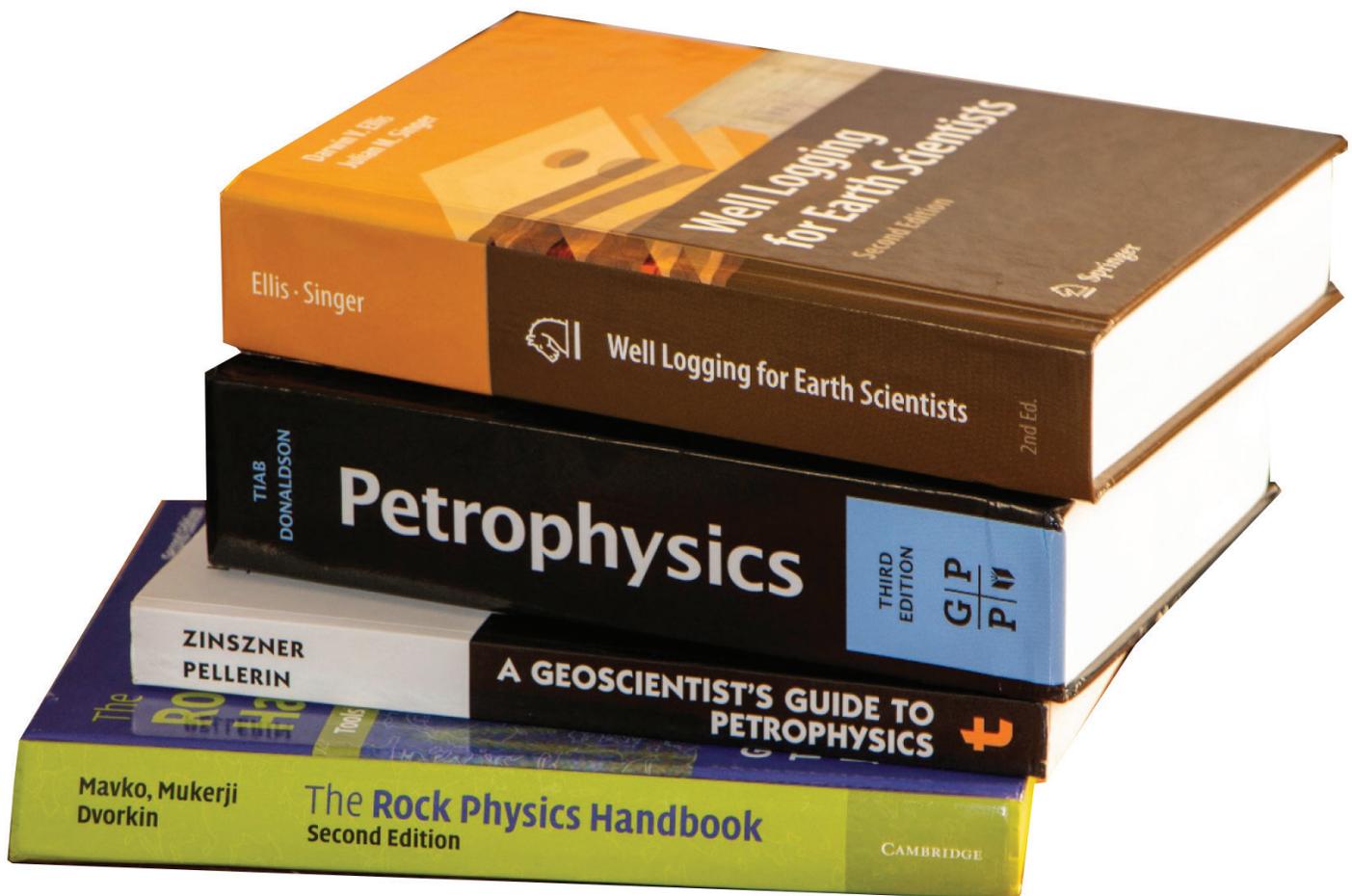
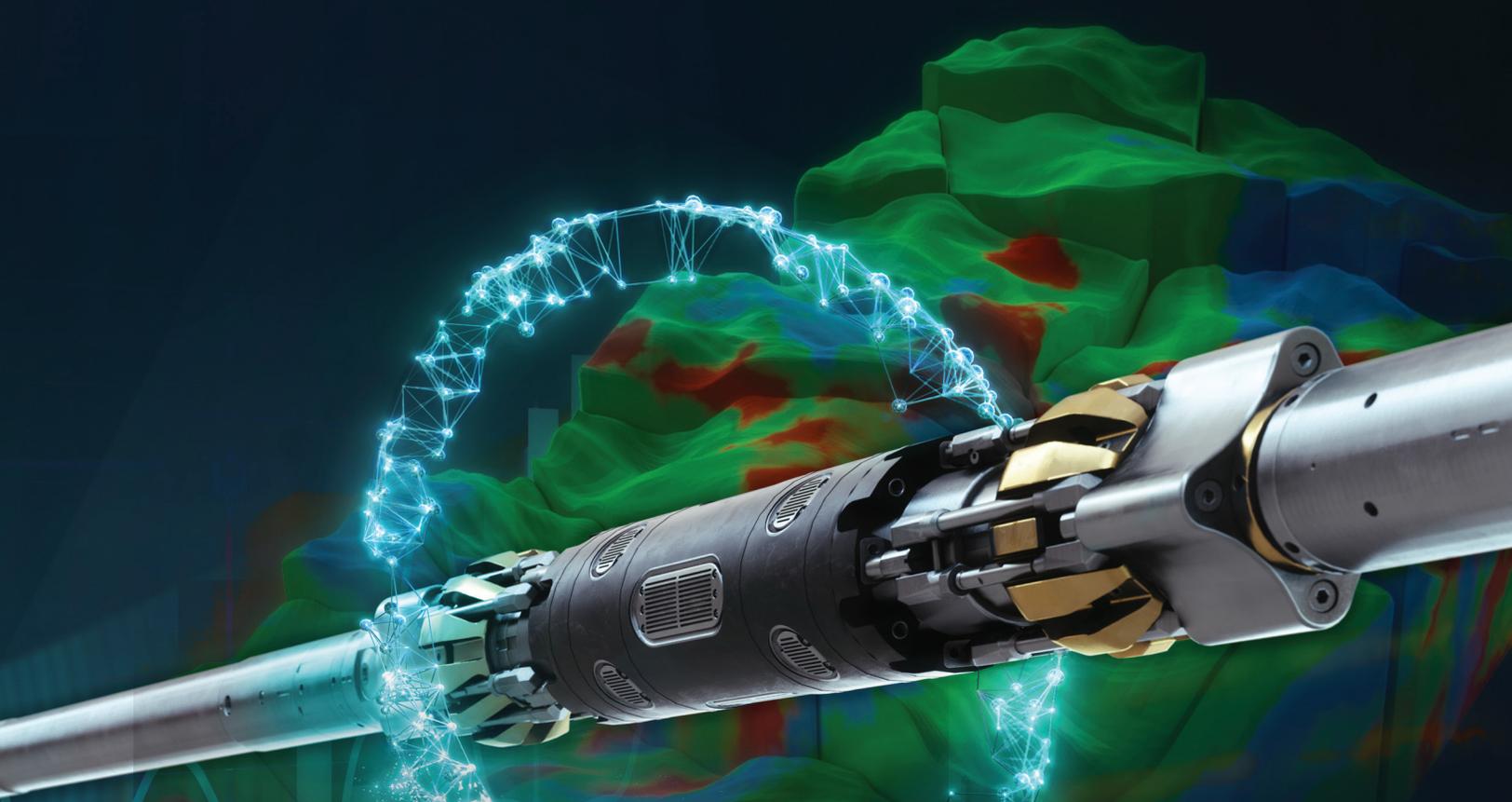


THE SPWLA TODAY

NEWSLETTER

My Library





Experience your reservoir like never before.

The new **Ora intelligent wireline formation testing platform** delivers unprecedented reservoir intelligence by integrating downhole digital hardware with automation, intelligent planning, operations control, and contextual insights.

You'll efficiently evaluate your reservoir—even in conditions previously impossible to assess—with laboratory-accuracy measurements and deep transient testing, all in real time and in context to maximize asset performance.



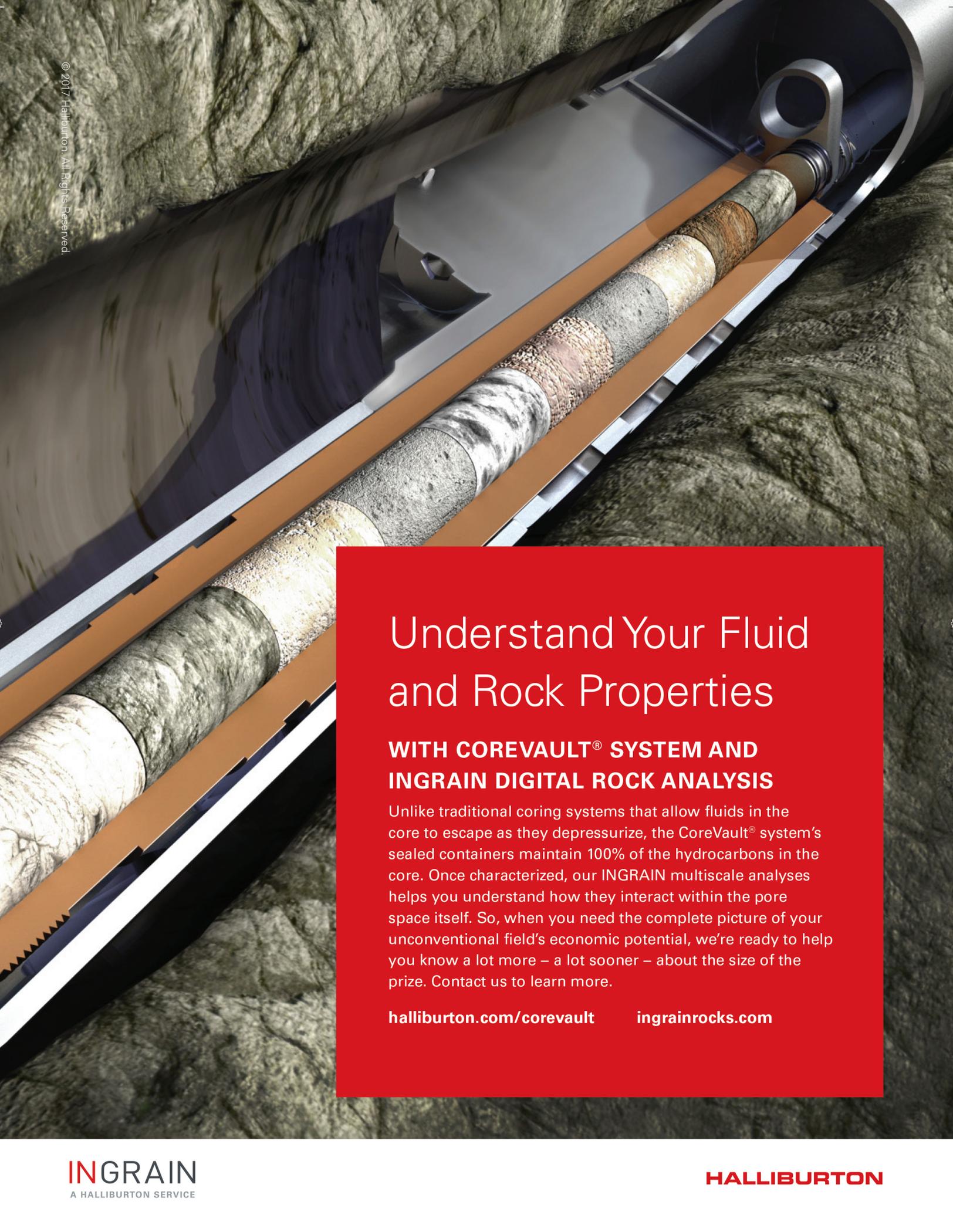
Be in control. Be sure. Now.

Ora

**Intelligent wireline formation
testing platform**

Learn more at
slb.com/Ora

Schlumberger



Understand Your Fluid and Rock Properties

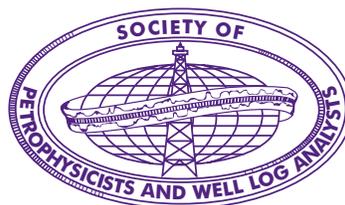
WITH COREVAULT® SYSTEM AND INGRAIN DIGITAL ROCK ANALYSIS

Unlike traditional coring systems that allow fluids in the core to escape as they depressurize, the CoreVault® system's sealed containers maintain 100% of the hydrocarbons in the core. Once characterized, our INGRAIN multiscale analyses helps you understand how they interact within the pore space itself. So, when you need the complete picture of your unconventional field's economic potential, we're ready to help you know a lot more – a lot sooner – about the size of the prize. Contact us to learn more.

halliburton.com/corevault

ingrainrocks.com

Calendar of Events	05
From the President	06
Board of Directors Reports	
Up Next	08
Tech Today.....	09
Learning Opportunities	10
Regional Understandings	
North America 1	11
Latin America	12
Middle East and Africa	13
From the Editor	14
My Library	15
The Bridge	
An Interview With Olabode Ijasan, Research Petrophysicist With ExxonMobil	18
An Interview With Christine Kuss, Project Petrophysicist With ExxonMobil	20
SPWLA Holidays Celebration Happy Hour December 2019.....	22
Happy Hour Announcement.....	24
Proposed Slate of Candidates for Board Members 2020–2021/22	25
Announcement of 1st PDDA Contest	26
Giving Credit Where Credit is Due	27
Chapter News	29
In Memoriam	
Louis Magne.....	48
New Members	49



**The Society of Petrophysicists and Well Log Analysts
Board of Directors 2019–2020**



President
Jesus Salazar
Marathon Oil Company
Houston, TX, USA
(+1) 512-785-8979
President@spwla.org



**VP Finance, Secretary,
and Administration**
Doug Patterson
Baker Hughes, a GE Company
Houston, Texas, USA
(+1) 713 879-4056
VP-Finance@spwla.org



President-Elect
James Hemingway
Consultant
Manitou Springs, CO, USA
(+1) 281-433-5170
President-Elect@spwla.org



VP Publications
Tom Neville
Schlumberger
Brisbane, Australia
(+61) 416-672-392
VP-Publications@spwla.org



VP Technology
Michael O'Keefe
Schlumberger
Bucharest, Romania
(+40) 739-855-658
VP-Technology@spwla.org



VP IT
Lin Liang
Schlumberger-Doll Research
Cambridge, MA, USA
(+1) 617-335-4469
VP-InfoTech@spwla.org



VP Education
Katerina Yared
SM Energy
Highlands Ranch, CO, USA
(+1) 720-431-7482
VP-Education@spwla.org

REGIONAL DIRECTORS



N. America 1
Adam Haecker
Continental
Oklahoma City, OK, USA
(+1) 979-587-1061
Director-NA1@spwla.org



Middle East/Africa
Shouxiang (Mark) Ma
Saudi Aramco
Dhahran, Saudi Arabia
(+966) 3-874-5078
Director-MEA@spwla.org



N. America 2
Kelly Skuce
Core Petrophysical Consulting
Calgary, Canada
(+1) 587-228-0203
Director-NA2@spwla.org



Asia and Australia
Jennifer Market
MPC Kinetic
Perth, Australia
(+1) 713-302-8325
Director-Asia-Aus@spwla.org



Latin America
Nadege Bize-Forest
Schlumberger
Rio de Janeiro, Brazil
(+55) 21-97454-8772
Director-LA@spwla.org



Executive Director
Sharon Johnson
SPWLA
Houston, TX 77017
(+1) 713-947-8727
sharon@spwla.org



Europe
Craig Lindsay
Core Specialist Services Ltd.
Aberdeenshire, United Kingdom
(+44) 7530-040117
Director-Europe@spwla.org



Managing Editor
Stephen Prenskey
(+1) 301-593-4966
sprenskey@gmail.com

Publication Manager
Anna Tarlton
InkSpot Printing
2301 S. Shaver
Pasadena, TX 77502, USA
(+1) 713-472-1100
orders@inkspotprinting.com

CALENDAR OF EVENTS

January 8–9, 2020

Workshop – Data-Driven Methods for Petroleum Engineering and Geoscience
Presented by Dr. Siddharth Misra, Assistant Professor, Texas A&M University
SPWLA Frank Millard Training Center
Houston, Texas
www.spwla.org

March 1–5, 2020

SPWLA Bangkok – Asia Pacific Regional Conference
Theme: “Petrophysics From Exploration to Brownfield: The Impact of Formation Evaluation on Oil and Gas Field Development Decisions”
Bangkok, Thailand
www.spwla.org

June 20–24, 2020

SPWLA 61st Annual Logging Symposium
Banff, Alberta, Canada
www.spwla.org

About the Cover

“Check out *SPWLA Today*’s latest column—My Library.”

Notice: Articles published in SPWLA Today are not subject to formal peer review but are subject to editorial review and are verified for technical consistency and relevance.

From the President



Jesús M. Salazar
2019–2020 SPWLA President

I hope everyone had a fantastic holiday break, spending quality time with friends and family. As we enter a new decade, we should take advantage to start those projects that we've always been passionate about. I like to say that the experiment that would not work is the one that we never made. I'm not only talking about work but also about personal life, hobbies, family endeavors, etc.

Our most recent board meeting was held at the SPWLA headquarters in Houston and via teleconference, given the diverse work location of our directors. We had a busy session discussing and approving various items brought to our attention. One of the most important of them was approving the founding bylaws and charter agreement of the Hydrocarbon Reserves SIG (Special Interest Group). The vision of the Reserves SIG is "to be the reference for Petrophysicists and Log Analysts in the definition and estimation of hydrocarbon resources while providing minimum standards, norms and guidelines for the analysis of petrophysics-related data used as input in the reserves and resources estimation." Several of the most important inputs for reserves estimations come from petrophysics. Does the famous SoPhiH mapping ring a bell? I want to thank Past

President Dr. Luis Quintero and Houston SPWLA VP Javier Miranda for spearheading the foundation of this important group. I can't stop saying that everything we do at SPWLA is owed to our volunteers.

We also approved the foundation of a new SPWLA Chapter, the Central European Formation Evaluation Society (CEFES), giving a home to petrophysicists in Romania, Austria, Hungary, and other nearby countries. I want to thank Jorge Gonzalez Iglesias and our VP Technology Michael O'Keefe for taking the initiative in creating this chapter. Another couple of chapters have been actively updating their bylaws to adhere more closely to the Society recently updated SPWLA bylaws, which includes diversity and antidiscrimination clauses. We approved the updated bylaws for SPWLA France and for the Society of Core Analysts (SCA), SPWLA's Chapter-at-Large. I really appreciate the effort of the board members of each one of these chapters. Another approved item was the final slate of candidates for the 2020 SPWLA elections. You can view the nominees in this issue in an article by Past President Zach Liu. Sharon will send an email in a few weeks with candidates' statements, a request for open self-nominations, and later a ballot. Hope this year we improve the turnout of members casting their ballots. Remember that you need to be a paying member to have the privilege of voting, please renew your membership ASAP.

Recently, the board unanimously approved the establishment of the SPWLA Incentive Bonus Plan for its staff. This bonus plan is based on specific key components that are seen by the Board as being key to the strength and health of the Society. The goals selected are linked to the many activities our staff perform, including symposium organization, membership coordination, and advertising. We have set corresponding metrics upon which the bonus will be based. These components and their metrics allow a clear understanding as to their probable bonus as the year progresses, thus permitting transparency to the bonus amount. In future years, as deemed appropriate by the Board, the goals with their associated metrics and weighting factors may be adjusted. The SPWLA Board wishes to thank our staff for their dedication and hard work, which keeps our Society moving forward.

The SPWLA 61st Annual Logging Symposium is less than 6 months away, please book flights and hotels in advance, you don't need to wait till registration is open to plan your trip. By this time, you should know whether your abstract was accepted. It was a very competitive ranking process where everyone was given a fair chance. But regardless of the outcome, please make plans to come to Banff. There will be plenty of learning opportunities from workshops and field trips to the always engaging technical sessions and posters. Needless to say, networking with industry and academia peers, is perhaps one of the most rewarding activities we do during the symposium. So, don't miss it. Speaking of networking, during our last social event of 2019 in the Houston area we had four guys who have held the Society President's gavel. I'm attaching a nice picture.



Four SPWLA Presidents meet: (left to right) me, and Past Presidents Philippe Theys, Randall Cooper and Zhipeng Zach Liu.

Stay connected my friends.

Jesús M. Salazar, Ph.D.

salazarjm@utexas.edu

linkedin.com/in/spwla-socialmedia-454464105

Instagram @chichosalazarpetro



James Hemingway
2019–2020 SPWLA
President-Elect

Hello Fellow Petrophysicists!!

I hope everyone has had a happy and safe holiday season. No doubt everyone is eager to get back to work now that the distractions of holiday parties are out of the way 😊

My activities for the past couple months have been primarily associated with selecting a venue for the 2021 symposium. As mentioned in my previous letter, the accepted rule of US vs. non-US venues does not specifically apply here since the 2020 symposium is being held in Canada, which is only sort of non-US.

To give everyone an update, we have had three offers to host the 2021 symposium: Boston, Belgium and China. Boston had an excellent proposal for 2020 but was not chosen, as it would have been two US venues in a row. Belgium has an excellent proposal for a venue in Lommel that has organized by multiple European SPWLA chapters, and China has proposed a venue in Chengdu. I guess the good news is that with all this interest we should be in good shape for years to come as far as opportunities for future locations are concerned. We hope to reach a decision in the next few weeks.

Something that has been important to me for the past several years is the direction our profession has been going. New technology, new techniques and more options for acquiring data have all been progressing in the right direction. But there is an encroaching trend to skip formation evaluation almost entirely in the unconventional markets. I do hope that we can start to see some new ideas being published that will help to reverse this trend.

I'm looking forward to seeing everyone in Banff.

Best Regards,
James Hemingway, P.E.

President-Elect@spwla.org
jlhemingway@netscape.net
elanmn@outlook.com
+1 281 433 5170

23 Quai du Genie
95220 Herblay
FRANCE
+33 6 25 16 57 19



Michael O'Keefe
2019–2020 VP Technology

Happy New Year to all SPWLA Members!

I hope you have enjoyed a good holiday break! But for the rest of us who have been working on active wells over the New Year, my empathy goes out to you. After spending more than a decade in the field as a wireline engineer, then another two decades on real-time interpretation, I have more than a slight suspicion that the drilling departments actively massage their timetable so that *they* get the big day off—whilst us well-log analysts are actively engaged in real-time operations or petrophysical Interpretation. I have seen it happen over and again to the point where it is no longer a mere coincidence 😊. For our office-based members who were able to take these last weeks off, consider yourself fortunate to spend this time with your family and loved ones.

My Technical Committee worked diligently throughout last November and December, to score and rank each of the 384 abstracts received for the 2020 Symposium in Banff.

It has not been easy. The technical standard for most abstracts was very high this year, and with a record number of submissions. As a result, we have unfortunately had to turn away many promising papers. If you have not yet received an email from me on your submission, please do not take it personally. Competition was tough, and there were many diverse criteria in our ranking system. This year we have the largest Technical Committee in SPWLA history—who have judged these submissions anonymously. But in the end only the top 25 to 35% made it through. It is true that our annual SPWLA Symposium is—by far—the most coveted global conference for well logging and petrophysical interpretation.

The New Year brings the promise of a new upswing, with indications of many new wells to drill and Interpret—keeping our highly specialized skills in demand for a growing business. I hope to see many of you in Banff this coming June.

Best Regards,
Michael O'Keefe.
Vice President Technology

Learning Opportunities



Katerina Yared
2018-2020
Vice President Education

Happy New Year, Dear SPWLA friends!

I hope the New Year started off on a great note for you and will continue to bring you great opportunities for growth and prosperity all through 2020!

I want to thank everyone for attending and actively participating at our monthly webinars I hope you continue to enrich our training offerings with your attendance and contributions.

I want to take this opportunity to also thank our Global Distinguished Speakers and our Distinguished Speakers for taking the time to travel to visit chapters and for presenting at our monthly webinars. If you want to get any of our Distinguished Speakers to come visit your chapter, please find the list of speakers and their contact information on our www.spwla.org webpage! Email me if you have any questions (vp-education@spwla.org).

Our next Distinguished Speaker webinar speakers are as follows:

Date	Speaker	Title
January 14 and 15	Zikri Bayraktar (Schlumberger-Doll Research)	Quantitative Interpretation of Oil-Base Mud Microresistivity Imager Via Artificial Neural Network
February 12 and 13	Nigel Clegg (Halliburton)	The Final Piece of the Puzzle: 3D Inversion of Ultradeep Azimuthal Resistivity LWD Data
March 3 and 4	Nishank Saxena (Shell)	Digital Rock Technology for Accelerated RCA and SCAL: Application Envelope and Required Corrections
April 14 and 16	Yegor Se (TengizChevroil, Chevron)	'Log-Soak-Log' Experiment in Tengiz Field: Novel Technology for In-Situ Imbibition Measurements to Support an Improved Oil Recovery Project

Make a note in your calendars and don't miss them!

Our SPWLA 2020 Spring Topical Conference is going to be dedicated to the topic of "Unconventional Reservoir Petrophysics" and will be supported by all our SIGs. Look out for more information about it in your inbox and on our social media channels coming up soon!

STUDENTS LISTEN UP!

Our International Student Paper Competition (ISPC) is in full swing. Deadlines are fast approaching so don't miss a chance to be able to represent your university and compete at the SPWLA 61th Annual Logging Symposium ISPC on Sunday, June 21, 2020. The SPWLA offers \$500 to eligible SPWLA student chapters to have an internal paper competition and select the top candidates to send to the ISPC at the Symposium. If you are a SPWLA student member you don't want to miss this unique opportunity to participate. You can find more information about the ISPC at: <https://www.spwlaworld.org/student-papers/>.

Do you feel the desire to share your knowledge with the rest of the world? Contact me and we can see how we can help you. Teach a class in person or have people attend your training classes via web conference. We can make it happen!

Since we are in the membership renewal time of the year, I would like to personally thank everyone who continues to be a loyal SPWLA member and welcome all our new members! Let me know how I can make your SPWLA membership more valuable to you.

Respectfully yours,

Katerina Yared
VP Education 2018–2020

Regional Understandings – North America 1



Adam Haecker
2018–2020 Regional Director
North America 1

To All the World's Petrophysicists,

Merry Christmas, Feliz Navidad, Happy Hanukkah, Eid Mubarak etc.!

There is a lot going on at the SPWLA. It is that time of year again when chestnuts are roasting over an image log or people are taking NMR measurements on a yule log. I hope everyone has a pleasant holiday and avoids getting laid off. Unfortunately, there have been a string of layoffs right before the holidays here in midcontinent US. Everyone at the SPWLA will do their level best to help those recently displaced. Also, don't forget that you can request hardship membership if you are recently without an employer. Contact the office for details.

Here are some things that I am working on currently to improve the Society.

1. Finding a new president for the Permian Basin Chapter (if you know anyone or you yourself are interested please contact me or the business office).
2. Helping the Texas A&M student chapter get setup.
I want to thank Amir Rangwala and KBIZZ for their most generous contribution to help the students at the Texas A&M Chapter get memberships. Getting started is always tough.
3. Working with the OKC chapter to move their venue. Starting in January they will be meeting at VAST (pictured below). VAST is a restaurant in Devon Tower, the tallest building in Oklahoma. The restaurant is about 500 feet above the city and a premiere dining establishment. Luckily, our chapter president works at Devon Tower and he was able to get a deal on the pricing.
4. Helping out the Tulsa Chapter, as needed. They are doing so well. I am super excited about their progress to date. Libbi and her team are some of the best in the whole society.
5. Working on my position statement for the next election, details to come on which office I am running for, stay tuned.



View from VAST restaurant at sunset.

Regional Understandings – Latin America



Nadege Bize Forest
2018-2020 Latin America
Regional Director

Dear SPWLA Members,

At the eve of 2020, I would like to apprise you of Latin America SPWLA's activity for 2019. I'm first pleased to announce that our SPWLA community has widened with the opening of the professional Mexico SPWLA Chapter in 2019, and the Columbian Chapter (Oriente) has a proposed opening in 2020. Henceforth, Latin America will have three active professional chapters, in Argentina, Brazil and in Mexico and two student chapters, in Brazil and Columbia.

Special thanks for the dynamism, enthusiasm and SPWLA commitment of our Latin American student Chapters:

Brazil UFRJ Student Chapter – Organizing year-round regular lab visits to Petrobras and technical presentations with academic and Oil & Gas industry speakers. They also organized the "3rd Petroleum Geology Week," held in September 2019. This event included short courses presented by academic and industry professionals on formation evaluation topics (log processing and Interpretation).



SPWLA UFRJ Student Chapter Organizing committee for the 3rd Petroleum Geology Week.

Columbian UIS SPWLA Student Chapter – Organizing lecturers and the 1st Student Paper Competition. Three UIS students were selected to present their work at Houston during the SPWLA 60th Annual Logging Symposium and Vanessa Rios won the contest in the undergraduate category. Congratulations!



UIS Student Chapter Organizing the 1st Student Paper Competition for participation in the annual conference at the 2019 SPWLA Annual Symposium in Houston.

Finally, I would like to thank all Chapter board members in Latin America and worldwide for volunteering and spreading the SPWLA spirit within our Oil & Gas industry, professional communities and our universities. Many thanks for their commitment to the SPWLA.

Yours sincerely,
Nadege Bize Forest
director-la@spwla.org

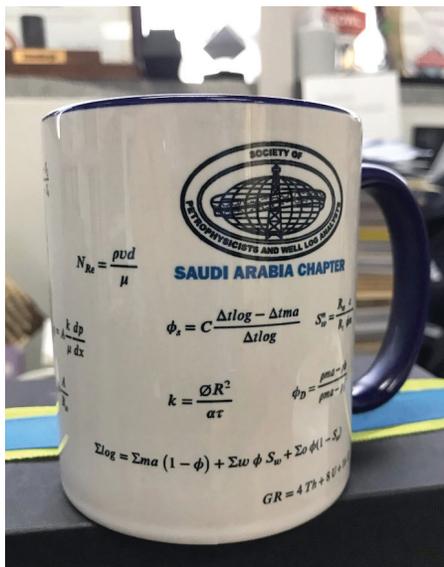
Regional Understandings – Middle East and Africa Region



Shouxaing "Mark" Ma
2019–2020 MEA
Regional Director

Dear Colleagues,

Have a Cup of Petrophysics!



Petrophysics? What is it?

The August 2015 Technology Focus column in SPE's *Journal of Petroleum Technology* featured Formation Evaluation. In that article I define petrophysics basically to include studies in the following four areas: resource exploration, field development, reservoir surveillance, and core analysis. You are welcome to read the brief one-page article at <https://www.onepetro.org/journal-paper/SPE-0815-0076-JPT> and send comments.

With this understanding, how do you evaluate professionals claiming to be petrophysicists? When you meet a petrophysicist, what do you think of this person's professional capability?

There is an initiative within the society to develop a Petrophysicist Certification program. What should it look like and at what level (entry, intermediate, or mastery) should a petrophysicist be evaluated?

Please let us know what you think while you take a break to have a cup of petrophysics!

S. Mark Ma
SPWLA Director – Middle East and Africa Region



Tom Neville
VP Publications 2019–2020

Greetings and welcome to the January 2020 issue of *SPWLA Today*!!

Firstly, I would like to take this opportunity to wish all of you, and those you care about, a safe, happy, and prosperous new year.

As I have mentioned in previous columns, the aim of *SPWLA Today* is to inform, educate, and, hopefully, entertain. And *SPWLA Today* is still evolving as we try new ways of meeting these aims. In this issue you will find a new column—My Library. I share four books that have been the foundation of my technical library for the past 10 years or more. If you would like to share your favorite books or other references, we would welcome your contributions. In this issue you will also find a letter from Dave Kennedy, reaching out to the membership of SPWLA for help with tracking down some history. Not only is *SPWLA Today* a forum for our Society to communicate with the membership, but it is also a forum for our members to communicate with each other, and we hope you will take advantage of this in the future.

Please remember that *SPWLA Today* is your publication and we want to ensure that it provides real value to you as members of SPWLA. Therefore, as always, we welcome your feedback about what we are doing right and what we are doing wrong, and what else we should be doing.

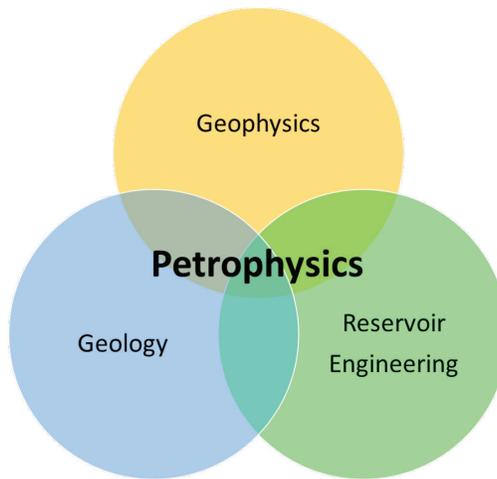
Tom Neville
Vice President Publications
tom.neville@slb.com



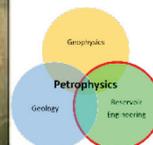
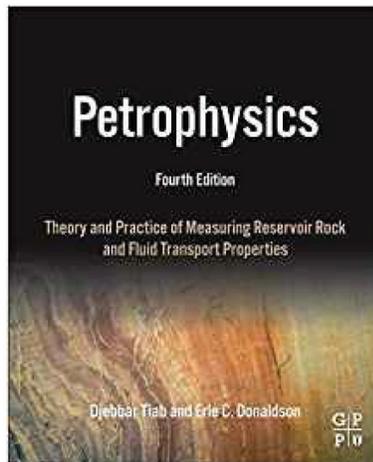
Tom Neville
Petrophysical Advisor,
Schlumberger
tom.neville@slb.com

I have conducted quite a lot of training during my career, and many of my students have asked for recommendations on reference books that can help them develop as petrophysicists. I usually recommend the four books that I have constantly referred to over the years, either to answer a specific question or just to leaf through during a couple of free hours. And, although most of my library is electronic these days, I have consistently maintained hard copies of these four books, either on my desk or otherwise close at hand, for when they are needed.

Before listing these books, I usually preface my recommendations with some perspective on what I think petrophysics is all about, so that the recommendations have some context. If I can be so bold as to rephrase Gus Archie's definition of petrophysics, it is the study of the physical properties that describe storage and flow capacity of rocks, with these properties controlled by the geometry of the pore system that develops in the rocks as a function of their geological history. Therefore, petrophysics stands firmly at the intersection of geology and reservoir engineering. But petrophysics also involves quantifying these properties. If we have physical samples of rock, we can directly measure any petrophysical property we want, however this is not the norm. Instead, we normally quantify petrophysical properties using indirect (borehole) geophysical measurements, so petrophysics includes a healthy dose of geophysics as well. In fact, petrophysics sits at the intersection of all three of these disciplines, and a petrophysicist needs a firm grounding in each of them. The books that have become the core of my technical library, and the books that I usually recommend when asked, have resulted from this view of petrophysics.

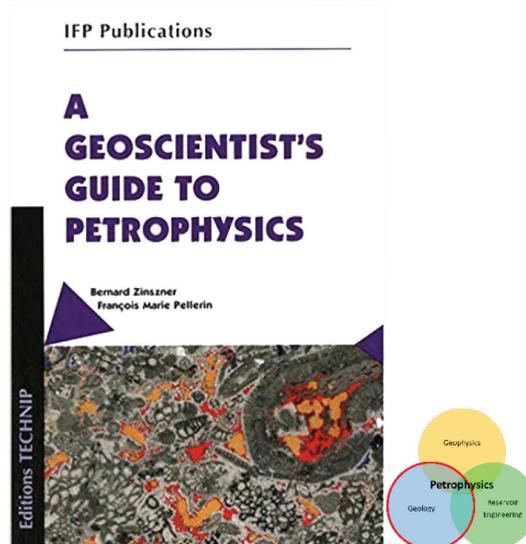


Petrophysics



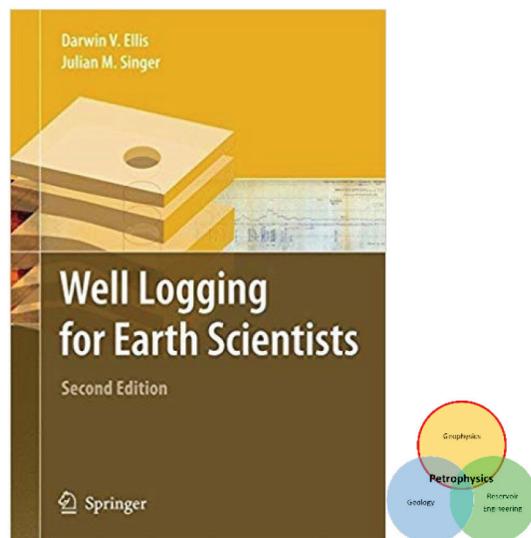
Now in its fourth edition, *Petrophysics* by Djebbar Tiab and Erle Donaldson has become a standard in our industry. I forget where, but I recall once seeing an earlier edition of this book described as a worthwhile successor to the classic *Petroleum Reservoir Engineering: Physical Properties* by James Amyx, Daniel Bass, and Robert Whiting, and so it should come as no surprise that this book approaches the subject of petrophysics very much from a reservoir engineering point of view. The book contains many worked examples that help the reader apply concepts that are covered in the text.

A Geoscientist's Guide to Petrophysics



A Geoscientist's Guide to Petrophysics by Bernard Zinszner and François Marie Pellerin is by far the hardest of these four books to locate, being no longer in print, but it is definitely worth purchasing if you come across a copy. Maybe it's a French thing, but apart from the works of Oberto Serra there are few publications that approach petrophysics from such a decidedly geological perspective, and as such this book provides an interesting and useful counterbalance to *Petrophysics*.

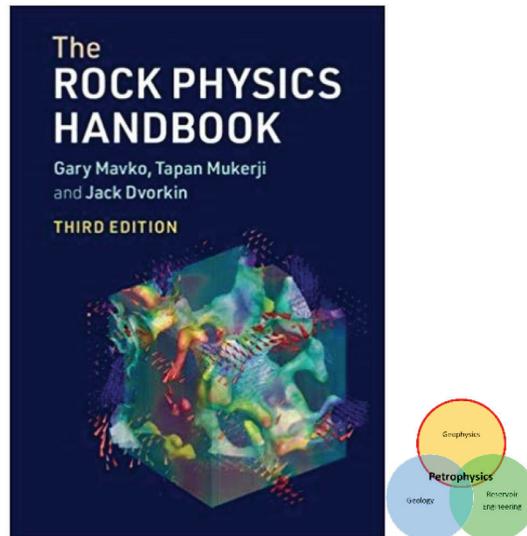
Well Logging for Earth Scientists



Together, *Petrophysics* and *A Geoscientist's Guide to Petrophysics* provide a comprehensive overview of the theoretical concepts behind petrophysics and provide a good coverage of techniques for the direct measurement of rock properties.

However, as I mentioned above, much of the work we do involves evaluating rock properties using indirect measurements such as wireline and LWD logs. Log analysis is a key subdiscipline of petrophysics, and *Well Logging for Earth Scientists* by Darwin Ellis and Julian Singer is, in my opinion at least, the most complete and comprehensive discussion on the topic of tool physics and log analysis, particularly the expanded second edition. Originally developed as a textbook, each chapter is accompanied by exercises that would challenge even experienced petrophysicists and log analysts.

The Rock Physics Handbook



Many people in our industry consider petrophysics to be a niche subject, however lurking between petrophysics and geophysics is the even more niche subject of rock physics. *The Rock Physics Handbook* by Gary Mavko, Tapan Mukerji, and Jack Dvorkin is one of the key references in this field and is written in a very practical style. Many petrophysicists will overlook this book, considering it to be outside of their scope of interest, however anyone working with sonic logs who wants to go beyond the Wyllie time-average equation will find this book eye-opening, and it is also a useful introduction to the petrophysical applications of effective medium models, which are of value in describing many transport properties, such as resistivity and permeability, as well as acoustic behaviour. The third edition of this book will be coming out in early 2020.

So, that is my answer to the question of what books should every petrophysicist have in their library. What do you think? Do you have a favorite book or books that you would like to share with other SPWLA members? Would you like to see a particular book reviewed? Please send your suggestions or contributions to VP-Publications@spwla.org.

URLs for the books mentioned in this article are below:

Petrophysics

Amazon: <https://www.amazon.com/Petrophysics-Measuring-Reservoir-Transport-Properties/dp/0128031883/>

Publisher: <https://www.elsevier.com/books/petrophysics/tiab/978-0-12-803188-9>

A Geoscientist's Guide to Petrophysics

Amazon: <https://www.amazon.com/Geoscientists-Guide-Petrophysics-IFP-Publications/dp/2710808994/>

Well Logging for Earth Scientists

Amazon: <https://www.amazon.com/Logging-Earth-Scientists-Darwin-2008-08-11/dp/B01JXQ9ZFC/>

Publisher: <https://www.springer.com/gp/book/9781402037382>

The Rock Physics Handbook

Amazon: <https://www.amazon.com/Rock-Physics-Handbook-Gary-Mavko-dp-1108420265/dp/1108420265/>

Publisher: <https://www.cambridge.org/core/books/rock-physics-handbook/667464585A2B42E10B345B0217D8442F>

JANUARY 2020

2020 Steering
Committee

Editors

Elton Ferreira

Kanay Jerath

Mathilde Lucyx

Javier Miranda

Senior Editor

Siddharth Misra

SPWLAYP@SPWLA.ORG

In this edition:

*An Interview With
Olabode Ijasan*

*An Interview With
Christine Kuss*

*Happy Hour
Announcement*

An Interview With Olabode Ijasan



Olabode Ijasan

Olabode Ijasan received MSc and PhD degrees in petroleum engineering from the University of Texas at Austin. His doctoral research work involves well-log interpretation focused on nuclear logs and computational petrophysics. He joined ExxonMobil in 2013, and is currently a research petrophysicist. He is a recipient of Best Paper Award at the 2014 SPWLA 55th Annual Logging Symposium. His expertise includes NMR petrophysics, borehole nuclear physics, petrophysical inversion, and integrated petrophysical/geophysical interpretation.

How did you start your career in petrophysics and formation evaluation?

I received a PhD in formation evaluation/petrophysics from The University of Texas at Austin focusing on nuclear log modeling/interpretation and petrophysical inversion. After graduating, I joined the FE/petrophysics core group in ExxonMobil.

When did you start working on the Guyana project? What was your involvement/responsibilities?

I became involved with the Guyana project in 2014 during the planning and design phase of the Liza-1 exploration discovery. I was part of the multidisciplinary exploration team where my responsibilities included design and execution of the FE programs toward meeting the well objectives. I was responsible for real-time and post-drill petrophysical evaluations critical to assessment of the geologic discoveries and informing follow-up opportunities.

Did you observe any significant differences compared to the projects you worked on previously?

The main difference was the high visibility of the project for ExxonMobil. This was a great opportunity for our team and because of the success of the initial exploration, we had flexibility to do more in terms of data acquisition and advanced logging programs.

How do you convey the importance of petrophysics/formation evaluation on to your colleagues from other disciplines when collaborating on the project?

Accuracy and uncertainty evaluation of petrophysical interpretation are critical for assessment of hydrocarbon volumes and reserves. This is a key argument that must be communicated to the multidisciplinary team to emphasize the importance of high-quality data acquisition, QAQC, and petrophysical interpretation in constraining hydrocarbon reserves, especially in deepwater exploration discoveries.

Which petrophysical or formation evaluation concepts/workflows/methods did you find most useful and impactful for your work on Guyana?

Integration of advanced logging (including NMR, tester fluid ID, etc.) with core measurements to determine reservoir quality, capillary-height controls, seal characterization, and impact of shale properties on geophysical responses.

An Interview With Olabode Ijasan

What was critical to your team's success while working Guyana?

Communication with our partners, regarding logistical and technological aspects, was critical to our success.

What is your advice to those starting their careers in the oil industry, especially to those starting in the areas of petrophysics and formation evaluation?

Remain open minded, keep up to date on new petrophysical techniques, read all petrophysics journal publications.

An interview With Christine Kuss



Christine Kuss

Christine Kuss began her career with ExxonMobil in 2009 and has been working as a petrophysicist since 2011. She graduated from Oklahoma State University with BS degrees in both Biochemistry and Geology and a MS in Geology. She resides in Houston with her husband and two young children.

How did you start your career in petrophysics and formation evaluation?

I started with Exxonmobil in 2009 and joined the Formation Evaluation skill area in December of 2011. I was fortunate enough to have some exposure to well-log analysis during college at Oklahoma State University. Most of what I know is due to all of the great mentors and peers I have worked with along the way.

When did you start working on the Guyana project? What is your involvement and responsibilities?

I began working the Guyana project in May 2019. My work includes evaluating recent appraisal wells, providing inputs into the ongoing geologic model builds and planning/ executing logging programs for upcoming appraisal wells.

Can you share some information regarding ExxonMobil future plans for Guyana?

ExxonMobil plans to deliver 750,000 BPD of gross oil production by 2025. ExxonMobil is currently on track to start up Liza Phase 1 by early 2020.

Do you see any significant differences compared to the projects you have worked on before?

Data collection efforts are robust not only for static data, but for dynamic data as well. Models are being built in a very thoughtful and adaptable manner in order to incorporate new learnings or additional undiscovered potential. Timely collaboration and integration of all data is needed to keep moving forward.

What is the biggest challenge petrophysicists in your team face while working Guyana? What about yourself personally?

One of our biggest challenges is data integration as more discoveries are made in order to keep our interpretation and models current.

How do you convey the importance of petrophysics/formation evaluation on to your colleagues from other disciplines?

I like to have frequent conversations between the different disciplines and teams to make sure that everyone is working collaboratively. Having a clearly defined goal and working as one team makes discussions constructive and productive.

Which petrophysical or formation evaluation on concepts/workflows/methods do you find most useful and impactful for your work on Guyana?

Integration of petrophysical facies with geophysical properties that are integrated well with the rock physics models has played an important role when it comes time to condition our geomodels.

What important skills (technical or otherwise) do you rely on in your day-to-day work?

Prioritizing tasks is something that I rely on heavily at work and at home. In a single day there is usually not enough time to get all the work done, but as long as you are prioritizing the things that have to get done will get done. I would also say being able to multitask and switch between tasks easily is a useful skill that helps me balance my workload. As a specialist, you are generally working more than one field and the ability to switch gears quickly helps you to stay on top of your work.

An interview With Christine Kuss

What is your advice to those starting their careers in the oil industry, especially to those starting in the areas of petrophysics and formation evaluation?

Petrophysics is one of the more analytical roles I have had in the company so far and if you are someone who likes working with large quantities of data this is a good place to be. One of the biggest pieces of advice, that I don't always do myself, is to ask questions. If something does not look or feel right you should question it, and also be receptive and open to others questions.

SPWLA-Holidays Celebration Happy Hour December 2019

SPWLA members in Houston recently gathered to close the year on a high note during the Holidays celebration happy hour, the last SPWLA networking event of 2019. An elegant and well-known patio and bar in the renovated uptown area was the right spot to network in a relaxed atmosphere with perfect weather. Several people from academia, operating, service and consulting companies attended. The crowd was very diverse, ranging from new members still in undergraduate or graduate school to some already retired; such exposure was a great opportunity for both.

As if this was not enough, we were honored by the attendance of the current and three former SPWLA Presidents: Jesus Salazar (2019–2020), Zhipeng Liu (2018–2019), Randall Cooper (2011–2012), and Philippe Theys (2000–2001). They all enjoyed seeing a large crowd sharing a good time with local and international board officers.

Members attending also had the opportunity to interact with SPWLA Houston Chapter Vice Presidents Jacob Anderson and Javier Miranda, Westside and Downtown sections, respectively, as well as SPWLA University of Houston student chapter President Charles Adams.

This social event was jointly sponsored by TGS, SPWLA Petrophysical Data-Driven Analytics (PDDA) Special Interest Group (SIG) and the Houston Chapter. We want to express our sincere gratitude to them for making this the greatest event in 2019 with excellent feedback from our members, who enjoyed hors d'oeuvres and drinks during pleasant conversation!

These bimonthly events have become very popular among SPWLA's Houston area members and visitors. They are usually held in different locations across the Houston metro area. You are encouraged to share your recommendations if you are interested in joining us in a place near you, especially if you and your team and colleagues will attend. So far, we have rotated among locations in the energy corridor and uptown, midtown and downtown.



McCormick & Schmick's, an elegant patio and bar with a relaxed atmosphere, conveniently located in uptown Houston, was the perfect place to enjoy the SPWLA holiday networking event in December 2019.

SPWLA-Holidays Celebration Happy Hour December 2019



SPWLA members and Petrophysics' enthusiasts gathered recently for the SPWLA holidays celebration event. SPWLA International President 2019–2020 Jesus Salazar, and two SPWLA Houston Chapter Vice Presidents Jacob Anderson (Westside) and Javier Miranda (Downtown) were also in attendance. Former SPWLA Presidents Randy Cooper and Zhipeng Liu are also included in this picture.



Even Scott “Santa” Caruthers attended to bring a Christmas gift to Javier Miranda (Vice President SPWLA Houston Chapter Downtown).



The 2019 SPWLA Holidays Celebration happy hour included, for the first time, the current and three former SPWLA Presidents (from left to right) Jesus Salazar (2019–2020), Philippe Theys (2000–2001), Randy Cooper (2011–2012) and Zhipeng Liu (2018–2019).



Part of the SPWLA Houston Chapter board (Jacob Anderson and Javier Miranda, Westside and Downtown sections VP) with Russ Whisonant and Kevin Piecznski from TGS and Charles Adams (SPWLA UH Student Chapter President) sharing a good time with other members, December 2019.

SPWLA-Holidays Celebration Happy Hour December 2019



Several participants at the most recent SPWLA's Happy Hour, including former President (2000–2001) and Medal of Honor for Career Service (2011) recipient Philippe Theys (second from left).



SPWLA Houston Chapter Vice Presidents Jacob Anderson (first on left) and Javier Miranda (first on right) representing the Westside and Downtown sections, respectively, as well as Zhipeng Liu (SPWLA International President 2018–2019).

A Texas-sized HUGE THANKS to our sponsors for this event:



Society of Petrophysicists and Well Log Analysts
Petrophysical Data Driven Analytics



HOUSTON CHAPTER
Society of Petrophysicists and Well Log Analysts

Don't miss our next event!

Join us for our next event to kick off SPWLA networking activities in the New Year. Our first SPWLA Networking Happy Hour in 2020 will be held in a venue close to the Houston Energy corridor. Several of our members that have attended in the past requested this location. The social events held at this location have had high attendance in the past two years so we hope to keep this trend in the upcoming happy hour. We are listening to our members' suggestions and will decide on a location that several people can attend. You are also welcome to recommend new locations close to you, especially if you and your colleagues will attend!

The entire SPWLA community is invited, no need to RSVP, come at your own leisure, no payment required. Come and mingle with fellow petrophysics enthusiasts. Recent events have been well attended by geoscientists, engineers and managers!

Everybody is welcome!

When: 5–8 pm Thursday, March 19, 2020 • Where: Yard House at Citycentre, 800 Sorella Ct Space 116, Houston, TX 77024



SPONSORSHIP OPPORTUNITIES ARE CURRENTLY AVAILABLE FOR OUR UPCOMING EVENT!



PROPOSED SLATE OF CANDIDATES FOR BOARD MEMBERS 2020–2021/22

The Nominating Committee proposes the following slate of candidates for the International Board of Directors. The results of the forthcoming election will determine **Board Members for the 2020–2021/22 Society year.**

In accordance to the Articles of Incorporation: *Additional nominations may be made by submitting a petition signed by at least ten voting members, to the Nominating Committee on or before **February 20, 2020.**

Meet the Candidates: Biographies, mission statements and photos of the candidates for this election will be sent to you by letter mail, electronic mail or other suitable means on **March 1st.**

Make your Vote Count: An election **ballot** for this election will be sent to all ****active** members of the corporation by letter mail, electronic mail or other suitable means on **March 1st.**

Election close date: April 1, 2020, 8:00 am CST.

PRESIDENT-ELECT (1-year term, 2020–2021)

Katerina Yared (SM Energy) - Denver, Colorado
Michael O'Keefe (Schlumberger) - Bucharest, Romania

VICE PRESIDENT – TECHNOLOGY (1-year term, 2020–2021)

Tegwyn Perkins (Lloyd's Register) – Houston, TX
Adam Haecker (Continental Resources) - Oklahoma City, OK
Shyamalan Ramaswami (Shell) – London, UK

VICE PRESIDENT – EDUCATION (2-year term, 2020–2022)

Chicheng Xu (Aramco) – Houston, Texas
Fransiska Goenawan (Halliburton) – Houston, Texas

VICE PRESIDENT – FINANCE, SECRETARY AND ADMINISTRATION (2-year term, 2019–2021)

Position currently being served by Doug Patterson (Baker Hughes) – Houston, Texas

VICE PRESIDENT – PUBLICATIONS (2-year term, 2020–2022)

Songhua Chen (Halliburton) – Houston, Texas
TBD

VICE PRESIDENT – INFORMATION TECHNOLOGY (2-year term, 2019–2021)

Position currently being served by Lin Liang (Schlumberger) – Cambridge, Massachusetts

REGIONAL DIRECTORS

North America, POSITION 1 (2-year term, 2020–2022)

Harry Xie (Core Lab) – Houston, Texas
Robin Slocombe (Schlumberger) – Houston, Texas

North America, POSITION 2 (2-year term, 2019–2021)

Position currently being served by Kelly Skuce (Obsidian Energy) – Calgary, Canada

Latin America (2-year term, 2020–2022)

Maika Gambus (Universidad Industrial de Santander) – Bucaramanga, Colombia
Fernando Maia Jr. (Petrobras) – Rio de Janeiro, Brazil

Europe (2-year term, 2019–2021)

Position currently being served by Craig Lindsay (Consultant) – Aberdeenshire, UK

Middle East/ Africa/ India (2-year term, 2020–2022)

Nelson Suarez (Dubai Petroleum Establishment) – Dubai, UAE
Marie Van Steene (Schlumberger) – Dhahran, Saudi Arabia
Tharwat Hassane (Egyptian Chinese University) – Cairo, Egypt

Asia and Australia (2-year term, 2019–2021)

Position currently being served by Jennifer Market (MPC Kinetic) – Perth, Australia

*In accordance to the Amended Articles of Incorporation, Article VI, additional nominations may be made by submitting a petition by letter or email endorsed by at least ten (10) voting members, no more than three (3) of whom work for the same company, to the Nominating Committee within three calendar weeks of the publication of the above slate. Nomination petitions must be received no later than February 22, 2020 to:

MAIL: SPWLA
Nominating Committee
8866 Gulf Freeway, Suite 320
Houston, TX 77017 USA
FAX: +1-713-947-8747
EMAIL: membership@spwla.org

Sincerely,
Zach Liu
Chairperson, Nominating Committee

**** If you would like to participate in this election of our Society Board of Directors your membership dues must be current. Please visit our web site www.spwla.org and sign in to view your account.**



Society of Petrophysicists and Well Log Analysts Petrophysical Data-Driven Analytics

SPWLA's 1st Petrophysical Data-Driven Analytics Contest Call for Team Registration

SPWLA PDDA SIG is excited to announce its first machine-learning contest!

The contest is open to all SPWLA members (including student members) who are interested in machine-learning applications in petrophysics. Top winning teams will be awarded prizes and invited to present their work at the PDDA SIG annual meeting. If you or your teams are interested in this contest, please preregister with Yanxiang Yu (pdda_sig@swpla.org) by submitting your team information, including names, affiliations and contacts, before January 31, 2020. A data repository will be ready in February 2020 on: <https://github.com/pddasig/>

Sponsoring Opportunities: SPWLA PDDA SIG is accepting sponsorship for this event to award the top winning teams. Please contact Yanxiang Yu (pdda_sig@swpla.org) for details.

SPWLA PDDA SIG Contest Committee: Yanxiang Yu, Yan Xu, Oghenekaro Osogba, Siddharth Misra, Brendon Hall, Chicheng Xu, and Weichang Li

Task: Sonic Log Synthesis

Background: Well logs are interpreted/processed to estimate the in-situ petrophysical and geomechanical properties, which is essential for subsurface characterization. Various types of logs exist, and each provides distinct information about subsurface properties. Certain well logs, like gamma ray (GR), resistivity, density, and neutron logs, are considered as “easy-to-acquire” conventional well logs that are run in most wells. Other well logs, like nuclear magnetic resonance, dielectric dispersion, elemental spectroscopy, and sometimes sonic logs, are only run in a limited number of wells.

Sonic traveltime logs contain critical geomechanical information for subsurface characterization around the wellbore. Often, sonic logs are required to complete the well-seismic tie workflow or geomechanical properties prediction. When sonic logs are absent in a well or an interval, a common practice is to synthesize them based on neighboring wells that have sonic logs. This is referred to as sonic-log synthesis or pseudosonic log generation.

Problem Statement: Compressional-wave traveltime (DTC) and shear-wave traveltime (DTS) logs are not acquired in all the wells drilled in a field due to financial or operational constraints. Under such circumstances, machine-learning techniques can be used to predict DTC and DTS logs to improve subsurface characterization. The goal of the “SPWLA's 1st Petrophysical Data-Driven Analytics Contest” is to develop data-driven models by processing “easy-to-acquire” conventional logs from Well 1, and using the data-driven models to generate synthetic compressional and shear traveltime logs (DTC and DTS, respectively) in Well 2. A robust data-driven model for the desired sonic-log synthesis will result in low prediction errors, which can be quantified in terms of Mean Absolute Error by comparing the synthesized and the original DTC and DTS logs.

You will be provided with two datasets: Well 1 dataset and Well 2 dataset. You need to build a generalizable data-driven models using the Well 1 dataset. Following that, you will deploy the newly developed data-driven models on the Well 2 dataset to synthesize DTS and DTC logs. The data-driven model should use feature sets derived from the following eight logs: caliper, neutron, gamma ray, deep resistivity, medium resistivity, shallow resistivity, photoelectric factor and density. The data-driven model should synthesize two target logs: DTC and DTS.

Evaluation Metrics

1. Contestant can be an individual or a group.
2. A contestant will submit the synthesized DTS and DTC logs for Well 2 as two separate .csv files. One file should contain depth vs. DTS and the second file should contain depth vs. DTC.
3. A contestant will submit the source code used for the sonic log synthesis and a brief report documenting the accuracy achieved in a few plots.
4. The judges will review the source code.
5. The judges will compare the synthetic logs with original logs for Well 2. Error in log synthesis will be quantified in terms of mean absolute error.
6. The contestant with best quality source code and best performance in log synthesis for Well 2 will be declared the winner for this competition.

Giving Credit Where Credit is Due

Dear Colleagues

This note is to ask the SPWLA membership for assistance. I am looking for the first use of the V_{sh-IGR} transform attributed to Clavier et al. (1971) in a publication. A curve that can be generated by the formula attributed to these authors appears in the paper as Fig. 9; however, the formula is not published in the 1971 paper. This is a source of some consternation among authors wishing to give proper attribution to the creators of the formula. The link below is an example of a recent attempt https://www.researchgate.net/post/Volume_fraction_of_shale_full_reference_for_Clavier_1971

It would be a good addition to the list of citations for this formula if the first appearance of the actual formula could be found. If anyone happens to know the first publication, or has library resources (such as the Schlumberger-Doll library) can you please share the reference?

For those interested, I present a short review of the provenances of these V_{sh-IGR} transforms below.

In the late 1960s and early 1970s the basis of the four shale-volume vs. gamma-ray index transforms that are now in common use were published; these are:

$$V_{sh} = 0.33(2^{2 \cdot I_{GR}} - 1) \text{ and } V_{sh} = 0.083(2^{3.7 \cdot I_{GR}} - 1) \text{ from Larionov (1969)}$$

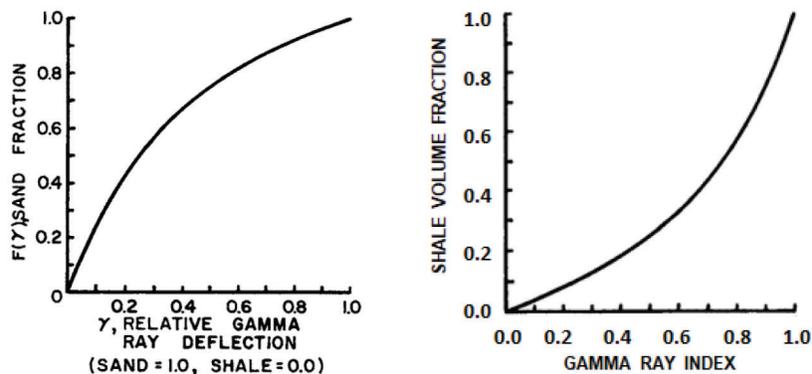
$$V_{sh} = I_{GR} / (3 - 2I_{GR}) \text{ from Stieber (1970), and}$$

$$V_{sh} = 1.7 - \sqrt{3.38 - (I_{GR} + 0.7)^2} \text{ from Clavier (1971)}$$

Each of these equations purports to output a shale volume when the gamma-ray index is input. Obviously, they are not the same equation, although the functions do output similar curves. Surprisingly, none of these equations appear in the publications cited as their sources. These functions all appear only as graphs.

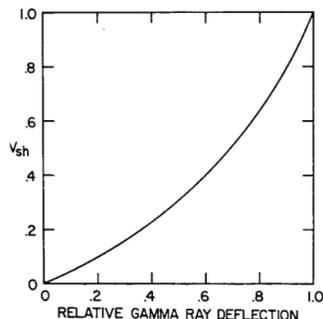
Presumably, all of these transforms are based upon fitting curves to observed data plotted as “scatter” plots, but only the Larionov reference includes plots (in Larionov’s Fig. 23) of the data his curves (in Larionov’s Fig. 43) are based upon.

Interestingly, both Stieber’s and Clavier’s articles are about pulsed-neutron log interpretation; the gamma ray-to-shale volume transforms are needed to make corrections to capture-cross-section-based water saturation determinations. Stieber’s article, while it includes no raw data, is otherwise the most complete in that it offers both a graphical representation of a transform, together with a formula for the transform. However, Stieber’s analysis is formulated in terms of sand volume fraction rather than shale volume fraction. Stieber’s function is $F(\gamma) = 3\gamma / (1 + 2\gamma)$ where $g = 1 - I_{GR}$, and $F(\gamma) = 1 - V_{sh}$. In Stieber’s words: “This relationship was developed by trial and error and represents the gamma function that yields minimum error to calculated sigma values.” The equation describes the curve in the figure (left) below. Making the substitutions for $F(g)$ and g , and solving for V_{sh} , gives Stieber’s transform; plotting the results gives the figure on the right.

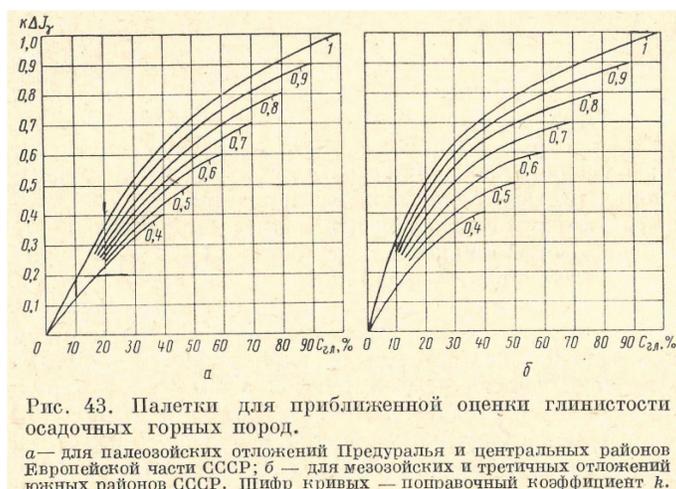


Clavier et al. (1971) also present no data, but give a relationship between gamma-ray index (which is called “relative gamma deflection”) and fractional shale volume. No formula is given in the paper, although this paper is cited as the source of the formula. In the authors’ words: “... use of the empirical chart of Fig. 9 [shown below] was found more reliable than assuming linearity between gamma ray log and shale volume.”

Giving Credit Where Credit is Due



The Larionov book (in Russian) may have been first cited in English-language literature in the 1985 edition of the Dresser-Atlas *Chartbook and Introduction to Wireline Log Analysis* edited by Ed Bigelow. (If you know of an earlier appearance, please do share it.) The relevant figure from Larionov's book is shown below.



The orientation of the charts is with gamma ray index on the vertical axis ($k\Delta J_\gamma$) and shale volume on the horizontal axis (C_{sh}). Flipping the charts about their diagonal axes gives the conventional presentation; the curves labeled with “1” are the curves usually labeled “older” (a) and “Tertiary” (б) rocks. The figure caption, however, labels the “older” rocks as Paleozoic (палеозойских) and the “Tertiary” rocks as Mesozoic and Tertiary (мезозойских и третичных). Since the Mesozoic era lasted for 186 million years, beginning 252 mya, this seems to be a correction worth making.

REFERENCES

- Clavier, C., Hoyle, W., and Meunier, D., 1971, Quantitative Interpretation of Thermal Neutron Decay Time Logs: Part 1. Fundamentals and Techniques, Paper SPE-2658-A, Journal of Petroleum Technology, 23(6), 743-755. DOI: 10.2118/2658-A-PA.
- Larionov, V.V., 1969, Borehole Radiometry [in Russian], NEDRA, Moscow. [Ларионов, В.В., 1969, Радиометрия Скважин, НЕДРА, Москва.]
- Stieber, S.J., 1970, Pulsed Neutron Capture Log Evaluation in the Louisiana Gulf Coast, Paper SPE-2961 presented at the SPE 45th Annual Fall Meeting, Houston, Texas, USA, 4–7 October 4-7. DOE: 10.2118/291-MS.

David Kennedy
Member, SPWLA

Chapter News

ABERDEEN CHAPTER (Aberdeen Formation Evaluation Society, AFES)

Recent Events

13 November 2019 – At the evening seminar Maneesh Pisharat (Schlumberger) gave an excellent and well-paced talk on “Characterization of Fluid Composition While Drilling to Aid Well Placement.”



AFES November 2019 meeting. Speaker Maneesh Pisharat (Schlumberger) receiving the speaker's gift.

28 November 2019 – AFES has just held its annual Christmas ‘Pub Quiz’, hosted by the AFES Committee and Richard ‘Quiz Master’ Arnold, at the Station Hotel, Aberdeen. The event was very well attended and raised ~£900 for local Archie Foundation charity (<https://archie.org/>). Well done the winning team from Taqa. A huge thanks to the event sponsors: HRH Geology and Premier Corex!



AFES November 2019 Annual Quiz Night flyer.



AFES November 2019 Annual Quiz Night. Photos of the event in progress.

Upcoming Events

AFES is shaping up for a great start to 2020....

January	Nick Harvey	Halliburton	Lithology Prediction from Wireline Log Data: A Supervised Machine Learning Approach for Enterprise
February	Nishank Saxena	Shell	Digital Rock Technology for Accelerated RCA and SCAL
March	Nigel Clegg	Halliburton	3D Inversion of Ultradeep Azimuthal Resistivity LWD Data
April	Stein Ottar Stalheim	Equinor	Deducting Dispersive Permittivity From LWD Resistivity Measurements
May	Stacey Althaus	Aramco	NMR Measurement of Porosity and Density From Drill Cuttings of Unconventional Tight Reservoirs
July	Harry Xie	CoreLabs	Physical Properties of Hydrocarbons In Unconventional Mudstones Using Two-Dimensional NMR Relaxometry

A major future event AFES would like to promote is Devex 2020. The 'Call for Abstracts' flyer is now live. This Aberdeen two-day conference is scheduled for early May 2020.

Finally, AFES would like to extend their thanks to sustaining annual sponsors:



ABU DHABI CHAPTER

General News

The Chapter encourages all Petrophysicists interested to join and become active members. Get in touch if you wish to attend our local events, or present at any of our technical events. Technical events are held in the ADNOC HQ building.

Special thanks to all the speakers that have presented at our technical talks. If you want to be added to our email list, please email us at abudhabi@spwla.org. Follow us on LinkedIn- SPWLA Abu Dhabi Local Chapter.

We would love to hear from you!!

DEVEK is the only technical conference of its size which is focused on the full cycle of reservoir discovery, evaluation, development and recovery in the UK and provides excellent opportunities for engineers and geoscientists to come together and share knowledge.

This year marks the 17th DEVEK Conference and we will focus on how new ways of working and the role of technology will shape the present and the future of the basin; what this will mean for our industry and the opportunities for new entrants or industries beyond E&P.

As well as a strong technical programme, delegates will gain access to expert-led Masterclasses, Core displays, an event for Young Professionals and a Field Trip. The conference will also provide ample networking opportunities during the coffee, lunch breaks and networking session.

For more information on the conference, sponsorship or exhibition opportunities, contact devex@mearns-gill.com or call 01224 64311.

Abstracts are now open and will close on 31 January.

We are inviting companies to submit a short 200 word abstract indicating the type of presentation preferred - either a formal 20 minute presentation or a 5 minute Techbyte presentation (Techbyte's can be more sales-oriented), on topics including, but not limited to:

- Case histories on maximising production
- Case histories on redevelopment of fields
- Case histories on the use of new technology or novel approaches
- Frontier Exploration
- Advanced Recovery Mechanisms – Waterflood to EOR
- Near Field Opportunities
- Facilities enhancements to improve efficiency
- Big Data, Artificial Intelligence and Machine Learning – practical applications.



Recent Events

20 October 2019 – The chapter hosted a technical event at ADNOC HQ Rig theater. Raghu Ramamorthy (Independent) gave a presentation titled “Towards a Petrophysically Consistent Implementation for Archie’s Equation for the Heterogeneous Carbonates Rocks as Presented at the LRP Oman Workshop”

19 November 2019 – Alberto Cesar Ortiz (YPF Argentina), a SPWLA Distinguished Speaker, gave a technical presentation entitled “What Have We Learned From Petrophysical Evaluation of the Vaca Muerta Formation During the Last 5 Years of Unconventional Shale Play Exploration and Development.” We would like to thank Alberto for traveling all the way to Abu Dhabi from Argentina.



Abu Dhabi Chapter 19 November 2019 meeting. Alberto Ortiz (YPF) presenting at ADNOC HQ

26 November 2019 – The chapter hosted Nicolas Leseur (Senior Reservoir Geoscience Advisor, BHGE) who gave a presentation titled “At the Crossroads Between Physics-Based and Data Driven; A Resistivity-Free Evaluation Method for Non-Archie Micritic Carbonate Formations.”



Abu Dhabi Chapter 26 November 2019 meeting. Nicolas Leseur (BHGE) presenting.

AUSTRALIAN CHAPTER

(Formation Evaluation Society of Australia, FESAus)

General News

FESAus, the Australian chapter of SPWLA combines the formation evaluation societies from around Australia predominantly FESQ. Technical meetings are held in Perth on the second Tuesday of each month, with webcasts of the presentations available soon after for members from other states to view. Please visit www.fesaus.org for meeting information.

2019 Committee members”

- | | |
|-----------------|---|
| Adrian Manescu | President |
| Wesley Emery | Vice President/ Acting Treasurer/
Newsletter Coordinator |
| Vacant Company | Secretary |
| Vacant | Treasurer |
| Diego Vasquez | Website Coordinator/ Data
Standards Focal Point |
| Leanne Brennan | Secretary/ Inter-Society Liaison/
Social Coordinator/ Special Events
and Awards |
| Jean-Baptiste | Monthly Meeting Coordinator |
| Siobhan Lemmey | Membership Coordinator |
| Vacant | New Technology Forum Coordinator |
| Vacant | New Technology Forum Coordinator |
| Vacant | Education Group Leader |
| Nigel Deeks | Audio Visual Coordinator |
| Yang Xingwang | Audio Visual Coordinator |
| Vacant | Sponsorship Coordinator |
| Marcel Croon | Queensland Representative |
| Matthew Pfahl | South Australian Representative |
| Matthew Durrant | Victoria Representative |
| Harris Khan | NSW Representative |

Recent Events

12 November 2019 – Chris Dyt (CSIRO) gave the presentation titled “Data Analytics and Machine Learning; What is it and How Can I Use it?” The talk was well received with a great deal of discussion and sharing of ideas.

BANGKOK CHAPTER

General News

The Bangkok Chapter of SPWLA holds Technical Meetings in Bangkok on the last Thursday of each month. Meetings are fully sponsored for SPWLA Members. Nonmembers can attend free of charge with email registration prior to the meeting. Students are always free of charge.

Please visit https://www.spwla.org/SPWLA/Chapters_SIGs/Chapters/Asia/Bangkok/Bangkok.aspx for meeting information. Email: bangkok.chapter@spwla.org <bangkok.chapter@spwla.org>

2019 Chapter Committee Members:

President	Andrew Cox
Technical Coord	Numan Phettongkam
Treasurer	Sirinya Maykho
Web Coordinato	Alex Beviss
Secretary	Ronald Ford
Sponsorship	Ryan Lafferty
Student Liaison	Kruawun Jankaew
Member at Large	Greg Heath

Recent Events

29 August 2019 – Graham Melvin (Software Support Team Lead – Lloyd’s Register Software) presented a paper written by Paul Spooner (IP Product Champion – LR Software) which outlined the pitfalls of interpretations based on shale vs. clay content, with recommendations for optimal estimation of porosity.



FESAus November 2019 meeting. Speaker Chris Dyt (CSIRO) (left) and Adrian Manescu, President FESAus.

10 December 2019 – At the Xmas technical meeting Gerry McGann (EonNRG) gave the presentation “Challenges to the Australian Oil and Gas Industry in a Changing World.” Gerry’s talk was well received with a great deal of discussion and sharing of ideas.



FESAUS December 2019 meeting. Speaker Gerry McGann (EonNRG) (left) and Wesley Emery, Vice President FESAus.



Bangkok Chapter August 2019 meeting. Graham Melvin (LR Software) (left) with Ronald Ford (Gaia Earth Group).

Upcoming Events

30 January 2020 – Paul Johnson (PTTEP) will give a presentation titled “Volcanic Petrophysics: Evaluation by Crystal Ball, a Fertile Imagination, and a Calibrated Eyeball.”

1–5 March 2020 – SPWLA Bangkok Asia Pacific Regional Conference 2020

BOSTON CHAPTER

General News

2019 was a busy year for the Boston Chapter, and served to further cement the Chapter’s position as a catalyst for the sharing of expertise in petrophysics and broader topics

related to energy among Boston-area academics and industry professionals. We hosted a November workshop for over 100 attendees on the theme of “Porous Media: Structure, Flow, and Dynamics.” The workshop had 50 speakers from around the world representing universities, service companies, and operators. We hosted five seminars covering the full range of petrophysics, from experiments to machine learning, and including a discussion of technology and innovation in upstream oil & gas. Finally, the Chapter welcomed five new officers who are energized to advance the mission of SPWLA.

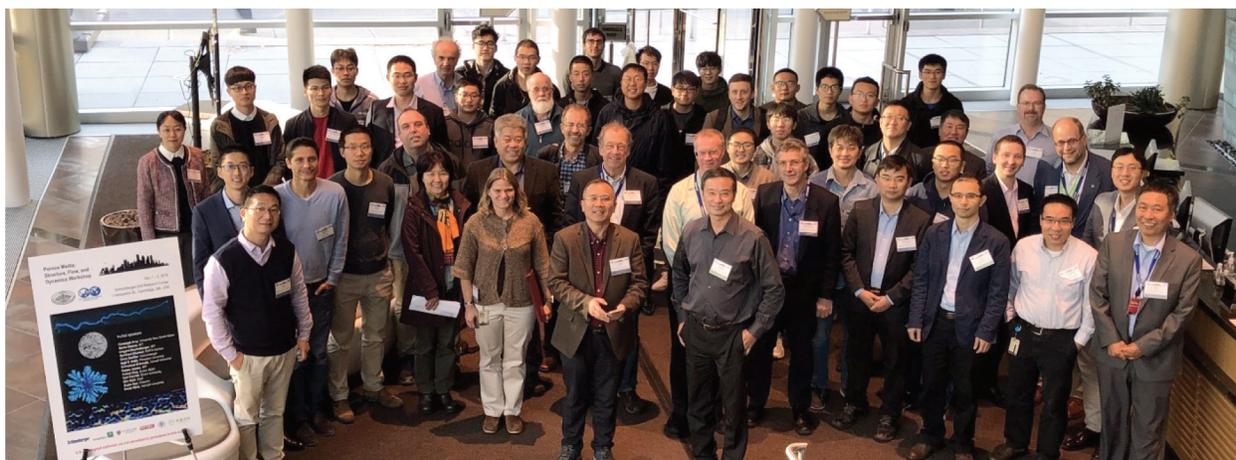
SPWLA general members and Boston-affiliate members are invited to browse our chapter website <http://boston.spwla.org> for up-to-date information on our mission and events, including event details and registration.

Honors

Lin Liang delivered a webinar in December on “A Machine Learning Framework for Automating Well Log Depth Matching,” as part of the SPWLA webinar series, in continuation of his Distinguished Speaker tour.

Recent Events

06 December 2019 – The Boston Chapter hosted Stacey Althaus (Aramco Services Company, Houston) for her lecture titled “NMR Measurement of Porosity and Density from Drill Cuttings of Unconventional Tight Reservoirs.” Her talk was engaging, well attended, and provoked many questions.



Boston Chapter November 2019 Workshop. Some of the workshop attendees



Boston Chapter December 2019 meeting. Stacey Althaus (Aramco Services Company) gave the technical presentation. Pictured from left to right: Yi-Qiao Song (Boston Vice President), Paul Craddock (President), Stacey Althaus, Jeffrey Miles (Secretary), and Lin Liang (VP Outreach and Technology).

CHINA UNIVERSITY OF PETROLEUM (BEIJING) SPWLA STUDENT CHAPTER

Recent Events

- 15 October 2019 – Zhao Jian, the head of the student chapter, organized a meeting for all members of the new association. Chairman Zhao Jian introduced the basic situation of SPWLA and the main responsibilities of the student chapter. After that, the ministers introduced the main tasks undertaken by the department and clarified the division of labor in the future. After the meeting, we went to the restaurant for dinner together, freely communicating with each other, and learning from each other. The meeting enhanced the understanding between the new members, and also increased the cohesion and execution of the association.
- 21 November 2019 – The head of the association received the notice issued by the headquarters on the holding of the preliminary round of the SPWLA 61st Annual Logging Symposium International Student Paper Competition. We met to discuss the various tasks of organizing the competition and decided to host the competition on 21 December. After that, the various departments of the association united and worked together to carefully prepare all issues required for the competition to ensure a high-quality and successful competition.

Upcoming Events

- 21 December 2019 – We will host the 6th China University of Petroleum (Beijing) SPWLA Student Paper Competition. At the same time, we will also hold the China Petroleum University (Beijing) Logging Annual Meeting. Experts and scholars are welcome to come and exchange reports.

SPWLA

第六届学术论文评比大赛

参赛对象：全体本科生，硕士生和博士生

目的及意义

促进学术交流
获取最新科研知识
给广大师生提供国际性交流平台

征稿主题

测井新技术	套管外地层评价
机器学习的进展	完井岩石物理和油藏监测
深水油藏分析	常规油气藏的地层评价
棕色地带的岩石物理学	非常规油气藏的地层评价
案例研究	

比赛机制

初赛：分别评选不同学历层次前三名进入决赛
决赛：与第29届中国石油大学（北京）测井年会一同举行
最终：SPWLA总部决定赞助本硕博各一名同学参加于2020年六月份在加拿大举行的第61届SPWLA年会

报名截止时间：12月19日 征稿格式：不少于400字的中英文详细摘要以及报名表。
初赛时间：12月21日 邮箱：scaspwla@sina.com
邮件命名格式：姓名+2019SPWLA
学生论文评比+手机号码。

主办方：SCA-SPWLA协会

Notice of the Student Paper Competition.

DALLAS CHAPTER

Recent Events

- November 2019 – Steve Brackeen (Primex Energy Partners) presented a paper titled “Core Fluid Preservation and Quantification in Liquid-Rich Organic Shales.” A review of rotary sidewall core data from the South Delaware Basin and the fluid analysis of each was discussed in detail. Comparisons of different core fluid preservation methodologies were presented along with a recommendation for a novel and inexpensive method that allows nondestructive in-situ fluid preservation and quantification. The talk was well received by both attending petrophysicists and engineers.



Dallas Chapter November 2019 meeting. Aaron Green, Dallas Chapter VP Technology (left) presenting speaker's gift to Steve Brackeen (Primex Energy Partners) (right).

12 December 2019 – Twice selected SPWLA Distinguished Speaker Paul Craddock (Schlumberger-Doll Research) presented his paper titled, “Thermal Maturity-Adjusted Log Interpretation (TMALI) in Organic Shales.” This paper was awarded Best Oral Presentation at the 2019 SPWLA 60th Annual Logging Symposium and was well received by the Dallas audience. The presentation focused on the determination of kerogen endpoint properties determined solely from thermal maturities of over 60 global shale samples from eight basins in three separate continents. Kerogen bulk density, sigma, epithermal- and thermal-neutron porosities were shown to correlate to thermal maturity. This method increases the accuracy of petrophysical multiminerall solutions.



Dallas Chapter December 2019 meeting. Aaron Green, Chapter VP Technology (left) presenting the speaker's gift to Paul Craddock (Schlumberger-Doll Research).

DENVER CHAPTER (Denver Well Logging Society, DWLS)

General News

Join us for the monthly DWLS meetings, which are held the third Tuesday each month, beginning in September and running through May. Meetings take place in the Mercantile Room at the Wynkoop Brewing Company in downtown Denver, Colorado. The networking social begins around 11:20 am, lunch is served at 11:45 am, and the technical presentation starts at noon. The cost for the DWLS luncheon is \$25 and guests are welcome to attend. Visit the DWLS website at <http://dwls.spwla.org> to make your luncheon reservations, renew your membership, or join the society.

Recent Events

22 October 2019 – The RMAG-DWLS Fall Symposium included 11 speakers covering the topic of Multiscale Imaging for Reservoir Characterization. The talks encompassed imaging techniques, analysis, and interpretation across a range of scales, from the pore scale to beyond the wellbore. The workshop was well attended.



19 November 2019 – The DWLS luncheon speaker was Robert Lieber (Corsair Petrophysics) who presented the talk “Conventional Petrophysical Tools for Improved Understanding of Unconventional Reservoirs.” The talk was well attended. The abstract and more information on Robert can be found on the DWLS website in the newsletters - <http://dwls.spwla.org/Newsletters.htm>



DWLS November 2019 meeting. Speaker Robert Lieber (Corsair Petrophysics).

Upcoming Events

21 January 2020 – Ridvan Akkurt (Schlumberger) will be presenting “Machine Learning for Well Log Normalization.”

Visit the DWLS website at <http://dwls.spwla.org> to make your reservations. The DWLS monthly meetings are held the third Tuesday of the month, from September through May. Be sure to visit our online calendar to see what is scheduled for the upcoming speaker line up.



DWLS January 2020 meeting. Speaker Ridvan Akkurt (Schlumberger).

29 April 2020 – DWLS hold the Spring Workshop on the topic “Horizontal Petrophysics: Applications and Interpretation Techniques in Reservoir Characterization.” Abstracts are due by 17 January 2020, please submit to Jenny LaGessee VP_Technology@dwls.spwla.org. http://dwls.spwla.org/2020-04-29_Call_for_Papers.pdf

THE NETHERLANDS CHAPTER (The Dutch Petrophysical Society, DPS)

19 September 2019 – DPS held a seminar with the theme “Petrophysics in the Digital World.” Dr. Matthias Appel (Shell) presented on “Petrophysical Applications of Digital Rock Technologies,” while Igor Kim (Shell) presented on “Introduction to Python for Petrophysics,” with a new first for the DPS, a live demonstration of a Jupyter Notebook petrophysical model. The presented material and the executable notebook will become available on the DPS website. The meeting was well attended, and the audience engaged in lively discussion on both topics during and after the talk. DPS would like to thank all attendees and both speakers for an inspiring session.



DPS September 2019 meeting. DPS President Iulian Hulea presenting the speakers (Matthias Appel, top photo) and Igor Kim, bottom photo) with a token of appreciation from the Chapter.

12 December 2019 – The subject at the quarterly meeting, which was sponsored by Baker Hughes, was “Petrophysics and the Energy Transition,” The two presentations “Petrophysics: Out with the Old, in With the New,” by Professor Vianney Koelman (Centre for Computational Energy Research, DIFFER and TU Eindhoven) and “Application of Oil and Gas Methodology to Geothermal Formation Evaluation: The Value of Data,” by Tom Bradley (Baker Hughes) were both warmly received by the large audience drawn from the Dutch petrophysical community. The meeting was followed by the traditional post-meeting drinks in a local cafe.



DPS December 2019 meeting. The two presentations were well received by the audience



DPS December 2019 meeting. Professor Vianney Koelman (DIFFER and TU Eindhoven) (top photo) and Tom Bradley (Baker Hughes).

Upcoming Events

05 March 2020 – The next meeting will be at the KIVI building in The Hague, with the topic “Machine Learning and Artificial Intelligence in Petrophysics.” Attendance is free for DPS members.

To learn more about the DPS, find details of our meetings, and to view past presentations, check out our website at www.dps-nl.org.

INDIA CHAPTER

General News

SPWLA-India chapter President, Mr. A.K. Ashta, in his welcome address at the 31 July meeting, announced and welcomed the new executive body He encouraged the young professionals to make the best use of the platform provided by the Society and exhorted the members to gear up for upcoming activities of the chapter.

Chapter Executive

President	A.K. Astha
VP Membership	M.K. Tewari
VP Publication	Sunil Chaudhary
VP Education	Chandrashekhar Deshpande
VP Technology	Ajit Kumar
Secretary	Vinod Kumar
Treasurer	Rakesh Guru
Joint Secretary (Publications)	Balsubramaniam
Joint Secretary (Publications)	Sonia Mallick
Joint Secretary (Education)	Badal Solanki
Joint Secretary (Education)	Rajiv Tambe
Joint Secretary(Membership)	B.V.S. Murthy
Joint Secretary(Membership)	R.S. Chauhan
Joint Secretary(Technology)	Ankit Agarwal
Joint Secretary (Technology)	Juli Singh

Recent Events

31 July 2019 – The India chapter held a Technical Session at Rangsharda Hotel, Bandra, Mumbai. The technical session evoked overwhelming response with participation from ONGC, Baker Hughes, Schlumberger, Weatherford, Halliburton, GE and BowNishi.



SPWLA India July 2019 meeting. Chapter President R.K. Ashta addressing members.

Two presentations were delivered: Komal Dhankar, (Geophysicist ONGC) gave a presentation entitled, “Monitoring the Movement of Reservoir Fluid Contacts With Time-Lapse Production Logging Data—A Case Study From Western Offshore,” and Manish Lal Khaitan (Senior Geophysicist Schlumberger) gave a talk titled, “Advances in Fiber Optics Technology and its Application in Borehole Seismic.”



SPWLA India July 2019 meeting. Komal Dhankar (ONGC) (top) and Manish Khaitan (bottom) delivering their presentations.

The event was coordinated by Mr. Vinod Kumar, Secretary SPWLA India in association with M/s SASL. The program was compered by Rajiv Tambe Joint Secretary (Education). Cahndrashekhar Deshpande, Vice President Education, proposed the vote of thanks.



SPWLA India July 2019 meeting.

MALAYSIA CHAPTER (Formation Evaluation Society of Malaysia, FESM)

General News

FESM, a local chapter of Formation Evaluation Society of Malaysia is based in Kuala Lumpur. Technical meetings are held on fourth week of each month. For meeting information, please visit our chapter website at www.fesmkl.com.

Recent Events

06 November 2019 – FESM hosted a technical seminar in collaboration with Petronas on the topic of “Development of Shaly Sand Reservoirs in Mature Fields.” Hj.Anwar Husen (Head of Petroleum Engineering, Petronas Carigali Sdn. Bhd.) delivered the keynote address. This half-day seminar was very successfully with attendance of more than 100 subsurface professionals. Six presentations related to challenges in developing shaly sand reservoirs in mature fields were delivered:

- Siti Najmi (Petronas) – “Keeping the Bucks Rolling: Monetizing Shallow Hanging Fruits Through Behind-Casing Opportunities and Strategic Collaboration”
- Mohd Abd Rasheed (Repsol) – “New Technology and Advanced Workflows Allow for Success Placement of Horizontal Producers in Mature Reservoir in a Fluvial Environment—Case Studies”
- May Sari Hendrawati (Petronas) – “Overcoming Challenges in Developing Complex, Mature and Depleted Reservoirs”
- Abraham Johannes (JX Nippon) – “Formation Water Salinity Variation in Baram Delta: Observations From a Mature Gas Field”
- M. Hakim Mohamad (Petronas) – “Discovering Bypassed Oil Down dip in an iWAG Well at the Water Leg – A Case Study”
- Wesley Emery (iRPM/Pty. Ltd) – “Petrophysical Reservoir Modeling from 3D Seismic Survey”

NEW ORLEANS CHAPTER

General News

This year the New Orleans SPWLA chapter presented \$3,000 in scholarships to three worthy students: Jack Gettys, University of South Alabama; Haley Marie Dean, University of Evansville (Indiana); and Longsha “Oscar” Liu, Cornell University.

Recent Events

- 19 September 2019 – Our first talk of the season was an SPWLA Distinguished Speaker presentation by coauthor Anton Nikitin (Shell) on “Crushed Rock Analysis Workflow Based on Advanced Fluid Characterization for Improved Interpretation of Core Data”. The luncheon and talk were held at the Shell offices in New Orleans and were well attended.
- 17 October 2019 – We resumed our usual location for our talks at Halliburton’s New Orleans office. Paul Craddock (Schlumberger-Doll Research) gave his SPWLA Distinguished Speaker presentation “Thermal Maturity-Adjusted Log Interpretation (TMALI) in Organic Shales,” which was again well received and attended.
- 21 November 2019 – Bo Gong (Chevron), gave her SPWLA Distinguished presentation, “Estimating Net Sand From Borehole Images in Laminated Deepwater Reservoirs With a Neural Network.” Bo’s talk generated many interesting questions and discussions around this new method of estimating net sand fractions directly from OBM borehole images.
- 05 December – The Chapter hosted a Christmas party for our members at one of the popular local establishments in New Orleans. The event was well attended and our members enjoyed networking as well as great food and drink while welcoming in the Holiday Season.

Upcoming Events

- 16 January 2020 – SPWLA luncheon, speaker Brian Hornby (Halliburton) on “Achieving Business Value Using Borehole Sonic Data.”
- 21 February 2020 – SPWLA luncheon, speaker TBA
- 19 March 2020 – SPWLA luncheon, speaker TBA
- 16 April 2020 – SPWLA luncheon, speaker TBA
- 21 May 2020 – SPWLA luncheon, speaker TBA



FESM November 2019 seminar. Group Photo (top) and FESM 2019 committee members (bottom).

OKLAHOMA CITY CHAPTER

General News

Beginning in 2020, the Oklahoma City Chapter will be holding its monthly meetings at the VAST restaurant in Devon Tower.

Recent Events

October 2019 – Loraine Ramos (Weatherford) presented on “Determining Water Saturation in Permian Basin Intercalated Reservoirs Using NMR log Data.” The talk was well attended.

15 October 2019 – The chapter held a workshop on Data Analytics in Reservoir Evaluation.” The workshop was well attended and very informative. The participants commented they enjoyed the workshop and learned a lot about many different aspects of data analytics. Thank you to all of the speakers for presenting at the event.

November 2019 – SPWLA Distinguished speaker Paul Craddock visited Oklahoma City to present his paper “Thermal Maturity-Adjusted Log Interpretation (TMALI) in Organic Shales.” The talk was well attended.

Upcoming Events

14 January 2020 – Sidi Mamoudou (University of Oklahoma)

11 February 2020 – Stacey Althaus (Saudi Aramco) will speak on “NMR Measurement of Porosity and Density From Drill Cutting of Unconventional Tight Reservoirs.”

QATAR CHAPTER

General News

We are based in Doha and welcome all professionals and students interested in well logging and formation evaluation. The SPWLA Qatar Chapter promotes technical talks in close partnership with our sister and well-established Qatar SPE Section (QSPE).

The committee is happy to announce that Ashok Srivastava volunteered to step in as Vice President, and we count on Ashok’s vast experience to enhance our ability to disseminate our petrophysics knowledge.

A major milestone was also achieved on the IT domain, with our website going live. The entire committee is very thankful to our IT Coordinator, Faisal Abdulrahman Al-Mutawa, for all his hard work. The website can be accessed at <https://www.spwla-qatar.com>

Recent Events

28 October 2019 – An interesting talk by Stefano Pruno (Stratum Reservoir Regional Technical Advisor) focused on core analysis. The talk entitled, “Special Core Analysis in the Digital Age: Challenges, New Insights and Recent Developments,” was one of most well-attended talks of 2019. It presented a great overview of the entire process and importance of basic things, like core cleaning and drying all the way to advanced flooding experiments on whole-core samples.



Qatar Chapter December 2019 meeting. Part of the SPWLA Qatar Chapter Committee: (left to right) Mohamed Fadlemula (TAMUQ); Sharon Finlay (NOC); Hussein Jichi (Baker Hughes); Enrique Diaz (Baker Hughes); Ali Zwali (Halliburton); Faisal Al-Mutawa (Qatargas); Ashok Srivastava (QP) – our new Vice President and Jose Oliveira Neto (Qatar Shell).



Qatar Chapter October 2019 meeting. Speaker Stefano Pruno taking questions after the presentation.

02 December 2019 – Nacer Guergueb (Senior Manager, Halliburton Formation & Reservoir) gave the technical talk titled “Electromagnetic Logging Technology for Multi-Pipe Corrosion Evaluation; Applications, Challenges and Advancements.” The talk is very applicable to the overall operations in Qatar, that has a mix of new wells but a considerable number of aging wells, especially onshore. The talk covered principles and different methods of EM technology, the time- and frequency-domain tools and the challenges and limitations in evaluating multiple barriers.



Qatar Chapter December 2019 meeting. The audience listening to Nacer Guergueb's technical talk.

The SPWLA Qatar Chapter wishes to say thank you for the kind support from our sponsors (Stratum Reservoir and Halliburton) on the last two technical talks.

Upcoming Events

January 2019 – The first talk of the year will focus on capillary pressure and the presenter will most probably be from TAMUQ University. Details to come out soon!!

If you want to be added SPWLA Qatar Chapter mailing list, please email us at QSPWLA@gmail.com or talk to any of the committee member! We look forward meeting you!

Please remember: SPWLA Qatar Chapter in on LinkedIn! Follow us to stay updated about what is going on in the petrophysics community in Qatar and to hear about our chapter activities! 😊

SAUDI ARABIA CHAPTER

Recent Events

05 November 2019 – Saudi Arabia SPWLA Chapter (SAC) hosted its 7th topical workshop on “Advancements in Geochemistry and Their Applications in E&P.” This was the first Industry-academia topical workshop for a professional society organized at Dhahran Techno Valley Company (DTVC) in Dhahran, Saudi Arabia. Dr. Abdulaziz O. Al Kaabi (Dean of the College of Petroleum Engineering and Geosciences at KFUPM) and Khalid Zainalabdin (Manager of RDSD at Saudi Aramco) gave the keynote presentations. The technical program started with a keynote talk by Schlumberger Fellow Oliver Mullins on “Reservoir Fluids Geodynamics,” which was followed by eight technical presentations on three main themes and an interactive poster session:

Theme 1: Geochemistry Fundamentals and Advancements
 “Hydrocarbon Geochemistry of Reservoir Fluids” by Khaled Aroui (Saudi Aramco) who is also a 2019 SPE Distinguished Speaker

“Rock Geochemistry of Sedimentary Carbonates” by Ahmed Abouzaid (Baker Hughes)

“Oilfield Water Geochemistry for Reservoir Assessment” by Peter Birkle (Saudi Aramco)

Theme 2: Applications of Geochemistry in E&P

“Geochemistry Applied to Reservoir Evaluation via Reservoir Fluid Geodynamics” by Oliver Mullins (Schlumberger)

“Integrated Rock Geochemistry for Enhanced Organic Rich Reservoir Evaluation” by Rachad Zeriek (Halliburton)

Theme 3: New Technologies and the Way Forward

“Fluid Inclusion Technology and Its Applications” by Norka Marciano Balliache (Schlumberger)

“Geological and Petrophysical Applications of Imaging Infrared Spectroscopy” by Richard Williams (Stratum)

“Depositional Environments Prediction Using Statistical Modeling of Elemental Geochemistry” by Hassan Eltom (KFUPM).

The workshop was very well attended by over 120 participants from Saudi Aramco, academia and service providers. The workshop was sponsored by Schlumberger, DTVC and KFUPM.



SAC workshop November 2019.

07 November 2019 – Pervaiz Iqbal (Regional SME Well Integrity & Production Logging, Baker Hughes) gave the presentation at the monthly technical luncheon on “Advanced Multiphase Flow Meter—An Innovative Approach in Horizontal Production Logging.” This was another well-attended event.

03 December 2019 – Dr. Thorsten Bauch (Business Development Manager, Reservoir Mapping Integration Group, Schlumberger) gave a presentation entitled “Enhanced Geosteering with Seismic and Deep Directional EM—a Turbiditic Channel System Case Study.” In his talk, Dr. Bauch discussed how high-definition deep directional resistivity measurements can be combined with surface seismic data to enhance well placement. A synthetic acoustic impedance model is generated and used to adjust the seismic data in real time. This allows for precise structural prediction several hundreds of feet ahead of the bit in real-time. The case study demonstrates the value of the ability to effectively predict structural changes ahead of the bit in complex environments such as turbiditic channels systems to reduce subsurface uncertainties and eliminate unnecessary additional well cost, while maximizing reservoir exposure. The presentation was well attended by geoscientists of all backgrounds.



SAC November 2019 monthly meeting.



SAC December 2019 monthly meeting. Thorsten Bauch (Schlumberger) (third from left) receiving the SAC speaker's award from the SAC Committee.

Upcoming Events

January 2020 – A committee meeting will be held early January 2020 to wrap up 2019 events and plan for 2020, At the meeting, team members will be recognized for their active contributions in the monthly events and the topical workshops. The team is committed to another successful year in 2020. Happy New year to All!

SOUTHWEST CHINA CHAPTER

General News

On 16 June 2019, the board members of the Southwest China Chapter (SCC) held the first meeting in the State Key Laboratory of Oil and Gas Reservoir Geology and Development Engineering at the Southwest Petroleum University. Hua Wang, Chapter President, the board members, as well as the representatives from the University of Electronic Science and Technology (UESTC), Southwest Petroleum University (SPU) and Chengdu University of Technology (CDUT) attended the meeting and jointly initiated the establishment of the SCC. On June 17, 2019, Mr. Zach Zhipeng Liu, Past President of SPWLA, sent an official letter of congratulations on the establishment of the Chapter.

Since the chapter’s establishment, several meetings of board members have been held. There are more than 100 members in the chapter, mainly research staff, teachers and students from eight universities in southwest China (University of Electronic Science and Technology, Chengdu University of Technology, Southwest Petroleum University,

Sichuan University, Southwest Jiaotong University, Chengdu University of Information Engineering, Chongqing University of Science and Technology, and Chongqing University of Arts and Science). Chapter members also include industry experts from important enterprises of the Chinese oil and gas industry, such as CNPC, SINOPEC, and China Aerospace Science and Technology Corporation.

The SCC holds a monthly board meeting on time to check the implementation of the plan from the last meeting, to discuss the current affairs of the chapter and arrange the next goals. Through several months of unremitting efforts from the board members since its establishment, the SCC has made significant progress. The chapter has developed and maintained an efficient operation of its website, organized the SPWLA Distinguished Speaker lecture, held fund-raising activities with the sponsors, etc. These efforts have gradually expanded the scale of the chapter. At present, the Chapter has been closely funded by major oil and gas companies and oilfield technical service companies in China. The internal exchange platform of the Chapter operates efficiently, providing strong support for growth.

Since its establishment in June 2019, SPWLA Southwest China Chapter has received strong support from SPWLA headquarters. Under the leadership of Professor Hua Wang, the board members are working wholeheartedly towards the construction and the development of the chapter. We are genuinely appreciative of all our sponsors for providing financial support. With the joint efforts from all the members and colleagues, we believe the SPWLA Southwest China Chapter will achieve even greater improvements in the future.



SCC board meeting.

Recent Events

23 September 2019 – Dr. Harry Xie (senior scientist at Corelab) in the United States, gave his SPWLA Distinguished Speaker presentation on “Investigation of Physical Properties of Hydrocarbons in Unconventional Mudstones Using Two-Dimensional NMR Relaxometry.” More than 40 teachers and students from the chapter participated in the seminar. The attendees of the seminar carried out a warm and in-depth discussion. This activity improved the understanding of nuclear magnetic resonance technology and promoted its in-depth application in the oil and gas industry. This activity expanded the impact of SPWLA in southwest China and played an important role in strengthening the exchanges between the academia and the industry of oil and gas in southwest China.



SCC September 2019 meeting.

28 July–1 August – The board members have actively participated in many academic conferences and exchanges, aiming to promote and expand the influence of the Chapter. Professor Hua Wang, Chapter President and Associate Professor Qiaomu Qi, the Chapter Secretary were invited as Keynote Speakers at the 14th International Conference on Theoretical and Computational Acoustics (ICTCA). Professor Hua Wang introduced the recent development on the application of full-waveform acoustic logging technology to evaluate cement-bond conditions, as well as the application of machine learning in borehole acoustics. Associate Professor Qiaomu Qi introduced his work on the extraction of full-waveform sonic attenuation and its application for reservoir characterization in recent years.

20 September 2019 – Professor Hua Wang, gave a talk in the State Key Laboratory of Oil and Gas Reservoir Geology and Engineering at the Southwest Petroleum University. The topic is “Wave Modes and Cement-Bond Evaluation in Cased Wells.” Based on the analysis of the characteristics of the monopole wave field in cased wells, Wang tried to use the information from a new Stoneley-wave mode, which only exists when there is fluid in the outer casing annulus, to improve the cement-bond condition evaluation.

14th International Conference on Theoretical and Computational Acoustics —Theory and Applications of Reservoir Acoustics



SCC presidium members Wang Hua and Qi Qiaomu at ICTCA

14 October 2019 – SPE officially appointed Professor Wang Hua as the program chairperson of the SPE Chengdu Section. The appointment of an important position to a SPWLA member by SPE is beneficial to the deep integration of petroleum engineering, petrophysics and well logging societies, further advancing the exchanges between universities in Southwest China and top international academic organizations, consolidating the ties between academia and industry, and strengthening the communication among organizations in the petroleum industry.

20 December 2019 – A celebration of the 80th anniversary of the first well log run in China was held by the Chapter. Members visited the well in Shiyougou in Chongqing, where the first log in China was run on December 20, 1939. Several talks were given during the celebration.



UTA core workshop November 2019. Members of the UTA SPWLA Student Chapter and the AAPG student chapter were joined by Dr. Carlos Torres-Verdín in learning about the core description process and unconventional resources from Swapan Sahoo and Andrew Bowman (Equinor).

THE UNIVERSITY OF TEXAS AT AUSTIN STUDENT CHAPTER

General News

The Student Chapter of SPWLA at UT Austin is seeking different activities beyond technical seminars and actively cooperating with other student organizations from UT to get students from different backgrounds involved in SPWLA activities.

Recent Events

21 November 2019 – The Chapter partnered with the AAPG student chapter at UT Austin for a special workshop in core description. During this event, Swapan Sahoo and Andrew Bowman (Equinor) explained the core from the Williston Basin, North Dakota, encompassing the Bakken shale interval. This event was very well attended and liked by many of our members as a unique opportunity to learn about the core description process and unconventional resources. In the evening the Chapter hosted a trivia night with the AAPG student chapter. This was a great social opportunity for students from both chapters. Participants with different backgrounds were grouped to learn and answer questions on geology, petrophysics, and petroleum engineering.



UTA SPWLA Student Chapter November 2019. The SPWLA Student Chapter joined with the AAPG student chapter for a social night learning and answering questions on geology, petrophysics, and petroleum engineering.

TULSA CHAPTER

General News

Luncheon Meetings are held on the second Thursday of the month, bimonthly, beginning in September 2019, from 11:30 am to 1:30 pm at The University of Tulsa, Room 121 of Helmerich Hall, 800 S. Tucker Drive, Tulsa, OK 74104. The January 2020 meeting will fall on the third Thursday.

The 2019–2020 Chapter officers are

President	Elizabeth Dickinson
Vice President of Technology	Maureen McCollum
Treasurer/Secretary	Patrick Ryan

Recent Events

14 November 2019 – Paul Craddock (Schlumber-Doll Research) gave his SPWLS Distinguished Speaker presentation on “Thermal Maturity-Adjusted Log Interpretation (TMALI) in Organic Shales”...and we got to make tamale jokes. The meeting was well-attended and we again we had someone drive all the way from Oklahoma City to attend.



Tulsa Chapter November 2019 meeting. Paul Craddock (Schlumberger-Doll Research) presenting.

Upcoming Events

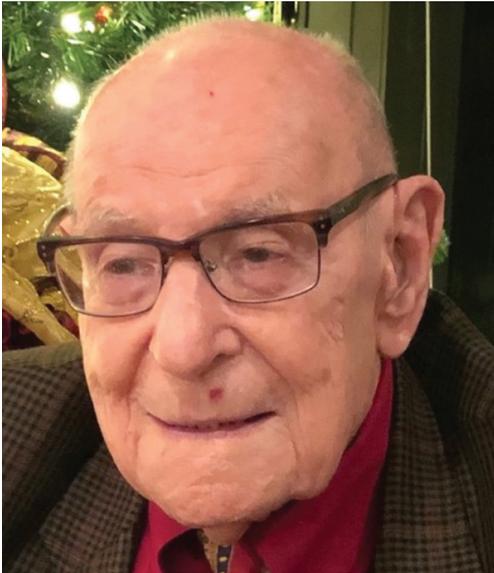
16 January 2020 – TBA

12 March 2020 – Chelsea Newgord (UT Austin) will present a new workflow for joint interpretation of electrical resistivity and NMR measurements to simultaneously estimate wettability and water saturation.

14 May 2020 – TBA

Reach out to us with any questions you may have regarding membership in SPWLA, our luncheon meetings and distinguished speakers, or just drop us a message and let us know how you are and what you are doing. We would love to hear from you! SPWLA Tulsa Chapter’s email address is tulsa.chapter@spwla.org. You can send a letter to our post office box: SPWLA Tulsa Chapter, PO Box 14495, Tulsa, OK 74104-9998.

Louis Magne 1912–2019



individual sports, he kept fit beyond his years with tennis, multimile walks and gym workouts well into his nineties. He continued driving attentively during his centenarian years. He was predeceased by his wife Angela and is survived by son Lawrence and his wife Jane of Pennsylvania.

Compiled from information provided by Fred Juon, Hector Chavez, Philippe Theys and news sources.

Louis Magne passed away in Houston in October this year, nearly reaching the age of 107. Though he was not a member of SPWLA (he was CEO of Schlumberger Overseas when SPWLA was created), he is worth remembering

He had an extraordinary career, as many of us actual SPWLA members who worked for him or met him in his active years, can attest to. He graduated from Ecole des Arts et Métiers, Paris, in 1933. He then became an exchange student in Hannover, Germany, during the agitated 1930s, and served as lieutenant in the French Air Force. In 1935, he met Conrad Schlumberger for an interview, was hired, got training in Romania and started as a field engineer in Lagunillas, Venezuela. His next assignments were in Trinidad, West Indies; Bakersfield, California; and Falfurrias and San Antonio, in Texas. He became a US citizen in 1951. In 1959, when SPWLA was just being born, he transferred to Paris to become head of Schlumberger Eastern Hemisphere (Europe, Africa, Middle and Far East). He moved to Caracas as head of Latin America (Schlumberger Surencó) then to Houston as head of both Americas and Vice President of Schlumberger Ltd. He retired in Houston in 1977.

Louis rarely lavished funds on himself but, rather, helped those in need just as others had aided him earlier. He donated the bulk of his estate to children's health and welfare organizations, created two international scholarship programs for engineers, and contributed to a wide range of other medical and educational activities. Always active in team and

Welcome New Members – October 15, 2019—December 16, 2019

Abusin, Elhadi, Qatar Petroleum, Doha, Qatar
Aceros Florez, Cristian, UIS, Bucaramanga, Colombia
Akarapatima, Thanyanat, PTTEP, Chatuchak, Bangkok, Thailand
Alostath, Mohammad, KOC, Alsalam, Alfarwania, Kuwait
Ardila Alvarez, Alejandro, UIS, Bucaramanga, Colombia
Bourne, Barry, Terra Petrophysics Pty Ltd, White Gum Valley, WA, Australia
Carnegie, Andrew, Woodside Energy, Perth WA, WA, Australia
Chinomes Gualdron, Luis, UIS, Bucaramanga, Colombia
Chui, Jane, MIT, Cambridge, MA, United States
Foster, Jonathan, Texas A&M University, College Station, TX, United States
Garavito Luque, Tanya, UIS, Bucaramanga, Colombia
Geng, Jianhua, Tongji University, Shanghai, China
Gibson, Robert, TGS, Houston, TX, United States
Gilbert, Louis, Louis Gilbert & Associates, Inc., Metairie, LA, United States
Gomez, Beatriz, OXY, Houston, TX, United States
Han, Yifu, Schlumberger Technologies, Beijing, China
Hartman, Chad, Stratum Reservoir, Golden, CO, United States
Jaramillo, Nadya, ErdStratus, Caracas, Miranda, Venezuela
Jhagmohan, Kevin, Schlumberger, Barrackpore, Trinidad & Tobago
Jones, Phillip, Chesapeake Energy, Moore, OK, United States
Knight, Slagal, Schlumberger, Houston, TX, United States
Kotwicki, Artur, AkerBp ASA, Stavanger, Norway
Li, Meng, Xi'an Shiyou University, Xi'an, Yanta, China
Mamtimin, Mayir, Halliburton, Spring, TX, United States
Mathur, Ashish, WDVG Labs, Houston, TX, United States
Matson, Michael, Occidental Petroleum, Houston, TX, United States
Medina Leguia, Carlos, UIS, Bucaramanga, Colombia
Mohammadnejad, Hamed, Tufts University, Medford, MA, United States
Ngoc, Pham, Vietnam Petroleum Institute, Ha Noi, Vietnam
Nordin, Taufik, Petronas Carigali Sdn Bhd, Bandar Puchong Jaya, Puchong, Malaysia
Olivares, Angel, Weatherford, Naucalpan, Edo. de Mexico, Mexico
Pham, Trang, Vietnam Petroleum Institute, Hanoi, Vietnam, Viet Nam
Piotti, Jose Gabriel, Aramco, Dhahran, Eastern Provinc, Saudi Arabia
Qiu, Yu, Massachusetts Institute of Technology, Cambridge, MA, United States
Quint, Edwin, Shell, Rijswijk, Zuid Holland, Netherlands
Ramírez Niño, Dana, UIS, Bucaramanga, Colombia
Rangel Niño, Diego, UIS, Bucaramanga, Colombia
Ribon, Helena, Ecopetrol, Bogota, Colombia

Singhal, Sakshi, Oil and Natural Gas Corporation Limited, Gujarat, India
Stirø, Øyvind, Lundin Norway AS, Oslo, Norway
Thevoux-Chabuel, Hugues, INT, Inc., Houston, TX, United States
Thomas, Hadrien, Paris-Saclay University, Orsay, , France
Usaitis, Vytautas, Halliburton, Spring, TX, United States
Vijapurapu, Rohan, Texas A&M University, College Station, TX, United States
Villamor Lora, Rafael, MIT, Cambridge, MA, United States
Williams, James, Phoenix PetroCorp, Inc., Frisco, TX, United States
Zahn, Erika, Weatherford, Houston, TX, United States
Zeybek, Murat, Schlumberger, Moscow, Russia, Russian Federation
Zhang, Wei, University of Electronic Science and Technology of China, Chengdu, SiChuan, China
Zuleta Guerrero, Gean, UIS, Bucaramanga, Colombia