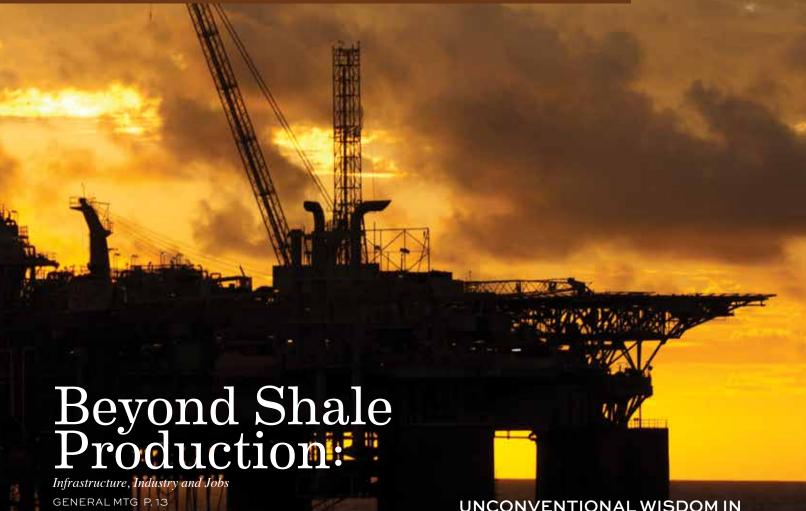




# CONNECT

SPE GULF COAST SECTION NEWSLETTER



THE NEW SPEGCS.ORG

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ACCELERATING TECHNOLOGY
DEVELOPMENT THROUGH
INVESTMENT IN YOUNG COMPANIES
WITH EXCITING TECHNOLOGY

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SPEGCS.ORG

# CHAIRMAN'S CORNER

STEVE BAUMGARTNER 2012-2013 SPE-GCS Chair



The SPE Gulf Coast Section leadership succession process is guided by identifying incoming talent and by participating members of study groups, committees and board positions. As more volunteers move up in our organization, more positions become vacant, creating an opportunity for you to get involved. The future success of the GCS lies in the hands of these volunteers. I challenge you to review the many opportunities available within our section and contact the corresponding committee or study group chair and offer your support. Simply log on to www.spegcs.org and select the committees or study groups that interest you. Your details will be forwarded to the appropriate chair who will then contact you.

The GCS Scholarship Committee is now taking applications for the 2013-2014 academic year. The Committee is dedicated to increasing interest in the petroleum industry among graduating high school seniors and retaining students currently enrolled in petroleum-related academic disciplines. The committee works diligently to insure a steady flow of focused, high quality and talented graduates entering the petroleum industry. The deadline for applications is February 11, 2013. For more details about the program, please go to www.spegcs.org.

The 2013 Engineers Week Celebration will be held on February 17-23, 2013. Congratulations to the 2013 SPE-GCS Engineer of the Year nominee, Dr. John Lee with University of Houston and the SPE-GCS Young Engineer of the Year, Valerie Martone with Anadarko Petroleum Corporation. Both of these members deserve recognition for their enthusiasm and dedication to the section and the Society of Petroleum Engineers. Valerie will receive her award at the Young Engineer of the Year banquet on Monday, February 18.

As I mentioned in my December column, Hiep Vu (Past Chair) and the SPE-GCS Succession Planning and Nominating Committees have been hard at work identifying qualified candidates to fill various board positions for the 2013-2014 program year. During the SPE-GCS December Board meeting, Hiep presented the following slate of candidates for the Board's consideration: Vice Chair Jeanne Perdue, OXY:

Vice Treasurer Lucy King, Kinder Morgan; Secretary David Flores, Lucas Energy; Director-at-Large Dr. John Lee, University of Houston; Director-at-Large Trey Shaffer, ERM; and Director-at-Large Deepak Gala; Shell.

The Board voted unanimously to accept the proposed candidates for the upcoming program year—their biographies are featured in this issue of the *Connect*. Thank you to Hiep and his committees for providing the Board with a solid slate of section officers. I am confident that our future officers will help the section continue to deliver on its mission.

The SPE Gulf Coast Section Nominating Committee led by Hiep Vu is collecting nominations for international and regional SPE awards. International awards recognize individuals that make significant technical and professional contributions to the petroleum engineering profession and to the worldwide oil and gas industry. Regional and section awards recognize members who contribute exceptional service and leadership within SPE as well as making significant professional contributions within their technical discipline. Any member can nominate a deserving candidate either through the Nominating Committee or directly to SPE on or before the deadline of February 15, 2013. Details can be found on the SPE website (www.spe.org).

Please send your comments and suggestions to me at: sbaumgartner@marathonoil.com.

# CONNECT

Information

#### Newsletter Committee

CHAIRMAN Kim Tran
SALES Pat Stone
BOARD LIAISON Valerie Martone
EDITOR/DESIGN Deuce Creative

deucecreative.com

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

The deadline for each issue is 6 weeks before publication on the first of each month. The SPE Gulf Coast Section newsletter is published twelve times each program year and is mailed to more than 15,000 SPE members in Houston.

#### SPE Houston Office

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Office hours: 8:30 a.m. to 5:00 p.m. Monday through Friday

#### Advertising

For information on advertising in this newsletter or on the SPE GCS website, please contact:
Pat Stone | 281-530-9711
starlite1@sbcglobal.net

#### Photo Submissions

We are looking for member photos for upcoming issues! Email your high resolution pictures to: editor@spegcs.org

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RESERVOIR SIMULATION SYMPOSIUM

SPE-GCS BOARD OF DIRECTORS MEETING

February 18 -20, 2013

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# THURS February 14

### LOCATION

SPE Houston Office 10777 Westheimer Rd. Suite 1075

#### **EVENT CONTACT**

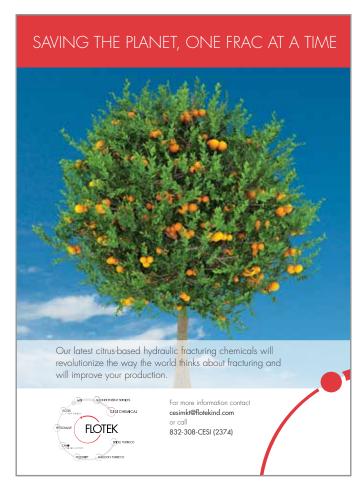
Sharon Harris 713-457-6821 EXT. 821 713-779-4216 FAX sharris@spe.org

7:30 AM TO 10:30 AM









# THEN ENOW

## Column by BUDDY WOODROOF

#### FEBRUARY 1962

Plans have surfaced for the spudding of the first wildcat in Ireland by Ambassador Oil and its partners. Reports are that the roughnecks will be very small men wearing green coveralls.

Meanwhile, back across the pond, wildcatting efforts in Nevada and Washington continue to turn up dry.

Nitrogen is touted as holding promise of solving so many oilfield production problems that demand may ultimately exceed supply. (What about CO2, folks?)

The first vessel ever designed specifically for drilling, the drill ship "Cuss II," prepares to spud its first hole in Cook Inlet, Alaska.

U.S. active rig count - 1,647

#### FEBRUARY 1987

A new African counterpart to OPEC is off to a rocky start as Libya refuses to accept Egypt's membership.

Meanwhile, Venezuela continues its efforts to boost its stature in the world oil markets by stressing its higher crude production capacity and insisting on a bigger OPEC production quota. (So, what else is new with OPEC, APEC, et al?)

As oil companies lobby against them, alcohol fuels designed to address air quality concerns continue to get mixed results from states considering the alternate fuels. (Even ultra-liberal Colorado delays any implementation efforts in its state.)

Brazil's deepwater Campos Basin play continues to sizzle, and accelerated drilling plans are reported by the Brazilian government.

U.S. active rig count - 916

#### FEBRUARY 2002

Despite the seesaw effect of OPEC production decisions on global crude oil quality, there has been little change in the long-standing 55:45 (sour: sweet) global split. (Is that ratio higher than you thought it would be?)

Gulf of Mexico spar development continues apace, with on-going progress on Murphy's Medussa and Dominion-Williams' Devils Tower truss spars.

The U.S. wind industry ends its most productive year by doubling previous records for new installations. However, the expiration of the federal wind production tax credit at the end of the year is clouding the future for this renewable energy source.

Russian President Vladimir Putin continues his cagey end game with the U.S. and Saudi Arabia—ostensibly deferring to the Saudis with what appears to be minimal production cutbacks, while courting the U.S. over the Iraq situation by portraying his country as a reliable oil supply alternative to the Middle East.

Light sweet crude oil - \$19.71/bbl; Natural gas - \$2.05/MMbtu; U.S. active rig count - 853

## THE REST OF THE YARN

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

On August 28, 1859, an event occurred that would dramatically impact the future of Rockefeller. A man named Edwin L. Drake tapped a rich reservoir of crude oil near Titusville, Pennsylvania, about 70 miles from Cleveland. Drake's discovery of America's first producing oil well marked the start of the modern petroleum industry. Even in those pre-automobile days, oil was extremely valuable because it could be refined into kerosene for lamps and lubricants for factories and farms.

When news of Drake's strike hit Cleveland, businessmen raced to build refineries and find the quickest, most efficient way to transport kerosene to the East Coast and Europe. Rockefeller found himself in the right place at the right time.

The firm of Clark and Rockefeller purchased a half interest in a refinery company in 1863, and for the next few years, Rockefeller devoted himself to the oil business, studying it, analyzing it, and ultimately falling in love with it. The "bubbling crude," he determined, was the something big he had been seeking. In 1865, at age 25, he purchased operating control of Cleveland's largest refinery. "Someday," he blurted out, "I'll be the richest man in the world." Meanwhile, Rockefeller was establishing a stable home life. In 1864, he married Laura Celestia Spelman—nicknamed Cettie—a deeply religious woman with whom he would have five children, only four of whom would survive to adulthood (one daughter lived for only a year after her birth).

Next month, a close look at JDR's values and the raising of his children.

#### ANSWERS TO JANUARY'S QUIZ

The Kirkuk field in Iraq is the Middle East oil field that was drilled on an oil seep that was mentioned in Biblical times.

#### FEBRUARY'S QUIZ

What component of natural gas flows through a hole faster, conducts heat better, and transmits sound at a higher velocity than any other gas except for hydrogen?

#### CONGRATULATIONS TO NOVEMBER'S WINNER - GEORGE FENATI WITH BONANZA CREEK ENERGY

If you would like to participate in this month's quiz, e-mail your answer to contest@spe.org by noon February 15th. 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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### SPE-GCS **MEMBERSHIP REPORT**

—— January 2013 ———

**JANUARY 2013** 

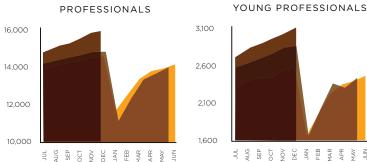
**NOVEMBER 2012** 

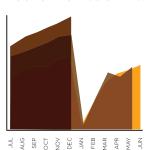
Total: 10,899 YP: 1,879

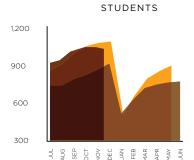
Total: 15,292 YP: 3,198

	JANI	JARY	NOVEMBER		
SPE-GCS Members	Total	YP	Total	ΥP	
New Members	138	56	160	75	
Transferred to Section	94	N/A	222	N/A	
Transferred out of Section	166	N/A	120	N/A	
Unpaid	4,853	1,379	1,669	625	
			<u> </u>		
Student Members	Paid	Unpaid	Paid	Unpaid	
Texas A&M	278	383	791	136	
UH/Rice	98	142	267	58	
НСС	19	21	44	15	
Total	395	546	1,102	209	
T . 1 D . 1/1/	11.204		16 20 4	1.070	
Total Paid/Unpaid	11,294	5,399	16,394	1,878	
% Paid	67	7.7%	89.7%		









Please renew your SPE membership today at spe.org/join



## VOLUNTEER SPOTLIGHT

Valerie Walker Martone

The Society of Petroleum Engineers Gulf Coast Section (SPE-GCS) has selected Valerie Walker Martone as the 2013 Young Engineer of the Year (more on page 28). Valerie has worked very hard on the Section website makeover, and the Board would like to take this opportunity to thank her.

Valerie began her service in SPE GCS as the Vice Treasurer, Construction and Facilities Study Group, where she helped implement the successful Expanding Facilities Knowledge Workshop series. She was an Ambassador Lecturer at Rice University, University of Houston, and Texas A&M Kingsville. In 2008, Valerie was selected to be on SPE-GCS Young Professionals Board, where she co-chaired the Emerging Engineers Conference. She also enjoyed interviewing SPE-GCS potential scholarship recipeints and serving on the Executive Event Committee. She then served on the SPE-GCS Board of Directors as Director-at-Large, and subsequently as Communications Chair overseeing the section's website and newsletter upgrades.



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# THE LAUNCH OF THE NEW SPEGCS.ORG

By Valerie Martone, 2012-2013 Communications Director

In the September Connect, we announced that we were giving SPEGCS.ORG a facelift by rolling out an enhanced new website. The sleek new site would be faster, more user friendly, easier to maintain, more efficient and engaging. Our hope was that the new website would better align our members with the information they needed at their fingertips. We wanted to streamline the event creation and registration process for our volunteers and boost all the information tools that our members and visitors use everyday, such as the job board, committee and study group event registration, and archives of the presentations given.

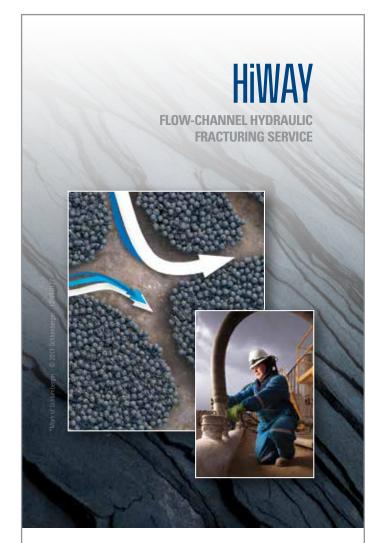
The simple, organized format of our new site makes it easy to navigate to what you're interested in, whether it's tracking down a presentation you heard, learning how to advertise your company with us, or even finding a photo of you and your colleagues at a recent SPE-GCS event. One of the great things about our new site is its integration with SPEI as well as social networking sites such as LinkedIn, Facebook, Google+ and even Twitter.

We encourage you to sign up for the e-newsletter, become a member, or connect with other members on our various social media outlets. Make this your "go-to" place to connect with what's happening in SPE-GCS.

Visit the new site now and let us know what you think. We'd love to hear your feedback.

We'd like to thank all who were involved for making these much-needed improvements a reality. Now what are you waiting for? Check it out and mark it as a favorite!





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# New Board Members 2013-2014



SECRETARY:
DAVID FLORES
Production Manager
Lucas Energy

David Flores has 24 years experience in engineering, management and consulting in the petroleum industry. He has extensive experience in well completions, sand control and production operations. David has completed projects in North and South America, the Gulf of Mexico, Asia and the Middle East. He has authored numerous engineering publications for the SPE and AADE. In 1988, he earned a MS in Petroleum Engineering from Texas A&M University. He has also served as the Completion and Production Study Group Chairman, Director-At-Large and Career Management Chairman for the Society of Petroleum Engineers Gulf Coast Section Board of Directors. David is also a past recipient of the SPE Production and Operations regional award.



DIRECTOR-AT-LARGE: DEEPAK GALA SME – Well Control Engineering Shell

Deepak is the SME- Well Control Engineering at Shell and is based in Houston, TX. He has BS degree in chemical engineering from Mumbai University, a Master's degree in natural gas engineering from Texas A&M University Kingsville and a Master's degree in finance from Tulane University.

His oilfield career began in 2004 as a field engineer and then transitioning to a well-control engineer for Cudd Well Control where he gained industry experience in well-control engineering, blowout contingency plans, rig inspections, snubbing and coil-tubing operations. After joining Weatherford in 2006, he worked in air drilling, underbalanced drilling and managed-pressure drilling

operations. In 2009, he became the United States region's engineering lead, supporting the drilling hazard mitigation business unit where he helped to develop training standards, lead engineering studies, perform risk analyses on challenging wells and identify the appropriate applications. In 2011, he moved into a new role as North America Operational Excellence Manager. His added responsibilities included overseeing QHSSE teams at the district level, systems engineering, business process optimization, financials, training and competency for the drilling hazard mitigation business unit. In Q4 of 2011, he transitioned into a technical-commercial role as a Commercial Manager, where he headed the United States tender response team and acted as the point-man for multiple product line tenders. He oversaw the tender, contract execution and administration processes.

With a dedication to advancing technology in his field, he has co-authored over 15 technical publications and is an instructor of "Introduction to Underbalanced Drilling" and "Introduction to Managed Pressure Drilling" at SPE conferences. He is co-author of a chapter on underbalanced drilling in the SPE's Advanced Drilling & Well Technology textbook and is currently developing a new textbook that explores drilling hazard solutions.

His professional memberships include SPE, IADC, AADE, & CFA.



VICE CHAIR:
JEANNE PERDUE
Technical Writer
Occidental Petroleum,
Middle East Support Team

Jeanne Perdue is a Technical Writer at Occidental Petroleum. After earning a BS in Chemistry from SUNY at Albany, she worked as a chemist and information specialist at the Texaco Research Labs. She then became an oil journalist, working as a technical editor at Hart's E&P magazine and launching Upstream Technology magazine. Perdue has served as Scholarship Chair, Community Services Chair, Secretary and Membership Chair of the SPE Gulf Coast Section. She has received SPE service awards at the section, regional, and international levels and was instrumental in launching the SPE eLibrary and Magic Suitcase programs. Perdue was twice elected to the Alief ISD school board and now serves on the industry advisory boards of HCC's PetroTech program and the UH Petroleum Engineering Dept.



DIRECTOR-AT-LARGE:
W. JOHN LEE
Professor and Cullen
Distinguished University Chair
University of Houston - Petroleum
Engineering Department

John Lee is Professor of Petroleum Engineering and holder of the Cullen Distinguished University Chair at The University of Houston. John holds BS, MS and PhD degrees in chemical engineering from the Georgia Institute of Technology.

Prior to his professorship, he worked for ExxonMobil early in his career and specialized in integrated reservoir studies. He later joined the Petroleum Engineering faculty at Texas A&M and became a Regents Professor of Petroleum Engineering. While at A&M, he also served as a consultant with S.A. Holditch & Associates, where he specialized in reservoir engineering aspects of unconventional gas resources. He joined the University of Houston faculty in September 2011.

He served as an Academic Engineering Fellow with the U.S. Securities & Exchange Commission (SEC) in Washington during 2007-2008 and was a principal architect of the modernized SEC rules for reporting oil and gas reserves.

John is the author of three textbooks published by SPE and has received numerous awards from SPE including the Lucas Medal, the DeGolyer Distinguished Service Medal and Honorary Membership. He is a member of the U.S. National Academy of Engineering and the Russian Academy of Natural Sciences.



VICE TREASURER: LUCY KING Reservoir Engineer Kinder Morgan

Lucy King is a reservoir engineer with Kinder Morgan CO2 Company, L.P. She has been responsible for SEC reserves reporting since 2004. She has over 30 years experience in reservoir engineering, financial analysis, production engineering and operations with emphasis on secondary and tertiary recovery. Prior to joining Kinder Morgan, Lucy spent seven years with Miller and Lents, Ltd. and over 15 years with Amoco Production Company. While at Amoco, she worked on all aspects of the Slaughter Field CO2 projects (pilots, project approval, implementation and start-up) and subsequently worked in West Texas for the start-up of the projects.

From 1984 through 1987, Lucy was an active member of the South Plains Section in Lubbock, TX and held most Section offices. She chaired the section in 1986-1987. In 1987, Lucy received the SPEI Young Member Outstanding Service Award. She was a long-standing member of the Gulf Coast Section General Meeting Committee serving in all positions, including chairman. In 2009, Lucy received a Section Service Award from the Gulf Coast Section. She was a 2010-2012 Director-at-Large and 2012-2013 Secretary for the Gulf Coast Section. Lucy is a member of the SPE Technical Interest Group (TIG) Coordinating Committee and has been the chair for the SPE Reservoir Management TIG since 2003.

Lucy holds a BS in chemical engineering from Tulane University. She is a member of the Society of Petroleum Evaluation Engineers (SPEE), a registered professional engineer in the State of Texas and a 30+ year member of the SPE.



DIRECTOR-AT-LARGE: TREY SHAFFER Managing Partner Environmental Resources Management

Mr. Trey Shaffer is a Senior Partner with Environmental Resources Management (ERM) based in Houston, Texas. Trey joined ERM in 2003. His current position is Managing Partner, Oil & Gas – North America.

For nearly 25 years, Mr. Shaffer has focused on delivering a broad range of environmental consulting and construction services to oil and gas sector clients around the world. He has had the opportunity to hold senior leadership roles in operations, client management and sector leadership functions. Mr. Shaffer is currently the Managing Partner for ERM's Oil & Gas Sector in North America and he is broadly familiar with all aspects of ERM's business. He supports clients with a variety of needs including climate change, transaction services, management systems, sustainability, impact assessment and permitting for upstream greenfield development/new construction, brownfield re-development and broad environmental and regulatory compliance.



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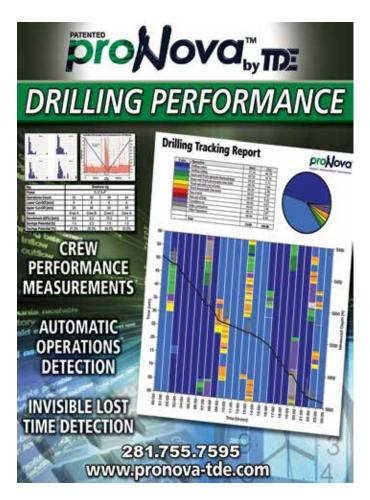
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#### **Q1 2013 SESSIONS**

RESERVOIR ENGINEERING FOR OTHER DISCIPLINES - REO / 25 Feb - 1 March

BASIC PETROLEUM TECHNOLOGY - BPT

**PRODUCTION CHEMISTRY - OGPC** 

OVERVIEW OF THE PETROLEUM INDUSTRY - OVP / 12-13 March

**RESERVOIR MANAGEMENT - RM** 18-22 March

STRUCTURAL AND STRATIGRAPHIC INTERPRETATION OF DIPMETERS AND BOREHOLE-IMAGING LOGS - SSI 18-22 March

APPLIED HSE MANAGEMENT - HS28 18-22 March

GAS LIFT – GLI / 1-5 April

FOUNDATIONS OF PETROPHYSICS - FPP

SEISMIC VELOCITIES AND DEPTH CONVERSION - SVDC / 8-12 April

STRATEGIC THINKING: A TOOL-BASED APPROACH – STT / 9-11 April

PETROLEUM GEOCHEMISTRY: TOOLS FOR EFFECTIVE EXPLORATION AND DEVELOPMENT – MGT / 15-19 April

SHE AUDITING - A MANAGEMENT SYS-TEMS APPROACH - HS47 / 15-19 April

APPLIED SEISMIC ANISOTROPY FOR Fractured Reservoir Characterization – Asaf 15-19 April

RESERVOIR MANAGEMENT FOR UNCONVENTIONAL RESERVOIRS -**RMUR** / 15-19 April



FOR MORE INFORMATION, SEE OUR WEBSITE OR CONTACT PATTY DAVIS AT PATTY.DAVIS@PETROSKILLS.COM OR (281) 433-7744

STUDY GROUP GENERAL MEETING

# Beyond Shale Production: Infrastructure, Industry and Jobs

The first part of this presentation will present the impact of rapidly increasing shale oil and gas production and reserves on the need for new midstream energy infrastructure in the United States to handle crude oil, natural gas and natural gas liquids. Examples of several major projects that are currently underway will be cited.

The second part of the presentation will be a discussion of how the increasing production and reserves are impacting U. S. industrial growth, particularly in the petrochemical sector, but in other areas as well.

Finally, the overall impact and job creation associated with the new shale oil and gas production will be examined.

#### Bill Ordemann =

Bill Ordemann is the Group Senior Vice President of Unregulated NGLs, Crude Oil and Natural Gas Assets of the general partner of Enterprise Products Partners L.P. He is responsible for the company's onshore and offshore natural gas and crude oil pipelines, natural gas processing and storage assets and NGL fractionation and storage facilities. Enterprise Products Partners is one of the largest publicly traded partnerships and a leading North American provider of midstream energy services.

Bill began his 31-year career with Shell's upstream exploration and production organization and held positions of increasing levels of responsibility in engineering, operations and management related to offshore and gulf coast production operations. He made the transition into midstream operations in 1995 and for the

next four years worked on developing plans and new infrastructure to handle increasing "rich" gas production from the deep water Gulf of Mexico. Bill joined Enterprise as Vice President of its general partner in connection with its purchase of certain midstream energy assets from Shell in 1999. He was elected Sr. Vice President in 2001 and continued developing midstream infrastructure, particularly in the Rocky Mountain region, until being elected as Executive Vice President and COO in 2007 with responsibilities for Enterprise's Operations, Engineering and EHS&T functions. He returned to the commercial side of the business and assumed his current role in 2012.

Bill holds a B.S. in Chemical Engineering from Virginia Tech.

THURS
February 14

11:30 AM TO 1:00 PM

#### Event Info

#### **SPEAKER**

Bill Ordemann Group Senior Vice President Apache Enterprise Products Partners L.P.

#### LOCATION

Petroleum Club 800 Bell Street, 43rd floor Houston, TX 77002

#### **EVENT CONTACT**

Barry Faulkner 281-627-8790 barryfaulkner@earthlink.net

#### MEMBERS

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**NON-MEMBERS** \$40 before 2/13/13, \$45 after



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#### SPE-GCS CONNECT





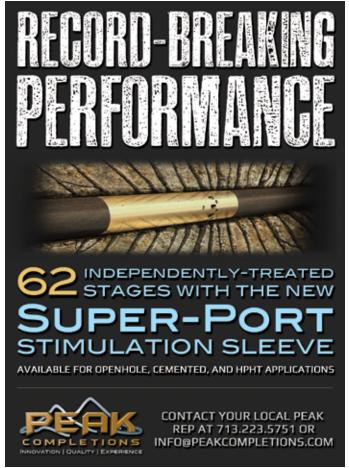
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STUDY GROUP COMPLETIONS/PRODUCTION

## Five Things You Didn't Want to Know about Hydraulic Fractures

This presentation will touch on elements from three of Mike's more popular seminars:

- Confessions of a Frac Engineer: Things I wish a geologist had taught me
- Proppant Performance: Recognizing that fractures degrade
- Refracs: When do they work and when do they fail?

We often envision fractures as if they were simple, planar features that are relatively consistent in width and durable in their flow capacity. Photographs from minebacks and core-throughs of actual fractures will be shown along with the performance implications. Our oversimplified models typically result in poorly designed completions and missed opportunities. Frequently, we blame the underperformance of a well on "poor reservoir quality" instead of correctly recognizing the inadequacy of our created fractures.

Mike has recently written two large papers summarizing the refrac results from more than 140 published restimulation studies. He will only have time to touch on refrac issues during this presentation but promises to share some refrac thoughts and references.

#### Mike Vincent ====

Mike Vincent is a consulting engineer with more than 20 years of experience in economic optimization of hydraulic fractures. After completing his degree at the Colorado School of Mines, he worked with Amoco in Denver and with ARCO in Anchorage, Kuparuk and Denver. Mike started Insight Consulting in 1996, specializing in fracture design and reservoir analyses. Mike has also provided technical support to CARBO Ceramics since 1997, allowing him to analyze frac treatments in reservoirs around the world. He has written more than 25 technical papers, has been awarded two patents and has instructed more than 100 seminars on fluid flow, fracture design and practical production optimization. Mike frequently lectures at universities and presents fracturing schools to numerous companies and organizations. He recently served as a Distinguished Lecturer and Distinguished Author for SPE.

STUDY GROUP DIGITAL ENERGY

LOCATION

Courtyard on St. James 1885 St. James Pl Houston, TX 77056

**EVENT CONTACT** 

Carol Piovesan 949-232-6353 chrobon@vahoo.com

# Digital Energy Study Group Meeting

The speaker for the February 20th Digital Energy Study Group luncheon will be announced at a later date. Please check your emails for a meeting announcement from the Digital Energy Study Group. If you have any questions, feel free to contact Carol Piovesan.



11:30 AM TO 1:00 PM



#### Event Info

**SPEAKER** Mike Vincent President Insight Consulting

LOCATION Greenspoint Club 16925 Northchase Drive

Houston, TX 77060

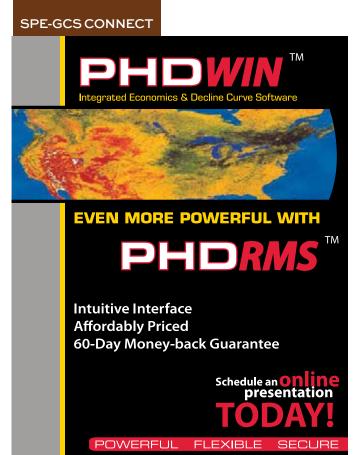
**EVENT CONTACT** 281-921-6526 jgodwin@carboceramics.com

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February

11:30 AM TO 1:00 PM





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STUDY GROUP NORTHSIDE

# TUES February 12

11:30 AM TO 1:00 PM

# Unconventional Wisdom in Shale Oil/Gas Completions & Microseismics Interpretation

65 years have passed since the first hydraulic fracture treatment in the Hugoton Field. However, the now mature hydraulic fracturing technology for conventional plays has proven to be insufficient when applied to the extremely low permeability, fractured formations common to the unconventional plays under development today. To address this, the industry has turned to newer technologies, like microseismic monitoring, and to common practices like data mining but still, many of the completion designs for unconventional developments are generated in a trial-and-error fashion. Because of this, as well as the lack of predictive tools, empirical 'wisdom' has emerged such as the concepts of 'complexity,' 'brittleness,' 'fracability,' and 'Stimulated Reservoir Volume' (SRV).

The presentation will focus on the role of geomechanics in understanding the fundamental physics behind the stimulation of fractured, unconventional plays. Moreover, the geomechanical foundations, or lack thereof, for the common empirical 'wisdom' for the completion of unconventional plays will be reviewed including the geomechanical significance of microseismicity. The presentation will also focus on the application of the new numerical techniques that overcome the limitations of pseudo-3D models for stimulation design in unconventional plays.

#### Marisela Sanchez-Nagel =

Dr. Sanchez-Nagel is currently General Manager and Principal Engineer with Itasca Houston. She has more than 20 years of oil and gas industry experience in geomechanics for near-wellbore and reservoir geomechanics applications. She started her career at Intevep, the technology center of PDVSA, in Venezuela and worked there for 15 years. She then became president of Global GeoSolutions, an independent geomechanics consulting company in Latin America. Sanchez-Nagel later worked for GMI for two years before coming to Itasca Houston as General Manager in 2007. Dr. Sanchez-Nagel has worked on many geomechanical projects around the world, has presented at numerous geomechanics schools throughout North and South America, is on the 2013 ARMA Program Committee and is currently serving as a 2012-2013 SPE Distinguished Lecturer.



#### Event Info

#### **SPEAKER**

Marisela Sanchez-Nagel General Manager and Principal Itasca

#### LOCATION

Greenspoint Club 16925 Northchase Drive Houston, TX 77060

#### **EVENT CONTACT**

Curtis Smith 832-523-1213 curtissmith@nobleenergyinc.com

MEMBERS \$35

NON-MEMBERS





SOCIETY OF PETROLEUM ENGINEERS

# **B 4-6**, 201

The SPE Hydraulic Fracturing Technology Conference is an important event for our industry. Focusing on the enabling technology for the development of vast unconventional resources, this conference leads the way for information and demonstrations on hydraulic fracturing. It features a dynamic combination of keynote addresses, technical presentations, and networking and exhibiting opportunities.

#### **VENUE**

The Woodlands Waterway Marriott Hotel & Convention Center 1601 Lake Robbins Drive The Woodlands, Texas 77380

Phone: 281.367.9797

#### **INFORMATION & REGISTRATION**

http://www.spe.org/events/hftc/2013/

## SOCIETY OF PETROLEUM ENGINEERS RESERVOIR SIMULATION MPOSI FEB 18 -20, 2013

The SPE Reservoir Simulation Symposium offers engineers and scientists the chance to see and discuss leading-edge technologies and applications in reservoir simulation. It also provides an unparalleled opportunity to network with other technical professionals in the field.

#### WHO SHOULD ATTEND

- Reservoir Engineers
- Research Engineers
- Petroleum Engineers
- Scientists
- Geologists/Geoscientists
- Managers and Supervisors
- Executives
- Educators and Students
- Consultants

The Woodlands Waterway Marriott Hotel & Convention Center 1601 Lake Robbins Drive The Woodlands, Texas 77380

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#### **INFORMATION & REGISTRATION**

http://www.spe.org/events/rss/2013



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STUDY GROUP PERMIAN BASIN

# TUES February 19

## Wolfcamp Shale in the Permian Basin

The Wolfcamp Shale in southern Midland Basin is a world-class source rock located in peak oil generation and early gas generation window. Its storage space includes matrix porosity, natural fractures and organic materials. The mineral composition and lithology are similar to the Eagle Ford Shale, with a high density of natural fractures. The oil and gas in place is estimated to be more than 100 MMBoe per section of 640 acres. Due to the extent of Wolfcamp Shale coverage, it could potentially become one of the largest hydrocarbon discoveries in U.S. This talk will discuss discovery, pilot evaluation and potential development concept associated with Wolfcamp oil shale resource play.

#### J. Ross Craft

J. Ross Craft has served as President and Chief Executive Officer since the formation of Approach Resources in September, 2002. Prior to forming Approach Resources, Mr. Craft co-founded Athanor Resources Inc. in 1998 and was the Executive Vice President until its merger with Nuevo Energy Company in September, 2002. Mr. Craft has more than 30 years of experience in the oil and gas industry and holds a B.S. in Petroleum Engineering from Texas A&M University. Mr. Craft is also an Eagle Scout.

11:30 AM TO 1:00 PM



### **Event Info**

SPEAKER
J. Ross Craft
President
Approach Resources, Inc.

#### LOCATION

Norris Conference Center 9990 Richmond Ave, South Bldg, Suite 102 Houston, TX 77042

#### EVENT CONTACT

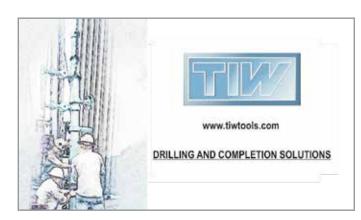
Amy Timmons 713-836-6563 amy.timmons@weatherford.com

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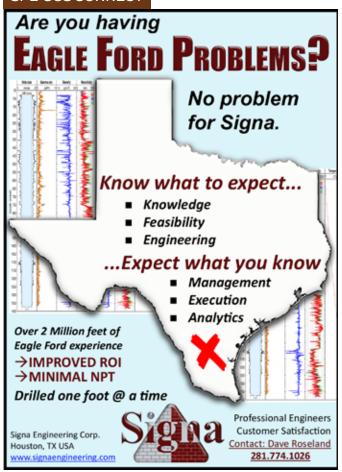
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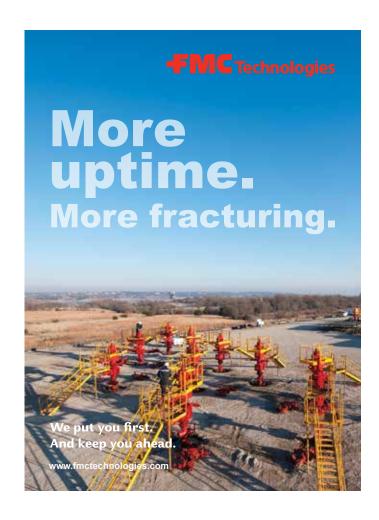
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#### SPE-GCS CONNECT













STUDY GROUP PETRO-TECH

# February-

Spatial Data Management -Science and Application

This presentation will describe the scientific basis of maps used in support of exploration and production and then show some examples of what happens when these sciences are misunderstood or ignored during collection of and data entry into our projects, applications and databases.

#### Jonathan Stigant =

Jonathan Stigant graduated with a B.Sc in Engineering Science from the University of Durham. He spent 11 years in the Royal Navy, six as a hydrographic surveyor. In 1981, Jonathan emigrated to Houston, Texas and has spent 30 + years working for a wide range of companies including Chevron for 14 years and Devon Energy for five years. He now works as an independent consultant providing training and geospatial quality management to a variety of oil and gas operators worldwide. Jonathan has made numerous presentations and lunch and learns. His talks provide a hard-hitting, as well as humorous, focus on a foundational technology.

11:30 AM TO 1:00 PM

#### Event Info

#### **SPEAKER**

Jonathan Stigant President Stigant Enterprises Inc.

#### LOCATION

Sheraton Brookhollow 3000 North Loop West Houston, TX 77092

#### **EVENT CONTACT**

Marci Nickerson

**MEMBERS** \$38 before 2/6/13, \$48 after

**NON-MEMBERS** \$38 before 2/6/13, \$48 after





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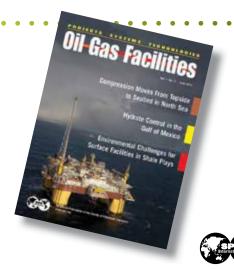
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**STUDY GROUP RESEARCH & DEVELOPMENT** 



11:30 AM TO 1:00 PM

# Accelerating Technology Development through Investment in Young Companies with Exciting <u>Technology</u>

Statoil Technology Invest (STI) is looking for young companies with exciting technology that will improve the effectiveness of Statoil's oil and gas or renewables operations. By making equity investments and having active participation on the boards, we help management accelerate their company's development so as to become profitable and independent suppliers to Statoil and the rest of the energy industry. STI forms a central part of Statoil's Technology Commercialization unit, which also runs Statoil's LOOP program in Norway and UK. STI works with suppliers to fund new product developments required by our operations. Our portfolio consists of circa 20 equity investments and 20 LOOP projects, and we are actively looking for new investments.

#### Ingebrigt Masvie =

Ingebrigt Masvie serves as an investment manager with Statoil Technology Invest, the corporate technology venture unit of Statoil, an international energy company with operations in 37 countries and headquartered in Norway. Ingebrigt has been serving on the boards of directors for several Statoil Technology Invest portfolio companies: Marine Cybernetics, Ocean Riser Systems, Navita, Ocean Saver and Statoil GTL. Having earned his Masters of Science in Engineering Cybernetics at the Norwegian

University of Science and Technology, Ingebrigt started out his career as a research engineer with the Norwegian classification society Det Norske Veritas. After obtaining his MBA from UNC Chapel Hill in 1995, Ingebrigt joined PA Consulting as a management consultant before moving to the technology venture investment business, first with Venturos and since 2006, with Statoil Technology Invest. In addition to his MSc and MBA, Ingebrigt holds an advanced degree in Russian language.

#### Event Info

#### **SPEAKER**

Ingebrigt Masvie Investment Manager

#### LOCATION

Norris Conference Center 9990 Richmond Ave, South Bldg, Suite 102 Houston, TX 77042

#### **EVENT CONTACT**

Skip Davis 281-359-8556 skdavis100@gmail.com

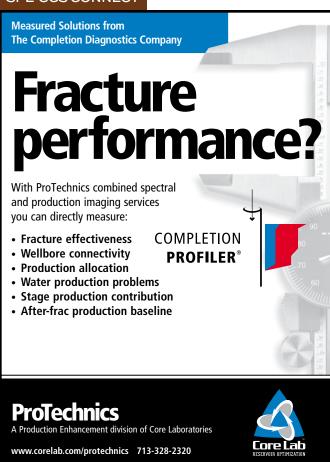
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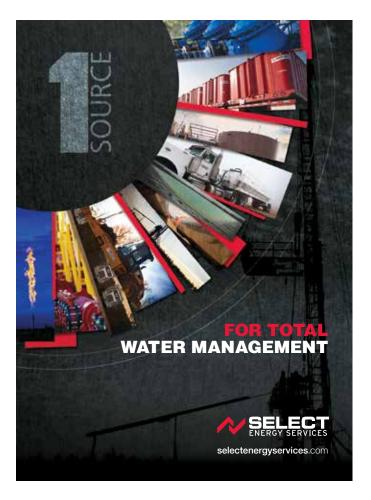
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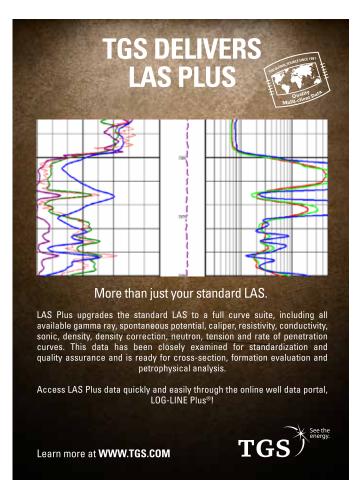
**NON-MEMBERS** \$40 before 2/1/13, \$45 after













STUDY GROUP RESERVOIR

# Analytical Waterflood Surveillance and **Optimization**

There are numerous published analytical and simulation methods for the design of waterfloods; however, the literature has, to an extent, been silent on reservoir surveillance to help monitor and improve existing waterfloods.

This talk will focus on the general reservoir engineering workflow used to conduct surveillance and analyze waterflood performance. This will be done by conducting analytical waterflood diagnostics and optimization potential on real waterflood case studies. After examining waterflood diagnostics at a field/reservoir level, the concept of communication analysis will be introduced at a pattern/ individual well level to specifically pinpoint areas with upside potential (water cycling/channeling, poor communication, etc) where techniques such as gel treatments and pattern reconfigurations would be ideal.

Over the last few years, the author has been involved in designing and implementing waterfloods in tight oil reservoirs, such as the Bakken, using multi-stage horizontal producers and injectors. The upside potential of waterflooding these tight reservoirs and the key parameters to consider will be presented using simulation data as well as actual field results.

#### Kerry Sandhu =

Kerry Sandhu, General Manager (Canada) at Gaffney, Cline & Associates, a division of Baker Hughes, has worked on numerous reservoir characterization/reservoir simulation projects both locally and internationally. He graduated with distinction from the University of Calgary with a B.Sc. in Oil and Gas Engineering. He has worked as a reservoir engineer for 11 years where, in addition to co-authoring several technical papers, he has worked on various reservoir engineering studies including projects focused on tight oil reservoirs, waterflooding, CO2 immiscible/miscible flooding, naturally fractured reservoirs, offshore waterflooding of reservoirs, heavy oil waterflooding, thermal simulation (SAGD, CSS, and steam flooding) and horizontal multi-stage frac optimization. He is a registered professional engineer in Alberta and is a member of both SPE and APEGGA.



11:30 AM TO 1:00 PM



#### Event Info

#### **SPEAKER**

Kerry Sandhu General Manager - Canada Gaffney, Cline & Associates

#### LOCATION

Courtvard on St. James 1885 Saint James Place Houston, TX 77056

#### **EVENT CONTACT**

Jim Honefenger 281-584-0363 jimhone@aol.com

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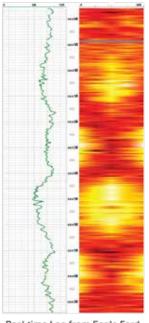
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STUDY GROUP WESTSIDE

# WEDS February 20

11:30 AM TO 1:00 PM

# A Look Back at Eagle Ford Completion Trends

This presentation will examine the completion trends in several of the most active counties in the Eagle Ford play. More specifically, it will summarize drilling permits issued, completion trends and proppant usage across four counties. It will also include completion results for five key counties: La Salle, Karnes, Milam, DeWitt and Dimmit. Together, these counties accounted for 65% of the 1000+ Eagle Ford completions performed in October 2012. These completion results and completion trends should prove useful to operators and service companies that plan to be active in the Eagle Ford play in 2013 and beyond.

#### Todd Bush =

Todd Bush founded Energent Group to provide upstream market research and intelligence through data compilations and related services. He is actively engaged with operators and oilfield service companies to extract and compile industry trends from public and proprietary data. He received his BBA in Information & Operations Management from Texas A&M and his MBA from the Rice University Jones School of Management.



#### Event Info

#### SPEAKER

Todd Bush Founder Energent Group

#### LOCATION

Norris Center - Westchase 9990 Richmond Ave., South Bldg., Suite 102 Houston, TX 77042

#### **EVENT CONTACT**

Alex McCoy 713-366-5653 alexander\_mccoy@oxy.con

#### **MEMBERS**

\$35 before 2/18/13, \$40 after

**NON-MEMBERS** \$40 before 1/18/13, \$40 after





COMMITTEE YOUNG PROFESSIONALS

# 2013 SPE-GCS Young Engineer of the Year

#### Valerie Walker Martone

The Society of Petroleum Engineers Gulf Coast Section (SPE GCS) is pleased to select Valerie Walker Martone as the 2013 Young Engineer of the Year. Valerie is currently a Senior Upstream Operations Engineer at Anadarko Petroleum Corporation for the Mozambique LNG project, Anadarko's largest natural gas discovery to date. Previously, she worked in the deep water Gulf of Mexico division as a Senior Production Engineer for the following eastern gulf assets: Independence Hub, Neptune, Blind Faith and Pompano. In 2011, Valerie was presented Anadarko's Innovators Award for developing a new procedure that saved millions of dollars in potential lost production. Before joining Anadarko, Valerie worked at BHP Billiton in the facilities, production and reservoir engineering disciplines on their Shenzi, Atlantis, Neptune, Mad Dog, Mustang, Starlifter and West Cameron 76 assets in the Gulf of Mexico shelf and deep waters. She also is one of the founders of their Young Professionals Organization.

Valerie graduated from Texas A&M University in 2004 with a Bachelors of Science Degree in Mechanical Engineering with numerous honors including Pi Tau Sigma (National Mechanical Engineering Honor Society), Dean's List and National Collegiate Honors while being active in her sorority, Kappa Delta. Valerie enjoys engineering for its challenges and creative problem solving while collaborating with others. Valerie's hobbies include painting,

playing her violin in the church orchestra, Aggie sporting events, golfing, traveling the world, reading and especially spending time with her family.

Valerie's accomplishment will be published in the Houston Business Journal and she will receive her award at the Young Engineer of the Year Banquet.

# SOCIETY OF PETROLEUM ENGINEERS GULF COAST SECTION EXECUTIVE CLUB WINNERS

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Email Carlos Fernandez to find out more about the Executive Club! carlos f.fernandez@exxonmobil.com

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• Eligibility for renewal is dependent upon maintaining a GPA of at least 3.0, majoring in engineering, and pursuing a career in the Oil & Gas industry

#### The requirements for first time applicants:

- Currently reside in Houston OR 29-county Gulf Coast area
- Enroll in an engineering or science program at a university in the Fall
- Currently be a high school senior
- Minimum SAT score of 1650
- Short essay (approx. 500 words)

- · High school academic record
- Activities, awards and honors
- SAT and/or ACT score
- Professional Reference letters
- Financial need (if applicable, not required)
- Be a U. S. citizen

#### The process:

- Scholarship committee reviews each application
- Selected applicants are interviewed in the second round (April 2013)
- After the interviews, the scholarship committee meets and collectively decides the 2013-14 scholarship recipients (May 2013)

NOTE: Each 2013-14 first-time scholarship recipient may be eligible for a summer internship with an oil & gas company on availability

## Information

#### **TO APPLY**

Log on to the SPE Gulf Coast Section homepage and select the Scholarship/Internship committee page. A link to instructions and the online application are located in the center.

#### QUESTIONS

gcs-scholarship@spemail.org

#### **INSTRUCTIONS & APPLICATION**

http://spegcs.org/scholarship-app/

#### **DEADLINE**

Complete scholarship form by 2/13/2013



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**COMMITTEE AUXILIARY** 

## **AUXILIARY FEBRUARY ACTIVITIES**

Friday, February 8, 2013 11:00 AM

#### DEADLINE

Tuesday, February 5, 2013

#### COST

\$32 (Checks Only, Please)

#### LOCATION

McCormick and Schmick's Seafood Restaurant 1151-01 Uptown Park Blvd. 77056 713-840-7900

#### CONTACT

Nancy Hill 281-809-5515 nancyhill2444@sbcglobal.net

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

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Your guide to your organization leaders

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Kevin Renfro, Anadarko 832-636-8613 kevin.renfro@anadarko.com

Wolfgang Deeg, Shell 281-544-8279 wfjdeeg@spemail.org

#### **DIRECTOR 2011-13**

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Marise Mikulis, Baker Hughes, Inc. 281-275-7288 marise mikulis@bakerhughes.com

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#### **CONTINUING EDUCATION**

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= Information ==

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## **CALENDAR**

February 2013									
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday			
		! ! ! !			1 1 1 1 1	1 1 1 1 1			
					1	2			
	SPE Hydraulic Fracturing Technology Conf.	SPE Hydraulic Fracturing Technology Conf.	SPE Hydraulic Fracturing Technology Conf.	Research & Development	Auxiliary				
3	4	5	6	7	8	9			
	!	Northside	Drilling	General Meeting	1 1 1	1 1 1			
		Petro-Tech	i i i	Board Of Directors	i i i	i i i			
10	11	12	13	14	15	16			
	SPE Reservoir Simulation Symposium	SPE Reservoir Simulation Symposium	SPE Reservoir Simulation Symposium			i i			
		Permian Basin	Digital Energy	! ! !	1 1 1	1 1 1			
17 18	19	Westside 20	21	22	23				
		Completions & Production	Reservoir						
24	25	26	27	28					