July is the end of the SPE-GCS 2013-2014 program year. I would personally like to thank the outgoing Board of Directors for their service. Each of them has made sacrifices and shared their expertise to keep our Section vibrant and beneficial to our members. I would also like to thank their companies for affording them the time from their “regular jobs” to serve the industry and the community through SPE.

I would also like to thank the Study Groups and Committees for their leadership and service. This is where the technology sharing and community service really happens. It was a good year on many levels for the Section. We had more than 130 technology-related events, and more than 7000 people attended them. That in itself is good, but the content and delivery methods showed creativity and enthusiasm, which made for great results. Here are some key examples:

The Business Development Study Group actively engaged with the Young Professional Committee to start discussion with the financial community. They initiated a blog to exchange information on a more continuous basis.

The PF&C Study Group tried a new schedule for their events to make them more accessible to younger members and allow time for discussion and networking. They set up a series of events based on a common theme over several weeks.

The HSSE-SR Study Group joined with the Young Professional Committee to host the first ever movie night featuring a documentary on fracking and a panel of experts discussing it.

These new approaches are innovative means towards enhancing the main mission of SPE to transfer and share technology ideas about oil and gas.

Due to excellent leadership and planning, our social events featuring Tennis, Sporting Clays and Golf, continue to over-deliver and provide a wonderful experience for participants. Thanks to them and all who attended and sponsored these events.

In this issue of the Connect Newsletter are many facts from the GCS Annual Report submitted to SPE. Read them and give consideration to getting more involved. We are a volunteer organization and there is always room for energetic and creative people.

The end of July marks the beginning of the new program year. We welcome the new Directors who will serve the Section in 2014-2015.

I officially pass the Chair’s role to the very capable Jeanne Perdue. She will bring her considerable skills and experience to the mission of SPE-GCS. All the best, Jeanne!

THOUGHT YOU SHOULD KNOW
The Connect Newsletter for 2014-2015 has a goal of including more pictures of members, either working in the field/office or volunteering at GCS sponsored events. Our goal is to emphasize the personal touch of all that we do. You can help achieve that goal by contributing photos. Please identify the people, location and source (we do not want anything which may have copyright issues). Send them to editor@spegcs.org. Thanks for helping to improve our publication.

Thank you for being involved with the section’s activities – it makes the GCS a better organization for all members. I personally welcome your comments and ideas to help the SPE Gulf Coast Section serve you and your career better. Please contact me at mike-strathman@att.net.
ABOUT THIS ISSUE
Last year, we launched our first ever July Issue making our newsletter a full twelve issues each year. Because of SPE-Gulf Coast Section’s expanding membership and the support the Connect has received from advertisers, readers and members, we will continue to provide you with this issue as a closing to our section’s year. As many of our events wind down in the summer, the July issue is smaller. However, the content is still very important, as our main feature is presenting results from our Annual Report. We hope you will take the time to read through this valuable information and continue to provide feedback to your organization’s leaders.

Thank you to all our advertisers who help make this publication possible. As we continue to grow the Connect Newsletter, we hope that you, our reader, will continue to support these businesses. A special thank you goes out to the many volunteers involved in the Gulf Coast Section: you exemplify the values of our section and help make our organization a leader in the industry.

Next month we look forward to launching an updated newsletter featuring a fresh new look; stay tuned!

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Introduction to FPSOs
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Design and Construction of Tension Leg Platforms
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P. 5
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P. 34-35

THU July 10
7:30 AM TO 10:30 AM

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
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- Faster Speed
- Trusted Information

Contact Jill Wyatt at: (713) 446-4633
**SPE-GCS MEMBERSHIP REPORT**

**May 2014**

**MAY 2014**
Total: **14,519**  
YP: **4,380**

**APRIL 2014**
Total: **13,536**  
YP: **2,753**

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<th></th>
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<td>New Members</td>
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<tr>
<td>Reinstated</td>
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<td>N/A</td>
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<tr>
<td>Transferred to Section</td>
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<td>N/A</td>
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<tr>
<td>Unpaid</td>
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<td>Rice</td>
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<td>% Paid</td>
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<td>77.8%</td>
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---

**Schlumberger**

**JULY 2014**
**ANNUAL REPORT SUMMARY**

The 2013-2014 annual report highlights the many successes the SPE-GCS Section has seen throughout the year. From increasing our membership to engaging our members more actively in study groups and section events, we have had a successful year by all measures. Our success is a result of our members’ hard work, dedication to the industry, and willingness to explore new ways to connect and share knowledge with each other. The overall result is a professional organization that continues to evolve to respond to the changing needs of its members and the oil and gas industry.

### SPE-GCS MEETINGS BY THE NUMBERS

<table>
<thead>
<tr>
<th>Category</th>
<th>Number</th>
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<tbody>
<tr>
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<td>Study Group Meetings</td>
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<td>Distinguished Lecturers</td>
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<td>1-Day Workshops</td>
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<tr>
<td>Attendees</td>
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### INNOVATIVE TECHNICAL DISSEMINATION

Over the last 12 months, our section implemented a number of new ways to move information and connect our membership.

1. **Business Development Study Group**

   Our mission is to encourage Young Professional participation in the Business Development Study Group and become the leading Study Group in participation and scholarship donations. This year we effectively increased interest and participation in our group; the average event attendance was up from 74 in 2012-13 to 115 in 2013-14. We also established a blog that will kick off in June 2014. The biggest challenge was to define the necessary liability protection to put the blog in place, given that there was no precedent. However, the section was very supportive in doing so. We established a Season Pass program (39 signed up 2013-14), initiated the Square Pay process to take credit card payments at the events, and increased scholarship donations from $9,000 in the 2012-13 program year to $13,500 this year. We have been sourcing new volunteers from our involvement in the Young Professional program to encourage their participation. We had a kick-off social with the YPs on August 28, 2013 in Houston at the beginning of the season to encourage their participation during the year. This event had 200 attendees. We also established a mentorship program with YPs that has over 20 participants, and now have four new YP members on our committee.

2. **General Meeting Study Group**

   In addition to the section monthly hardcopy newsletter and the section monthly electronic newsletter, we also sent a monthly email about the General Meeting to all SPE members with a business address in the downtown Houston area (both ZIP codes). On several occasions, we sent email announcements about our meetings, using our “frequent attendees” list. Our events and registration details are posted to the SPE-GCS website. We have not used social media.
Permian Basin Study Group’s mission is to disseminate and exchange technology concerning the development of oil and gas resources specific to the Permian Basin. We provide opportunities for individuals to gain technical competence in the topic matter presented at our luncheon meetings. We will continue to educate and mentor high school students on STEM initiatives. This year we conducted our second annual SG meeting with high school students. Future speakers include a University professor and an SPE member presenting on Petroleum Engineering.

The R&D Study Group hosted a YP Career Panel for YPs in R&D, new technology and product development. We had 75 attendees. The panel consisted of four senior executives from operating companies. Comments were very positive for the group, and the event exceeded expectations. At the end of the panel discussion we asked the YPs in the room the following question: What do you need from the industry (companies and SPE) to be successful? The answers included:
1) A focus from their management on promoting additional schooling, industry education and entrepreneurship
2) The ability to own their own projects sooner rather than later
3) More open mentality concerning new innovations that can be introduced into the industry
4) Training for writing SPE abstracts, papers, etc.
5) More definition for the role of mentors

The Water and Waste Management Study Group worked to ensure succession for the positions on the board, especially chair, vice chair, and treasurer. The group expanded topics to address study group attendee requests and reached out to more women as both members and speakers. The group has four goals for 2014:
1) Host three technical sessions in 2014; George King on May 19, 2014 was the first
2) Fill all main positions on the study group board of directors
3) Improve attendance of study group luncheons
4) Address the dearth of female speakers on the speaking circuit

The HSSE-SR and Young Professionals co-hosted an Innovative Meeting: a Night at the Movies Featuring “FrackNation” followed by an expert panel. We are planning a similar event in 2015 and we are considering adding another study group to the collaboration.

We successfully employed an after-work-hours Technical Session Series based around an overarching theme. The concept started in July 2013, continued in April 2014, and will be implemented again in July 2014. This schedule minimized disruption of potential attendees’ work schedules. The goal is to attract more young professionals, and increase attendance and networking. One challenge to overcome is getting operator speakers due to legal reviews and releases to speak. The series forces us to plan further in advance and make that process easier for potential speakers. Advanced planning has made those approvals easier and we are getting higher quality speakers.

The Reservoir Study Group selected technical talks based on attendee feedback, including renowned speakers/distinguished lecturers. Additionally, the study group expanded the reservoir forum capacity to 225 attendees. The group also succeeded in obtaining nine corporate sponsors for the forum. The group also encouraged more student involvement by subsidizing pricing for lunch meetings and forums, and encouraging students to present posters at the forum.

The Drilling Study Group worked to improve proactive programs scheduling, leadership development, and progression plans. We plan to set new committee/group assignments before the end of June 2014. Current members are struggling to sign up or take on more responsibility next year as their industry activity is overloaded; each member is pressed to find time to volunteer. Venue selection at this time is split between the Petroleum Club and Greenspoint Club. Both of these venues have an uncertain future with the move of ExxonMobil. We will plan to adjust accordingly. Operator involvement has become very challenging. Having a panel during our symposium was successful; however, it has been difficult to find operators to present at our monthly luncheons. Paper approval to present appears to be the biggest issue. Without the operator community involved, our attendance is down as much as 50%.

The Communication team has begun to utilize the SPEI eNewsletter tool to reach out to the member base in the Gulf Coast Section.
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PLANNING

LONG-TERM GOALS:

1. NEWSLETTER
The Newsletter Committee helped lower the overall monthly cost to produce the newsletter by an average of $4,000 a month. We also have reached out to each study group to help bring more attention to them in order to increase their attendance. We now offer a newsletter every month, as opposed to taking one month off in the summer. The Newsletter Committee would like every cover of the magazine to be a personal picture taken out in the field. We have had only one submission for the 2013-2014 calendar year.

2. YOUNG PROFESSIONALS
The Young Professional Committee plans to utilize the recently developed SPE-GCS YP Mobile Application to reach out to more YPs in our section and increase our 3,900+ YP members’ awareness of YP events and activities through improved and more effective communication methods, including YP App, Social Media channels (Facebook, LinkedIn, Twitter, SPE Connect), and email blasts to our members.

3. COMMUNITY SERVICES
Community Services aims to provide SPE sponsorship to STEM initiatives in the Houston area.

4. TECHNOLOGY TRANSFER
The Technology Transfer committee goal is to introduce technology from outside the oil and gas industry that will have a positive effect on the industry.

5. WEB TECHNOLOGY
The Web Technology Committee aims to establish an effective eNewsletter tool for the Gulf Coast Section.

PLANNING

SHORT-TERM GOALS

1. NEWSLETTER
Our short term goal was to find a new printer for the magazine (achieved in December). We have increased our monthly page count from an average of 28-32 pages to an average of 36-40 pages. This is a result of more groups using the Newsletter as their primary way of getting out information to the Gulf Coast Section. We have also included an event recap (pictures of activities) in every edition of the newsletter to bring more attention to the Section’s events.

2. YOUNG PROFESSIONALS
The Young Professionals’ short terms goals included:
1) Establish YP Volunteer Program that would allow YPs to participate in more community outreach volunteer events
2) Enhance the Executive Club Program to recognize and encourage more University/College student participation in YP activities and more recognition for companies supporting YP event participation
3) Encourage and organize joint events with other professional organizations and GCS Study Groups, including SWE, TYP, YPE, NSBE, GCS HSSE-SR, GCS R&D, among others

3. COMMUNITY SERVICES
The Community Services committee wants to increase SPE representation in STEM events around Houston.

4. TECHNOLOGY TRANSFER
We would like to find interesting technology and presenters that will host luncheons or workshops around their technology and the use of it in the energy sector.

5. WEB TECHNOLOGY
The Web Technology committee will contract a part-time webmaster to maintain the Section website and communicate with the member base effectively.
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The result: smoother facility startups, higher up-time and reliability, less operating headaches and improved whole-life value for existing developments.

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INNOVATION IN SECTION OPERATIONS OR SUSTAINABILITY

MEMBERSHIP COMMITTEE
We resurrected membership quarterly networking events to personally welcome transfers, students and new members with booths to highlight study groups within the section, and allow immediate membership and volunteer registration during the hosted event. We recognized active volunteers with framed prints of their featured article from the monthly newsletter (“Connect”) and a SPE T-shirt/gift as appreciation for volunteering. We provided small gifts of appreciation to volunteers recognized by the Reservoir Study Group. Additionally, we prioritized and analyzed membership feedback received from a recent nine-question survey; 1,748 responses were received, and we utilized input to develop programs to increase engagement of membership.

NEWSLETTER
We tried to make the Study Groups stand out more by doing event recaps. Between the August and March issues, our event recap page has grown every month.

STUDENT CHAPTER SPONSORSHIPS
In addition to our normal financial support, we sponsored the Student Paper contest at University of Houston and the International Student Chapter Summit organized by Texas A&M University.

TECHNOLOGY TRANSFER
We initiated efforts to bring in speakers from outside the energy industry to share technology ideas. It is early in the process but has been gaining traction.

TENNIS
We sponsored two engineering students from the University of Houston to participate in the tournament in an effort to encourage more student participation in SPE activities and raise awareness of this event.

YOUNG PROFESSIONALS COMMITTEE Q&A

DOES YOUR SECTION HAVE A FORMALIZED YOUNG PROFESSIONAL COMMITTEE?
• Yes. Membership Chair acts as a liaison for the YP Committee and SPE-GCS Board of Directors.

HOW DOES YOUR YP COMMITTEE ENGAGE WITH YOUR SECTION?
• The SPE-GCS YP Committee Chair attends the SPE-GCS Board meetings and ensures the board is kept up-to-date on YP initiatives. The YP Committee also organizes joint events with the Section Study Groups and other committees to maintain engagement and collaboration. Community Services work in conjunction with the SPE-GCS YP Community Outreach Chair.

• The Membership Chair provides guidance on documentation and assists with the elections for the incoming YP board, and attends the monthly YP Board meetings and social events.

LIST AND DESCRIBE EFFORTS BY THE SECTION TO ENGAGE AND ORGANIZE YOUNG PROFESSIONALS.
• The YP committee actively works to address the concerns of young professionals. It prepares an annual survey to gauge section YP’s interest and desire for events and topics to assist in its planning purposes. It uses these results to coordinate specific YP “Lunch and Learns”, distinguished lectures, technical discussions and networking events for young professionals.

• “Movie Night” is a joint event hosted by HSSE-SR Study Group and YPs.

• Business Development Study Group and YP hosted a networking event with the focused objective to initiate mentorship/mentee program.
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STUDENT ACTIVITY
Q&A

---

**DO YOU INVITE STUDENT MEMBERS OR STUDENTS FROM YOUR STUDENT CHAPTER(S) TO ATTEND SECTION EVENTS?**

- Yes. We offer them a student discount price of $10, compared to $35 to $50 for members and non-members. We had a number of HCC Student Chapter members attend several of our PetroTech Study Group meetings.

---

**DESCRIBE WAYS IN WHICH YOUR SECTION MEMBERS ARE INVOLVED WITH YOUR STUDENT CHAPTERS AND/OR STUDENT MEMBERS.**

- New student chapters - continue to work with Lamar University and Lone Star Community College to start their student chapters.

- Through dedicated events for student interns like the annual Roughneck Camp (RNC) and the Emerging Engineering Conference (EEC) Poster Competition.

- Our section offers students the opportunity to attend our Study Group luncheons for $10, rather than the SPE member price of $35 or more.

- The Membership Chair liaises with the four student chapters: Texas A&M, U of Houston, Rice U and Houston Community College. We have active dialogue with U of Houston Student Chapter President and Prof. John Lee at UH to discuss how to forge stronger bonds between the new UH PetE program and the Section. Last summer, the UH/Rice chapter successfully split into two separate student chapters with the help of our Vice Chair. The Vice Chair and Membership Chair are both active with the U of Houston and Rice Chapter meetings to help promote the students’ involvement in the Gulf Coast Section. Our Vice Chair also organized and continues to support an industry advisory board meeting for the HCC PetroTech program.

- Our Section provides $3,000 in financial support for each of our four Student Chapters: HCC, U of Houston, Rice U, and Texas A&M. Our Membership Chair serves on the Industry Advisory Board for the HCC Energy Institute (Northwest Campus) and on the Petroleum Engineering Advisory Board for University of Houston. Our Young Professionals helped put together the SPE Student Summit and the PetroBowl competition for SPE Student Chapters at ATCE.

- We invite SPE student chapter officers to the YP BOD monthly meetings to expose them to leadership skills and transition for future succession planning.

- Our members volunteer at events, including community service activities such as RT-H (Rebuilding Together Houston), ASME (American Society of Mechanical Engineers) and Halliburton-hosted “Industry Speed Networking” with engineering collegiate students.

- We provide monetary funding and exhibit for the SWE (Society of Women Engineers) Region Conference that supports collegiate female petroleum engineering and other engineering majors.

- Our committee subsidized female engineering students from Brazil attending U of Houston to expand STEM (science, technology, engineering and mathematics) initiatives for female middle/high school students in poverty-level communities in Brazil.

- Our members participate at the Houston Community College (HCC) annual symposium and other industry-related events.

---

**DESCRIBE WAYS IN WHICH YOUR SECTION ENGAGES STUDENT MEMBERS OUTSIDE OF CHAPTER ACTIVITIES.**

- We provide monetary funding and exhibit for the SWE (Society of Women Engineers) Region Conference that supports collegiate female petroleum engineering and other engineering majors.

- Our committee subsidized female engineering students from Brazil attending U of Houston to expand STEM (science, technology, engineering and mathematics) initiatives for female middle/high school students in poverty-level communities in Brazil.

- Our members participate at the Houston Community College (HCC) annual symposium and other industry-related events.
The SPE-GCS offers an internship program to SPE-GCS scholarship winners, whether petroleum engineering students or not, in the petroleum industry each summer. The objective is to foster an understanding of the petroleum industry through on-the-job training. The Internship and Scholarship Chairs contact numerous operating and service companies to provide them with dossiers on this year’s scholarship winners in case the companies need summer interns. The program is in progress for the 2014 summer period. Anadarko Petroleum Corp will be providing internship offers to the following nine individuals for the summer of 2014:

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<th>RECIPIENT/MAJOR/UNIVERSITY</th>
<th>HIGH SCHOOL</th>
<th>PRE-COLLEGE INTERNSHIP</th>
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<td>Anadarko</td>
</tr>
<tr>
<td>Colorado School of Mines</td>
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The YPs have created a student liaison position to improve communications and facilitate increased interactions with local student chapters. We offer support to various local student groups as needed/requested. In addition, the YP has an annual Roughneck Camp that is a great vehicle to introduce student interns to local young professionals in their industry.

Describe ways in which your section members are educating pre-university students on the profession and the industry.

- The Permian Basin Study Group invited high school students to their 2nd annual professional luncheon event.

- The Reservoir Study Group coordinated an event for high school students.

- The Section funded and hosted a booth for a local STEM community annual event called “Energy Day” which educates Greater Houston Area residents, parents, young children and educators about energy.

- Section members engaged with middle school students, interacting with hands-on projects to expose them to potential engineering careers through making putty and erecting structures using marshmallows and spaghetti.

- The SPE Permian Basin Study Group’s Ambassador Lecture Program gives members and non-members the opportunity to interact and educate pre-university students on topics that are directly related to science, engineering and the oil and gas industry. The study group annually holds one SPE luncheon where advanced level high school students are invited and sponsored.
We organized a survey of all section members to gain a better understanding of their interests. We had not done one for several years and we gained a lot of valuable insight. The results will be integrated into our annual budget and long-term planning.

We formed a Membership Subcommittee to host networking events for attendees to meet with study groups and community service leaders that will immediately sign-up volunteers for ongoing volunteer events and allow onsite membership registration/renewal. We continue to update our Volunteering webpage and educational opportunities are listed as they become available. A list of volunteers is sent to Membership Coordinator, Xuan VandeBerg from SPEI, and she places them in the appropriate volunteer positions, both at the Section and International levels.

We completed a YP Salary Survey and shared the summary of results with SPE-GCS members as one more benefit to our members.

We recruited a member who transferred to our Section to start up and champion a new program to link Legion of Honor members with YPs in a mentoring program. The older ones can share valuable experience and stories with the younger ones, who can help the elders with new tech gadgets and social networking. This program is still developing, but we now have a volunteer to lead it. Also, the YP’s are incorporating investment seminars and career development lectures to meet the needs of the younger members.

---

**OUTREACH + SHARING WITH OTHER TECHNICAL GROUPS**

**Describe Relationships with Other Professional Societies (National or International) that are active in Petroleum Engineering or Related Areas.**

Ongoing monetary and volunteer support, including joint efforts with affiliated industry and engineering related organizations such as SWE, ASME, AADE and API. This includes joint networking and social events: community outreach programs (Energy Day, GEMS, etc.); mentor/mentee programs; exchanging marketed communications to members through social media and newsletters of upcoming events and volunteer opportunities.

**Young Professionals**

Joint Professional Event with SWE, joint Networking event with SWE, joint Social event with TYP, joint Community Outreach event with YPE, and Joint Community Outreach event with NSBE-HAE. Work closely with SWE – Society of Women Engineers in Houston area.

**How Does SPE-GCS Share Technology with Other Sections, the Society, and Other Industry Groups?**

By organizing joint events with SWE, ASME, AADE and API

**Young Professionals**

By sharing our experience in developing and utilizing our SPE-GCS YP Mobile Application

---

**Innovation in Society and Community Benefits**

The SPE-GCS YP committee established monthly discussion topics on our social media pages (Facebook, Linked In, Twitter) to encourage discussion on various topics relevant to YPs, including Continuing Education, Early Career Lessons Learned and International Assignments for YPS, etc. The SPE-GCS YP committee used the recently rolled out mobile application to communicate with the YP membership by sending push notifications to their phones to let them know about upcoming events.
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Floating Production System Host Selection

Session 1 of the Summer Series on “Floating Production Systems” presents an operator’s view on key drivers for floating production systems concept selection. Technical aspects of the concept selection will be discussed via a demonstration of sizing a wet tree semi-submersible for a deepwater field in the GOM.

Deepwater will require a large portfolio of projects to be developed with floating production systems. While FPSO vessels are expected to dominate the concept selection primarily from lack of pipeline infrastructure, semi-submersibles, spars, and tension leg platforms are often candidates for fields where existing infrastructures are available. Many operators have a large portfolio of floating systems and continuously explore development opportunities that may require floating production systems to develop.

The summer sessions are perfect opportunities for either an introduction to Floating Production Systems for the engineer just starting in the industry, a refresher for the more seasoned individual, or just a great networking opportunity for those involved in this arena. Each session is scheduled as a 1-hour presentation followed by a 30-minute Q&A period.

Dr. Wei Ma

Dr. Wei Ma received his Ph.D. degree in Naval Architecture and Offshore Engineering from University of California at Berkeley in 1995. He started his professional career in the offshore industry at ABS, and then moved to Doris before joining Chevron in 2003. Wei has been working on a wide range of offshore projects and research problems. He was responsible for the Chevron Blind Faith hull and mooring delivery and has been involved in several other projects, including the Jack St. Malo hull concept selection.
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Introduction to FPSOs

Session 2 of the Summer Series on “Floating Production Systems” presents an overview of the development of FPSOs as a floating production system option and global distribution of FPSOs. The discussion will cover the drivers for selecting an FPSO, key components of the system, storage volume considerations, cargo offloading and metering, hull shapes, turret overview, mechanical handling and topsides layout considerations. New build versus conversion of an existing hull will be discussed. FLNG will be briefly discussed as well.

Bill Kinney

Mr. Bill Kinney has over 35 years of experience in offshore oil and gas development projects. Bill has been involved with all aspects of oil and gas production from the downhole completions through the production facilities, export pipelines and terminals. Bill has also been involved with construction and installation of fixed platforms and floating systems. His experience includes end of field life projects involving well plug and abandonment and platform removal planning. He has led projects in the Gulf of Mexico, North Sea, S.E. Asia, Alaska, West Africa and South America. Bill has been involved with several significant industry projects including the Kakap Field Development (first FPSO in Indonesia), Troika (long distance oil tie back), and Canyon Express (record water depth gas development).

Bill earned his Bachelor of Science degree in Ocean Engineering from Texas A&M University. Bill continues to be involved with the university as a Member of the Civil Engineering Advisory Committee at Texas A&M University and is the Chairman of the Ocean Engineering Advisory Board at Texas A&M University. Bill also occasionally presents lectures at Texas A&M.

Bill is the past chairman of the Projects, Facilities and Construction Study Group for the Society of Petroleum Engineers (SPE) Gulf Coast Section. Bill is also a member of the Society of Naval Architects and Marine Engineers (SNAME) and the Marine Technology Society (MTS).

Bill has been recognized as a Distinguished Graduate by the Zachry Department of Civil Engineering at Texas A&M University. He is also recognized as a Diplomate of Ocean Engineering by the ASCE - Academy of Coastal, Ocean, Ports and Navigation Engineers (ACOPNE).
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Design and Construction of Tension Leg Platforms

Session 3 of the Summer Series on “Floating Production Systems” presents an overview of TLP production systems, what drives their design, and a bit of TLP History.

The design of an offshore production platform requires consideration of many factors which influence the design, including payload and performance requirements, the met-ocean and geotechnical environments, construction methodology and available facilities, installation methodology and available equipment, and schedule requirements. Steve will review the typical drivers in a TLP design, and discuss various design solutions. Steve has collected photos of most of the existing TLP platforms, and uses these to demonstrate the evolution of TLP designs over the 26 installed platforms.

Steve Leverette

Steve Leverette has over 37 years of experience in the offshore oil & gas industry. He has been involved in many deepwater developments and specifically Tension Leg Platforms (TLPs), and in fact, was on the design team for the world’s first TLP, the first Gulf of Mexico TLP, the first mini-TLP, and the world's first DeepDraft Semi. Steve was in charge of the global sizing and analysis of the Hutton TLP project beginning in 1979, and has contributed significantly to the majority of the installed TLP designs since then. He has had a major role in establishing the design codes used in TLP design through chairmanship of the API RP2T workgroup. Steve’s career path has included 8 years with Gulf Oil Company, 10 years as head of a small deepwater engineering consulting firm, and 19 years with SBM Offshore. Steve’s current position includes leading a group of Technology Champions who are mentoring the next generation of offshore designers and providing technical oversight on challenging projects.
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Summer Series: Introduction to Spars

Session 4 of the Summer Series on “Floating Production Systems” presents the history of Spar development, design, construction method and installation methods. Stability, structure, and response characteristics of Spar design will be discussed. The presentation will conclude with a current summary of spar hulls delivered or under construction.

Jim O’Sullivan

Mr. Jim O’Sullivan has 40 years of experience in the oil & gas industry, covering technology development, engineering, project management, commercial project development and multiple business-related activities. He currently manages the Offshore Technology Services (OTS) Department, which provides advanced technical services to offshore projects and manages company research regarding floating systems. Jim is responsible for Technip’s floating facility products that include developing and launching new technologies, along with supporting established products. He received a BS in Mechanical Engineering from North Carolina State University, a Masters in Ocean Engineering from MIT, a Professional Ocean Engineers Degree from MIT and Woods Hole Oceanographic Institution, and an MBA from Rice University’s Jones Graduate School of Business.

Summer Series

SPEAKER
Jim O’Sullivan
Vice President and Chief Technology Officer
Technip USA

LOCATION
Wood Group Mustang
Opus Building Events Room
17420 Katy Freeway
Houston, TX 77094

EVENT CONTACT
Gary Lemaire
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Semi-Submersibles FPS Design Considerations

Session 5 of the Summer Series on “Floating Production Systems” presents design considerations for semi-submersible floating production systems.

Semisubmersible floating production systems fit a particular field development niche for platforms in moderate to harsh environments, capable of supporting large payloads and capable of being towed out with the topsides in place. This presentation will give an overview of the features of a semi-submersible platform, a review of the important design considerations in setting the hull configuration, and a review of the steps required to develop the design of the moorings, risers, hull structure and marine systems. The presentation will end with a discussion of current trends and new technology in the design of semi-submersibles.

Bill Greiner

Mr. Bill Greiner has more than 30 years of experience as a Naval Architect in mooring and global performance studies for numerous clients. Bill’s project experience includes TLPs, semi-submersibles, classic spars, truss spars, FPSOs and a number of new hull concepts. Specific areas of expertise are in model testing and global performance analysis, concept studies, FEED and detailed design projects, design verification and brownfield studies. He has field experience in shipyards and in offshore installation. Bill’s experience includes all aspects of naval architectural work including vessel sizing, weight estimation, stability assessment, mooring design, global performance analysis and structural design. Bill graduated from the University of Michigan with a degree in Naval Architecture and Marine Engineering.
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Session 6 of the Summer Series on “Floating Production Systems” presents the similarities and differences between Spars and the Buoyant Tower™ and how each design met the challenges and delivered solutions to the clients.

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Greg Navarre

Mr. Greg Navarre has over 30 years of oil and gas experience. A Marine Engineering and Naval Architecture graduate of the United States Merchant Marine Academy, Greg has extensive experience in the design, engineering, and construction of gravity-based platforms, jackups and floating drilling facilities.

Mr. Navarre is a member of the Society of Petroleum Engineers, the Marine Technology Society, and the American Association of Drilling Engineers. He holds a U.S.C.G. Unlimited Chief Engineer’s License and served for 20 years in the US Naval Reserve, attaining the rank of Lt. Cdr.
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The Oil and Gas Supply Chain: From the Ground to the Pump

Roughneck Camp (RNC) is an annual one-day conference focused on welcoming students, interns, technical professionals and new members to the oil and gas industry. The conference will include career development sessions, presentations by industry Leaders and a technical & panel discussion. There will also be many networking opportunities throughout the event.

**TIME** | **TOPIC** | **SPEAKER /TITLE**
---|---|---
7:00 AM | Check In (Shell Woodcreek, Building B) | 
8:00 AM | Opening Remarks | Jeff Rhea, SPE RNC Co-Chair
8:10 AM | On Exploration | Sid Jones, New Ventures Team Lead, Chevron
8:50 AM | On the Development of Oil & Gas Projects | EMDC Speaker, ExxonMobil Development Co.
9:30 AM | On Oil and Gas Production | Bill Henry, VP of Int. Exploration & Production, Shell Oil Co.
10:10 AM | Ice Breakers 1 | Hosted by PetroSkills
10:40 AM | On the Transportation of Oil and Gas | Amethyst Cavallaro, Corporate Strategic Development, Williams Co.
11:20 AM | On Liquefied Natural Gas | Chris Caswell, Director of LNG and FLNG, KBR
12:00 PM | Lunch | Provided by Shell and Petroskills
12:40 PM | Open Panel Discussion | Hosted by PetroSkills
2:00 PM | On Refining | Mike Brown, VP Technology, Independence Oilfield Chemicals
2:40 PM | Ice Breakers 2 | Hosted by PetroSkills
3:50 PM | Gas and Power Marketing | Mark Phan, Strategic Planning Advisor, ExxonMobil GAPM
4:30 PM | Closing Remarks | Glenn Harris, SPE RNC Co-Chair

**LOCATION**

Shell Woodcreek Facility
200 N Dairy Ashford Rd.
Houston, TX 77079

**RNC CO-CHAIRS**

Glenn Harris
832-458-9801
Gharris@independenceoc.com

Jeffrey Rhea
580-512-3312
Jeffrey.t.rhea@exxonmobil.com

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**REGISTRATION**

www.spegcs.org/roughneck-camp/

**POST-RNC NETWORKING EVENT**

5:30-7:30pm

**LOCATION**

Luke’s Ice House

**MEMBERS**

Brittany Niles, Vivek Ghosh
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972-969-4573
robert.bruant@pxd.com

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Lucy King, Miller and Lents, Ltd.
713-308-0343
lking@millerandlents.com

**CAREER MANAGEMENT**
Patty Davis, PetroSkills
832-426-1203
Patty.Davis@petroskills.com

**COMMUNICATIONS**
Valerie Walker, Anadarko
832-636-3196
Valerie.walker@anadarko.com

**COMMUNITY SERVICES**
Amy Timmons, Weatherford
713-836-6563
amy.timmons@weatherford.com

**EDUCATION**
Gabrielle Guerre, Ryder Scott
713-750-5491
gabrielle_guerre@ryderscott.com

**MEMBERSHIP**
Xuan (Sun) VandeBerg, Consultant
832-444-5143
stem.fields@gmail.com

**PAST CHAIR**
Steve Baumgarter, Marathon Oil Corp.
713-296-3190
sbaumgarter@marathonoil.com

**PROGRAMS**
David Tumino, Murphy Oil Corp.
281-717-5123
tumino@hal-pc.org

**SOCIAL ACTIVITIES**
Jim Sheridan, Baker Hughes
281-432-9209
jim.sheridan@bakerhughes.com

**TECHNOLOGY TRANSFER**
Carol Piovesan, APO Offshore
281-282-9291
crio@apooffshore.com

**YOUNG PROFESSIONALS**
Simeon Eburi, Chevron
simeon.eburi@chevron.com
806-544-0829

**DIRECTOR 2012-14**
Alex McCoy, Occidental Oil and Gas
713-366-5653
alexander_mccoy@oxy.com

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

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

**DIRECTOR 2013-15**
Trey Shaffer, ERM
281-600-1016
Trey.Shaffer@erm.com

John Lee, UH
713-743-4877
wjlee3@uh.edu

Deepak Gala, Shell
281-544-2181
deepak.gala@shell.com

**SECTION MANAGER**
Kathy MacLennan, SPE-GCS
713-779-9595 x 813
kmaclennan@spe.org

***Committee Chairs***

**AWARDS**
James Rodgerson, BP
281-221-4085
james.rodgerson@bp.com

**CONTINUING EDUCATION**
Nii Ahele Nunoo, NOV
507-304 5416
Nii.Nunoo@nov.com

**ESP WORKSHOP**
Noel Putscher, Newfield
281-674-2871
nputscher@newfield.com

**GOLF**
Cameron Conway, KB Machine
281-217-0660
cconway@kb-machine.com

**INTERNSHIPS**
Gabrielle Guerre, Ryder Scott
713-750-5491
gabrielle_guerre@ryderscott.com

**NEWSLETTER**
John Jackson, Unimin Energy
832-247-0233
editor@spegcs.org

**SCHOLARSHIP**
Tanhee Galindo, Consultant
832-693-9010
gcs-scholarship@spemail.org

**SPORTING CLAYS**
Paul Conover, NOV
713-346-7492
paul.conover@natoil.com

**TECHNOLOGY TRANSFER**
Carol Piovesan, APO Offshore
949-232-6353
crio@apooffshore.com

**TENNIS**
James Jackson, Halliburton
713-366-5704
james.jackson@halliburton.com

**WEB TECHNOLOGY**
Shivkumar Patil, Aker Solutions
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Shivkumar.Patil@akersolutions.com
PERMIAN BASIN
Amy Timmons, Weatherford
713-836-6563
amy.timmons@weatherford.com

PETRO-TECH
Marci Nickerson, Consultant
713-446-3400
mnick52@sbcglobal.net

PROJECTS, FACILITIES, CONSTR.
Chris Shaw, Shell
281-544-6796
C.Shaw@shell.com

RESEARCH & DEVELOPMENT
Skip Davis, Technology Intermediaries
281-359-8556
skdavis@technologyintermediaries.com

RESEVOIR
Sunil Lakshminarayanan, Weatherford
713-849-1861
sunil.lakshminarayanan@weatherford.com

WATER & WASTE MANAGEMENT
Kira Jones, Momentive
281-646-2827
kira.jones@momentive.com

WESTSIDE
Andrea Hersey, Momentive
281-646-2805
andrea.hersey@momentive.com

BUSINESS DEVELOPMENT
Steve Mullican, Grenadier Energy Partners
281-907-4120
smullican@grenadierenergy.com

COMPLETIONS & PRODUCTION
Mark Chapman, CARBO Ceramics
281-921-6522
mark.chapman@carboceramics.com

DIGITAL ENERGY
Rick Morneau, Morneau Consulting
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ricknmorneau@outlook.com

DRILLING
Joe Tison, Greene Tweed
281-784-7805
wtison@gtweed.com

GENERAL MEETING
Raja Chakraborty, Shell
281-544-2148
Raja.Chakraborty@shell.com

HEALTH, SAFETY, SECURITY,
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Trey Shaffer, ERM
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Owen Jones, ExxonMobil
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SPE Houston Office
GULF COAST SECTION MANAGER
Kathy MacLennan | kmacclennan@spe.org
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Sharon Harris | sharris@spe.org

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- UTCHEM – leader in simulation
- Commercially Independent
- Integrated support from lab to field throughout project life
- Patented, proprietary chemical systems

### CALENDAR

#### July 2014

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<td>Projects Facilities &amp; Construction - Session 1</td>
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<td>Post-RNC Networking Event</td>
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