



Delta Section

NEWSLETTER



Volume 34 No. 7

March 2018

REGISTER ONLINE:

<http://connect.spe.org/delta/home>

LOCATIONS:

South Shore: Superdome Holiday Inn
330 Loyola Ave
New Orleans, LA 70112

North Shore: Chevron
100 Northpark Blvd
Covington, LA 70433

Computer: Computer Access Only
Attend from your home
or office

Southshore - \$25

Northshore - \$15

Computer Only - \$5

Please remember: All attendants must be pre-registered to attend the North Shore meeting in the Chevron office.

For questions or comments,
please contact:

Howard Duhon

hduhon@gateinc.com

Programs Chairperson 2017-18



SPE March General Meeting

March 14, 2018

11 am - 1 pm • Holiday Inn Superdome • New Orleans, Louisiana

Coiled Tubing Real-Time Monitoring: A New Era of Well Intervention & Workover Optimization

Speaker: Pierre Ramondenc

Well Intervention Domain Manager • Schlumberger

Coiled tubing is a unique fluid and tool conveyance means used to intervene throughout the entire well lifetime. Its flexibility of use is certainly one of the largest in the oil-and-gas industry, ranging from logging to stimulation to cleanout and even drilling. However, for the longest time, it was only seen as a rudimentary fluid conveyance system, despite its capability to service any well deviation.

With the development of instrumented tools for downhole point measurements and the use of fiber optics for distributed sensing, the recent advent of coiled tubing real-time monitoring has completely transformed this image. The access to live wellbore information—such as pressure, temperature, or flow—along with accurate depth control thanks to casing collar locator and gamma ray sensors have greatly enhanced fluid placement. Meanwhile, the ability to monitor the load, torque, and accelerations the bottomhole assembly is subjected to significantly improves the performance and possibility to use and manipulate downhole tools. Thanks to real-time monitoring, a whole new realm of optimization possibility was discovered.

This lecture describes the various real-time measurements that are available today during coiled tubing interventions and how they can be used to provide the industry with faster, safer, and more efficient operations while maximizing return on investment. A wide range of applications and examples will be discussed. Through them, one will be able to appreciate how coiled tubing has now entered a new era where the limits of operational optimization still have not been reached.

Biography

Pierre Ramondenc is the Well Intervention Domain Manager for Schlumberger, with over 10 years of oilfield experience. He has been involved in all aspects related to coiled tubing real-time telemetry, from tools creation to intervention design and execution to data interpretation. Pierre has been responsible for defining most of the coiled tubing intervention workflows that leverage real-time data. He has authored over 15 technical papers and patent applications on the topic. Pierre holds MS and PhD degrees in Civil and Environmental Engineering from the Georgia Institute of Technology. He serves as technical editor of *SPE Production & Operations Journal*.

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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

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
- Mar. 16 Application Due Date for the 2018 SPE Delta Scholarship Program
See page 6 of this newsletter for more details.

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
- May 15 Core Element's Hands-On STEM Day - Shrine on Airline • Metairie, LA • Gates open 9:30 am

SAVE THE DATE!

SPE 2018 GOLF TOURNEY • March 9, 2018

**Carter Plantation
Springfield, Louisiana**



SPONSORS: Click HERE
for more information about sponsorships

TEAM REGISTRATION: Click HERE
for information and to register your team for the tournament.

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-mxOR1l3TTJVNStInQoiOjVcllHZkRcLzBxSTIYeXFIN2dJNGo5ZSsxVDI4MWx5d1kxRW5jM3VyalgrR2p2bXZCa2tcL0ZpRVd4REZ5RUwrdk5qVXh0NU5ZTA3SWFIZGxjXC9jWm1LNDRnYUVZSitkbHNwTW8ycnlUZ-EZURENGbmpSemk2RnNZa29hNmIsUFwvaTUifQ%3D%3D



from THE CHAIR...



Hello everyone and welcome to March!

As Spring approaches the Delta Section is actively engaged in planning a few exciting events for our current membership. These include the annual Golf Tournament, the Family Fun Eat & Run, annual Awards Banquet, two more general meetings/luncheons, a Chili & Gumbo Cookoff and the Deepwater Symposium.

This month we will be hosting the 2018 SPE Delta Section Golf Tournament at Carter Plantation in Springfield. Shotgun start at 8 AM and concludes at 1 PM. This event raises funds to contribute to seven universities and their engineering departments the Delta Section supports. Look for details in this newsletter on how to sign up and sponsor a team or to be a sponsor. Come out and enjoy some time on the greens.

Mark your calendars for next month's Family Fun Eat & Run scheduled for April 29th. This PIPE (Petroleum Industry Promoting Education) event benefits the three area Children's Museums. This will be held at City Park in New Orleans and will include a 5K Run/Walk and a Kids Dash Run/Walk. Please preview the advertisement in this newsletter for registration details.

Another fun event being planned is a Chili & Gumbo Cookoff. This joint effort between API Delta and SPE Delta will raise funds for scholarship awards to high school seniors and college students pursuing degrees for use in the oil & gas industry. A firm date has not been set yet but the venue location is close to being finalized and the event is targeting May. More to come on this event in the upcoming newsletters.

I would like to take this opportunity to thank our current volunteers who serve on the board, supporting positions and various committees. These individuals take time out of their busy schedules and contribute so much to help support the Delta Section and all of its activities. Activities that enrich our technical knowledge, expand our networks, promote science to children, support education from grade school to the university level, and having some genuine fun through a variety of social functions.

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, network with your industry colleagues, have a good lunch and expand your knowledge.

Cheers,

Daniel A. Durey

Your 2017-2018 SPE Delta Section Chair



SPE-Delta Membership Report

Delta Section

Section # 006

Regional Director: Mr. Joseph H Frantz Jr.

Report as of 12 February 2018

Charts do not include affiliate members.

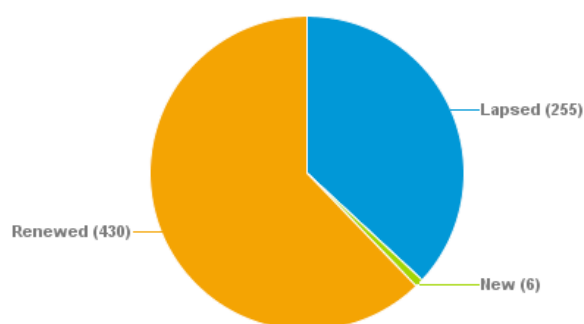
Year to Date: **Members: 436** **Affiliate Members: 16** **Retention: 68.98%** **Growth: -27.33%**

Previous Year End: **Members: 600** **Affiliate Members: 24** **Retention: 78.56%** **Growth: -11.63%**

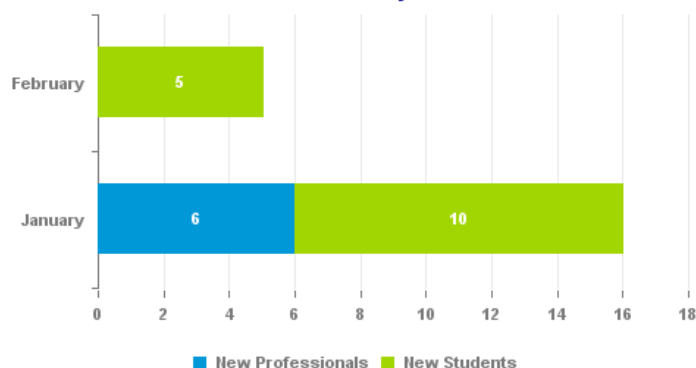
73 Professional Members needed to reach 81% retention goal

182 Professional Members needed to reach 3% growth goal

Professional Membership



New Members by Month



Family Fun Eat & Run

MUSIC, FOOD, DRINKS & MORE!

**SUNDAY
APRIL 29TH
CITY PARK**

RACES FOR ADULTS & CHILDREN : 5K RUN / 1/2 MILE RUN/ WALK

PIPE
PETROLEUM INDUSTRY
PROMOTING EDUCATION

Benefiting three area children's museums:

Registration: NOLArunning.com

Sponsorships: Connect.spe.org/delta

Donation and Food & Beverage sponsorships available.



The 2018 SPE Delta Scholarship Program is now open!

SPE Delta is pleased to offer \$1,000 scholarships to high school seniors and undergraduate students who are pursuing a degree in the oil and gas industry. The program has a focus on the Louisiana region along with nearby Mississippi and Florida schools. Detailed applicant criteria and submission instructions are included in the application form.

For more information and to download an application, please visit our website:

<http://connect.spe.org/delta/scholarships/2018scholarships>

Application Due Date: Friday, March 16, 2018

If there are any questions, please feel free to contact the SPE Delta Scholarship Chair, Ryan Smith, at SPEDeltaScholarship@gmail.com.



Delta Section

SAVE THE DATE
August 27-29, 2018
New Orleans, LA
www.deepwaternola.org

22nd Annual Gulf of Mexico

Deepwater
Technical Symposium

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.



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

CULTURE MATTERS

Simple Rules in a Complex World

By: Howard Duhon, P.E.

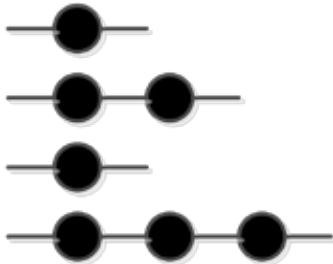
This article first appeared in the
Oil and Gas Facilities Magazine, Dec 2016:
<https://www.spe.org/en/ogf/ogf-main-page/>

Menchen famously noted “for every difficult problem there is a simple solution that is wrong”. Logically speaking, that is undoubtedly true. But what that saying has always meant to me is that there are no simple solutions to hard problems, and that is incorrect. Indeed, it is possible to argue the opposite, that the most complex problems effectively have only simple solutions.

Complexity

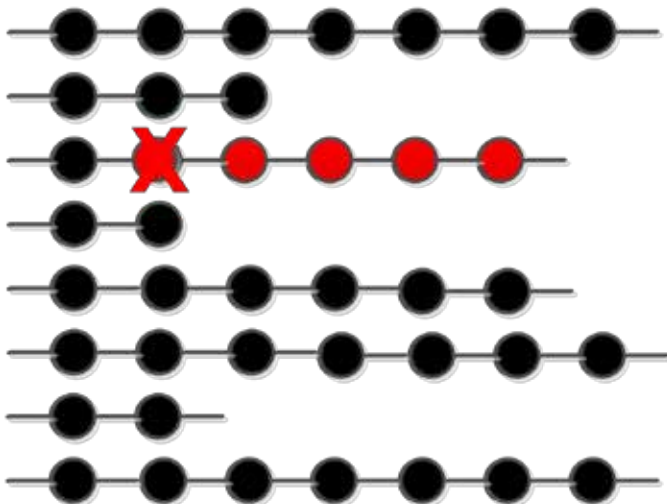
Complexity theory leads us to consider three types of problem:

1. Simple
2. Complicated
3. Complex



SIMPLE

A simple system is one with few parts and little connectivity between parts.

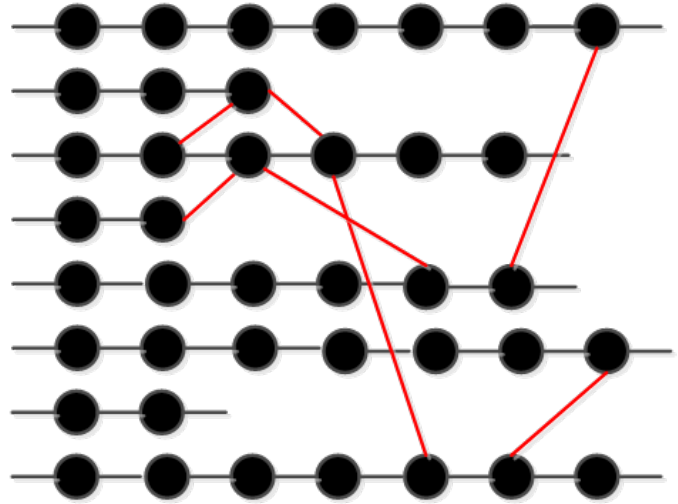


COMPLICATED

A complicated system has more parts and they are more connected. A complicated system may

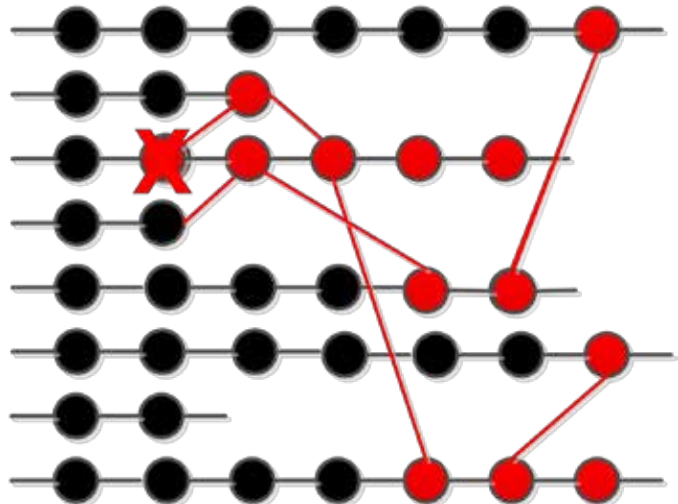
be difficult to accomplish, but at least the system can be decomposed neatly into sub-systems.

The failure of one part affects only that subsystem. Failures in one system don't cascade to cause other subsystems to fail.



COMPLEX (INTERCONNECTED)

Complex and chaotic systems are different in a very important way – significant connectivity between subsystems.



COMPLEX (CASCADING FAILURES)

Now when one part fails, the problem may cascade to cause failures in other subsystems. Behavior is non-linear and much less predictable, perhaps unpredictable.

Complexity and Rules

Our most meaningful problems are complex. Nonlinear interactions between components/actors in complex systems makes the system behavior unpredictable. For dynamic, unpredictable systems, Einstein's view is incorrect. Only simple solutions or simple

rules have a chance in that environment. Gerg Gigerenzer¹ demonstrates the power of simple rules in Simple Heuristics that make us Smart. And Donald Sull and Kathleen Eisenhardt explore the idea in depth in Simple Rules, How to Thrive in a Complex World.

Simple Heuristics

Which city do you think is larger:

1. Houston or Calgary
2. Koforidua or Obuasi
3. Houston or Etayera

You may know for certain that Houston is larger than Calgary. That was an easy one.

You probably know little or nothing about Koforidua or Obuasi and so have no idea which is larger.

It is likely that you had no trouble guessing that Houston is larger than Etayera even though you probably never heard of Etayera. Indeed, I know that you've never heard of Etayera because it doesn't exist; I made it up. You chose Houston because you've heard of it and you naturally assume, in the absence of other information, that a city you've heard of will be larger than one you have not heard of.

Gigerenzer refers to this as the Recognition Heuristic. We can quickly judge which city is larger if we have heard of only one of them. Similarly, we may also assume that a particular water treating process is better than an alternative if we have heard of the one, but not the other.

My favorite simple heuristic from Gigerenzer's book is "Take the Best." According to this heuristic, you can often make good choices by simply choosing the option that most effectively satisfies your number one objective (ignoring all other objectives). This heuristic works frequently because the number one objective is frequently much more important than every other objective. [Cautionary note – this is obviously not an appropriate strategy for many engineering problems where multiple important objectives exist along with multiple stakeholders with different priorities.]

Simple Rules as Strategy

Sull and Eisenhardt's book is aimed at developing effective business strategies in a complex economy. What's most interesting to

me about their book is their characterization of decision rules. They identified six rule types.

Decision Rules:

1. Boundary Rules
2. Prioritizing Rules
3. Stopping Rules

Process Rules:

4. How-to Rules
5. Coordination Rules
6. Timing Rules

Boundary Rules

When time is short it will not be possible to evaluate many alternatives. Boundary rules narrow down the alternatives. Battlefield triage rules are an example. Until WWII, injured soldiers were treated on a first-come-first-served basis regardless of the extent of their injuries. Current practice is to apply very simple rules to make quick diagnoses to sort the injured into:

1. Minor injuries (these can be put on hold and treated later)
2. Seriously injured, but with a good chance of recovery of treated quickly (these are treated now)
3. Mortally wounded who will likely die even if treated (these are treated to minimize pain).

In an amazingly complex environment, simple boundary rules dramatically improved injury survival rates.

Prioritizing Rules

Prioritizing rules are useful when many alternatives survive the screening of the boundary rules, but resources are limited.

The San Diego Medical Center collects and tracks 19 parameters on heart attack patients. They have developed regression models that include all 19 parameters to determine which patients are high risk and which are low risk of another attack. But they don't use these complex models. They use a very simple model consisting of three yes or no questions. This simple model works better than the complex regressions.

This is a good example of use of Gigerenzer's 'Take the Best' heuristic; in this case the three best. Three simple parameters are overwhelmingly more important than the other 16.

Stopping Rules

I had an old car about 20 years ago that broke down on me regularly in the last two years I

owned it. My repair bills in that period greatly exceeded the book value of the vehicle. This seems foolish, but there wasn't a single repair bill that exceeded the book value. Every individual repair decision made sense; together they didn't.

After trading in that car I pondered what I might do in the future to prevent recurrence. Several possibilities came to mind including:

- Trade cars in after 100,000 miles
- Never spend more than ½ the car's value on a repair

These and similar rules would be stopping rules (rules for when to stop owning the car).

How-To Rules

In the early days of radio announcing, Seymour Joly de Lotbiniere wrote some simple rules for providing commentary during a sporting event including:

1. Set the scene
2. Describe the action
3. Give the score regularly
4. Share 'homework' facts and figures
5. Assess the significance of key moments

Sportscasters still use these rules. How-to rules are simplified procedures.

Coordination Rules

Coordination rules guide the interactions between people who work in complex organizations.

A great example of an effective coordination rule was Wal-Mart's instruction to store managers in New Orleans after Hurricane Katrina. Most of their stores were damaged. They had no power. Transportation was impossible. The local communities needed much help. Wal-Mart's local store managers were given this simple instruction:

"Make the best decisions you can with the information available, and above all, do the right thing."

Armed with this simple rule Wal-Mart provided support rapidly while government agencies were stymied by red-tape.

Timing Rules

Timing rules include:

- Specifying actions required when a triggering event happens
- Specifying the speed or rate of accomplishing something

- Specify an action to be performed at a particular time

Timing rules are particularly valuable when used to force an action from a team that might otherwise continue overly-optimizing a 'good-enough' solution.

Why/When Simple Rules Work

Simple rules won't always work obviously. In trying to solve complex problems with simple solutions we are choosing efficiency over accuracy and completeness. In a fast-paced business environment that may be our only choice. We may not have time for exhaustive analysis. Simple rules are necessary for fast and efficient reaction to market changes. Your fast reaction may not be 'optimal', but a slow reaction certainly won't be optimal either. Simple rules give you a chance.

But it's not like any simple rule will work, to be effective. The rules must be:

- Few in number
- Not overly prescriptive
- Tailored to the environment (ideally applied to a single, well-defined oft-repeated scenario)

Applying Simple Rules to Create Strategy

1. Figure out what moves the needle

What are your goals? What are you trying to accomplish?

2. Choose a bottleneck

What specific thing is preventing success? What specific change would have the most impact?

3. Craft the rules

Consider each rule type above. Form a team to generate ideas. Try them in practice. Learn and improve.

Conclusion

In a dynamic, competitive, high interconnected (complex) world only simple rules have a chance of working. He/she who has the best simple rules will win.

References

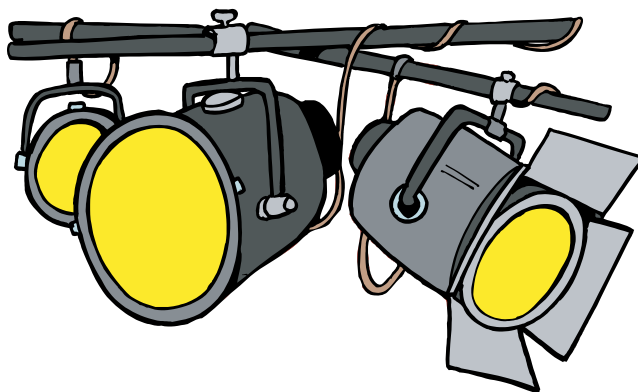
Donald Sull and Kathleen Eisenhardt, 2015, *Simple Rules, How to Thrive in a Complex World*, Houghton Mifflin Harcourt, New York, New York

Kathleen Eisenhardt, and Donald Sull, "Strategy as Simple Rules," Harvard Business Review, January 2001

Gerd Gigerenzer, Peter Todd, ABC Research Group, 1999, *Simple Heuristics That Make Us Smart*, Oxford Press



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.