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The SPE Gulf Coast Section leadership is guided by a Strategic Plan, designed to be a roadmap for the future. It guides policies, programs and decision making for the section in long term tactical planning, annual budgeting and day-to-day operations. The Strategic Plan reaffirms the mission of the Gulf Coast Section, as defined in our bylaws, and directs the section leadership to focus its efforts on a number of areas. Our current Strategic Plan was prepared and approved by the SPE-GCS Board of Directors in 2005. Mike Strathman (Vice Chair) and his 2013 Strategic Plan committee have begun preparation of a new Strategic Plan for the Gulf Coast Section. The 2013 Strategic Plan committee members are Steve Baumgartner (Chair), Hiep Vu (Past Chair), Lucy King (Secretary), Rob Bruant (Treasurer), David Tumino (Vice Treasurer) and Jeanne Perdue (Membership). A draft of the 2013 Strategic Plan will be presented and discussed at the March Board of Directors meeting.

The 2013 SPE-GCS Strategic Plan will address four areas:
- Professional Development for Members
- Investment in Community
- Membership Support
- Administrative and Financial Governance

The SPE-GCS Strategic Plan calls for a Long Range Plan (LRP) outlining specific action items and initiatives that are shaped by the Strategic Plan. The LRP currently in place was approved in 2009 for the years 2009-2012. Many of the initiatives of the 2009 LRP have been accomplished or are in progress. The Gulf Coast Section is due for a new LRP. Mike Strathman and his 2013 Strategic Plan Committee will form the 2013 Long Range Planning committee to accomplish this important work. The 2013 LRP committee will be tasked with reviewing implementation of the initiatives outlined in the 2009 LRP and making recommendations for initiatives to be included in the 2013-2016 Plan. The new LRP will be guided by and aligned with the 2013 Strategic Plan. It is important that the new LRP incorporates changes that the SPE-GCS membership wants, while not changing established and well-appreciated initiatives of the section. To that end, we ask each of you to communicate with the members of the LRP Committee to voice your opinions and suggestions on new initiatives to be pursued over the next three years, as well as which established initiatives should continue to be supported by our section.

In September, we announced that we were giving the SPE-GCS website (http://www.spegcs.org/) a facelift. Valerie Martone (Communications) accepted the challenge of managing this project. We thank her for all the time and effort she contributed to successfully completing the project. The simple, organized format of our new site (which went live in January) makes it easy to navigate to what you are interested in, whether it is tracking down a presentation you heard, learning how to advertise your company with us or even finding a photo of you and your colleagues at a recent SPE-GCS event. One of the improvements in the new site is the integration with the SPE website as well as social networking sites. We encourage you to sign up for the e-newsletter, become a member or connect with other members on our various social media outlets. Please visit the new site and let us know what you think.

Andrea Hersey was recently announced as the prize-winner for the SPE Gulf Coast North America Region in the 2012 Build the World of SPE membership recruitment contest. She recruited more SPE members during 2012 than anyone else in the region. Congratulations to Andrea on this significant achievement.

Register now for the 40th Annual SPE Gulf Coast Section Golf Tournament. This Gulf Coast Section event contributes significantly to our Scholarship Fund, which helps college and university students who will enter our industry. The scholarships are extremely important to help address the unprecedented demand in the energy industry for scientists, engineers and technicians.

We would like to know how we can serve your interests with programs and activities organized by the SPE Gulf Coast Section study groups and committees. Please send us your comments and suggestions. My email address is sbaumgartner@marathonoil.com.
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March 2013

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THURS
March 14
7:30 AM TO 10:30 AM

SPE-GCS BOARD OF DIRECTORS MEETING

LOCATION
SPE Houston Office
10777 Westheimer Rd.
Suite 1075
Houston, TX 77042

EVENT CONTACT
Sharon Harris
713-457-6821 EXT. 821
713-779-4216 FAX
sharris@spe.org

IN EVERY ISSUE
March 1998

Pemex continues to drop reserve estimates, this time for their southern region, dropping the total from 11.862 billion boe (the last year) to 11.056 billion boe. (There goes the peso again!)

Shell and Unocal resolve the lawsuit filed by Shell regarding protection of proprietary E&P data that could be potentially transferred to Unocal by a number of former Shell employees hired by Unocal.

As the turn of the century approaches, an international research firm reports the results of an operator poll ranking foreign countries in the following order as to their favorable status for new E&P ventures: U.K., Australia, Brazil, Kazakhstan, Indonesia, Algeria, Venezuela, Argentina, Egypt, and Azerbaijan.

The U.A.E. bans all oil-related barge traffic in their territorial waters and ports after a barge sinks trying to smuggle Iraqi oil through the Persian Gulf. The resulting spill forced the closure of desalination plants, which supply drinking water to the region.

Light, sweet crude oil - $15.23/bbl; Natural gas - $2.21/MMbtu; U.S. active rig count - 957

March 2002

ExxonMobil reports plans to enter the Taiwanese retail market, which was just recently opened to foreign competitors. Until they secure a foothold in the market, they plan to buy products from state-run Chinese Petroleum Corp. for resale. (Interesting marketing strategy!)

Gaz de France signs a contract with a French shipbuilder to construct the world’s first diesel electric LNG carrier. The vessel will be the first of its kind to use diesel-electric propulsion.

The Sakhalin I Consortium plans to build an advanced, special-purpose rig to drill extended-reach wells to offshore targets from a land-based site on Sakhalin Island, Russia.

Forest Oil and Anschutz International will soon be selling gas from the Orange basin offshore South Africa. The natural gas will ultimately be used to generate electric power in Cape Town.

Light sweet crude oil - $23.26/bbl; Natural gas - $2.62/MMbtu; U.S. active rig count – 769

March 2012

El Paso reports plans to sell its exploration and production business, EP Energy Corp., for $7.15 billion to affiliates of Apollo Global Management LLC and Riverstone Holdings LLC.

The USGS issues the first shale oil and gas estimates for Alaska’s North Slope at 2 billion bbl of oil and 80 tcfd of gas which are technically recoverable.

A European Union technical committee hands Alberta oil sands’ producers a small victory by declining to declare fuels made from bitumen to be greater emitters of greenhouse gases than those from other types of crude oil.

The Sabine Pass LNG export project takes a step toward a final investment decision by entering an exclusive agreement for financing worth $2 billion.

Light, sweet crude oil - $104.20/bbl; Natural gas - $2.57/MMbtu; U.S. active rig – 1,975

This month we continue our extended look at the life and times of oil magnate John D. Rockefeller.

After a long, tense day at the office in downtown Cleveland, Rockefeller would go home to Euclid Avenue, read the evening newspaper and enjoy his family. But he didn’t drink. In keeping with his firm religious beliefs, he was a strict teetotaler.

It was with his children that Rockefeller really let down his guard. He balanced fine china on his nose to amuse them. He taught them to skate and swim and ride bicycles. On moonlit nights, he led family bike journeys through the woods, attaching a white handkerchief to his back so the children could follow him easily.

John and Cettie sheltered their children from the family’s growing
wealth, paying them tiny allowances, encouraging them to earn spending money by sharpening pencils and doing other household chores and teaching them the importance of duty to one’s fellowman, good sense and, above all, religion.

Fortunately for Rockefeller, the Baptist doctrine did not discourage the pursuit of financial gain. The faith’s roots were Puritanism and the Puritans saw the ability to earn and save as virtues. Rockefeller, writes one biographer, had a “sense that he was one of God’s soldiers and religion made him great.” Without religion, without the belief that he was serving God as he grew richer, Rockefeller might not have been such an exuberant capitalist. “I believe the power to make money is a gift from God,” he cheerfully declared, “to be developed and used to the best of our ability for the good of mankind.”

Next month, his business philosophy begins to take shape and along comes Standard Oil.

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

---

**QUIZ**

In what year was the first structural map of an oilfield published and who is credited with its preparation?

---

**Answers to Last Month’s Quiz**

The component of natural gas that flows through a hole faster, conducts heat better and transmits sound at a higher velocity than any other gas except for hydrogen is helium.

---

**Congratulations to Last Month’s Winner**

MARK GLASER WITH WEATHERFORD

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<tr>
<td>032225279</td>
<td>Completions Engineering Advisor – Shale</td>
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<tr>
<td>006427470</td>
<td>Deepwater Drilling Engineer</td>
</tr>
<tr>
<td>032224758</td>
<td>Well Control Instructor</td>
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This month the Gulf Coast Section wishes to recognize the volunteer efforts of Amy Timmons, who serves not only as the Treasurer and Web Communications Chair for the Permian Basin Study Group, but also as Web Communications/Publicity Chair for the Drilling Study Group.

Late last October, the Texas Railroad Commissioner, who was scheduled to present at the Permian Basin Study Group meeting on November 13, had to reschedule his talk for the spring. Amy took it upon herself to scramble and find someone to fill that slot on short notice. She ended up getting T. Scott Campbell, Business Development Manager for Production Systems at Weatherford, to speak about deliquification at that study group meeting.

Amy is currently a reservoir stimulation sales specialist for Weatherford, where she designs frac jobs and prepares pricing proposals. Prior to that, she was a marketing communications specialist at BJ Services, working her way up from senior secretary. She earned her degree in Business Management from Le Tourneau University in 2007.
The 2013 East Texas Oilfield Expo will be held on Wednesday, March 6th and Thursday, March 7th, 2013 at the Maude Cobb Convention Center in Longview, Texas. Approximately 1200 exhibitors from across the country will converge in Longview for the two-day event, making this the largest oil and gas trade show in the ArkLaTex region. Companies from every facet of the industry will be on hand, and there will also be heavy equipment displays, demonstrations, door prizes and more.

The East Texas Oilfield Expo is one-of-a-kind for this region, both in its scope and in its policies which protect the investments of our exhibitors and sponsors and ensure everyone present can enjoy a relaxed but professional, industry-oriented atmosphere. Our Public Attendance Policy outlines how we ensure the crowd attending our event is industry-only to ensure maximum attendee relevance, protect exhibitor investment and maximize your ROI and lead-gathering potential.

We provide many opportunities for oil and gas companies and organizations to be involved in the show. Besides exhibiting, we provide many sponsorship options for purchase, including A La Carte options. We also offer advertising opportunities including the ability to advertise at our future expos!

This is an exciting time for all companies who do business in the ArkLaTex. We look forward to your participation in our upcoming show, and are ready to assist you in any way to ensure your involvement is a total success.

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The SPE Digital Energy Conference and Exhibition is an international event, which addresses the key aspects of digital oilfield developments. Digital Energy 2013 will present the leading innovations that are moving our industry forward and provide a forum for collaboration among innovators, implementers, and end users.

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Session topics include digitizing business and operating processes, artificial intelligence, remote operations, risk management, workflow transformation, and more.

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For complete details and registration, visit the website at: www.spe.org/events/dec/2013/index.php

SAVE THE DATE:
SPE-GCS ANNUAL AWARDS BANQUET

Save the date and make plans to attend the SPE-GCS Annual Awards Banquet to be held on Thursday, May 23rd, 2013. Mr. Clarence P. Cazalot, President and CEO of Marathon Oil, will be addressing the audience. More details will be announced in the April and May Connect. For information regarding sponsorship opportunities, please contact James Rodgerson at james.rodgerson@bp.com.
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The Emergence of Liquified Natural Gas as a Transportation Fuel in North America

The current market environment in North America presents a unique opportunity to utilize liquefied natural gas (LNG) as a commercial fuel in various transportation, high-horsepower and industrial applications. An amalgam of key market factors, including, but not limited to, the abundance of domestic natural gas supply, the current price trajectory of both natural gas and oil-indexed fuels and the recent technological advances in the production of natural gas-powered engines have catalyzed the conversion of historical oil-derived fuel demand to LNG.

James Edward Burns, General Manager, LNG for Transport, Shell Americas will lead a discussion on the key commercial, technical and regulatory developments in this exciting new business space.

James Burns

James created Shell’s small-scale LNG business in the Americas and currently serves as the General Manager for Shell’s LNG for Transport activities throughout the Americas region. He is responsible for the division’s overall strategy, execution, project deliveries and customer service in key transport sectors including marine, road transport and rail.

Drawing upon more than 20 years of experience in fundamental areas of both upstream and downstream sides of the energy business, including commercial, trading, and finance, James manages a team with unique transport sector experience. The team is strategically positioned in key markets and is charged with identifying, maturing and operating business opportunities and growing the division.

Previously, James has held various positions in both global and regional roles based out of the United Kingdom, the Netherlands as well as the United States. After receiving a BBA, with an emphasis on marketing from California State University, James earned a EMBA from the University of Houston.
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Hydraulic Fracturing of Horizontal Wells—Realizing the Paradigm Shift That Has Been 30 Years in Development

“The latest multi-stage well completion and stimulation technologies have revolutionized the development of unconventional resources.”

Horizontal drilling as a field development technique was pioneered in the early 1980s. As drilling technology advanced, the industry was rapidly able to increase the extended reach of wells and the length of lateral drilled. However, for much of this time, the completion was limited to single zone techniques employing chemical and pressure diversion technologies in an attempt to stimulate the lateral section. Gradually, the industry went through a phased period of testing, culminating in the mechanical isolation technologies of “sliding sleeve” and “plug-and-perf” completions. The outcome of this has been a paradigm shift in unconventional field development where the use of horizontal wells with 15 to 40 mechanically isolated stimulation zones (stages) have resulted in a step change in field development costs and, as a consequence, resulted in the US horizontal rig-count reaching over 50% of all active rigs drilling.

The presentation is divided into three sections:
• A review of horizontal well stimulation technology development including the author’s first-hand experience of West Texas tests in the 80s, North Slope Alaska wells in the 90s and current applications in a variety of unconventional resources,
• A discussion of the two main types of multi-stage completion technologies being employed together with the application of both cross-linked and slickwater fracturing, and
• A review of current applications and results.

Dr. C. Mark Pearson

Dr. C. Mark Pearson is an SPE distinguished member who has over 30 years of experience in both the E&P and service industries. He is a well-known industry expert in the field of well completion and stimulation technology. He has published over 30 technical papers and has received a number of industry accolades for the economic impacts of his work.

He is President of Liberty Resources LLC, a Denver-based independent E&P company currently on a 4-rig drilling and completion program in the Bakken Oil Shale of North Dakota where he and his team have applied multi-stage completion and stimulation technology over the past three years to the extent that 35-stage horizontal wells are now standard for field development.
Build Your Foundation
To maximize convenience, PetroSkills will deliver its most popular courses multiple times in the Houston area over the next few months. These courses build a firm foundation and a solid platform for careers in their disciplines.

• Basic Petroleum Engineering Practices – BE:
  April 15-19, July 8-12, 9-13 Sept, Nov 18-22
• Production Operations 1 – PO1:
  June 10-21, Sept 16-27, Dec 2-13
• Applied Reservoir Engineering – RE:
  April 22-May 3, June 17-28, July 15-26, Nov 4-15, Dec 2-13
• Completions and Workovers – CAV:
  June 24-28, October 7-11, November 11-15
• Directional, Horizontal, and Multilateral Drilling – DHD:
  April 1-5, Dec 2-6
• Evaluating and Developing Shale Resources – SRE:
  May 20-24, August 26-30

For details on these or our other 250 sessions in the Gulf Coast, contact Patty Davis, (832) 426-1203 or patty.davis@petroskills.com, or see details and full selection at www.petroskills.com

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Upstream Unification-Bringing Together Disciplines Through Better Software Integration

Upstream disciplines have worked in segments with specific handoff artifacts and debriefing. Although available upon request or through information systems, direct and correlated information could see improvement. Southwestern Energy has undertaken the task of unifying the various real time activities (specifically geosteering, drilling, completions and production) into a synergistic set of tools and methodologies. This effort includes continuing improvement of external vendor toolsets, internal operations and rapid response applications and solutions.

Mark Reynolds will present an overview of the various initiatives, highlight some of the successes and outline potential follow-on prospects.

Mark Reynolds

Mark Reynolds is the Solution Architect for Upstream Integrated Operations. He is responsible for pulling together individual systems, repositories, control and operations centers to add value, efficiency and safety to the upstream exploration and production environments.

Save the Date

Joint Dinner
The Completions and Productions Study Group along with the Digital Energy Study Group will be hosting a joint dinner event on Wednesday, April 24th, 2013.
Be on the lookout for more information!

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Well Delivery Management-Drill More Wells in Less Time Improving Efficiency

With the introduction of newly developed production technologies to extract oil and natural gas from previously difficult or inaccessible sources, many oil and gas companies have chosen to tap the potential of onshore gas divisions to positively affect their bottom line. These assets may drill thousands of wells per year. The challenge of planning and tracking numerous wells increases daily as companies leverage new technologies and strive to manage costs.

Key Challenges:
• How to manage enormous volumes of data
• How to deliver wells more quickly and more efficiently
• How to exchange data across disciplines, applications and assets
• How to cope with Excel Hell

This presentation will review a case study involving a major oil company that undertook an audit revealing one gas asset was using more than 100,000 spreadsheets and 500 databases to manage well data with manual intervention still required to take well data through to the geologic and reservoir models. Each onshore gas asset managed planned wells with somewhat different processes and tools. In response, the company launched an initiative to define an onshore gas roadmap for new standard solutions. The initiative would offer a collaborative environment that allowed each asset to learn and improve from other assets and to streamline business processes in the overall well delivery process.

Theresa Parks

Teresa Parks is the Solution Lead for Well Delivery and Well Integrity Management focusing on delivering business value while partnering with the business to understand challenges, processes and context to apply the appropriate solutions. She has over 15 years of Information Technology experience within the Oil & Gas, Telecom and IT Service sectors. Her experience includes IT Project Management and Business Analysis for E & P projects. Teresa is a graduate of UT Arlington with a B.S. in Management Information Systems.
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Shale Resource Assessment & Development — Full Life Cycle Integrated Approach

A full lifecycle integrated approach for shale resource is an essential process to establish value creation and to ensure reserves and production growth. With this process, key issues and uncertainties in shale resource development are resolved as plays evolve from concept screening, to exploration and resource assessment, to full development. The integrated approach relies upon key elements, which include Field Demonstrations and Mechanistic Studies.

The design, planning and implementation of systematic and “scalable” field demonstrations are essential elements required to address strategic, development and operational issues. Mechanistic studies are utilized to understand the key production drivers. Shale gas productivity is typically much lower than conventional reservoir systems and often lower than tight gas reservoirs. The flow behavior in these systems must be understood and quantified in order to effectively characterize and predict well and reservoir performance behavior. The primary take-away from this presentation is that new processes and advances in field demonstrations and mechanistic models are key factors required for appraisal and development of global shale resources.

P. K. Pande

P.K. Pande manages an integrated team of subsurface professionals including geologists, geophysicists and reservoir engineers in application of subsurface technologies and best practices for unconventional and Deepwater resources.

He has also served as Subsurface Manager, Ourhoud Field, Algeria, the country’s second largest oilfield. He has contributed to the development and reservoir management of numerous world-class reservoirs including Alaska’s Prudhoe Bay, North America’s largest oilfield and Endicott, the first arctic offshore oilfield. He was actively involved in the design, planning and implementation of the Prudhoe Bay Miscible Gas Project, the largest enhanced oil recovery project in the world. He served as Project Manager for U.S. Department of Energy’s flagship project on improved recovery and reservoir characterization methods for shallow-shelf carbonate reservoirs in the Permian Basin.

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IADC/SPE Managed Pressure Drilling & Underbalanced Operations
San Antonio, April 17-18 2013

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Two Emerging Water Quality Issues in the Permian Basin

This talk summarizes two different water quality issues that are on the rise in the Permian Basin. Algal blooms in frac ponds and increasing salinity of the aquifer can each contribute to erratic performance of borate-cross-linked guar fracturing fluids if they are not addressed. We present two case studies where a first-principles approach to the underlying chemistry yielded superior fluid performance in the face of these significant challenges.

Bruce MacKay

Bruce MacKay has been with Schlumberger for seven years, first as a Product Developer and Research Scientist, and most recently, as the Client Support Laboratory Manager for the North American business unit of Schlumberger Well Services. Prior to joining SLB, he was a Visiting Scientist at the California Institute of Technology after completing a Ph.D. in inorganic chemistry at the University of British Columbia. His area of expertise, broadly stated, is the application of chemical knowledge to problems in stimulation fluids.
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R&D Leadership Perspectives on Running an R&D Organization

Ben van den Brule will be discussing management of a research organization. Included in this discussion will be topics regarding balancing the project portfolio between incremental and blue sky projects, people development in R&D organizations, R&D tools and methods (lean development, crowd sourcing, etc.) and leveraging collaborations outside of oil & gas. His talk will be followed by a question and answer session.

Ben van den Brule

Ben van den Brule graduated cum laude as a Mechanical Engineer and obtained a PhD in Applied Physics. He worked at the Philips Research laboratories from 1982 to 1991 until he joined Shell in Rijswijk. He has worked in the general research group and was part of the team that started Shell Gamechanger. After that, he left to be the Burgers Professor at TU Delft where he held a chair in Rheology between 1995 and 2000. In 2000, he returned back to Shell full time and joined the management team of Shell’s upstream R&D. In 2007, he moved to Houston to become the manager of Research and Engineering of the Unconventional Oil directorate. Currently, he is the Vice President for Unconventional Technologies in Shell’s Innovation, Research and Development Organization.
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Integration of Shale Gas Production Data and Microseismic for Fracture and Reservoir Properties

We present a novel approach to calculate drainage volume and well performance in shale gas reservoirs using a Fast Marching Method (FMM) combined with a geometric pressure approximation. Our approach can fully account for complex fracture network geometries associated with multistage hydraulic fractures and their impact on the well pressure and rates. The major advantages are its simplicity, intuitive appeal and computational efficiency. For example, we can compute and visualize the time evolution of the well drainage volume for multimillion cell geologic models in seconds without resorting to reservoir simulation. A geometric approximation of the drainage volume is then used to compute the well rates and the reservoir pressure.

The speed and versatility of our approach makes it ideally suited for parameter estimation via inverse modeling of shale gas performance data. We utilize experimental design to perform the sensitivity analysis to identify the most significant parameters and a genetic algorithm to calibrate the relevant fracture and matrix parameters in shale gas reservoirs by history matching of production data. In addition to the production data, microseismic information is utilized to help us constrain the fracture extent and orientation and to estimate the stimulated reservoir volume (SRV). The proposed approach is applied to a fractured shale gas well. The results clearly show reduced uncertainty in the estimated fracture parameters and SRV, leading to improved forecasting and reserve estimation.

Dr. Michael King

Dr. Michael J. King is Professor and Holder of the Foundation CMG Chair in Robust Reduced Complexity Modeling and the LeSuer Chair in Reservoir Management in the Department of Petroleum Engineering at Texas A&M University. He is the recipient of the 2011 SPE Reservoir Description and Dynamics Award, has served as a Distinguished Lecturer for the SPE and is the co-author of the SPE textbook on Streamline Simulation: Theory and Practice. He joined A&M in 2009 after enjoying 27 years with BP America, both in the U.S. and overseas. His original training was in Physics and Mathematics and he has a PhD from Syracuse University.
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In unconventional plays, you’re challenged by how to make more oil or gas while reducing costs and meeting environmental parameters. Halliburton has the solution: distributed temperature sensing—used in conjunction with microseismic fracture mapping—that gives operators the ability to make adjustments during a treatment to help assure every planned zone is treated.

What’s your stimulation monitoring challenge?
For solutions, visit www.pinntech.com
Thank you to the Young Professionals and the Tennis committee for providing this month's photos. We’d like to feature more photos from our section events and luncheons in the Connect. If your committee or study group has photos from your recent events, luncheons, dinners or conferences, please send the original, high resolution file to the Connect editor at editor@spegcs.org.
RICE/UH SPE STUDENT CHAPTER MEMBER
Receives SPE-Dallas Section Scholarship Award

Samarth P. Saxena is one of the recipients of SPE – Dallas Section Scholarships awarded for the year 2012-2013. He is currently pursuing his Masters in Petroleum Engineering from University of Houston. He has a Masters in Electrical Engineering from University of Houston and a Bachelors Degree in Electrical Engineering from Maulana Azad National Institute of Technology, India.

His current focus is on his thesis “Development of a Simple Tunable Viscosity Model for Hydrocarbon Mixtures.” His current areas of interest include fluid properties, flow behavior and drilling optimization. He is currently working as a co-op at Halliburton in the Wireline and Perforating PSL. He has been the recipient of three scholarships, two grants and one fellowship during his tenure as a full-time student at University of Houston. He is a member of SPE and IEEE and serves as a committee member for SPE – UH/Rice Student Chapter. He is also a member of Phi Beta Delta and Golden Key International Honor Societies.
Your education begins when you are confronted with a problem to which the answer is not in the back of any book and for which no equation has ever been derived. The skill required for life is to be able to create a solution for the unsolvable problem and to be able to sell that solution to an audience that really wants a perfect answer. Come and listen to 50 years of experience of doing just that.

DR. GEORGE E. KING is a registered professional engineer with over 40 years of experience since joining Amoco Research Center in 1971. His technical work has provided advances in foam fracturing, production from unstable chalk, underbalanced perforating, sand control reliability, gas shale completions and fracturing. Currently, he is working with new technologies for Apache Corporation. He holds degrees in Chemistry from Oklahoma State University, as well as Chemical Engineering and Petroleum Engineering from the University of Tulsa, where he also taught completions and workovers for 11 years as an adjunct professor. He has written 65 technical papers and was awarded the 2004 SPE Production Operations Award and the 2012 Engineer of the Year award from the Houston Region of the Texas Society of Professional Engineers. He is Apache’s Distinguished Engineering Advisor.
### 13th Annual Sporting Clays Tournament

**Registration**

<table>
<thead>
<tr>
<th>Team Captain</th>
<th>City/State/Zip</th>
</tr>
</thead>
<tbody>
<tr>
<td>Company</td>
<td>E-Mail</td>
</tr>
<tr>
<td>Address</td>
<td>Phone</td>
</tr>
</tbody>
</table>

**SPE Member Name /Number**

<table>
<thead>
<tr>
<th>Shooter No 2</th>
<th>Shooter No 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Company</td>
<td>Company</td>
</tr>
<tr>
<td>E-Mail</td>
<td>E-Mail</td>
</tr>
<tr>
<td>Phone</td>
<td>Phone</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Shooter No 3</th>
<th>Shooter No 5</th>
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</thead>
<tbody>
<tr>
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<td>Company</td>
</tr>
<tr>
<td>E-Mail</td>
<td>E-Mail</td>
</tr>
<tr>
<td>Phone</td>
<td>Phone</td>
</tr>
</tbody>
</table>

**METHOD OF PAYMENT**

Payment:  
- Check
- Visa
- MC
- AMEX
- DISC

Card Number

<table>
<thead>
<tr>
<th>Expiration Date</th>
</tr>
</thead>
</table>

Name as it appears on card

Signature

Email

Total to Charge Card

(Make checks payable to SPE-GCS)

---

**COST**

$850 per 5-person team

Includes a 100-round course

**LOCATION**

Rio Brazos Hunting Preserve

4430 Guyler Rd.

Simonton, TX 77476

www.rio-brazos.com

**REGISTRATION**

Yim Szeto

832-816-8966

361-798-3862 Fax

**REGISTRATION INFO**

At least one shooter must be a current SPE member

Shooters provide own ammo

(No. 7 ½, 8, 9 shot ONLY)

Starting time and station sent to team captain only

Sponsors will receive first consideration

Mail entry form with payments to:

SPE-GCS Sporting Clays

10777 Westheimer Road, Suite 1075

Houston, TX 77042
Tournament Sponsorship

- **Diamond Sponsor** $7,500
  As a diamond sponsor, your company will be recognized as a Corporate Sponsor of the tournament and the company name will appear on the sponsor board. Your sponsorship entitles you to four (4) complimentary teams in the tournament and V.I.P. parking.

- **Platinum Sponsor** $5,000
  As a platinum sponsor, your company name will appear on the sponsor board. Your sponsorship entitles you to two (2) complimentary teams in the tournament and V.I.P. parking.

- **Gold Sponsor** $3,500
  As a gold sponsor, your company name will appear on the sponsor board. Your sponsorship entitles you to one (1) complimentary team in the tournament and V.I.P. parking.

- **Silver Sponsor** $2,000
  As a silver sponsor, your company name will appear on the sponsor board. Your sponsorship entitles you to V.I.P. parking.

- **Bronze Sponsor** $1,500
  As a bronze sponsor, your company name will be on the sponsor board. Your sponsorship entitles you to V.I.P. parking.

- **Entry Gift Sponsor (limited to 3)** $5,000
  As an entry gift sponsor, your company name will be on the sponsor board and on entry gifts (to be determined by committee) handed out to each shooter.

- **Shuttle Cart Sponsor (limited to 3)** $2,000
  As a shuttle cart sponsor, your company name will appear on the sponsor board and on the shuttle carts used at the tournament.

- **Shotgun Sponsor** $1,200
  As a shotgun sponsor, your company name will appear on the sponsor board. Your sponsorship entitles you to personally present the shotgun on stage at the tournament to the winner.

- **Shooter # Sponsor** $1,000
  As a Shooter # Sponsor, your company name will appear on each competitor # that all participants will display.

- **Scorecard Sponsor** $1,000
  As a scorecard sponsor, your company name will be on the sponsor board, competitor #, and on each scorecard.

- **Corporate Sponsor** $500
  As a corporate sponsor, your company name will be on the sponsor board.

- **Hospitality Tent Sponsor (limited to 5)** $500
  As a hospitality sponsor, your company name will be on the sponsor board. As part of your sponsorship, you will be allowed to set up at or near the pavilion to provide one of the following: (1) Breakfast, (2) Lunch, (2) Drinks, or (1) Gun Cleaning Service.

- **Station Sponsor** $250
  As a station sponsor, your company name will appear on the sponsor board. As part of your sponsorship, you will be asked to set up a tent at an assigned station to provide refreshments for shooters throughout the day.

SEE BACK OF THIS PAGE FOR SPONSORSHIP FORM

In order to receive full advertisement benefit of your sponsorship, your sponsorship form and payment must be received by May 1st, 2013.

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CHAIRPERSON
Greg Rachal
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**Sponsorship Form**

**PLEASE CHECK THE LEVEL OF SPONSORSHIP YOU WISH TO CHOOSE**  
All sponsorship levels will receive next year’s tournament information approximately one month before the general membership mail-out.  
All sponsors receive preference on shooting times when possible. All profits will be used for SPE scholarships, local charities, community service projects, and member services.

- □ Diamond Sponsor $7,500
- □ Platinum Sponsor $5,000
- □ Gold Sponsor $3,500
- □ Silver Sponsor $2,000
- □ Bronze Sponsor $1,500
- □ Entry Gift Sponsor $5,000
- □ Shuttle Cart Sponsor $2,000
- □ Shotgun Sponsor $1,200
- □ Shooter # Sponsor $1,000
- □ Scorecard Sponsor $1,000
- □ Corporate Sponsor $500
- □ Hospitality Tent Sponsor $500
- □ Station Sponsor $250

**Company**

**Contact Name**

**Mailing Address**

**Phone**

**City/State/Zip**

**Fax**

**METHOD OF PAYMENT**

**Payment:**  ○ Check  ○ Visa  ○ MC  ○ AMEX  ○ DISC

**Card Number**

**Expiration Date**

**Name as it appears on card**

**Signature**

**Email**

**Total to Charge Card**  
*(Make checks payable to SPE-GCS)*

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**COMMITEE AUXILIARY**

**MARCH 2013 ACTIVITIES**

*The Houston SPE Auxiliary will not meet in March 2013. Please watch for news of our April meeting at which we will honor all of our past Presidents.*

*If you know someone who is interested in joining us or our activities, please contact Nancy Giffhorn, 281-360-4631 or rgiffhorn@AOL.com*

---

**EVENT**  
March 27, 2013

**BOOK**  
The Physick Book of Deliverance Dane by Katherine Howe

**DISCUSSION LEADER**  
Martha Lou Broussard

---

**HOSTESS**  
Maxine Hillman

**MORE INFO**  
Martha Lou Broussard
713-665-4428
2013 Golf Tournament

KINGWOOD COUNTRY CLUB | DEERWOOD COUNTRY CLUB

You are cordially invited to attend the 40th Annual SPE-GCS Golf Tournament. This Gulf Coast Section event is an important part of fundraising for our Scholarship Fund, which helps send several potential clients or co-workers to college. These scholarships are even more important now with an unprecedented Industry demand for increased engineering, resources and people. We need your support more than ever. Please consider participating or sponsoring the event. Visit http://www.spegcs.org/events/2069/ for more information and to register for the annual golf tournament.

When you select one of our prestigious Masters or Bachelors sponsorship packages, a specific student scholarship is awarded in your company’s name; you will help select the recipient, specify the engineering discipline, and have the chance to present the scholarship at the awards banquet. All of the benefits of the Deerwood or Kingwood Gold package are included, as appropriate.

Premium Sponsorships

Masters Sponsorship Options
2, 3, or 4 Teams | $5,000
The golfing choices for Masters are:
• Masters A: 2 Deerwood Teams
• Masters B: 1 Deerwood Team and 2 Kingwood Gold Teams
• Masters C: 4 Kingwood Gold Teams

Bachelor’s Sponsorship Options
1 or 2 Teams | $2,500
The golfing choices for Bachelor’s sponsors are:
• Bachelor’s A: 1 Deerwood Team
• Bachelor’s B: 2 Kingwood Gold Teams

Team Only

Deerwood Course | $1,850
All Deerwood teams are Gold level sponsorships, and include
• One foursome team on the premier course
• Morning or afternoon tee time
• Complimentary Food, Cigars and Open Bar throughout the day.
• Special recognition on our tournament table boards and in the tournament book

Kingwood Gold | $1,200
• One foursome on your choice of Kingwood Country Club golf courses
• Choice of morning or afternoon shotgun start
• Appetizers in the clubhouse after the round.
In addition to the above, Kingwood Gold sponsors receive special recognition (including your company logo) on our tournament table boards and in the tournament book.

Kingwood Regular | $700
For all Kingwood registrations, we will try to accommodate your choice of course when you express a preference.
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Photo Submissions

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CALENDAR

March 2013

Sunday Monday Tuesday Wednesday Thursday Friday Saturday

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