/sorting food, repacking dry food into family-sized bags, and stocking/cleaning the emergency food pantry.

Volunteers are required to wear close-toed shoes and sleeved shirts.

REGISTRATION
spegcs.org/events/3310/

Introduction to Management Consulting in Oil and Gas

Have you ever wondered what management consultants do in our industry? Would you like to learn more?

Topics at this event will include:
• An overview of the role management consultants play in the oil and gas industry
• How a petroleum engineer can transition into consultancy
• Hot topics currently shaping the industry
• An ex-engineer’s experiences in management consulting
• An interactive case study from a real project
• Q&A on management consulting in oil and gas

The event is sponsored and hosted by Boston Consulting Group. BCG is a global management consulting firm with 12,000 employees and 82 offices in 46 countries. The firm advises clients in the private, public, and not-for-profit sectors, including more than two-thirds of the Fortune 500. BCG was ranked second in Fortune’s “100 Best Companies to Work For” in 2015.

Drinks and cocktail food will be served. The event is limited to the first 50 registrants.

REGISTRATION
spegcs.org/events/3315
Where Are They Now?
PAST SCHOLARSHIP WINNERS

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

My favorite college memory is the annual TAMU SPE golf tournament. This was an event I looked forward to every year. It was a great day of interaction between current and former Aggies with a mutual interest in oil and gas.

While in school, I served as TAMU SPE Treasurer and President. After graduate school, I went to work for Devon Energy. Devon had great rotation programming, allowing me to work for a full year in the field, where my time was spent on well locations, frac jobs and drilling rigs.

After a year, I moved to the office in Oklahoma City and spent a short time working operations before landing in my permanent role as a reservoir engineer.

In 2010, I was presented with an opportunity that I could not pass up (and not just because it got me back to Texas). I started working for a small, private equity-backed company called Double Eagle Energy Holdings. I have been with Double Eagle for almost two years working as a reservoir engineer focused on Permian and Rockies assets. I enjoy the fast-paced and quickly growing environment, and I believe that I am a part of a group that is taking advantage of current commodity prices.

The best part of receiving the SPE-GCS scholarship for me was the networking. I met industry professionals and other students who also received the scholarship at the banquets. My advice to current students is to make the most of the time that you have to get to know your fellow classmates. These are people that you will cross paths with during your career.

SPE-GCS Scholarship Fund Update

We are excited to announce our third status update for our fundraising efforts. As of August 1, we have raised $86,680 to support our scholarship program! We have received donations from past scholarship recipients who wanted to give back, SPE-GCS Board of Directors members, GCS study group and committee leaders, SPE-GCS members and associates, and SPEi leaders, as well as company donations.

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

EIGHTH SEMINAR SERIES

The SPE Members in Transition Seminar Series covers topics of interest to SPE members who are between jobs during the current industry downturn or who are looking for new career opportunities. The agenda for the eighth seminar in the series will include “Contracts and Legal Issues Impacting Careers,” “Getting Started in Consulting, Prospect Generation, Acquiring or Evaluating Assets,” “Entrepreneurship in Oil & Gas,” and a discussion of resources for SPE members.

Program 1: Contracts and Legal Issues Impacting Careers
This session will address key issues that professionals in the oil and gas industry may encounter as employees or managers, including employment interviews; non-compete, non-solicitation, and anti-poaching covenants; reductions in force; and discrimination and harassment.

JACQUELINE ARMSTRONG
Jacqueline Armstrong has practiced employment law in Houston for over 25 years with a focus on the oil and gas industry. She has negotiated employment contracts and severance agreements as well as litigated non-compete covenants. Her practice also represents clients in civil rights cases. Because some of her work involves representing small businesses, Armstrong understands circumstances from both management and employee perspectives.

Program 2: Getting Started in Consulting, Prospect Generation, Acquiring or Evaluating Assets.
There are four main building blocks to your independent, upstream E&P LLC. Each of these interrelated building blocks can be used on their own or together to accomplish your goals. This session will provide a roadmap to setting up an LLC, recommendations to initiate each step, specific experiences, and successful outcomes.

BILL FAIRHURST
Bill Fairhurst has been involved in most US resource plays prior to the resource revolution. He and his teams have discovered dozens of new fields throughout the United States. He has successfully led teams in technical and general management positions and as President/CEO and COO. Fairhurst has obtained equity and debt financing for multiple organizations, including his own firms.

Program 3: Entrepreneurship in Oil and Gas
The industry downturn has decimated many companies, with capital spending cuts and large layoffs. However, the need for innovation has never been greater as the world requires more affordable and secure energy sources. This session will explore the role and risk profiles of entrepreneurs and we will compare entrepreneurism in the oil and gas sector vs. Silicon Valley, providing guidance on decision-making.

JIM SLEDZIK
Jim Sledzik, senior partner and president of the US office of Energy Ventures, has more than 26 years of experience in oil and gas. Sledzik previously served as the Global Marketing & New Technology Director and Vice President of Multiclient Services for WesternGeco and as a Global Account Director for Schlumberger. He holds an MBA from the University of Pittsburgh and a BS in geosciences from Pennsylvania State University.

EVENT INFO

FRIDAY
9.9.16
10:00 AM – 3:00 PM

SPEAKERS
Jacqueline Armstrong
Attorney & Counselor at Law
Armstrong & Associates

Bill Fairhurst
President and President/CEO
Riverford Exploration LLC and
PetroTex Energy Partners, LLC

Jim Sledzik
Senior Partner and President, Houston Office
Energy Ventures

LOCATION
Houston Technology Center
410 Pierce St
Houston, TX 77002

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

Alex McCoy
713-366-5653
alexander_McCoy@oxy.com

MEMBERS
$40/$50 Walk-In

NON-MEMBERS
$50

STUDENTS/TRANSITIONING
$15

Registration capped at 70
SPE-GCS 2016 Mergers, Acquisitions & Divestments Symposium

The Business Development Study Group of the SPE Gulf Coast Section invites you to the inaugural SPE-GCS Mergers, Acquisitions & Divestments Symposium. The symposium is an annual one-day workshop welcoming young and mid-career professionals to the commercial and transactional side of the oil and gas industry.

The MA&D Symposium will provide an overview from deal conception to deal closing featuring keynote and session talks and discussions by A&D experts, as well as generous opportunities for networking with about 100 industry peers.

As the current state of the industry applies stress to operators, strategic portfolio management becomes an important driver in creating shareholder value or even survival. The MA&D Symposium will provide detailed insights into the role, process, workflow, participants, and practices of deal-making to give participants the knowledge and network they need to consider opportunities as an A&D professional.

We look forward to seeing you at the renowned Petroleum Club of Houston for a day of knowledge sharing, networking and fraternity.

RON HARRELL

The MA&D Symposium will kick off with a keynote talk by recognized industry expert Ron Harrell. Harrell is a petroleum engineering graduate of Louisiana Tech University and Chairman Emeritus of Ryder Scott Company, Petroleum Consultants. He retired as Chairman in May 2006. Harrell remains active in the industry as a licensed engineer in three states and serves on several management and advisory boards for corporations, not-for-profit organizations, and universities. He is a Senior Advisor to RSK(UK)LTD, as well as The Carlyle Group and Morgan Stanley private equity energy divisions.

AGENDA
7:45 AM Registration and continental breakfast – Networking
8:10 AM Welcome and overview from conference chairman
8:20 AM Keynote: Ron Harrell, Chairman Emeritus, Ryder Scott Company
8:50 AM Session 1: Strategy, Identification & Screening*
10:20 AM Session 2: Production, Reserves, Assets & Valuations*
11:30 AM Luncheon featuring MA&D talk by prominent industry executive
1:00 PM Session 3: Bid Formulation, Review & Approval*
2:45 PM Session 4: Due Diligence, Finalizing the Deal & Ethical Considerations*
4:15 PM Session wrap-up & MA&D Game: team-building exercise
5:00 PM Networking social begins
5:30 PM Teams submit bids for MA&D Game and winners announced
6:30 PM Adjourn

*Conference sessions will be followed by networking breaks and refreshments

EVENT INFO

THURSDAY
10.20.16
7:45 AM - 6:30 PM

SPEAKERS
Ron Harrell
Chairman Emeritus
Ryder Scott Company, Petroleum Consultants

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

EVENT CONTACT
Patrick Jelsma
713-335-9050
patrick.jelsma@drillinginfo.com

REGISTRATION
Opens August 22. For more information, registration, and updated pricing, please visit specgs.org/study-groups/business-development/

MEMBERS/NON-MEMBERS
TBD
SPE-GCS 33rd Annual Tennis Tournament

The 33rd Annual Society of Petroleum Engineers Gulf Coast Section Tennis Tournament will be Thursday, November 3 and Friday, November 4 at Copperfield Racquet & Health Club, 15700 Longenbaugh Drive, Houston, TX.

Proceeds from the tournament benefit the SPE-GCS Scholarship Fund. In combination with other section functions, there have been 33 new scholarships for incoming college freshman studying petroleum engineering, math and sciences, as well as 70 renewed scholarships for sophomores, juniors and seniors to continue their education in petroleum engineering. More than $3 million in scholarships have been awarded since 1963 through this program.

In 2015, we had a successful tournament with over 70 players participating. Registrations and sponsorships raised $10,000. After tournament expenses, net proceeds of over $1,000 were contributed to the SPE-GCS Scholarship Fund.

Sponsors are an essential part of making this event a success. All sponsors will be recognized in the tournament program and on the sponsorship billboard exhibited throughout the tournament. Please see the Sponsor Form for sponsorship levels. In-kind donations for ditty bags and door prizes are also accepted.

The 2016 SPE-GCS Tennis Committee looks forward to seeing everyone for two fun-filled days of tennis!

QUESTIONS
Erin Chang
281-892-4720
erin.chang@bp.com

LOCATION
Copperfield Racquet & Health Club
15700 Longenbaugh Dr
Houston, TX 77095
281-463-2582
copperfieldclub.com

START TIMES
Mixed Doubles
6:00 PM Thursday, November 3

Tournament Doubles
9:00 AM Friday, November 4

DEADLINE
October 28, 2016
Participation is limited!
Entries accepted on a first-come, first-served basis.

Thursday / Friday
November 3 - 4

EVENT INFORMATION
There will be two flighted round robin events:
Mixed Doubles – Thursday evening, November 3
Tournament Doubles – Friday, November 4

The tournament doubles event is open to men and women and is a combined bracket. Partners may be of the same gender or mixed.

The committee will assist players who do not have a partner for any event.

FLIGHTING
Championship – Advanced players
A – Regular and advanced players
B – Intermediate players
C – Non-regular players and beginners

The SPE-GCS Tennis Committee reserves the right to allocate players to a different flight if necessary. Please rank yourself on the honor system.

WHAT TO EXPECT
Lots of tennis, meeting old friends and making new ones.
Door prizes, T-shirts, awards, meals and beverages.

Thursday – Light dinner
Friday – Breakfast, lunch and snacks
Hit & Grab – Friday after lunch
Award presentations, door prizes & heavy appetizers – late Friday afternoon ~ 4 PM

RULES OF ENTRY
The event is open to members, nonmembers, guests, and friends of SPE. The only restriction is that tennis professionals are not allowed.

REGISTRATION
Thursday, November 3 – 4:00 – 6:00 PM
Friday, November 4 – 8:30 – 9:00 AM

IMPORTANT NOTICE
All paid participants must wear their name tags during this event to have access to the food and drinks.

ENTRY FEES
$125.00 per person – Fee covers tournament and mixed doubles for an individual player.
$50.00 for those only playing mixed doubles.
$25.00 – Spouse/guest (not playing)
Fees are due with entry form.

Please visit the link below for registration & sponsorship forms:
http://www.spegcs.org/events/3357/
Thank you to all those who attended the SPE-GCS-RPSEA Best of RPSEA: Onshore and Ultra-Deepwater Technology Conference August 30 - 31, 2016 at the San Luis Resort in Galveston, TX.

RPSEA continues to move forward with the role of being an objective partner in industry-wide collaboration among operators, service companies, academia, and the US Government in the pursuit of better safety, and environmental practices, while improving exploration and production of energy resources.

Network with the highest level of industry peers. Join a Technical Advisory Committee.

Be one of the Voices that helps shape the future of our industry.
Texas A&M Wins Outstanding Student Chapter

For the second consecutive year, Texas A&M University’s SPE Student Chapter has won the Outstanding Student Chapter Award. It is the highest honor that a student chapter can receive and is given to the chapter that best demonstrates exemplary effort in industry engagement, planning and operations, community involvement, innovation, and professional development.

“I am so proud of our student chapter for winning this award a second year in a row,” said Shawn Guice, this past year’s TAMU-SPE President. “Every year we aim to raise the bar higher, and this year was no exception, despite the state of the industry.”

This marks the 11th time Texas A&M has been selected for this award since its inception in 1995.

“The Core Values of Texas A&M University include loyalty, integrity, leadership, excellence, respect, and selfless service,” said current chapter President Alex Lambros. “I truly believe that these values have enabled the TAMU-SPE Student Chapter to achieve the Outstanding Student Chapter Award time and time again.”

This distinction would not have been possible without the hard work of every member, committee, co-chair, director, board chair, faculty advisor, and the 2015-2016 leadership team:

- Shawn Guice, President
- Courtney Brown, Vice President
- Kevin Ding, Treasurer
- Karin Gonzalez, Secretary
- Johannes Alvarez, Graduate Representative

With another great leadership team, Texas A&M will continue to build upon its previous success and convey the quality of its students to the industry.

Social Event in Hermann Park

On July 31, the Rice University SPE student chapter invited all of our SPE members to a picnic social event in Hermann Park. During the event, everyone had the chance to meet and network with fellow SPE members. We also helped people learn more about our organization and recruited future SPE members.

Pre-Career-Fair Events

On August 31, we hosted Resumania to help members prepare for the upcoming career fair. During this event, industry representatives offered insightful suggestions on how to prepare an outstanding resume.

For September, we have organized several mock interview workshops with Rice alumni and other professionals. Such workshops help students practice interview skills so that they’re better prepared to meet with potential employers.

We would like to express our deep gratitude and appreciation to SPE-GCS, Rice alumni, and industry representatives for their tremendous support with these events.

A Special Invitation: Advisory Board

We invite both Rice alumni and industry representatives to give student members advice and help them build personal connections. If you are interested and willing to support us through this advisory board, please contact Pengfei (Patrick) Dong, pd18@rice.edu
UH-SPE

UH-SPE Qualifies for PetroBowl Championship at ATCE 2016

The PetroBowl competition was founded in 2002 by the Society of Petroleum Engineers Gulf Coast Section. It’s held annually in conjunction with the SPE Annual Technical Conference and Exhibition (ATCE).

Ranked against 129 other teams from 37 countries, the University of Houston SPE PetroBowl team has qualified to attend the global competition in Dubai. This is the first time our chapter has qualified since 2012. UHSPE is also the only chapter to have qualified from the Gulf Coast Section this year.

Right now, our team does not have the funding to attend the international competition. UHSPE has set up a GoFundMe campaign (tinyurl.com/UHPetrobowl) to accept donations. We sincerely appreciate any support to send our PetroBowl team to Dubai. Please contact us at petrobowl@uhspe.org to get information about the championship and to learn about corporate partnership opportunities.

Event contact email: petrobowl@uhspe.org
GoFundMe campaign: tinyurl.com/UHPetrobowl

Student Chapter Directory

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UNIVERSITY OF HOUSTON
GQ Guo
president@uhspe.org

Completion Diagnostics – The EUR Enhancer

For more information visit us at www.corelab.com/protechnics or call 713-328-2320
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SPE-GCS CONNECT
SCALEGUARD proppant-delivered scale inhibition

SCALEGUARD® technology is an encapsulated ceramic proppant infused with scale-inhibiting chemicals to maintain optimum production and recovery rates from scale-prone wells, while reducing well costs and chemical usage.

SCALEGUARD technology features an engineered internal porosity and can be blended with any product from our high quality proppant portfolio, without compromising the high conductivity of the proppant pack. Scale-inhibiting chemicals infused within the proppant are released into the fracture only on contact with water to deliver highly efficient production assurance.

Now long-term scale prevention is available throughout your entire production system from a single, simple treatment while you frac.

carboroceramics.com/scaleguard  Production. Enhanced.

SOCIETY OF PETROLEUM ENGINEERS
GULF COAST SECTION

10777 Westheimer Road
Suite 1075
Houston, TX 77042

September
CALENDAR

<table>
<thead>
<tr>
<th>SUNDAY</th>
<th>MONDAY</th>
<th>TUESDAY</th>
<th>WEDNESDAY</th>
<th>THURSDAY</th>
<th>FRIDAY</th>
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