



Delta Section

NEWSLETTER

Volume 34 No. 4

December 2017

Merry Christmas and Happy Holidays!

*Wishing everyone in our SPE family
a safe and happy holiday season!*

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Golf Tournament Co-Chairperson.....	Jerry Simms	LLOG Exploration
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	Matt Wandstrat	LLOG Exploration



Delta Section

Our Mission

To collect, disseminate, and exchange technical knowledge concerning the exploration, development and production of oil and gas resources and related technologies for the public benefit; and to provide opportunities for professionals to enhance their technical and professional competence.



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SPE: ON THE HORIZON

DECEMBER

Dec. 25..... Christmas Day. Merry Christmas and Happy Holidays to all of our SPE family!

JANUARY

TBA SPEI Facilities & Operations Technical Director (Hisham Saadawi)

FEBRUARY

Feb. 7-9..... SPE International Conference and Exhibition on Formation Damage Control - Lafayette, LA

MARCH

Mar. 9 SPE Golf Tournament - Carter Plantation

Mar. 14 Pierre Ramondenc: Coiled Tubing Real-Time Monitoring: A New Era of Well Intervention & Workover Optimization

APRIL

Apr. 17-18 SPE/IADC Managed Pressure Drilling and Underbalanced Operations Conference and Exhibition - New Orleans, LA

MAY

TBA LSU PE Symposium

May 5..... R. Scot Buell: Waterflood Design and Operational Best Practices

SAVE THE DATE!



SPE 2018 GOLF TOURNEY March 9, 2018

Carter Plantation
Springfield, Louisiana

For more information, contact Matt Wandstrat at mattw@llog.com

GREAT NEWS!

Industry Survey Finds Uptick in Expected Hiring and Salaries in Next 12 Months

“The survey showed that in total almost 60% of employers expect to recruit significantly over the next 12 months. Of those almost a quarter (23%) of employers expect to increase their workforce by 5%; almost a fifth (19%) expect to increase staffing by between 5 and 10%; and more than a sixth (17%) by more than 10%.”

Read more at https://www.spe.org/en/ogf/ogf-article-detail/?art=3555&mkt_tok=eyJpIjoiT0dSallqT-mxOR1l3TTJVNNSIsInQiOiJvcmlhZkRcLzBxSTIYeXFIN2dJNGo5ZSsxVDI4MWx5d1kxRW5jM3VyalgrR2p2bXZCa2tcL0ZpRVd4REZ5RUwrdk5qVXh0NU5ZTA3SWFIZGxjXC9jWm1LNDRnYUVZSitkbHNwTW8ycnlUZ-EZURENGbmpSemk2RnNZa29hNmlsUFwvaTUifQ%3D%3D



from *THE CHAIR*...



Merry Christmas and Happy Holidays to all!

We hope this newsletter finds you doing well. As we enter into this holiday season and bring the year to a close I am sure everyone is thinking about those who are special to you and also about how this past year has been both personally and professionally. Reflection on this year's past activities can help you answer questions about your career status and possible future. I have encouraged you in the past to focus on your technical skills and networking. Technical skills can be enhanced by signing up for training courses both internal and external. And even in this cost-conscious market we are in it never hurts to ask for additional training. One thing is for sure, you will not get any training if you do not ask for it. Next, think about your professional network. Are you well connected to your peers in the industry? The monthly technical luncheons, social activities (annual golf tournament, YP socials, continuing education events) and volunteer opportunities provide avenues to meet others and to network with people you may not otherwise meet in your day-to-day activities.

The Delta section board is continuing to serve you, the membership, by providing technical luncheons, social events, supporting STEM activities, and continued engagement with the student chapters. I want to recognize them for their efforts.

A reminder to all to keep your membership current and to encourage your colleagues who are not currently members to renew or join. It is your involvement and dues that enable the Delta Section to continue to deliver support to the local community and the industry. I also encourage you to sign up and attend the monthly technical luncheons. Come out and meet your industry colleagues, eat a good lunch and learn something new.

So as we approach the Christmas season take some time to think about your career and about others within your sphere of influence. Shore up any deficient areas in your profile and next reach out those around you that may need advice and guidance in their own professional development.

Take care and safe travels,

Daniel A. Durey

Your 2017-2018 SPE Delta Section Chair



SPE-Delta Membership Report

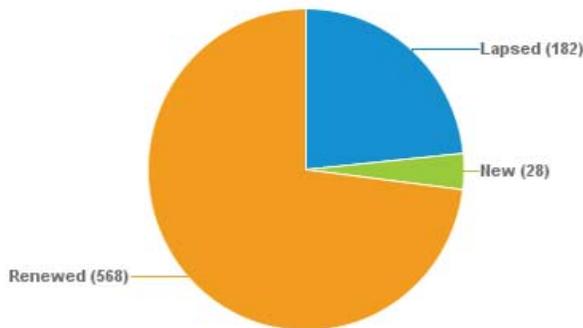
Submitted by Angie Gobert (Membership Chairperson)

As of December 2017

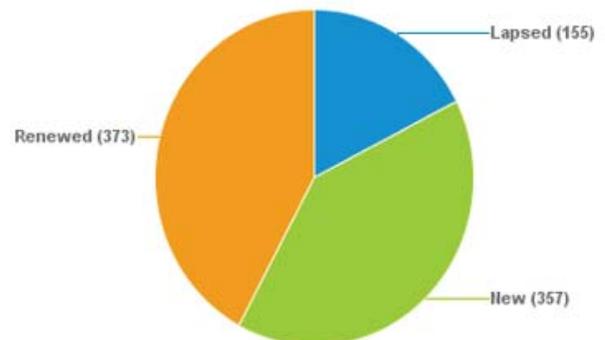


Total Full Members	778
New Members	28
Unpaid Members	182
Total Student Members	885

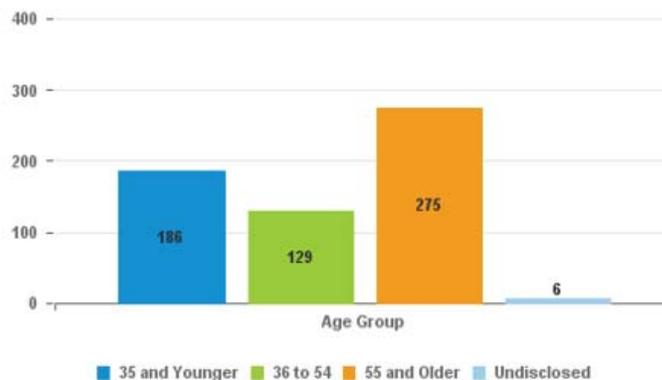
Professional Membership



Student Membership



Professional Members by Age Group



ATCE 2017

Society of Petroleum
Engineers at
Louisiana State University

October 2017



*Thank you to Our
Sponsors*



Chevron



Delta Section

SPE Delta Section

What is ATCE?

ATCE is SPE's annual meeting of members and features groundbreaking papers and special technical events designed to accelerate the application of innovations in every technical discipline. Attendees come from around the world to ATCE to keep up with the latest technologies, industry best practices, and new product launches.

SPE at LSU would not be able to provide the opportunity for our students to attend ATCE if it wasn't for our sponsors. Because of our sponsors, we were able to send 45 members to ATCE and each and every one of them received an experience of a lifetime.





Our Members

We were able to send 45 members from SPE at LSU to ATCE this year. A few of them provided feedback about their experience.

"At ATCE, I got to learn a lot about the industry, and where the future of this industry lies. I also met a lot of people from the industry and made connections that might end up becoming helpful in the future."

-Adam Ali

"I really liked ATCE for several reasons. It allowed me to meet and get to know many of my fellow classmates better. It allowed me to learn about all the latest technology and trends going on in the industry. And finally, it was a great way to simultaneously network with industry professionals and do relevant research related to my senior project."

-Spencer King

"It was a great opportunity to network, learn about new technologies, and make connections in the O&G industry. Looking forward to attending in the future as a professional!"

-Amir Dodds

"I attended this years SPE ATCE eager and full of high expectations. During the SPE Petrobowl finals, I got a chance to learn from several rounds of competition between 36 qualifying universities. I also attended few technical sessions and networked with industry professionals. I was extremely fascinated by the remarkable technologies that were on display in the exhibition hall. Being a technical presenter at the ATCE again, was very rewarding and I look forward to having a third shot at it during the 2018 SPE ATCE in Dallas." -Hope Asala



Our Officers



We were fortunate enough to have all of our officers attend ATCE. It was a great opportunity for us to meet officers from other schools and get tips from them on how we can improve our society. Our goal this year is to be acknowledged as an Outstanding Chapter and we believe that we have now gained the knowledge and performed the actions to make this goal a possibility. We still strive to find more ways to improve our chapter to ensure this goal becomes a reality.

Last month, I had the pleasure of attending ATCE in San Antonio. The networking opportunities were amazing. This trip afforded me the chance to learn about new technologies and services currently being adopted and others that are soon to come out. I was exposed to hundreds of companies involved in the oil and gas industry that I hadn't heard of before. We had the chance to attend technical sessions over various topics from people all over the world. From learning about Mechanistic Modeling of Modified Salinity Waterflooding in Carbonate Reservoirs to Enhanced Heavy Oil Recovery by Intermittent CO₂ Injection, I was able to increase my understanding of what I had been learning in the classroom. Also, I had the chance to meet all my friends from all over the world, make new friends with students from other universities, and really understand the importance of consistently participating in such oil and gas conferences during my career. I believe every petroleum engineering student should attend ATCE at least once during their college career.

-Abdul Homran,
LSU SPE Chapter President

"ATCE was much more than I expected. Being my first time going, I was unaware of all that ATCE had to offer. Petrobowl was an awesome opportunity to see the other schools and also learn so many facts about the oil industry and SPE. The technical sessions informed us about so many interesting technology improvements that will help our industry. The exhibition was a great way to network and become more comfortable with talking to oil and gas companies from all around the world. I also was informed about many companies that I have never heard of before, which has opened up new opportunities for me. The people we were surrounded by made our experience amazing and I cannot wait for next year."

-Megan Martter, LSU
SPE Chapter Vice President





A Note from our Department...

"I had an excellent experience at ATCE this year, and was proud to see our group of LSU students participating in events across the whole conference (who were easily spotted as clusters of purple the day they wore their SPE polos.) I was particularly impressed with their turnout to support their colleague Dylan Albers for his talk in the international student paper competition. I was also thankful for their participation in our alumni reception, as the alumni are always eager for a chance to meet the next generation of LSU petroleum engineers."

-Dr. Karsten Thompson

The 2017 ATCE Conference in San Antonio was a fantastic opportunity to network with hundreds of companies and attend some cool technical presentations about upcoming new technology and developments in our industry. Even though it was my second ATCE experience with Dubai in 2016 being my first one, I was still highly intrigued and carried away by the magnitude of the conference. There's always something special about ATCE conferences, especially when thousands of industry professionals and students all over the world converge upon one city at once to share and exchange ideas of a "language" that is very familiar to us. It's a magical feeling that is hard to describe on paper, but it's similar to a little child walking into a giant toy store for the very first time in his or her life. During the conference, I was able to make many friends with students from other universities whom I envision myself working with together in the future to solve the energy challenges of tomorrow. I would like to thank our sponsors for providing this wonderful opportunity to our students to be a part of the 2017 San Antonio ATCE conference, because we could not have done it without your support. Our industry seems to be rebounding, and I curiously look forward to see what lies ahead of us in the future.

-Shrey Dalal, LSU Chapter Secretary

I had the wonderful opportunity to represent LSU SPE at ATCE 2017 as an officer this year. It was a great experience to meet officers and members from other SPE chapters from not only North America but also from around the world. I also got an opportunity to witness the influx of innovative technology currently being used and the ones that are proposed for future use. Being able to learn how other chapters around the nations are running their chapters allowed to me broaden my horizon of thinking and hopefully implement new activities and processes in the LSU chapter. Furthermore, I was able converse with multiple companies and gain input on my upcoming senior project and also the oil industry in general. I am very thankful I got the chance to learn so much and would continue to attend ATCE in the future as a professional working in the industry.

-Drumil Parekh, LSU Chapter Treasurer

Attending SPE ATCE for the first time was an amazing experience filled with networking, meeting fellow students from other universities, and attending technical sessions. I was able to meet people from all over the world and attend numerous workshops and presentations such as the leadership workshop for student chapter officers. Attending these brought up some great ideas that we could bring back to our student chapter at LSU. On the second day of the conference, our group from LSU walked into ATCE wearing our purple and gold polos proudly and many companies and other attendees could recognize LSU from the crowds of people. This was an amazing way to distinguish LSU and network with fellow LSU grads who were now representing numerous companies at the conference. Overall, I thoroughly enjoyed ATCE and look forward to attending next year as a LSU alumni working in the oil and gas industry.

- Brittany Van Landingham, LSU Chapter Membership Director



Attending ATCE-2017 in San Antonio was truly a remarkable experience for me. Since it was my first time attending ATCE, I was amazed by all the companies and the huge number of attendees. In ATCE, oil and gas industry pioneers and industry leaders brought out their cutting edge technology and gave us a glimpse of what lies in the future of the industry. By attending ATCE one can understand the true global extend of oil and gas industry. ATCE brought out attendees from all over the world ranging any where from freshman students to industry veterans with 40+ years of experience. I had a great time meeting new people, networking and gathering knowledge. I am looking forward to attending many more ATCE events in the future.

- Sarwar Khan, LSU Chapter Events Director





Thank you

We could not be more proud of our students; they really made the best out of this opportunity. They were among the first students to arrive at the conference each morning and the last to leave. They represented LSU and SPE to the best of their ability, especially when they were easily spotted while all in their purple polos. We received many compliments about the professionalism of our students and the level of knowledge they exhibited.

Thank you for allowing our students this opportunity and for sponsoring an experience they will never forget.

Sincerely,
LSU 2017-2018 SPE Officers



OUT OF UTOPIA

This is a summary of Ralf Dahrendorf's classic paper "*Out of Utopia*".

I first read the paper years ago and occasionally reread it. In this 1958 paper, Dahrendorf laments a trend in Sociology to model societies on a utopian theme (the equilibrium model) and proposes a radically different model based on conflict (the conflict model).

Utopia is a well-studied idea with many novels published and many more scientific works. Utopian societies have several traits in common:

- Especially, they are societies in which change is absent (they are in equilibrium). It is never made clear how the society got to this place. It is clear that no further change is needed or even possible.
- Change is not needed or wanted because there is a universal consensus on values and because of that, there is complete social harmony. There is nothing to complain about.
- The society cannot be completely stagnant, of course, but all actions occur to reinforce the agreed upon structures and values.
- Utopian communities are physically isolated from the rest of the world.

Needless to say, no utopian societies exist. All societies are always in a state of flux. There is never a point at which there is universal consensus on values and methods. And all societies are connected to a other societies (increasingly so today).

Yet, sociologists applied a systems model that assumed equilibrium as the starting point for discussion/investigation. Dahrendorf proposed a much different social model, the conflict model.

Wherever there is social life there is conflict. It is not always violent conflict, but there is always at least controlled disagreement. Even

intense disagreement can be suppressed. According to Dahrendorf, it is this suppression, this constraint, that keeps society in check.

Quoting from the article "... we live in a world of uncertainty. We do not know what an ideal society looks like-and if we think we do, we are fortunately unable to realize our conception. Because there is no certainty there has to be constraint to assure some livable minimum of coherence. Because we do not know all the answers, there has to be continuous conflict over values and policies."

The key takeaway from the article is this: **Society is held together by constraint, not by consensus.**

I disagreed with claim when I first read the article. I've now come around mostly to Dahrendorf's point of view.

Is the US stable because we agree on values and on the current structure of government? If so will we become less and less stable as our politics become more and more fractured? To the extent that the equilibrium model is correct, democracy is in trouble.

Or are we stable because of our power? That is an easy argument to make. No militant group will try to take over Montana, for instance, because such an effort would certainly end in failure.



Prof. Ralf Dahrendorf, circa 1980



The Louisiana
FIRST® LEGO® League (FLL)
Robotics State Championship

Jesuit High School (in Mid-City)
Saturday, December 16th, 2017
8 am – 5 pm

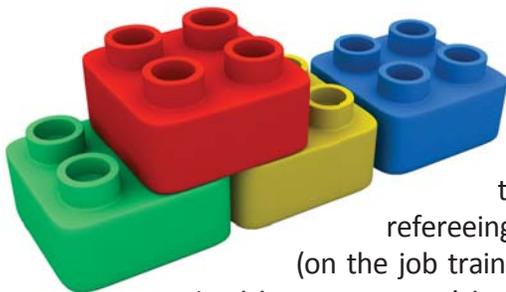
The Louisiana FIRST® LEGO® League (FLL) Robotics State Championship for middle school students will be held at Jesuit High School (in Mid-City) on Saturday, December 16th, from 8 am to 5 pm, and we would love to have your help as a VOLUNTEER!

On your mark, get set, flow!

Drink in the **2017/2018 HYDRO DYNAMICS** season and learn all about water – how we find, transport, use, or dispose of it. In the 2017/2018 FIRST® LEGO® League Challenge, students age 9 to 14 from 80 countries will make a splash with **HYDRO DYNAMICS**.



What might become possible when we understand what happens to our water?



The tournaments involve an exciting head-to-head robotics competition and very creative research presentations. Volunteer positions are described on the Volunteer page of our LA FLL website. Half-day and full-day slots are available, and T-shirts and lunch are provided for volunteers that work a minimum of four hours. If you are interested in judging or refereeing, it is a full day commitment with prior training. All other positions are OJT (on the job training). We have grown from an initial 15 team tournament in 2003 to 134

Louisiana teams participating this year in 13 qualifiers around the state, with 60 teams coming to the Championship. This is a great way to meet and have a positive impact on our future engineers and scientists as they explore **HYDRO DYNAMICS** – the 2017 FLL Challenge!

FIRST has a new (actually simpler) volunteer registration system. You create an account at <https://www.firstinspires.org/> (just takes creating a login and password). Then select the VOLUNTEERING button and go through the steps of Youth Protection Program screening (your records will have been transferred over if you have volunteered before, so you may not need to re-do this) and then select the tournament and position you wish to volunteer for. Every volunteer must agree to a national screening once every three years (no cost to the volunteer). And we get questions regarding whether you have to provide your SSN, and the answer is NO. You have the option of checking a box indicating that you do not wish to provide it. Please let me know if you have any questions.

Please share with your contacts! We look forward to seeing you!

Dr. Michelle Sanchez



SPE DELTA BEER TASTING SERIES (Tasting #3)

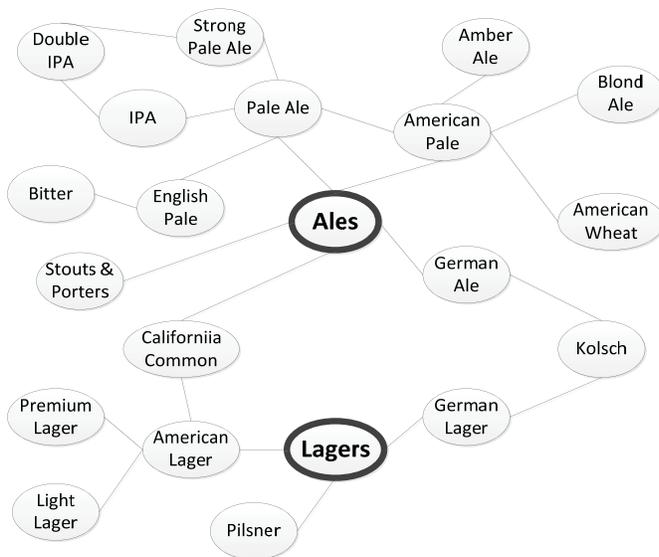
(The Engineering Geek Version of Beer Tasting)

Few people attend SPE Delta Technical meetings. This year we are trying a couple of different things to get more involvement, including this beer tasting series.

Once a month we'll meet to sample 8 beers, eat finger food, and network.

The Geek Factor: We'll discuss and try multiple styles. You will rate every beer you try. We will use your ratings to construct a mathematical model of your beer preference and then use that model to predict your favorite beer in the bar, and bring you a sample of that beer.

If you attend enough tasting, we'll have a large amount of data by the end of the season and the model may be pretty close.



We'll also visit breweries invite brewers occasionally share brewing insight.

Something for Everyone: NA and Gluten Free Beers and Wine available

Southshore

Tuesday Dec 6

Cooter Browns, 509 S. Carrollton, in the Back Bar

5:45 to 8:00 PM

\$20

Register at: <http://connect.spe.org/delta/events/upcomingevents>

Northshore First Northshore event planned for February.

VOLUNTEERS NEEDED

Fueling Victory in WWII: Production & Use of Oil in WWII

The National WWII Museum in New Orleans is a remarkable place. It contains snippets of oil's role in winning the war, but not much of that story.

Armies, navies, air forces consume vast quantities of resources. Oil - lots of it - was required to make the victory possible.

SPE Delta is launching a study to develop the story of fuel, oil in particular, in winning WWII.

We are looking for volunteers willing to dive-in and research this piece of

history to tell the story of how much was needed, where it came from, how it was found, produced, refined, conserved, transported, and fought over, how it affected military strategy and about the people who made it all happen.

We hope that eventually the story we develop will be presented in the National WWII Museum.

This is likely to be a multi-year effort. Our first goal will likely to be development of a short documentary video.



Delta Section

If you would like to be involved,
please contact **Howard Duhon** at
hduhon@gateinc.com.

LOOKING BACKWARD / LOOKING FORWARD

by Allen Porter, PE
SPE Delta Section Senior Advisor

Backward

It is interesting looking back at history. The stories of the tremendous Oklahoma Boom of the first half of the 20th century are amazing. It is a bit of the wild west to the beginning of advanced technology. Drilling started with cable tool rigs and saw the development of the rotary drill. Earl Halliburton started with one helper and his wife on his first cement truck. Duncan Oklahoma remained the Halliburton base even after it became the giant in the industry. Did you ever wonder how they cased the gushers? Initially they ran pipe with oil raining down upon them. The most amazing thing is almost all of the production came from zones between 2000 and 6000 ft. One gas well flowed 100 million feet per day from 6000 feet. Conoco, Phillips, Cities Service, Pure and many others came out of this boom. Shell made its entrance into the American industry in Oklahoma in the 1920's. There is almost a TV "Gun Smoke" plot except in this real one "Matt Dillon" is killed. I attended my first huge oil show in Tulsa in the early 1960's. Tulsa was finally pushed out of this business by the show at the OTC in Houston. Today Oklahoma is just a scavenger operation, but is still producing with pressure maintenance, shale and earthquakes (only kidding). Tulsa was called the capital of the oil industry. Most of this information is in two books "A History of The Greater Seminole Oil Field" and "Early Oklahoma Oil," both short, fun books.

My career was mostly tied to National Tank Co (CE Natco) founded by one of these early "wild" characters. He was a huge man who was tremendously wealthy. During my early years at Natco we were active in building smaller turnkey, lean oil, mechanical refrigeration gas plants. I had construction experience with Gulf so I would do the on site construction. I would go to Tulsa to go over the "production skids" to minimize as many errors as possible prior to movement to the field.. The president had a habit of just walking through

the shop and happened to see me.

He visited a while and finally asked how I traveled to Tulsa. I told him I had flown. He then asked if I flew coach or first class. I immediately told him coach (coach was much better in those days) We were all suppose to fly coach. He told me, "From now on, son, you fly first class. You are too big to fly coach. That means you and I are the only two people in the company who can fly first class". (I continued to fly coach). He was the perfect model of the oil field entrepreneurs who built the industry. He was a friend to many of these people. It was a fun company with which to be involved. Those people were just the reality of the image of the oil "wildcatters". This boom lasted from 1896 to 1935, approximately 40 years.

The Gulf of Mexico "Shelf" operation began in earnest in the very late 1940's. When I was employed by Gulf in 1953 they had no offshore wells. When I returned from Korean military service in 1956 the company was completing their first wells at Eugene Island. (That first platform is still "squeaking" out a little production as are many "Shelf" wells) . It took the "shelf" about 40 years to see full abandonment by the major oil companies. The time span is quite similar to the Oklahoma Boom. Here again, the industry advanced from taking two weeks to drill a well with an old steam rig to two or three days with a modern rig with advances from drilling mud all the way through advanced logging, drilling tools, safety equipment to the amazing technology utilized today in deep water. The "Shelf" today is operated generally as a scavenger operation. Here is personal history. When I retired as VP of Natco in 1986, I had approximately 1200 people reporting to me in Louisiana and Mississippi with perhaps 20 engineers.

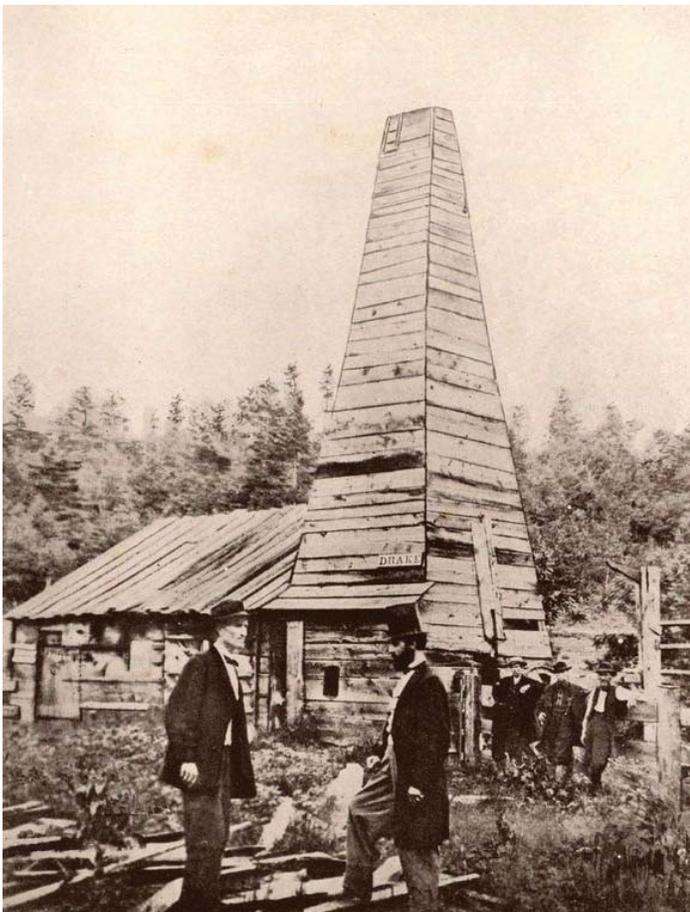
The Transition

There has been a transition in the last 30 years

that most have seen throughout many sectors of the industry. Today many of the large equipment manufacturers are all gone. Much of the equipment is being built overseas. More and more engineering is being moved to "low cost engineering centers" in countries such as India. Even many consulting firms are moving engineering out of the country. (It is in contrast from the political rhetoric we are hearing.) With some buy-outs and mergers, the United States has sometimes even become "overseas" as headquarters shift to changing markets.

This transition has sometimes been in gradual steps and other times quite turbulent as major shifts occur. I'm sure many of us have felt this pain are are still trying to identify where we can add value and identify what the future holds as these shifts continue. We are no longer a local concentrated group on the Gulf Coast, but now are part of a global industry where our counterparts can on the other side of the globe.

Editor's Note: In our next issue, Al will pick up on this series and focus on his view of the future and possibilities that lie ahead.



Tis the Season!

If you are looking for a way to support the local community over the coming weeks, here are a few ways to get involved and to hopefully make someone else's holiday a little bit brighter.

Second Harvest Food Bank

no-hunger.org

With one in six people in Louisiana at risk for hunger, Second Harvest plans to support families across south Louisiana this holiday season by raising \$40,000 between now and December 31 as part of their mission to prevent hunger by providing food access, advocacy, education, and disaster response.

Catholic Charities of New Orleans

ccano.org/holiday/

Catholic Charities serves those who are vulnerable and in need across the Diocese of New Orleans regardless of religion, race, ethnicity or economic status. Consider adopting a family or individual or a family through their Christmas Adoption Program where you provide recipients in need with food baskets, gifts and clothing.

Covenant House

covenanthouse.org/homeless-charity/new-orleans

The Covenant House in the French Quarter provides shelter and a variety of services to homeless, runaway, and at-risk youth under the age of 22. Having aided almost 20,000 kids with vital services, Covenant House reaches out to one of the most vulnerable populations in our nation with absolute respect and unconditional love.

Junior League of New Orleans Diaper Bank

jlno.org/community/diaper-bank/

One in three mothers in the United States faces a daily challenge of filling the basic need of clean diapers for her children. The Junior League of New Orleans works with partner distributors across the metro area to provide clean diapers and other supplies from the JLNO Diaper Bank to support families in-need of these essential child care supplies. You can contribute by making a monetary donation or by donating unused, disposable diapers at any of their drop off locations.

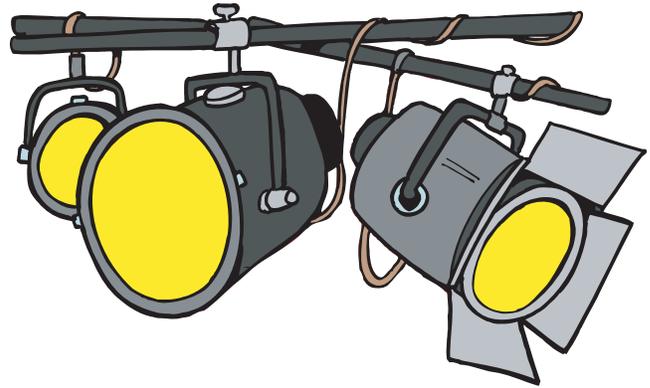
Toys for Tots

new-orleans-la.toysfortots.org/local-coordinator-sites/lco-sites/default.aspx

Operated by the United States Marine Corps Reserve, Toys for Tots remains one of the most well-known charitable operations of the holiday season. They collect new, unwrapped toys and distribute those toys as Christmas gifts to less fortunate children in the community with drop-off sites across the city of New Orleans.



Delta Section



Spotlight on Young Professionals

Do you know a young professional who deserves to be put in the Spotlight? If so, suggest them (or yourself) to be featured in the “Spotlight on Young Professionals.” Help us identify worthy young professionals by submitting your story today for a chance to be featured in The Way Ahead™.

Learn more at <http://www.spe.org/members/yps.php>



Volunteering Looks Good on You.
Engage Support Contribute

Become a Mentor through SPE’s eMentoring Program

eMentoring gives SPE members a way to contribute to the E&P industry by sharing industry insights and practical career advice with young professionals, or by helping university students with academic and career direction. Young professionals also have the unique opportunity to serve as mentors to students.

Join the program today by going to <http://www.spe.org/ementoring/>

Dues Waiver

SPE offers a dues waiver for renewing members who have lost their jobs due to the industry downturn and other circumstances. To qualify, submit a written request by either postal mail or email to service@spe.org

Out of Work?

Check out the Members in Transition Toolkit at <http://www.spe.org/members/transition/>. Learn how to optimize your job search, develop your network, enhance your skills, and thrive in a downturn.