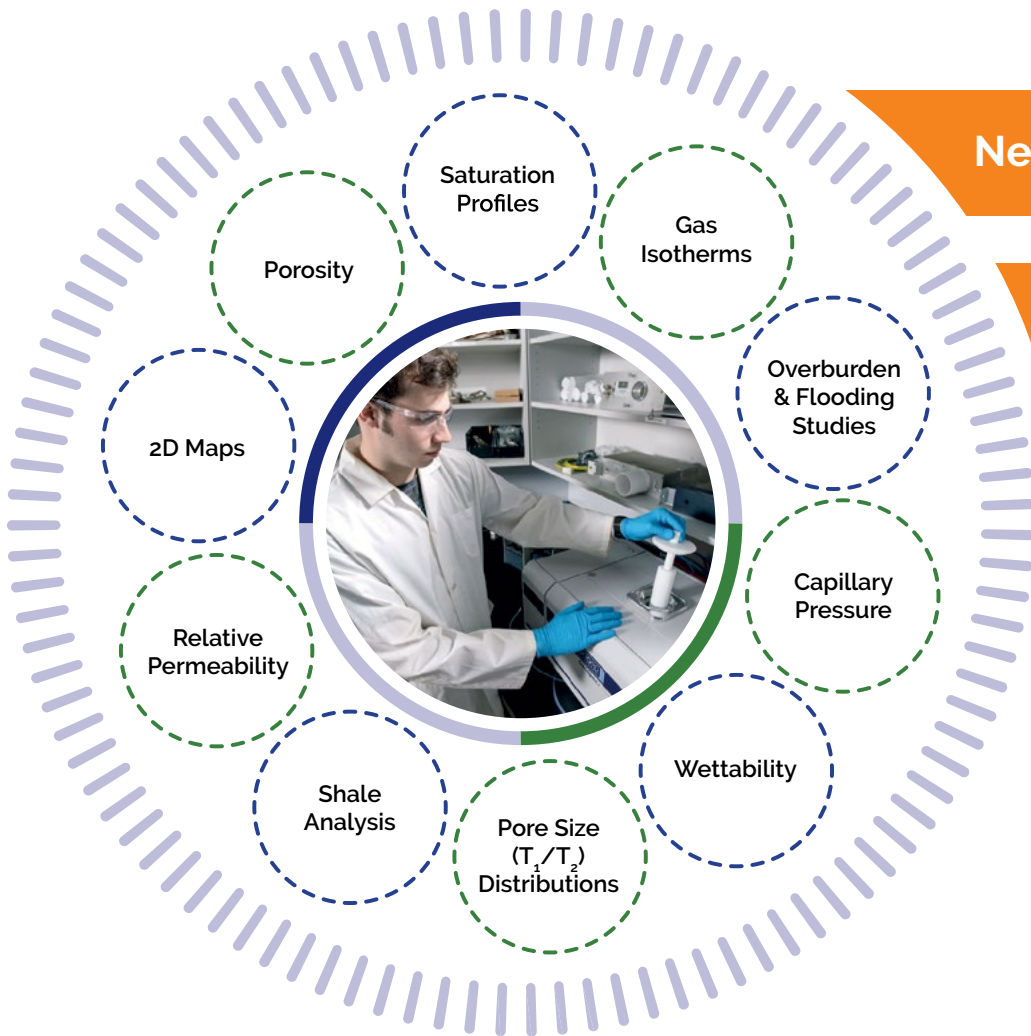


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November 1–3, 2022

*Practical Seismic Petrophysics:
The Effective Use of Log Data for Seismic Analysis*
Instructors: Tad Smith and Matt Blyth
Online Training Webinar
www.spwla.org

November 3–5, 2022

The 13th UPC International Symposium
Hosted by The East China Chapter of SPWLA
Topic: Frontiers and Challenges of Electric Logging Technology
www.spwla.org

November 28–December 1, 2022

An Introduction to Borehole Acoustics
Instructors: Adam Donald and Matt Blyth,
Schlumberger
Online Training Webinar
www.spwla.org

June 10–14, 2023

SPWLA 64th Annual Symposium
Margaritaville Lake Resort
Lake Conroe, TX, USA
www.spwla.org

February 14–16, 2023

Practical Geomechanics Training Class
Instructor: Tom Bratton, PhD
Online Training Webinar
www.spwla.org

About the Cover

The SPWLA is committed to educating our membership on alternative subsurface and energy transition without neglecting our more traditional disciplines. Check out this issue's article on nuclear waste repositories.

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



Tegwyn JP Perkins
2022–2023
SPWLA President

Hello, and welcome to my third column as SPWLA President for the *SPWLA Today* newsletter. The first item I'd like to address is a comment that I read on LinkedIn that complained that it was always the "same old faces" on the SPWLA board. I agree that two of us have held tenure on the board for a good number of years now, but the majority are relative newcomers. **Jennifer Market** and I made our first appearances on the board in 2012 and 2009, respectively, but only three others, **Nelson Suarez**, **Kelly Skuce**, and **Adam Haecker**, have held tenure once before. For the remainder—that's nine board members—this is their first time on the board. One reason why the board may seem familiar is that before running for the international board, they have held positions on local chapter and Special Interest Group boards, volunteered for various committees, taught classes in the name of SPWLA, or presented at the Annual Symposium, chapter events, or webinars. In short, they have gladly given their personal time to support the society.

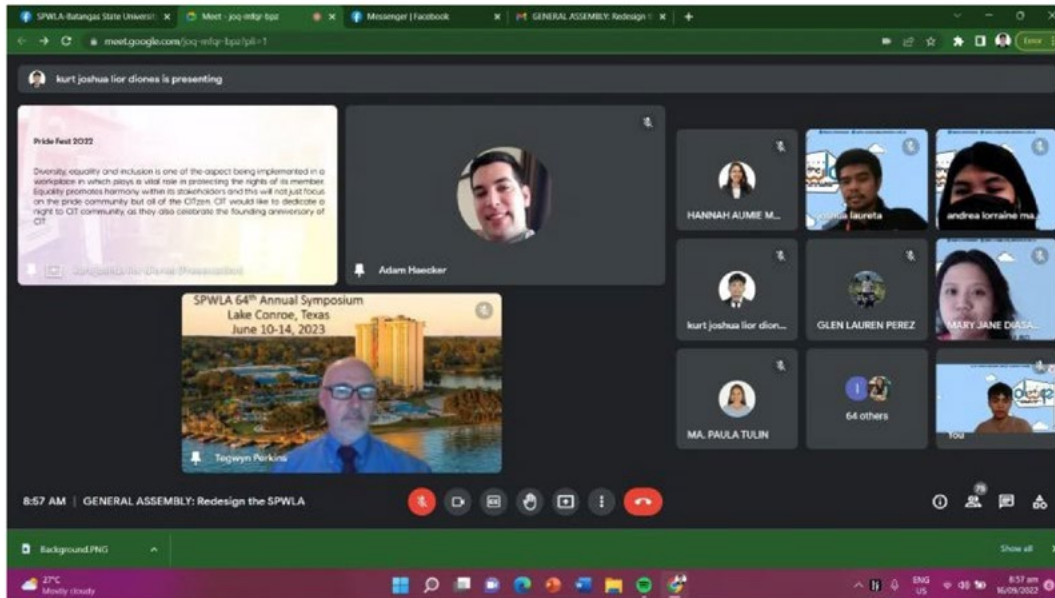
Another reason to raise this now is that **Katerina Yared**, the immediate Past President, is now head of the Nominations Committee for next year's elections and is actively looking for individuals who want to contribute to the society. If you, or someone you know, is interested in running for a position, please contact me at the email address below or ping me on LinkedIn, and I will pass on your contact details.

In September, I spent two nights in a row attending events in the Far East from my home in Wales. On the Wednesday, I gave a keynote address at the 27th Japanese Formation Evaluation Society (JFES) Symposium. There has been a long tradition of SPWLA Presidents (or President Elects) speaking at this event, and I really wanted to attend the event in person. Unfortunately, Japan was still in a COVID lockdown and wasn't receiving international visitors. However, Zoom came to the rescue again, and I was able to present online. In the Q&A that followed, the subject of training in alternative subsurface was raised. Please look for several events dedicated to this discipline over the coming year.

I'd like to congratulate the winner of the SPWLA President Award at the JFES Symposium, **Ahmad Bahaa Ahmad** from Kyushu University, for his presentation on GAS CHANNELS AND CHIMNEYS DETECTION USING 3D SEISMIC DATA AND CONVOLUTIONAL NEURAL NETWORKS (CNNS). The competition was very close, and I would like to wish all entrants the best in their future endeavors.

The following night it was my honour to speak with the SPWLA Student Chapter of Batangas State University. What an amazing student body they are! At one point, my co-presenter, Adam Haecker, and I had over one hundred attendees dialed-in online. It also marks the first time in my life that I have been heckled during a presentation—not by the students, of course, but by Adam! I'd like to thank the organizers of the event "Redesign the SPWLA: We Are Drilling a Multilateral Well of Connections" for an excellent agenda that included talks, videos, presentations, and a raffle. Thank you for my Certificate of Appreciation!





Together with AAPG, EAGE, and SPE, SPWLA is an endorsing society of the 2022 International Geomechanics Symposium (IGS). This event takes place in Abu Dhabi, UAE, on 7–10 November 2022 and is hosted by ARMA, DGS Dhahran, and SEG. This is an excellent example of sister societies cooperating for the greater good of the science discipline. The “Best of SPWLA 2022” will be represented by the following paper:

SPWLA-2022-0017: A New Method of Integrating Rock Physics and Geomechanics for Simulating Deformable and Permeable Behavior of Tight Carbonate for Optimized Reservoir Development; Umesh Prasad, Amer Hanif, and Pranjal K. Bhatt, Baker Hughes; Hayat Abdi Ibrahim Jibar, Karem Alejandra Khan, and Andi Ahmad Salahuddin, ADNOC Onshore.

In addition, I will be chairing Session 10 on “Shear Physics and Frictional Dynamics” and taking part in a “President’s Panel,” where we will be discussing the energy transition and challenges for both membership and diversity, equity, and inclusion.

While on this subject, I am really pleased to announce that we have formed a Diversity, Equity and Inclusion (DE&I) committee. Chaired by **Julie Rowlands**, it is being formed to educate and elevate awareness of diversity, equity, and inclusion within SPWLA and create a welcoming environment for all. Please read their article in this edition for more details. The DE&I committee is interested in hearing from any member who would like to actively contribute. Please email dei@spwla.org with your thoughts and suggestions.

Last month, I attended the two-day NMR SIG Conference held at the Halliburton Main Campus in Houston. The meeting was entitled: “Spinning Up an NMR Conference After a Two-Year *Relaxation Time*” and was originally scheduled for last fall/autumn. The talks were excellent, and I’m looking forward to working with two of the organizers, **Ron Balliet** and **Ron Bonnie** (aka The Two Ronnies), on developing a bespoke NMR mnemonics database not just for curves but for all things related to NMR logs and core.

The Abstract Submission deadline for the 2023 SPWLA Annual Symposium is rapidly approaching, and VP Technology, **Iulian Hulea**, assisted by **Robert Gales**, are busy organizing their Technology Committee.

The annual symposium website, spwlaworld.org, is the place to submit your abstracts and learn about the latest news for SPWLA 2023. It’s a work in progress, and more information will be added frequently as the symposium approaches.

Since the last edition of *SPWLA Today*, we have continued establishing the feasibility of merging spwla.org and spwlaworld.org into a single website. We are currently evaluating two products (MembershipWorks and MemberPress) and hope to decide soon.

As a reminder to everyone, the **2023 SPWLA Symposium** will be held at **Margaritaville Lake Resort** in **Lake Conroe, Texas, USA**, on **June 10–14, 2023**, and will be hosted by the **SPWLA Houston Chapter**. As well as being a North American Regional Director, **Javier Miranda** is also the Chair of the Organizing Committee for SPWLA 2023. Currently, he is selecting his Committee, and if you are interested in joining, please contact him at director-na1@spwla.org. Here is an aerial view of the 2023 symposium headquarters:

From the President



What will this year look like for SPWLA? Well, we will continue our focus on education. We plan to add additional courses and make them more accessible at times that suit all our members.

We will continue to focus on making SPWLA a more international organization. I am planning on visiting as many chapters as possible over the coming year, so please let me know if you are planning an event and have room for one more attendee.

We all recognize that our industry is changing, and it is SPWLA's responsibility to prepare its members for it. We will continue to educate our membership on alternative subsurface and energy transition without neglecting our more traditional disciplines. The positive feedback from the **Subsurface Sequestration and Storage of Nuclear Waste and Carbon Dioxide** workshop has been immense, and we will continue to build from there.

Finally, SPWLA is diverse and inclusive. We are committed to changing attitudes and encouraging participation from diverse communities. The creation of a DE&I committee dedicated to this is only the start. If you have any ideas or would like to get involved, please email dei@spwla.org.

As the Football World Cup begins later this month, I would be remiss in not quoting from the official song for the Welsh national football team:

Rydyn ni yma o hyd! / We are still here!

Kind regards,
Tegwyn JP Perkins
President 2022-2023
President@spwla.or

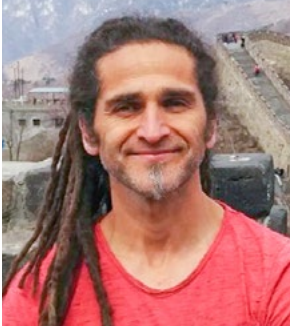
From the Editor



Stephanie Ellen Perry
2022–2023
Vice President Publications

A warm welcome to all who are reading our newsletter this month and an exciting hello to anyone new to the publication. We hope everyone is thriving as the end of 2022 is upon us. The organization and chapters had a busy, fun, and exciting past couple of months with various networking activities globally—some of which you will see highlighted throughout this month's newsletter. We are thrilled to encourage and see the involvement of student chapters globally as we all share our knowledge and continue to live a sense of community inside and outside our discipline. As the petrophysical community expands into various sectors of business worldwide, it's great to see and have contributions from those colleagues in the renewable energy and mining sectors. Let's continue encouraging each other to share our day-to-day learnings and applications. We hope the noted contribution continuing the discussion on nuclear waste sparks interest, questions, and continued knowledge growth for us all. As always, thank you to everyone for their contributions and insights, as well as news of chapter events and activities for us all to stay informed and involved.

Kindest regards and well wishes,
Stephanie Perry
Vice President Publications



Julian N. Hulea
2022–2023 Vice President
Technology

Preparing for Another Remarkable Symposium!

Let me start this column with an update on the preparations concerning next year's symposium. The first step was taken in August when we asked the membership to submit proposals covering special topics of interest that we call special sessions (including the SIGs). Following the review process, the following sessions have been proposed:

1. Beyond Picking Dips From Image Logs
2. Geological Evaluation While Drilling
3. The Role of Advanced Borehole Acoustics in a Diverse Energy Industry
4. New Landscape of Mud Gas Logging – Geoscience Meets Engineering
5. Petrophysics Beyond Petroleum – State of Technologies
6. Monitoring and Verification of Containment in CCUS projects
7. Petrophysical Workflow Automation With AI/ML
8. Experimental and Digital Core Analysis Applications in Support of Carbon and Hydrogen Storage Projects
9. NMR for the Next Frontiers: Machine Learning, High Field, and New Logging Applications

The session champions must now popularize the sessions and ensure a minimum number of accepted abstracts make it through the review process. In combination with the special sessions, the more general topics attempt to attract a wide range of papers covering topics from Automation to Integrated Reservoir Modeling. The call for [abstracts is open](#), and the submission deadline is not too far away—November 7. Hope you are well along the way in preparing your proposals!

In parallel, we are now selecting the Technical Committee members, a group of enthusiastic individuals who work toward delivering a selection of the best technical contributions to the symposium.

Worth remembering is that by volunteering, submitting your paper proposals, and attending your chapter meetings, you help the organization!

Once again, thank you for your contribution to the society!

Sincerely,

Julian N Hulea, Shell
Vice President Technology

Learning Opportunities



Kelly Skuce
2022–2024 Vice President
Education

Hello SPWLA Colleagues,

Hopefully, everyone has enjoyed the summer and is happy to see the fall colors come out with all the students back at school since my last column. The Distinguished Speaker list was out in my previous column, and now I can present the **Global** Distinguished Speaker list. I was waiting for a few last-minute additions to the list below. The Global Distinguished Speakers differ from the other DS as they are chosen by the Regional Directors and SPWLA chapters around the world from previous papers and presentations at regional meetings and conferences, but not excluding the SPWLA International Symposium.

2022–2023 Global Distinguished Speakers

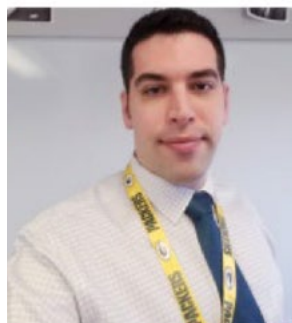
Name	Title
Adesoji Adedamola	Integrated Approach to Leak Detection Using High-Definition Electromagnetic Technology, Production Logging, and Ultrasonic Logs – A Case Study
Amr Serry	Carbonate Brownfield Development, the Role of Pulsed-Neutron Logging
Chiaki Morelli	Integrated Fracture Analysis with Borehole Geology, Acoustic, and Geomechanics for Flow Zone Identification; Case Study From Volcanic Geothermal Well in Japan
Lucas Abreu Blanes de Oliveira	Improving the Calculation of Petrophysical Properties in Vugular Carbonates Using Logs and Rock Samples: A Case Study in Brazilian Presalt Well
Mahmoud Eid	Characterization of Rock Surface Roughness and Its Impact on Formation Evaluation
Marie Lefranc	Deep-Learning-Based Automated Sedimentary Geometry Characterization From Borehole Images
Rodney Garrard	Subsurface Evaluation for Nuclear Waste Storage
Takeaki Otani	Integrated Mineral Quantification Technique for Volcanic Reservoirs
Zoya Heidari	Advanced Formation Evaluation of Organic-Rich Mudrocks, Honoring Rock Fabric and Geochemistry

Please contact me, your Regional Director, or the SPWLA office if you want any of the speakers to attend your event either in person or virtually if they cannot travel.

There will be more courses from the SPWLA. Some are scheduled already, and others need confirmation and scheduling. Pay attention to our social media on LinkedIn, Twitter, and Facebook, or our website at www.spwla.org to see what courses are upcoming.

Please send me an email to vp-education@spwla.org if you are thinking of an idea for a course or topical conference and want to find out if we think the same!

Keep on learning,
Kelly Skuce
VP Education



Adam Haecker
2021–2023 VP Finance,
Secretary, and Administration

Hello Intrepid Petrophysicists,

As I promised in the last edition of *SPWLA Today*, we now have the financial results of Stavanger to share. The conference was certainly the most successful one we have had since the beginning of the pandemic, thanks, in no small part, to the incredibly low-operating costs negotiated by the Norwegian Chapter. I don't think I could find this rate now if I tried. We had 456 attendees at the symposium. Total revenue from the symposium was approximately USD 552,000, and total expenses were approximately USD 141,000. This netted the society approximately USD 411,000. This will help restore some of the losses we have taken in the last few years. Below is a table with approximate costs. I do not show exact numbers due to the potential for fraud. If any member is interested, please contact the business office for additional details. We believe in providing financial transparency to our members, but you cannot be too careful posting financial information on the internet.

Here's to another success in Conroe, despite URTeC picking the same week as us. It is really disheartening that they don't even consult which societies have conferences before choosing a date. I doubt they would schedule it for the same week as SPE ATCE, but c'est la vie.

	INCOME (\$ Thousands)	EXPENSES (\$ Thousands)	NET (\$ Thousands)
Registration	\$365		
Exhibition	\$100		
Sponsorship	\$86		
TOTAL INCOME	\$552		
Hotel		-\$102	
Exhibition		-\$11	
Staff Travel		-\$6	
Other Misc Expenses		-\$22	
TOTAL EXPENSE		-\$141	
Subtotal Net Profit			\$411
Chapter Share of Net		-\$27	
TOTAL NET PROFIT			\$384

Until next time,

Adam Haecker

VP of Finance, Secretary, and Administration



Mathilde Luyck
2021-2023 VP Social Media

Dear SPWLA Colleagues,

First, I would like to thank all who participated in the “**SPWLA Communication Survey**.” We received 145 answers, and the survey is now officially closed. Our goal was to learn how you prefer to receive SPWLA-related information and the type of information you want to hear about most. Our team has started analyzing your answers and thinking through your suggestions. We will be sharing the results and outcome of the survey in the social media column of the next newsletter in January.

SPWLA events are now back in full swing after the usually slower summer months. The Distinguished Speakers have been announced, and Distinguished Speaker webinars (follow **#spwlads!**) have resumed with a first webinar on ultradeep directional resistivity measurements held by Supriya Sinha and Artur Walmsley at the end of September. The Topical Conference hosted by the NMR Special Interest Group kicked off on October 6, and many attendees met up afterward with local SPWLA members at a happy hour organized by the SPWLA Houston Chapter.

#spwlads



#spwlatopical



THE FEED



In case you missed it, a short live video of the SPWLA Houston happy hour event was shared on all SPWLA social media pages! Our team plans to continue sharing video content with members of upcoming networking events, like the SPWLA golf tournament, on October 24. In the next 2 weeks, we will also share a short video where the SPWLA Board of Directors and the Regional Directors introduce themselves, formally, but mostly less formally, to the SPWLA membership. We really hope you enjoy it and that it helps you put faces and names on some of the volunteers who currently lead our society.

If you have video footage of local chapter events you would like to share with the broader membership, as always, reach out to vp-socialmedia@spwla.org or just tag [@SPWLASocialMedia](#) on LinkedIn!

Mathilde Luycx
Vice President Social Media
(+1) 512-775-0815
VP-SocialMedia@spwla.org



Regional Understandings—North America 2



Matt Blyth
2021–2023 North America 2
Regional Director

We are now in the middle of the fall speaker season for most chapters in the NA2 region. We are seeing a mix of online-only, in-person-only, and hybrid events. It seems like, even though we were limited to online only for two years of COVID, not everyone wants to get back to in-person-only events, and having an online component to events is still very popular. One of the main reasons is the geographical reach it has given many of our chapters, as they can advertise local talks on social media and pull in attendees from all over the globe, along with joining chapters on the other side of the US in hosting events. As previously reported, the NA2 region is split between two large chapters (OKC and Denver) that have historically done very well and are seeing reasonable attendance at events this fall, along with a series of smaller chapters that are dealing with a much-changed oil field in the US post-COVID. Our OKC and Denver Chapters have both returned to in-person events, and I was able to join the OKC Chapter for their September lunch meeting and to meet the board there. I hope to visit as many of the other chapters in the NA2 region as I can before my tenure ends at the 2023 Annual Symposium in Conroe, TX. The OU Student Chapter is looking for companies and organizations to visit as chapter activities. They are interested in visiting

core labs, service company facilities, and any other similar activity that would interest their student members. If you are in the OKC area and would like to host the OU Student Chapter for a visit to your facilities, please contact the Chapter President, Daniel Ferreira, at daniel.ferreira@ou.edu. Also, many chapters are looking for interesting speakers outside the usual list of Distinguished Speakers. If you are within the NA2 region and have an idea for a talk, please reach out to your local chapter and see if they are interested. Many are finding it hard to allocate speakers, and there are plenty of open opportunities to present. With hybrid events being the norm, you can easily present to a chapter many miles away without needing to travel. Lastly, of course, I need to plug the upcoming annual symposium and remind everyone that the abstract submission window is still open! Please consider submitting an abstract and coming to Conroe to present if you are accepted!

Matt Blyth,
NA2 Regional Director

Regional Understandings—Latin America



**Nelson “NSA” Suarez
Arcano**
2022–2024 Latin America
Regional Director

Dear Petrophysicists and Colleagues,

As the end of the year approaches, I want to thank all the local chapters in LATAM for their good contributions to our society. My job is simple—to be that voice between the local chapters and the board of directors—and we have been doing that effectively.

Colombia, you received me so well during my trip last summer, and now with the start of in-person events (this November), I am sure the chapter will continue to grow and spread knowledge.

La Argentina is a marvelous chapter with great leadership that is bringing the attention of not only one country but the whole region as well.

Brasil, you have been doing well with your “Reuniao Mensal” (monthly meetings), and we are so eager in the SPWLA to read about your bid proposal to host the annual symposium.

On a special note, in September, we had the student chapters from Argentina, Brasil UFRJ, Colombia UIS, and Houston join together for an excellent three days of presentations by amazing professionals. Surely the students had a blast of knowledge! And we had a good time, too!

For the rest of the countries in LATAM (i.e., my beloved Mexico? Peru? Ecuador?), let’s chat and discuss how your colleagues can benefit from an SPWLA membership and how we can better engage them. *My door is always open.*

One more thing, I invite all young professionals to read “The Bridge” section inside this newsletter. This month is dedicated to those “soft skills” that we should take very seriously!!!

Thanks / Gracias / Atenciosamente,

Nelson “NSA” Suarez Arcano
Latin America Regional Director 2022–2024
Director-ME@SPWLA.org SPWLAYP@SPWLA.org
www.linkedin.com/in/nelson-nsa-suarez-arcano



Eva Gerick
2021–2023 Europe
Regional Director

Dear SPWLA Community,

In the last couple of months, I've been able to reconnect with the Norwegian Formation Evaluation Society (NFES) and London Petrophysical Society (LPS) in person and virtually, and it's been a pleasure to see the continued high-technical quality and engagement from our European chapters.

LPS held a hybrid seminar on "Formation Testing" on September 13, with nine technical talks covering topics like fluid sampling in challenging environments, AI for job planning, field-wide pressure surveillance, and new technology measuring bound-water pressure. It was very well received by almost 70 attendees, equally split between in person and online.

The week after, I was in Stavanger and met the NFES Board informally over dinner. Lovely to see outgoing and new board members in person and listen to their experiences and ideas for our community.

Before I leave you to continue reading the other columns, I'd like to direct your special attention to this issue's article on "Nuclear Waste Repositories, a New Frontier for Petrophysical Engineers" by Rodney Garrard. I was fortunate to listen to a couple of his talks, and it was always highly informative and definitely time well spent.

All the best,

Eva Gerick

2021–2023 Europe Regional Director

Director-Europe@spwla.org





Jennifer Duarte
2022–2024
Middle East/Africa
Regional Director

Dear SPWLA Members,

Where has the year gone? It's already November. In the Middle East, some chapters are still hosting online events, but we have also seen some chapters return to in-person events. SPWLA SAC had its first in-person Lunch and Learn event in October, while Dubai and Oman Chapters held their events online. Meanwhile, Abu Dhabi Chapter called for board elections, and we will soon hear news about the new board.

I would like to take this opportunity to congratulate the newly elected officers of the SPWLA Student Chapter at KFUPM (King Fahd University of Petroleum and Minerals) in Saudi Arabia for the 2022–2023 academic year. I met with Saleh Mohammad AIDhalaan, the recently elected Student President. We had a fruitful discussion via Teams about the chapter's orientation with the new student board. Supported by Dr. Amjed Haddan (Chapter Mentor) and Dr. Ahmed Farid (Faculty Advisor), the future of this student chapter look exciting. I wish Saleh and the entire board my best wishes for their success, and I look forward to working with you. The newly elected board is listed below:

- President: Saleh Mohammad AIDhalaan
- Vice President: Bader Alrowaie
- Membership Chairperson: Faisal AIDawood
- Finance Chairperson: Hamza Brmandah
- Events Chairperson: Rayan AlZahrani

As many of you already know, the Distinguished Speaker list for 2022–2023 is now available. The webinar series started with a great lineup of excellent speakers. I was fortunate to moderate one of them. Stay tuned for more details on upcoming webinars. You won't want to miss these technical talks presented by great speakers.

Until next time,

Jennifer Duarte
SPWLA Middle East/Africa
Regional Director
Director-ME@Spwla.org

Introducing

SPWLA DIVERSITY, EQUITY & INCLUSION



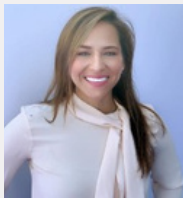
OUR PURPOSE...

To become and be an organization supported by people who are open-minded, accepting, non-judgmental, and willing to embrace humans of all kinds. We all become who we are through genetics and experiences. There are some diversities inherited unto us that we can't control and others we can. Regardless of what a human chooses to be, or relate or identify to/as, it is incumbent upon their peers to strive to not judge; To be colleagues who set an example of an accepting culture where we all have room for growth and to shine. To raise people up and support our diverse backgrounds, experiences, and identities. To create a safe environment and platform where everyone feels welcome, accepted, celebrated, and can freely share without fear.

Meet

THE TEAM

JENNIFER DUARTE



Jennifer Duarte

Regional Director Middle East/Africa
Geoactive Ltd
Dubai,
UAE

STEPHANIE PERRY



Stephanie Perry

Vice President Publications
Continental Resources
Houston, TX,
USA

KATERINA YARED



Katerina Yared

Past President
S M Energy
Denver, CO,
USA

JULIE ROWLANDS



Julie Rowlands

DE&I Chair
Noesii Limited
Darowen, Wales,
UK

What's on?

EVENTS AROUND THE GLOBE

CALENDAR

November

Islamophobia Awareness Month

Purple Tuesday

Movember

Go to SPWLAworld.org for all Nov/Dec events

Get involved!

YOUR VOICE IS IMPORTANT TO US!

DEAR SPWLA MEMBERS,

I'm very honoured to be one of the founding members of the new SPWLA Diversity, Equity and Inclusion committee along with Jennifer Duarte, Stephanie Perry, and Katerina Yared.

Over the coming year, we intend to develop an extensive DE&I service for our members. We're currently creating a comprehensive web presence, looking to increase engagement in our LinkedIn group, hoping to meet with you at events and exhibitions, and most importantly, encourage you to become personally involved in the development of our DE&I initiative.

We'd love for you to contribute to items, such as the Calendar of Global Events, join discussions in our LinkedIn group, maybe help to raise awareness by telling your story in a podcast interview, and contribute directly to making the work of the committee relevant.

I look forward to serving you and hearing from anyone who has an interest in making our DE&I initiative successful for its members. Please do not hesitate to contact me, or anyone else on the team, at any time.

Best wishes

Julie Rowlands

Diversity, Equity & Inclusion Chair

Join our LinkedIn group: SPWLA Diversity, Equity &

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November 2022

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In this edition:

Let's Talk About
Soft Skills

With Nelson "NSA"
Suarez Arcano

Haiku

Let's Talk About Soft Skills With Nelson "NSA" Suarez Arcano



Nelson "NSA" Suarez Arcano

Dear Young Professional,

This will be the last "The Bridge" of 2022. If you made a promise to yourself at the beginning of the year, one such as "I'm going to grow my career," "I'm going to get consistent with my work deliveries," "I'm going to create value within my organization that gets me better appreciation," or "I'm going to create content in LinkedIn that builds a better personal brand to look more employable," but still haven't done what you promised yourself at the beginning of the year, it is never too late. However, today we will focus on an important subject, **"soft skills."**

To tell us more about this, we had the pleasure of speaking with Nelson "NSA" Suarez Arcano, a petroleum engineer from the Universidad De Oriente in Venezuela and Heriot-Watt in the UK. He is a former SPWLA Middle East/Africa Regional Director and the current 2022–2024 Latin America Regional Director. He is the managing director of Roccia Energy and Inter-Rock Mexico.

Nowadays, the world is changing faster than we really think and so is our beloved oil and energy industry. We always hear lots of stories from either experienced or inexperienced colleagues about that missed opportunity in their career—either a job, a promotion, or that awaited challenge, despite being the best candidate with the best **"hard skills."** That "loss of opportunity" most of the time leads to anxiety and frustration, and in the worst case, it can make a good professional feel like Thor in his worst shape (analogy from *The Avengers* when Thor felt "non-worthy").

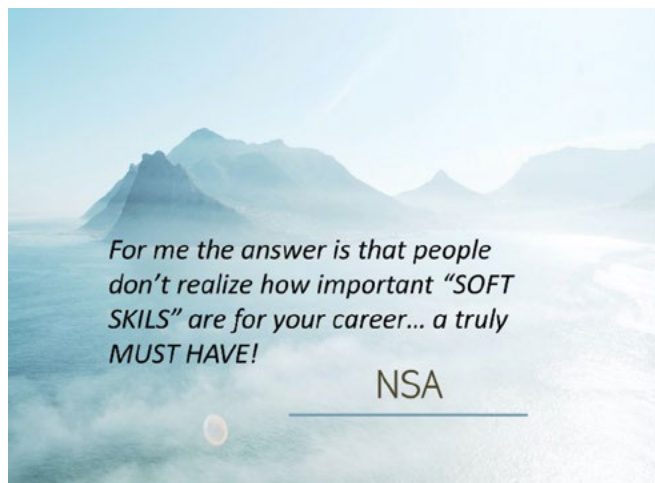
Now the question is: If it wasn't due to the hard skills, and the soft skills are really that important, why do we, as professionals and even the brightest minds in our industry, have to learn them the hard way?

Shall I blame you as a young professional (YP) for that?

Not really, since we always hear that companies nowadays are business-driven, sales-driven, results-driven, production-driven, and profit-driven, among others.

However, the truth is that companies are finding equally attractive areas, like how you effectively communicate with others (peers, managers, subordinates, clients, etc.), how you write an email, your leadership skills, your capacity to adapt, and your strategic thinking.

For example, I recently attended an interview with one of the most known companies in our industry. The only questions were about my soft skills in my second interview, starting with "Who are you?" (and believe me that "I am Jhonny Rocket graduated from the University of..." was definitely not the answer).



My fellow young professionals, soft skills are important, and before I forget, there is a reason why more and more organizations have a specific task force dedicated to DI&E (diversity, inclusion, and equity), and the SPWLA is part of that change, too!

Now, you know that at any point in your career, you must know yourself and self-assess your soft skills. Go ahead and ask that good friend or colleague, as they also know your strengths and weaknesses.

But Nelson, what recommendations can you give to the YPs to progress in their career from a soft skills point of view?

Let's summarize it here:

1. Do you remember that first question in my interview I mentioned above? Who are you?... well, that's number one. You should know yourself, know who you are, and be aware that who you are is dynamic (it changes with time). The fact is this kind of knowledge is as important as how to do your job.
2. Do you remember Obiwan Kenobi saying, "Patience, Padawan?" Well, that's number two. Always listen and observe carefully. Even if you don't like what they are saying, you should always control yourself.
3. Loyalty can betray you these days. It sounds counterintuitive because, in the past, the more time you spent with a company was used as a pitch for something big in your next job opportunity. Now, we don't see that anymore. I can tell you from my own experience that when HR sees on my resume that I worked for 10 years at the same company, they ask me why.
4. Go big or go home. That is what my former boss used to say. Basically, he meant that you would not get any rewards if you didn't take risks. However, always learn from the past. Otherwise, you are not taking a risk; you are being stupid.
5. Listening is an art! You should listen and learn how to do it, but then do it your way! What I mean here is that, yes, listen to your superiors, but once you know how it is done, try and do it your way. Workflows can always be improved. With this said, always find a mentor. I had a few in my career and even some to this day. They keep teaching me, and I keep listening.
6. Do not be cataloged as the complainer of the group. No one likes a whiny grownup. This reminds me of the art of war: "Choose your battles wisely" and know when you should keep your mouth shut.
7. Don't be a yes man. If you don't know something, just say I don't know (yet). If you can't deliver, don't say yes. Although it is sometimes ok to say no, be extra careful how you communicate and say no. Remember that just because it hasn't been done before doesn't mean it cannot be done.
8. Be careful with analysis paralysis. I have seen many brilliant minds in our industry get stuck and not be committed to actions. If your job is to think about all scenarios, then it might be ok to sit and procrastinate. However, if you are in operations, you should avoid procrastination or delayed responses.
9. Don't be a perfectionist. This is a double-sided sword. Your attention to detail can be a blessing or a curse.
10. Manage your time, or someone else will do it for you. Remember that some things require common sense. I once heard from an Australian petrophysicist that "common sense is the sense that people have the least."
11. Luck doesn't exist. It is always a combination of being prepared and ready when the opportunity knocks on your door.
12. Don't stop challenging yourself and others. Amazon calls it the Kaizen process, which comes from the Japanese "change for the better."
13. Do not confuse a demanding boss with a bully. You should learn how to deal with any.
14. I intentionally leave this for the end. Be honest, even if your boss doesn't want to hear the "ugly truth." Lots of people may disagree with me. I have even gotten into trouble in past organizations for being "too honest," actually. However, that is a decision you should make early in your career. Similar to cheating in school, you either do it or don't, but you know which one is the right thing. Be consistent.
15. Get involved in professional societies, and do not wait until you need your network to make one!



Petrophysical Haiku

CARBON CAPTURE SKILLS,
ARE THEY DIFFERENT OR SAME,
ONLY TIME WILL TELL...

Contact us: SPWLAYP@SPWLA.ORG

We encourage you to contact us with any suggestions for improving our group and/or if interested in participating in our activities.

**GO AHEAD,
SEND US
A MESSAGE!**

SEND

Send us your articles, stories, fun moments, photos, etc. to be published in The Bridge.



Nuclear Waste Repositories, a New Frontier for Petrophysical Engineers

Rodney Garrard, National Cooperative for the Disposal of Radioactive Waste (Nagra)

THE CHALLENGE

Considering the “Net zero emissions by 2050” strategy to diminish the effects of climate change and taking into account the current energy supply issues, energy policy is pushing more strongly than ever before to replace fossil energy sources with renewables and nuclear energy, with solar and wind being the key contributors (e.g., IEA, 2021). However, in absolute numbers, the expected increase in nuclear power production is significant; for the scenario “Net zero emissions by 2050,” the new build is comparable to the currently available nuclear power production, partially compensating the nuclear power plants to be shut down in the future (IEA, 2021). The importance of nuclear power is also acknowledged by the decision of the European Commission in its Taxonomy Regulation to include nuclear power as a transition measure in “environmentally sustainable economic activities.” This contributes substantially to climate change mitigation and does not cause significant harm to any other relevant environmental objectives; this was after an in-depth assessment of the “Do No Significant Harm” (DNSH) aspects of nuclear energy (see EC, 2022)¹.

These are clear signals that progress with the disposal of spent fuel or the high-level waste resulting from reprocessing the spent fuel is an important issue. Recently, very encouraging steps have been taken with respect to realization of repositories for spent fuel and high-level waste. The Finnish waste management company Posiva submitted an operation license application at the end of 2021 (after receiving a construction license in 2015), the Swedish waste management company (SKB) received its construction license at the end of 2021, and in France, the process of submitting a construction license application started earlier this year with the delivery of the first set of documents. In September of this year, Switzerland announced the proposed site for which a general license application will be submitted, and Canada plans to decide on the site to be chosen for implementing a repository in 2024. However, there are many countries that are not yet that far advanced, and significant work remains to be done.

Similar to the exploration phase in an E&P project, subsurface site characterization of suitable host rocks for nuclear waste disposal requires a multidisciplinary approach (Fig. 2) involving geological, geophysical, petrophysical, geochemical, and hydrogeological techniques. Many of these are well documented and can easily be transferred, but there are also subtle differences, as further outlined below. This body of geoscience expertise is required for the safe disposal of nuclear waste through characterization of the host and bounding rocks. A further key difference relates to the de-risking of a nuclear waste disposal project (the nuclear safety case); for example, a business case for an E&P project can be de-risked and evaluated within a relatively short time frame by applying tried and tested, well-recognized workflows. However, the de-risking of a nuclear waste repository and the timelines involved are very much longer, and as a result, subsurface data and evaluations must be extremely robust and clearly auditable, and shared/published with an emphasis on transparency. At the same time, comprehensive formation evaluation data sets must be successfully acquired, such as representative and well-preserved cores, specialized core analysis (mineralogy, elemental composition, permeability), and extensive petrophysical data acquisition, including elemental spectroscopy and borehole imagery. Having high-quality core and log data sets makes possible the cross-calibration and validation of both these measurements for improved reliability of the results, further outlined below.

TRANSFERABLE SKILLS AND TECHNOLOGIES

There is currently a high level of interest from subsurface technical specialists, especially those who have spent most of their careers in E&P, who are keen to learn and demonstrate how their knowledge and skills can be applied in and around the area of subsurface characterization for nuclear waste disposal. I have observed excitement and some trepidation within all experience levels of geoscientists—excited at the new opportunities arising and the recent push to demonstrate concepts and successfully dispose of spent nuclear fuel, yet uncertainty around where we fit as geoscientists. From my personal experience and what was discussed at the well-attended SPWLA workshop (SAFE) on June 12, 2022, there are existing skills and technologies that are highly transferable. Petrophysical properties of rocks are equally as important in subsurface site selection as they are in the E&P industry. Robust subsurface results are needed, and evaluating the

¹Commission delegated regulation (EU) 2022/1214 of 9 March 2022 amending delegated Regulation (EU) 2021/2139 as regards economic activities in certain energy sectors and Delegated Regulation (EU) 2021/2178 as regards specific public disclosures for those economic activities).

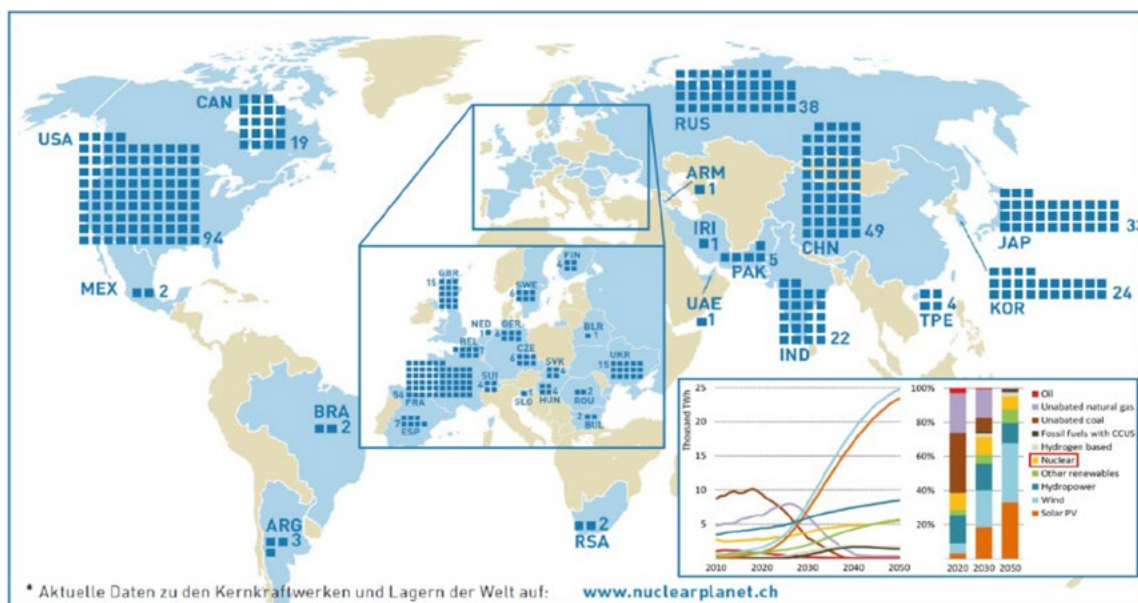


Fig. 1—Existing global nuclear power and expected growth until 2050 (IEA, 2021; Nuklearforum Schweiz, 2022).

uncertainties inherent in any physical measurement and interpretation is of paramount importance to safe nuclear waste disposal. Advanced workflows, often well trialed and documented in E&P and software solutions, are being used to achieve these exacting requirements.

As a geologist in E&P, you know that geology is not just about rocks. It is also about the spaces between the rocks (the interstitial pore spaces and how fluids fill that pore space) and the fact that the subsurface is an unintuitively dynamic place—it is not static at all, just changing slowly and subtly. It is in this very mindset and experience in accessing and assessing the subsurface and the sense of scale to thoroughly characterize it where there are overlapping features of the science and technology of subsurface investigation between oil and gas extraction and radioactive waste disposal. This is even more significant in argillaceous host formations, where workflows from the E&P industry are well documented with an emphasis on matrix and mineralogical properties, as well as the geomechanical behavior of the rock and its potential for fluid flow.

In the past 3 years, Nagra (the Swiss Cooperative for the Disposal of Radioactive Waste) has drilled nine exploration boreholes in the greater Zürich area, which included an intensive wireline-logging program and continuous coring along the focus formations. Casedhole logging was also completed to assess well architecture and cement integrity for long-term monitoring. A rather special, if not unique, feature of Nagra’s acquisition is the sheer quantity of data and retrieval of complementary data sets. All the Nagra wells were cored and logged using a full range of petrophysical logs, including

borehole imaging (BHI). Natural fractures clearly pose a risk for the sealing capacity. Depending on type, size, geometry, and connectivity, such fractures are to be avoided for safety concepts where geology is the main barrier. It is, therefore, of the utmost importance to characterize the fault and fracture network in detail. Subsurface fracture characterization in the oil and gas industry is usually limited to BHI analysis and very limited intervals of core analysis. While core logging yields detailed information on fracture properties (cementation, roughness, cross-cutting relationships), the BHI logs provide fully oriented information of fracture geometries and a continuous record of the borehole, which in turn allow the multiscale integration of data and results from the acquired 3D seismic data set.

SIMILAR TECHNOLOGIES AND WORKFLOWS FOR SUBSURFACE CHARACTERIZATION— “THE SAME BUT DIFFERENT”

Petrophysical technologies initiated over 100 years ago have made extraordinary strides to play a central role in the successes of the petroleum industry in providing the energy needed for the tremendous economic growth witnessed in the 20th century. These techniques have progressively evolved to be best suited to guide the transition from “easy-to-find” oil to more challenging reservoir settings requiring improved oil recovery/enhanced oil recovery (IOR/EOR) approaches. With an impending transition away from fossil fuels, applications of these state-of-the-art techniques for nonpetroleum energy systems are an obvious evolution. However, one might ask

if the well-documented logging technologies and workflows used in the petroleum industry are optimally deployable for unconventional applications. For example, in E&P applications, one is interested in the fluids flowing through the porous rock media. In the nonpetroleum applications for characterizing potential host rocks, the rock properties are of greater interest. Thus, the desired attributes of fundamental petrophysical parameters, such as porosity and permeability needed in E&P applications, are significantly different. To contain radioactive waste disposed of in the subsurface, the permeability of the rock is preferably extremely low in the order of $2E-20m^2$, while in E&P, a high permeability is desired to allow hydrocarbon (HC) flow. One of the current challenges resides in how to accurately measure these fundamental properties. In Nagra's case, accurately measuring permeability is important. The main method for computing the permeability is core-based, and thus the values are obtained at discrete locations, often only to construct porosity-permeability correlations. Existing logging techniques thus only provide a permeability indicator and not a full measure of the parameter and can exhibit a significant uncertainty at low-permeability ranges.

A core-calibrated log analysis was performed for each of Nagra's boreholes (Fig. 3). The repository engineers using such analyses require precise and accurate figures. Nevertheless, neither the logs nor the core measurements are perfectly precise or accurate. Therefore, the accuracy and precision of the formation evaluation should be quantified to define the level of confidence in this data set. Robust results are important, and evaluating the uncertainty-weighted core-calibrated petrophysical input is key. As with all physical measurements, they are subject to errors, which must be quantified for proper evaluation. Therefore, Nagra has quantified the errors in the wireline logs and their impact on the formation evaluation of the host rocks. In addition, systematic errors are calibrated against core measurements (when possible). For example, the spectroscopy elements can be calibrated against the core X-ray fluorescence (XRF) elements. Here high-quality core and log data sets make cross-calibration possible.

A detailed understanding of modeled lithologies, porosities, rock integrity, and calibrations of mechanical properties and stresses are important when it comes to planning long-term safe disposal. This integrated subsurface characterization is required both for the potential host rock as well as for the containing layers. Petrophysical logs play an important role in the assessment of rock types and porosities as an upscaled continuous description along the well, but more importantly, at a distance from the exploration borehole, while also providing the crucial link with discretely acquired core tests. This allows insights into the presence of heterogeneities and fractures or faults in the vicinity of the well as well as at a distance from the wellbore. Similarly, to the well-established E&P workflows, Nagra core-calibrated petrophysical data are integrated with the seismic interpretation to support building 3D geological models of the subsurface that support the engineering phase of defining the best-suited underground locations for the nuclear waste geological repositories (Fig. 4).

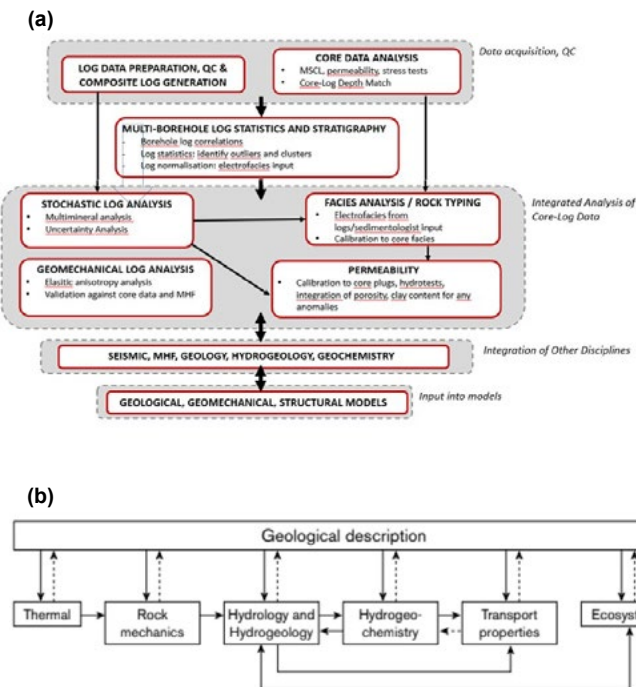


Figure 1. The different discipline descriptions are interrelated with several feedback loops and where geology provides the essential geometrical framework.

Fig. 2—A multidisciplinary formation evaluation data set must be acquired "the same but different." (a) is adapted for Nagra. (b) is from the "site descriptive modeling – strategy for integrated evaluation" of the Swedish Nuclear Fuel and Waste Management Co. (SKB). <https://www.skb.com/>

CONCLUSION

Nuclear is a proven low-carbon energy source, which has been deployed for decades; however, an important aspect of this energy form is that society has to deal with the arising nuclear waste. In this respect, the major difference between de-risking an E&P exploration project and that for a high-level waste (HLW) nuclear waste repository resides in demonstrating a safe and stable concept for disposal of the waste for a period of up to a million years; for HC production projects, the de-risking model covers just a few tens of

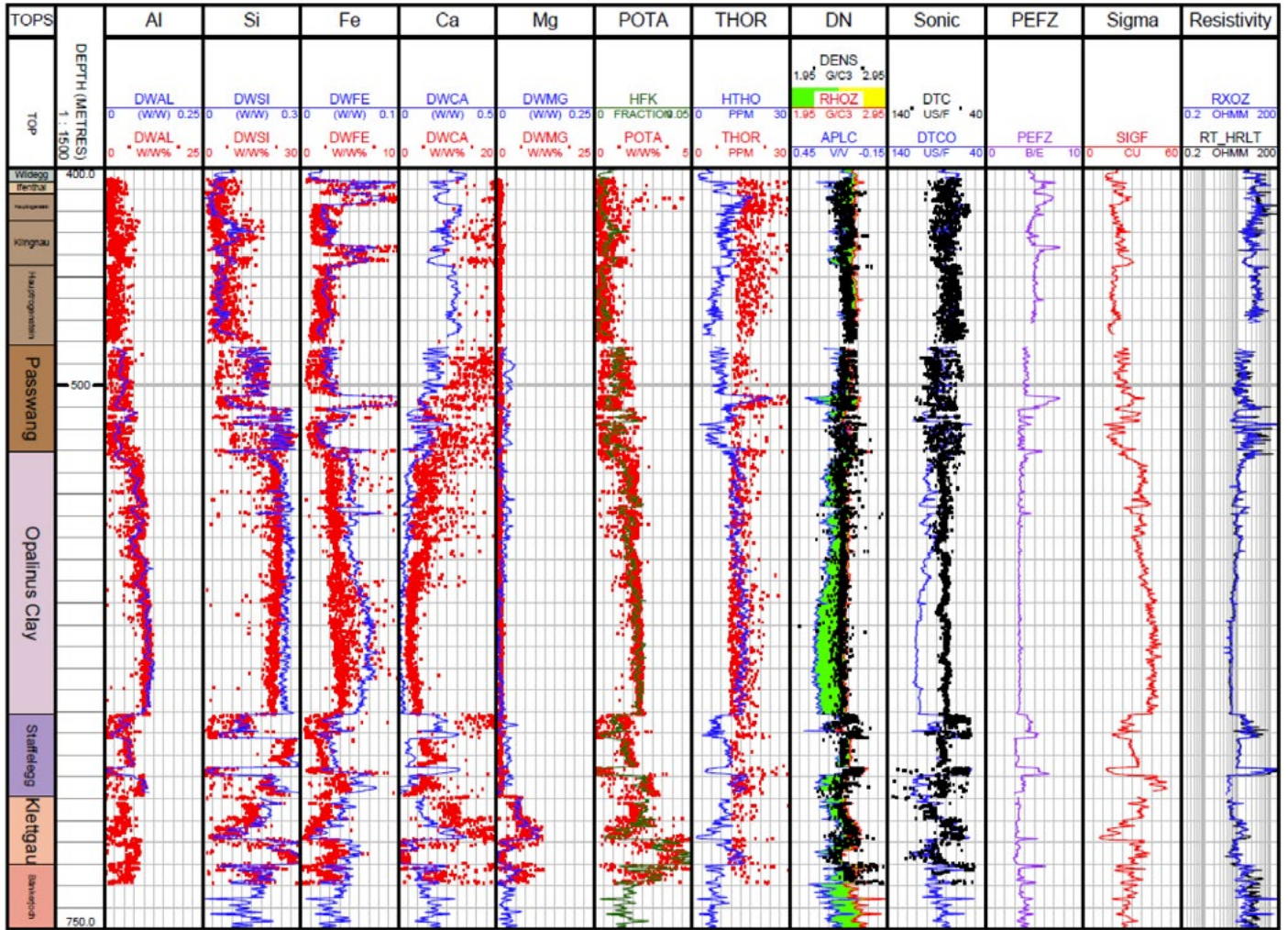


Fig. 3—Core-calibrated log plot showing wireline logs and their equivalent measured with a multi-sensor core logging (MSCL) system. Some show a good match, others discrepancies (DTC, Fe, Si)

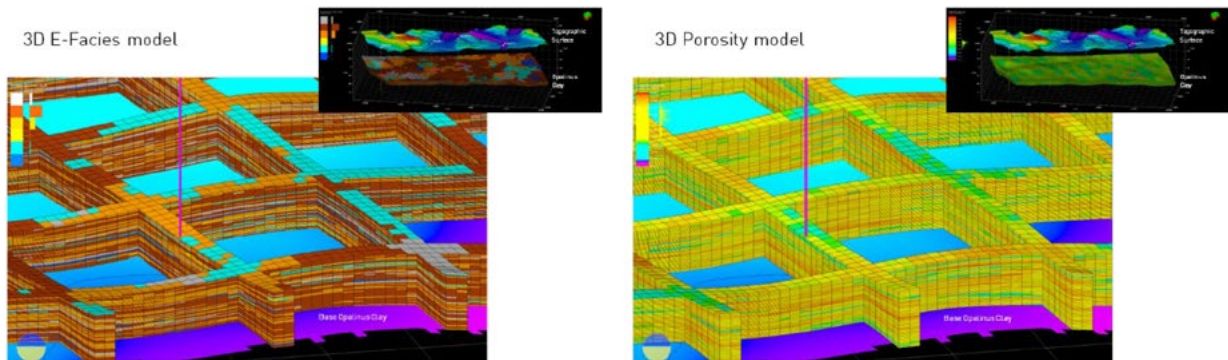
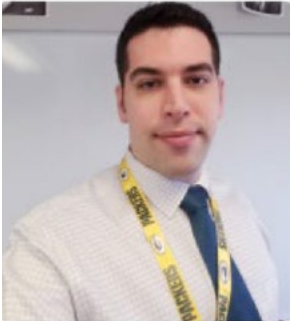


Fig. 4—Modeled e-facies and porosity (courtesy of M. Claps).

years (up to the field decommissioning phase). As a result, in the case of waste disposal, subsurface data acquisition and evaluation of the data must be extremely robust and clearly auditable and presented in a transparent manner and take into consideration geological evolution over long time scales. Conversely, in terms of size, a nuclear waste repository has similar dimensions to an E&P project in terms of square-kilometer lateral extent and tens of meters for host-rock thickness, meaning that petroleum geologists and engineers are very familiar with workflows that link core, logs, and seismic scales for geological assessment. It is from this perspective that E&P professionals familiar with hydrocarbon petrophysics can provide valuable experience as petrophysics is a bridging discipline that is able to integrate well between data acquisition and 3D geological models. In their current form, standard petrophysical acquisition and workflows need some tailored solutions for measuring very low permeability for unconventional rock types and assessing the role of fractures in fluid flow. However, one of the discipline's strengths is being able to provide the hard data and calculate and provide uncertainty-weighted parameters for modeling.

REFERENCES

- IEA, 2021, World Energy Outlook. URL: <https://www.iea.org/reports/world-energy-outlook-2021>.
- Nuklearforum Schweiz, 2022, Kernkraftwerke der Welt Les Centrales Nucléaires dans le Monde. URL: www.nuclearplanet.ch.



Hello Intrepid Petrophysicists!

Thanks to everyone who takes part in the fun quiz. It is a great way for us to share knowledge and impart odd facts that have brought us to where we are today. Below are the quiz answers for the quiz I posted in the spring. I will post the quiz answers for the current one in the next *SPWLA Today*. If you haven't taken it yet, please go to this link to test your might.

<https://forms.gle/c6nwQvFtieJX1xuN8>

As always, if you have any ideas for questions or think a question/answer was wrong, please reach out to Adam Haecker on LinkedIn or via email on the SPWLA website.

Happy Quizzing!
Thanks,
Adam Haecker

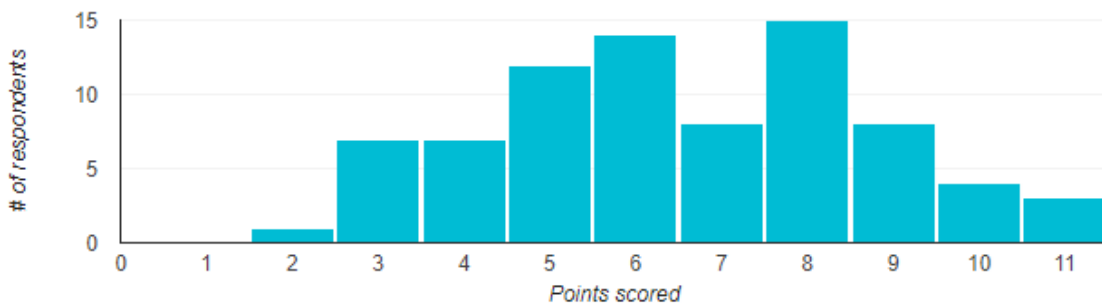
Insights

Average
6.53 / 11 points

Median
6 / 11 points

Range
2 - 11 points

Total points distribution

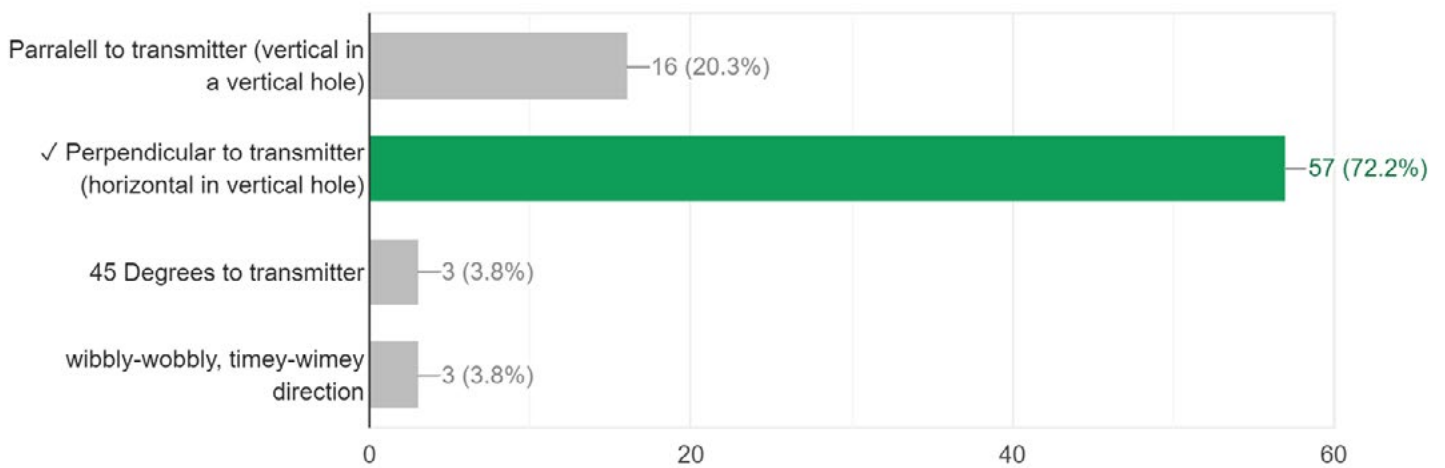


Frequently missed questions

Question	Correct responses
Which of the following is not a potential cause of Reservoir Overpressure?	37 / 79
The term "Petrophysics" was coined by which person who was having dinner with Gus Archie at a quiet bistro in the Hague?	32 / 79
Are you attending the SPWLA Symposium in Stavanger on June 11-15th? The first in person event in over 3 years?	19 / 79

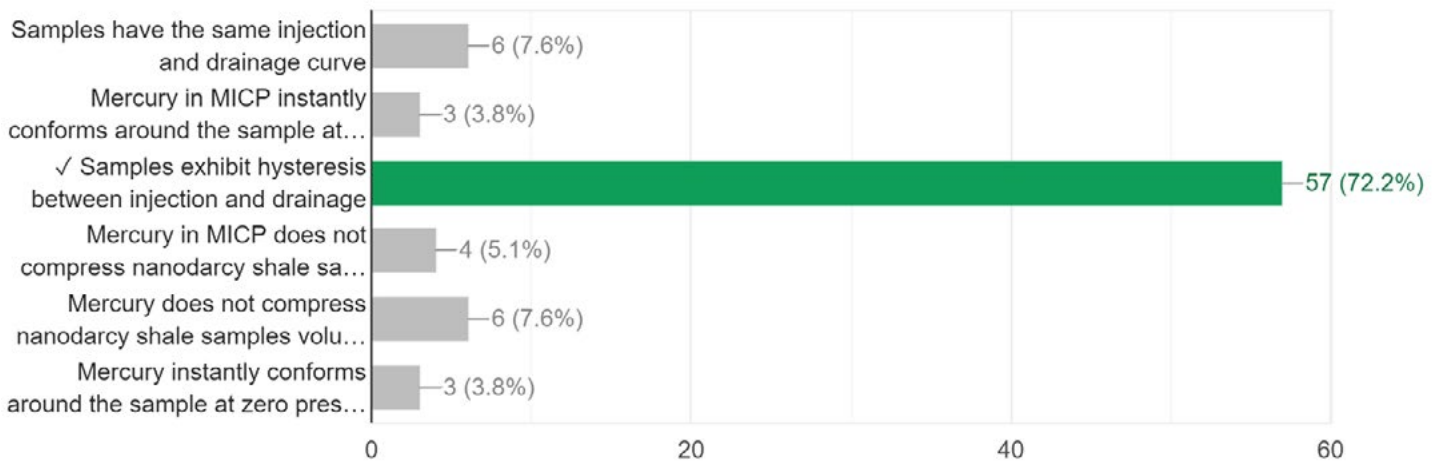
Because of the phase shift, what direction do induction tools measure formation conductivity?

57 / 79 correct responses



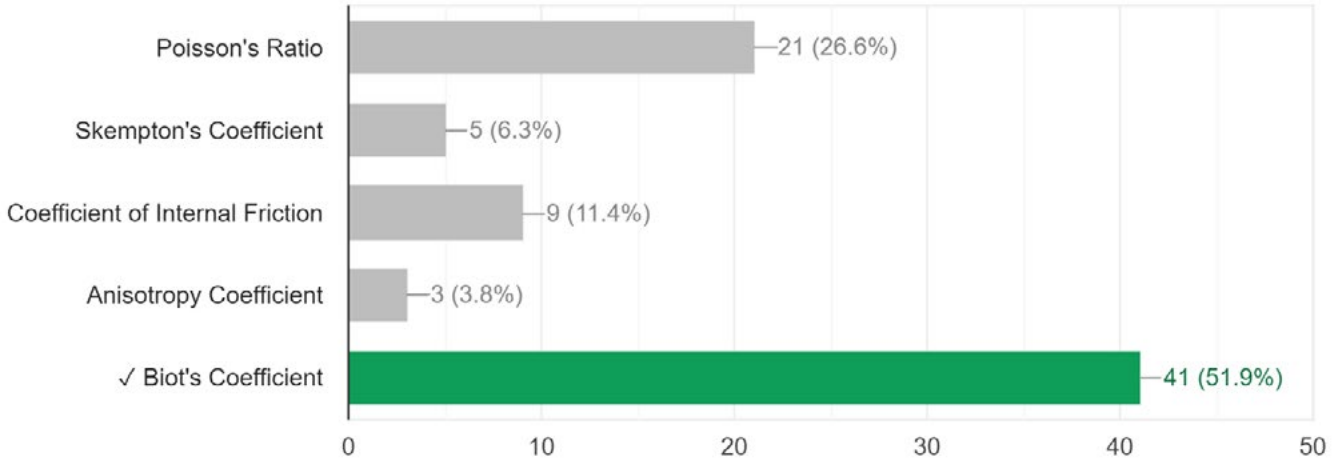
In capillary pressure, which of the following is true?

57 / 79 correct responses



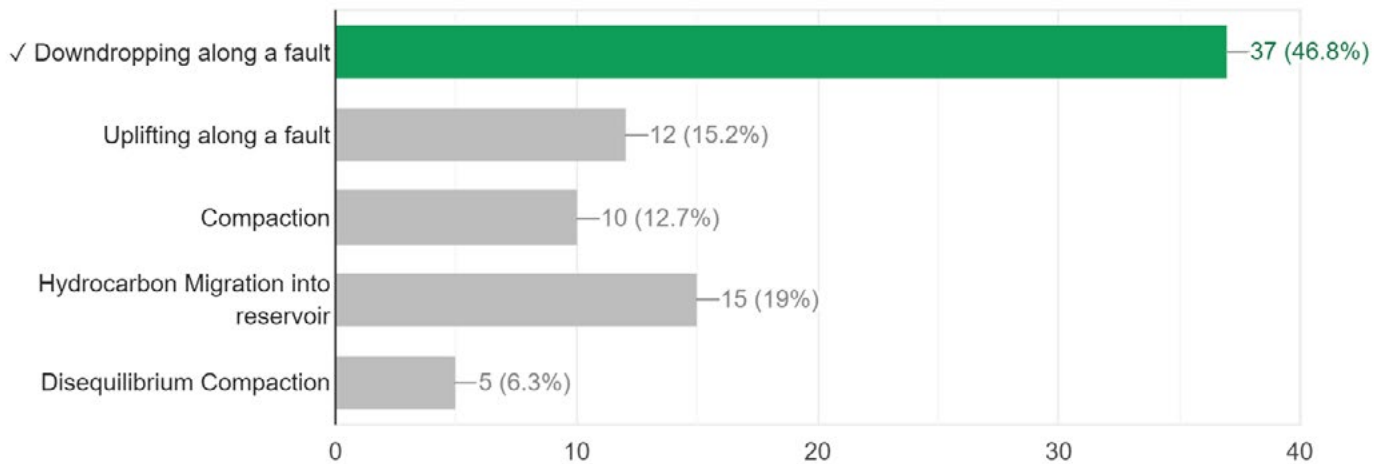
In geomechanics, what property, used in Terzhagi's effective stress equation, modifies the effect of pore pressure and is measured by taking the bulk modulus of a jacketed andunjacketed sample?

41 / 79 correct responses



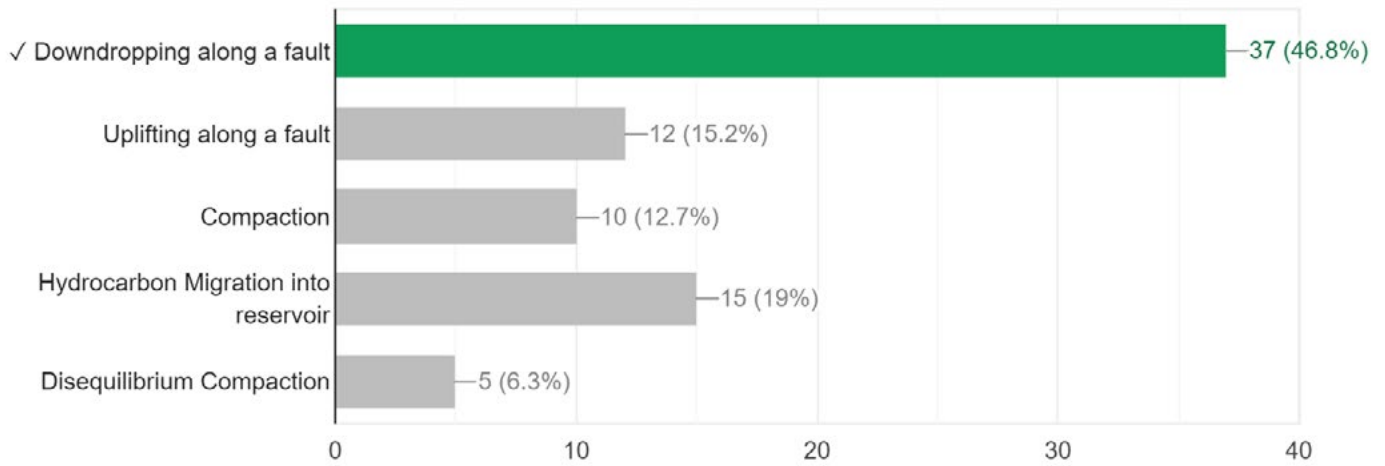
Which of the following is not a potential cause of Reservoir Overpressure?

37 / 79 correct responses



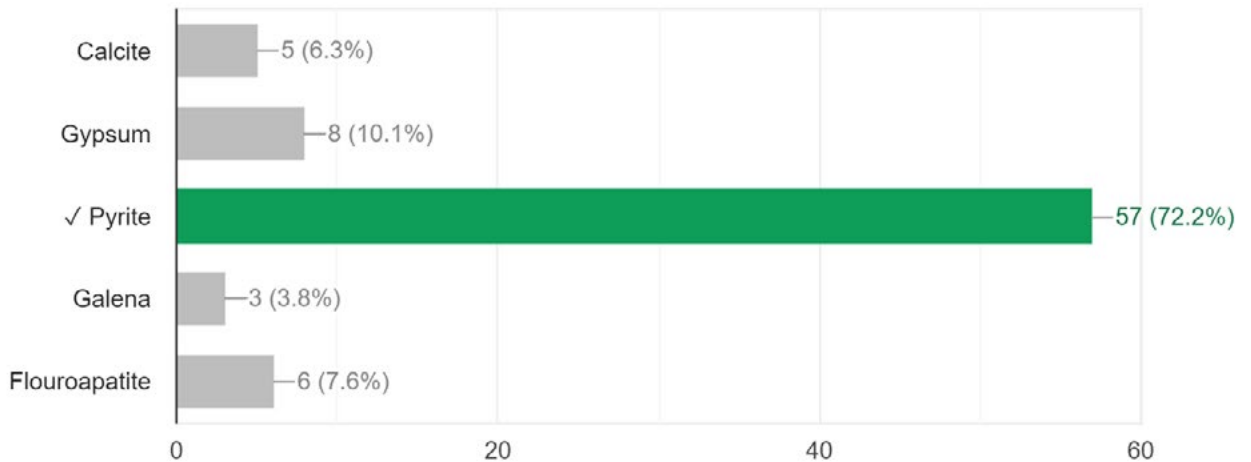
Which of the following is not a potential cause of Reservoir Overpressure?

37 / 79 correct responses



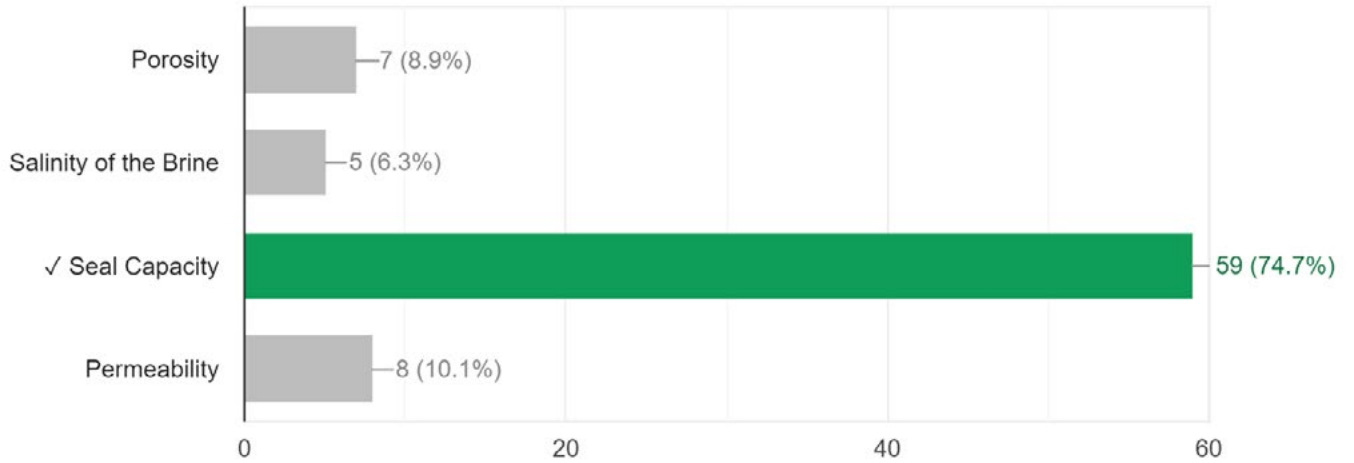
In organic shales, what common mineral that forms under similar redox conditions that help preserve organic matter, makes the density of orga...pear higher than it should be at a given maturity?

57 / 79 correct responses



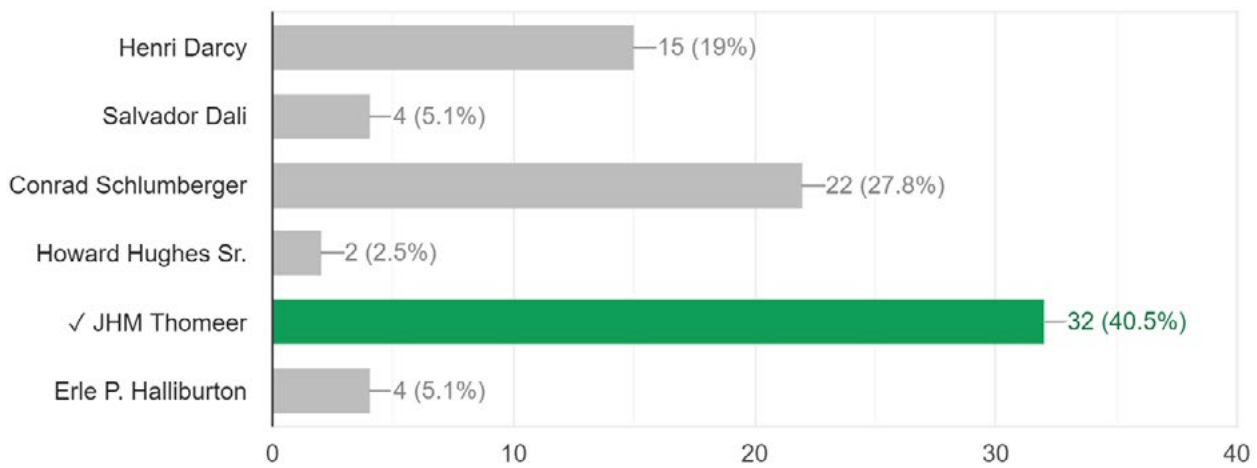
In the new world of Carbon Capture Petrophysics, which property is the most important in site selection?

59 / 79 correct responses



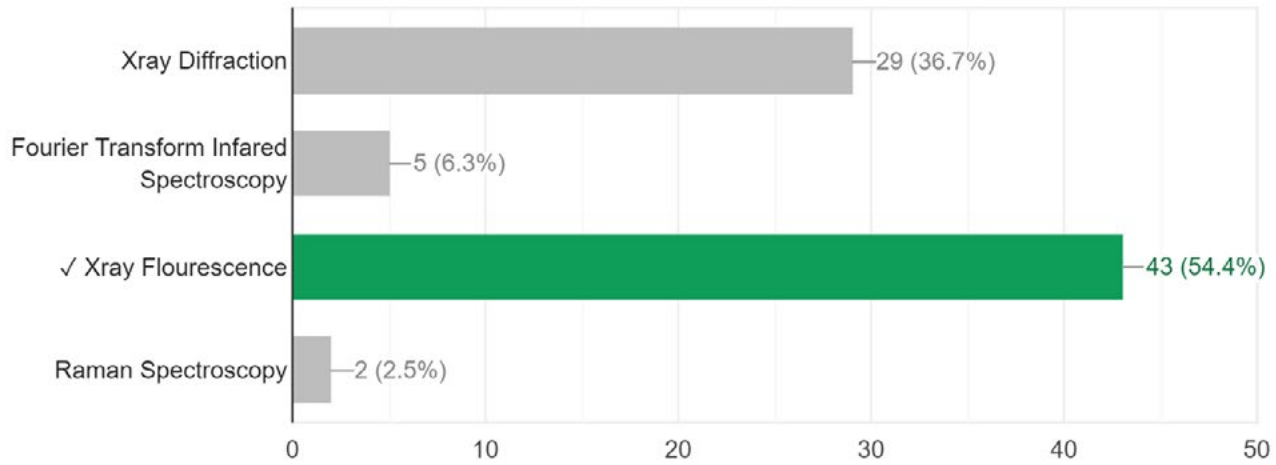
The term "Petrophysics" was coined by which person who was having dinner with Gus Archie at a quiet bistro in the Hague?

32 / 79 correct responses



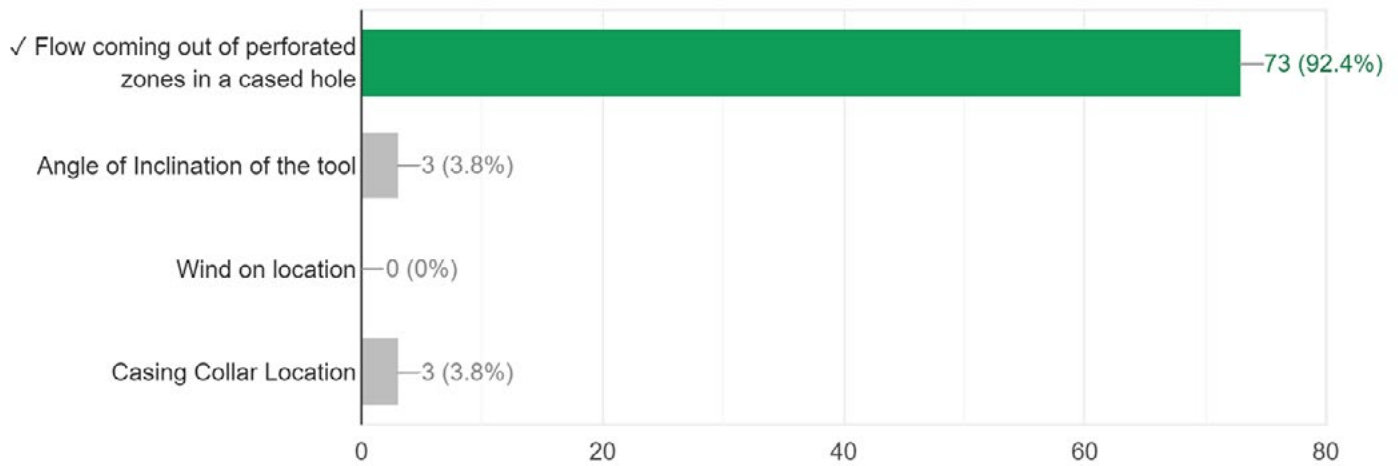
Which core analysis technique measures the spectra of characteristic "secondary" X-rays from a material that has been excited by being bombarded...sed for elemental analysis and chemical analysis

43 / 79 correct responses



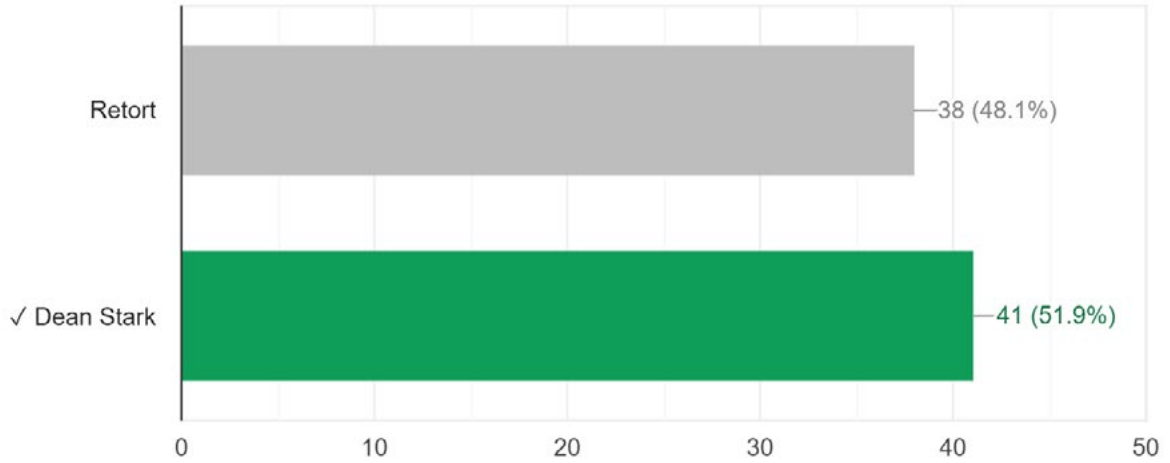
Spinner logs are commonly used to measure what property?

73 / 79 correct responses



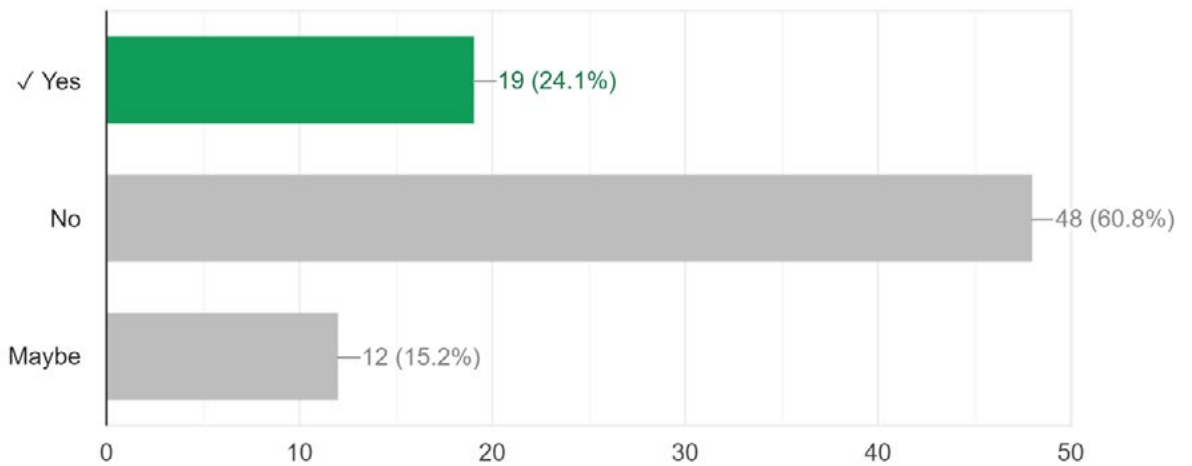
In core analysis of organic shales, according to Handwerger 2012, Which generally liberates more water, Retort or Dean Stark?

41 / 79 correct responses



Are you attending the SPWLA Symposium in Stavanger on June 11-15th? The first in person event in over 3 years?

19 / 79 correct responses



**SPWLA SECOND BOARD OF DIRECTORS MEETING
REMOTE
SEPTEMBER 9, 2022**

President Tegwyn Perkins called the meeting to order at 8:00 a.m. In attendance, President-Elect, Jennifer Market, Vice President Technology, Iulian Hulea, Vice President Education, Kelly Skuce, Vice President Finance, Secretary and Admin, Adam Haecker, Vice President Publications, Stephanie Perry, Vice President, Mathilde Luycx, Regional Director Europe, Eva Gerick, Regional Director Middle East/ Africa, Jennifer Duarte, Regional Director Latin America, Nelson Suarez Arcano and Executive Director, Sharon Johnson. Not in attendance, Vice President Information Technology, Harry Xie, Regional Director N. America 2, Matthew Blyth, Regional Director Asia Pacific/Australia, Ryan Lafferty, Regional Director N. America 1, Javier Miranda

A motion made by President-Elect Jennifer Market to waive the reading of the minutes from the July BOD meeting was seconded by Vice President Finance, Secretary and Admin, Adam Haecker. This motion passed by majority vote.

A motion made by Regional Director Latin America, Nelson Suarez Arcano to change the required number to three professional persons to form a new chapter in SPWLA was seconded by President-Elect, Jennifer Market. Two must be members of the parent SPWLA to hold the position of President and First Vice President.

Board Member volunteers to serve on SPWLA Foundation board: President Tegwyn Perkins, President-Elect, Jennifer Market, Vice President Finance, Secretary and Admin, Adam Haecker, and Regional Director Latin America, Nelson Suarez Arcano

Meeting adjourned 1:15 p.m.

Respectively Submitted by
Sharon Johnson
Executive Director

Next BOD meeting: November 11th in person at the SPWLA Business Office Houston or Remote via GoToMeeting.

SPWLA MEMBERSHIP VOTING RESULTS

- 1) The Proposed Amendments to the SPWLA Bylaws and Articles of Incorporation (AOI) as presented by the Board of Directors, September 2022 passed by majority vote. The results are 93.33% yes and 6.67% no.
- 2) The new Board of Directors Position of VP Technology Elec passed by majority vote. The results are 98.66% yes and 1.34% no.

This concludes the special meeting.

ACOUSTIC SIG

The Borehole Acoustic SIG was quite busy during the last two months.

Recent Events

19 August 2022—A board meeting was held.

2 September 2022—The SIG continued its main focus on delivering on September 2 the Borehole Acoustic SIG Workshop “[Borehole Acoustics: The Road Ahead](#).” This workshop was marketed through the SPWLA email list, the new [LinkedIn Acoustic SIG group](#), and the [Acoustics SIG webpage](#). The turnout to the in-person workshop held at Chevron was excellent, with about 50 registrants from operators, service companies, and universities. The workshop featured 17 peer-reviewed oral and poster presentations surrounding new tool technologies and both processing and interpretation workflows. It also featured a panel discussion led by five major operator companies surrounding current issues and the future of borehole acoustics.

29 September 2022—We also held our first bimonthly acoustic [virtual seminar series](#) given by Brian Hornby on “The Road to Achieve Business Value from Borehole Sonic Imaging.” The video recordings of these presentations are available to SPWLA members as a member benefit.

ABERDEEN FORMATION EVALUATION SOCIETY (AFES)

General News

AFES has events planned and is also in the planning stages for the autumn and winter period of 2022 into 2023. Please check our website (www.afes.org.uk) or contact Greg Blower @ President@afes.org.uk for details. We are also available on Facebook and LinkedIn.

DEVEX 2023: Call for Abstracts is out, with a deadline of **11 November 2022**.



Recent Events

31 August 2022—Technical Talk: Amin Sharifi (ABERDEEN UNI) on “Optimizing Horizontal Well Trajectory: Interaction of Hydraulic Fractures and Natural Fractures.” This was a physical event.

12 October 2022—AGM and Technical Talk: AFES held its Annual General Meeting, followed by a Technical Talk entitled “Effective Production and Reservoir Management Using Inflow and Inter-Well Tracers” by Ehsan Nikjoo (ResMan). The AGM covered the year’s AFES activities, finances, constitutional updates, and committee movements. The event was well attended, with drinks and nibbles provided for the guests. The slide pack is available on request [President@afes.org.uk]. Many thanks to Ehsan (ResMan) for presenting the Technical Talk.



The new Committee now consists of the following:

	Current 2021-22	Proposed 2022-23	
Executive Committee			
President	Greg Blower	Ed Downer (caretaker)	
VP Technology (Lectures)		Chris Blair	
VP Seminars	Stephen Morris	Position now in sub committee	
Secretary	Girvani Ganeshalingam	Jeremy Titjen	
Treasurer	Neil Cardy	Girvani Ganeshalingam	
Past President	Ed Downer	Greg Blower	
Technical Sub Committee			
Communications/Media Officer		Alex Kaye	
University Liaison Officer	vacant	Ed Downer	
Sponsorship		Damien Dennison	
Devex Representative		Grant Kelly	
Student Rep	Morgan Barrington - Williams	Sam Stephen	
Additional Technical Sub Committee	Daniel Ronald	Chee Kong Chen	
	John Banks	Tegwyn Perkins	
	Chee Kong Chen	Derek Littlejohn	
	Tegwyn Perkins	Craig Lindsay	
	Jeremy Titjen	Dorota Beckett	
	Derek Littlejohn	Neil Cardy	
	Craig Lindsay	Dorota Beckett	Jorge Iglesias

AFES welcomes Sam Stephen as Student Representative and Jorge Iglesias from Schlumberger.

Upcoming Events

23 November 2022—Technical Talk: Maurillio Addario (ANSA Data) – “Automating Curve Pattern Matching Using Novel Dynamic Time Warping Techniques.”

1 December 2022—Xmas Quiz for the Archie Foundation Children’s Charity. Planning is progressing as we welcome back this annual event after a two-year postponement due to the pandemic.

Updates of First Formation Evaluation School: Videos are available on our YouTube channel.

Module 1: Techniques of Well Logs Direct Interpretation (Ing. Jorge Barboza)

<https://youtu.be/x-YQPelMH-c> (Part 1)

https://youtube.com/watch?v=wPUE4_jn6BM (Part 2)

<https://youtu.be/ooCH6wKW2e0> (Part 3)

ARGENTINE STUDENT CHAPTER

General News

The Argentine Student Chapter keeps growing. Our activities are being recognized by other SPWLA student chapters and student associations related to oil and gas, such as the SPE (Society of Petroleum Engineers) and the AAPG (American Association of Petroleum Geologists). In addition, we already have our official SPWLA email (argentina.students@spwla.org). We are very proud of our achievements.

Recent Events

We participated in a meeting with Nelson Suárez, SPWLA LATAM Regional Director, and the student chapters of LATAM: SPWLA UIS Student Chapter (Colombia), SPWLA UFRJ Student Chapter (Brazil), and SPWLA UNI Student Chapter (Peru). At the meeting, the leaders of the student chapters exchanged opinions, advised each other, and listened carefully to the advice and comments of Nelson Suárez. It was an excellent opportunity to get to know each other.

conference, we presented the Vaca Muerta Formation – Neuquén Basin, our signature unconventional reservoir. It was months of hard work, but we got our reward. The entire event was a complete success, and this was possible because of the teamwork of the organizing student chapters and their faculty advisors. It was a pleasure for us to have worked with the SPWLA UIS Student Chapter (Colombia), SPWLA UH Student Chapter (USA), and SPWLA UFRJ Student Chapter (Brazil). We were honored to have Nelson Suárez, SPWLA LATAM Regional Director, as our final speaker. He provided the conclusions and the final point of view of the day. Thanks, Nelson, for your words and support of our chapter!



We were also involved in the first International SPWLA Student Chapters Event. This year’s conference theme was “Unconventional Resources Present and Future: 4 Countries, 4 Stories.” There were three days of exhibitions where four countries told the story of their unconventional reservoirs. Argentina, Colombia, Brazil, and the USA were the countries involved with a format of each day per country. At our





Upcoming Events

17 November 2022—This date is our anniversary. We will celebrate our first year as a student chapter. We are planning a meeting with all the student and professional members of SPWLA Argentina. In addition, we will continue with our **Formation Evaluation School** since we seek to develop Module 5. Therefore, we have a lot of work ahead that we believe will be a great success.

ALTERNATIVE SUBSURFACE/ENERGY TRANSITION SIG

General News

The purpose of Alternative Subsurface/Energy Transition (ASET) SIG is the advancement of the science of petrophysics and formation evaluation in nontraditional and new environments, in particular low-carbon industries, such as geothermal energy, carbon capture, utilization, and storage, nuclear waste storage, and nonhydrocarbon extractive industries. The SIG will also provide a forum to conduct technical discussions concerning data acquisition, applications, and interpretation, create awareness of petrophysics and formation evaluation within these industries, and develop/promote industry standards. All

SPWLA members are welcome to join the SIG either through your profile on the SPWLA website or by emailing aset@spwla.org.

Following on from the very successful SIG workshop held at the SPWLA Annual Symposium in Stavanger in June, the ASET SIG leadership is busy planning our future activities. We are investigating the possibility of holding an in-person topical conference in Europe in late Q1 or early Q2 2023. We're looking for suggested topics, so if you have any ideas, please email the SIG leadership at aset@spwla.org. Keep an eye on the SIG website at <https://www.spwlaworld.org/aset-sig/> for more information.

BANGKOK CHAPTER

General News

The SPWLA Bangkok Chapter is pleased to welcome Marvin Rourke to the steering committee. Marvin will take on the daunting task of sponsorship, so we wish him well in this role.

2022 Chapter Committee Members

President	Andrew Cox
Technical Coordinator	Numan Phettongkam
Treasurer	Sirinya Maykho
Web Coordinator	Alexander Beviss
Secretary	Ronald Ford
Sponsorship	Marvin Rourke
Student Liaison	Kruawun Jankaew
Member at Large	Greg Heath

Please visit https://www.spwla.org/SPWLA/Chapters_SIGs/Chapters/Asia/Bangkok/Bangkok.aspx for local chapter news and information on upcoming meetings.

Email: bangkok.chapter@spwla.org

Recent Events

September 2022—Joint Session SPE and SPWLA: We held a joint session with the Thailand SPE section. The meeting was very well attended, with considerable interest in the presentation of “Life After Casing: Through-Tubing Casing Inspection” by Marvin Rourke (VP Technology, GOWell). Marvin presented options for evaluating corrosion and tubular damage through multiple concentric casing strings, with examples.

October 2022—Live Meeting: Zhen-Xuan Yew and Thiti Lerdsuwankij (Schlumberger) jointly presented their paper “Fit-For-Purpose High-Resolution Reservoir Simulation Modeling for Fast Real Field Decision Making, A Case Study of Onshore Thailand” from the Offshore Technology Conference (OTC-31381-MS). This was an excellent presentation, well received by all in attendance.



Marvin Rourke (VP of Technology, GOWell, Chapter Sponsorship) and Ronald Ford (Gaia Earth Group, Chapter Secretary).

Please check the local website for information on events and activities for the Bangkok Chapter: https://www.spwla.org/SPWLA/Chapters_SIGs/Chapters/Asia/Bangkok/Bangkok.aspx

BOREHOLE IMAGING (BHI SIG)

General News

For the 2023 SPWLA Annual convention, our application for a special session about case studies and additional applications of BHI data has been approved. The Special Organized Session is titled “Beyond Picking Dips From Image Logs.”

Upcoming Events

2 November 2022—Our SIG Meeting is now scheduled. The meeting will be held online only. We will discuss updates on the standardization of BHI deliverables and present case studies and new methodologies of interpretation using BHI data. So far, we have more than 100 applications for this online meeting.

BRAZIL CHAPTER

General News

Our monthly meetings are held online every third Tuesday of the month at 4 pm (Brasilia Time). Anyone wishing to participate is welcome. We also post chapter updates and meeting links on our LinkedIn page (SPWLA Brazil Chapter). Check us out. For further information about the

chapter, please contact our secretary, Leonardo Gonçalves (leonardo.g@petrobras.com.br). Membership to our chapter is free and can be claimed by filling out the form available at <https://lnkd.in/g4KQjYf>. Meetings are held in Portuguese or English, depending on the preference of the speaker. Even if it is held in Portuguese, questions in English are also welcomed!

Recent Events

16 August 2022—Juan Carlos Porras, director and senior specialist in petrophysics and subsurface data integration (Inter Rock), gave a talk entitled “Rock Typing: Application in Reservoir Characterization.”



Invitation to the August monthly meeting of the SPWLA Brazil Chapter.

20 September 2022—We had Sarah Aleixo, Teresa Mourão, and Felipe Cruz, undergraduate and PhD students, who participated in the Student Paper Contest organized by the SPWLA International Symposium. A little different from traditional presentations, the talk entitled “Brazil’s Participation in the SPWLA International Student Paper Contest” was an opportunity for students to show their work and tell a little about the experience of participating in a technical contest and experiencing a symposium held by SPWLA International.



199ª Reunião Mensal
Terça-feira, 20 de setembro, 16h - Teams meeting

Participação do Brasil no SPWLA International Student Paper Contest

Felipe Cruz
Oklahoma University

Sarah Aleixo
Teresa Mourão
UFRJ

1 Categoria
Doctorate

2 Categoria
Undergrad



Invitation to the September monthly meeting of the SPWLA Brazil Chapter.

18 October 2022—We hosted Ana Paula Martins, presenting “Challenges of Petrophysics in Búzios Field.” Ana Paula is the manager of formation evaluation for Búzios Field, the largest oil field of presalt carbonates in Brazil.



200ª Reunião Mensal
Terça-feira, 18 de outubro, 16h - Teams meeting

Os Desafios da Petrofísica no Campo de Búzios

Ana Paula Martins de Souza
PETROBRAS



Invitation to the October monthly meeting of the SPWLA Brazil Chapter.

COLOMBIA CHAPTER



Board of Directors

Miembro	Cargo SPWLA COL	Empresa	LinkedIn
Maria Florencia Segovia	President	Ecopetrol	https://www.linkedin.com/in/maria-florencia-segovia-64bba933/
Ulises Bustos	Vicepresident	Schlumberger	https://www.linkedin.com/in/ulises-bustos-33538465/
Darling Criollo	Secretary	Halliburton	https://www.linkedin.com/in/darling-criollo-9b502933/
Maria Isabel Sandoval	Treasurer	UIS	https://www.linkedin.com/in/maria-isabel-sandoval-martinez-8aa40663/
Maika Gambús Ordaz	Vocal1	UIS	https://www.linkedin.com/in/maika-gambus-1a925443/
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Vocal-2

Recent Events

27 July 2022—The SPWLA Colombia Professional Chapter carried out an event entitled “Aplicación de la Metodología de Rock Typing en Caracterización de Yacimientos” by MSc Juan Carlos Porras. The event was held via zoom. At the opening of the event, Ulises Bustos, Vice President of SPWLA Colombia Professional Chapter, explained “how to become a member of SPWLA” and its benefits to encourage membership to the technical society.






Upcoming Events

TBD—The SPWLA Colombia Professional Chapter will do an upcoming zoom meeting about “Application of Gas and Oil Subsurface Evaluation Methodology to Geothermal: The Value of Data,” presented by Tom Bradley, senior petrophysical advisor (Baker Hughes).

TBD—The team is planning an event entitled “EOR-Formation Evaluation Solution,” which will be held in Bogota City, thus sharing in person with our Colombian petrophysical community.



-  @spwla_cap_colombia
-  @SPWLA Colombia Capitulo Profesional
-  @spwla-colombia-capitulo-professional



August 2022—There was an amazing meeting between SPWLA Colombia Professional Chapter members and SPWLA Regional Director Nelson Suárez Arcano, who was visiting Colombia for a few days. We are grateful for all the support and help that Nelson has provided in our first year as an organization.

DUBAI CHAPTER

General News

Dubai Chapter will continue with online meetings during 2022. Anyone interested is welcome to visit our profile on LinkedIn SPWLA Dubai Chapter or email us at dubai@spwla.org to join our virtual events. We welcome you to ask any questions regarding our chapter.

We also welcome the newest member of the board, Arathi Mahesh, who will serve as the Treasurer.

Recent Events

31 August 2022—Mr. Raghu Ramamoorthy presented his topic, “Towards a Petrophysical Consistent Implementation of Archie’s Equation for Heterogeneous Carbonate Rocks,” where he explained his model and results, which show that they provide an accurate answer in 80% of the cases with at least a better estimate in a further 10% of formations. It was a very interesting presentation with multiple discussions and questions from the audience.



**SPWLA Dubai Chapter - Virtual Event
Technical Presentation (via Webinar)**

'Towards a Petrophysically Consistent Implementation of Archie's Equation for Heterogeneous Carbonate Rocks'
Speaker: Raghu Ramamoorthy

Please join us for this SPWLA Microsoft Teams Webinar
Date : Wednesday, 31st August 2022
Time : 5:00pm Dubai-UAE Time
Registration for the technical session event in the link below:
[Registration Link](#)

Biodata of Speaker
Raghu Ramamoorthy is a consultant petrophysicist based in Abu Dhabi, UAE. Earlier until 2017, he was a petrophysics advisor to Schlumberger in the Middle East. He has over 38 years in the oil industry, mostly served with Schlumberger in various capacities. He has several patents on the interpretation techniques and logging technology and is widely published in the SPWLA, SPE, and AAPG. He has served on the Board of the SPWLA and is a recipient of the SPE Regional Award in Formation Evaluation. His current interests are in carbonate petrophysics, EOR, and the evaluation of tight gas reservoirs.

Upcoming Events

23 November 2022—Arthur Walmsley will present “Past, Present, and Future Applications of Ultradeep Directional Resistivity Measurements: A Case History From the Norwegian Continental Shelf.” A flyer and more information are posted on the SPWLA Dubai Chapter LinkedIn Profile.

**SPWLA Dubai Chapter - Virtual Event
Technical Presentation (via Webinar)**
2022-2023 SPWLA DISTINGUISHED SPEAKER SERIES

'Past, Present, and Future Applications of Ultra-Deep Directional Resistivity Measurements: A Case History from the Norwegian Continental Shelf'
Speaker: Arthur Walmsley

Please join us for this SPWLA Microsoft Teams Webinar
Date : Wednesday, 23rd November 2022
Time : 5:00pm Dubai-UAE Time
Registration for the technical session event in the link below:
[Registration Link](#)

Biodata of Speaker
Arthur Walmsley is the 3D EM inversion subject matter expert for the Eastern Hemisphere at Halliburton. Walmsley joined Halliburton in 2007 and has held various technical positions in logging and well placement in the UK, Europe and Africa region. He holds a BSc in Oceanography from Southampton University, UK. He is a member of SPE, SEG, SPWLA and EAGE.

UFRJ STUDENT CHAPTER

General News

Our chapter maintains normal activities with 12 active members organized below:

Board Members

- President: Sarah Aleixo
- Vice President: Iago da Costa
- Treasurer: Sofia D’Orsi
- Secretary: Diana Tabach

Executive Members

- Bruno Valle
- Teresa Mourão
- Rodrigo Azambuja

Marketing Members

- Gabriel Ferraz
- Nicole Avila
- Renan Camilo

Logistic Members

- Alexandre Nobre
- Enzo Borges
- Guilherme Lontra

Recent News

20 September 2022—Two chapter members spoke about their experience participating in the International Student Paper Contest at the SPWLA Brazil monthly meeting.

**SPWLA
Brazil chapter**

199ª Reunião Mensal
Terça-feira, 20 de setembro, 16h - Teams meeting

**Participação do Brasil no SPWLA
International Student Paper Contest**

Felipe Cruz Oklahoma University	Sarah Aleixo Teresa Mourão UFRJ
1 Categoria Doctorate	2 Categoria Undergrad

SPWLA Brazil monthly meeting with Sarah and Teresa, 2nd place winners in the competition (language: Portuguese).

26–28 September—We participated in the joint online event of four SPWLA student chapters around the world (Argentina, Brazil, Colombia, and the USA), entitled “Unconventional Resources Present and Future.” It was great to exchange experiences with four different countries and learn what each one had to say about unconventional reservoirs. We are excited about the upcoming events.

Unconventional Resources Present and Future
Save the date!
September 26, 27 and 28

4 Countries Stories

Join us virtually and let's learn together about USA, Argentina, Colombia and Brazil's unconventional resource stories

Experienced professionals from each country will give talks and state case studies.

PERMIAN - VACA MUERTA - LA LUNA - POTIGUAR

Four SPWLA student chapters working together!

SPWLA Unconventional Resources Event (2022).

We are also focused on organizing new events. Lately, we have been holding biweekly meetings for the 4th Petroleum Geology Week, planned for March 2023, at the Federal University of Rio de Janeiro.

Also, one member had to stop their activity with the chapter due to a lack of time to dedicate to it, so now we are 12 members.

Upcoming Events

We are organizing an online lecture on well-image interpretation for the next month with the SPE Student Chapter (Society of Petroleum Engineers). It was a proposal that came to us, and we liked the idea.

Finally, now that we are coming to the end of the year, we are planning to open a new selection process for new members. We are excited to have new people come in who can help with the chapter.

FORMATION TESTING SIG

General News

The FT SIG held a general meeting with the steering committee on October 14, 2022, to discuss and review the current planning for events and webinars.

Recent Events

20 October 2022—Our webinar series kicked off with excellent presentations from Equinor and Schlumberger. Thanks to the speakers and participants. These webinars provide an excellent forum for technical discussions and learning about all aspects of formation testing.

Upcoming Events

We look forward to the next webinar in our series planned for early December. A specific date will be announced soon.

The in-person FT Conference is returning in spring 2023! Planning is ongoing, so if you would like to be involved, please let us know at formation.testing.sig@spwla.org.

Formation Testing Workshop – This event will be part of the 2023 SPWLA Annual Symposium. More details will be provided soon, but if you have specific questions or want to be involved, please email us at formation.testing.sig@spwla.org.

HOUSTON CHAPTER

General News

July and August were the hottest Houston has ever seen. It did not stop the SPWLA Houston Chapter from continuing to organize and support stimulating and enlightened activities for our members. We are excited to have more in-person events in the Houston area, including lunch seminars, social networking, and technology shows.

Recently, we organized one technical seminar with **Dr. Jennifer Adams** (Stratum Reservoir). The seminar was held on September 14. We want to sincerely thank the speaker for her excellent talk. Thank you to all the attendees and participants for making the event successful and the Q&A sessions lively and dynamic. A huge thanks to Stratum Reservoir for sponsoring the event.

On October 6, the SPWLA Houston Chapter hosted an in-person social networking event. The whole SPWLA community was invited. This was an outdoor party attended by petrophysicists, geologists, geophysicists, engineers, managers, etc. We had current and past SPWLA International board members joining our event, and we also welcomed the SPWLA NMR SIG members to the party. This was a successful and great event. A huge thanks to **CORE GEOLOGIC, GEOLOG**, and **ROGII** for sponsoring the SPWLA Houston Chapter Networking event. Thank you to all who attended the event. More events are planned. Please check spwla-houston.org for the most updated information.

We are glad to continue our in-person events. We have two in-person lunch seminars scheduled—one in October and one in November.

On October 19, we hosted a lunch seminar titled “UDAR: Past, Present, and Future. An Operator’s Experience and Perspective on the Challenges and Opportunities in Applications With Ultradeep Resistivity Tools,” presented by **John Bergeron (BP)**.

On Friday, November 9, there will be another lunch seminar, “CCUS Petrophysics: How Is It Different? How Is It the Same?” presented by **Adam Haecker (Battelle)**.

Another seminar was held on October 26 by **Dr. Xiao-Ming Tang**, titled “Fracture Characterization Combining Borehole Acoustic Reflection Imaging and Geomechanical Analyses.”



The annual Technology/Software Show will be a day event on December 9 at the Hyatt Regency Houston Westside. Join the event to learn about recent innovations and technology advancements in software for formation evaluation and data interpretation. Stay tuned for updates.

Get more details at: <https://www.spwla-houston.org/event-detail.php?id=9>.

We work diligently to bring the best speakers to you, and we are looking forward to seeing you again at our upcoming events and activities.

If you want to receive notifications of upcoming events and chapter news, please register on the new SPWLA Houston Chapter website and follow us on LinkedIn. Additionally, there are multiple exciting sponsorship opportunities and job postings announced there. Please reach out to us in case you are interested or if you would like to receive additional information. As always, we are open to new speakers at our seminars, and we look forward to bringing other guests, in addition to our SPWLA DS, if the topic interests the petrophysics audience. Contact our VPs or me if you have a presentation you would like to share.

Please stay tuned and check it out for upcoming news! As always, feel free to contact any of the board members if you have any questions or comments.

Recent Events

14 September 2022—SPWLA Houston Chapter Lunch Seminar: SPWLA Houston Chapter recently organized a lunch seminar with Dr. Jennifer Adams (Stratum Reservoir) titled “Stratum Reservoir: Solving CO₂ Sequestration Challenges.” We would like to thank Dr. Adams for presenting her work to our chapter members and other attendees who were interested in the topic. A huge thanks to Stratum Reservoir for sponsoring the event.

6 October 2022—Networking Happy Hour: Our Networking Happy Hour was a successful and great event. It was well attended by petrophysicists, geologists, geophysicists, engineers, and managers. We also had current and past SPWLA International board members who joined our event. A huge thanks to CORE GEOLOGIC, GEOLOG, and ROGII for sponsoring the SPWLA Houston Chapter Networking event. We appreciate their continuous support for SPWLA Houston Chapter. SPWLA Houston Chapter will continue to organize informed and fun activities for our members.

19 October 2022—Lunch Seminar Northside: Speaker John Bergeron (BP) presented “UDAR: Past, Present, and Future. An Operator’s Experience and Perspective on the Challenges and Opportunities in Applications With Ultradeep Resistivity Tools.” The seminar included a boxed lunch and was sponsored by Baker Hughes.

26 October 2022—Lunch Seminar Downtown: Dr. Xiao-Ming Tang presented “Fracture Characterization Combining Borehole Acoustic Reflection Imaging and Geomechanical Analyses.”

Upcoming Events

26 October 2022—Lunch Seminar Westside from 11:30 am to 1:00 pm: Speaker Adam Haecker (Battelle) will present “CCUS Petrophysics: How Is It Different? How Is It the Same?” This activity will include a boxed lunch. The seminar is sponsored by GEOLOG, so there is no charge for registration; however, you still need to register using the applicable links below:

Registration Link: <https://www.spwla-houston.org/seminar-detail.php?id=51>.

9 December 2022—SPWLA Houston Chapter Technology Show

7:45 am–3:00 pm

Hyatt Regency Houston Westside

13210 Katy Fwy, Houston, TX 77079

The SPWLA Houston Chapter invites you to join us at the 2022 SPWLA Houston Chapter Technology Show on December 9 to learn about recent innovations and technology advancements in software for formation evaluation and data interpretation.

Details can be found at: <https://www.spwla-houston.org/event-detail.php?id=9>

More details are available on the Houston Chapter's website: <https://www.spwla-houston.org>
and the Houston Chapter LinkedIn profile: <https://www.linkedin.com/company/houston-chapter-of-spwla/>

HYDROCARBON RESOURCES SIG

General News

The SPWLA Hydrocarbon Resources SIG Board was informed in July that the SPE board approved the PRMS Applications Guidelines (AG) for publishing. As previously noted, the SIG has been actively working on the designated Petrophysics chapter (Chapter 5) of the PRMS Application Guidelines, along with the Oil and Gas Reserves Committee (OGRC).

In addition, the SIG held its first open "virtual" session to welcome and introduce the SIG to new members.

Recent News

21 September 2022—The SIG held its first open "virtual" session to welcome and introduce new members to the SIG (the picture to the upper right shows some of the professionals present at the well-attended session). Several comments and questions were raised during the session, particularly a potential change to the SIG name, vision, and mission in line with the emerging energy transition trend.

The board reviewed and deliberated on the proposal and decided that the SIG should remain focused on being the SPWLA reference for Hydrocarbon Resources definitions and estimation in line with industry-recognized guidelines and represent SPWLA in the SPE Oil & Gas Reserves Committee (OGRC) sessions. The board approved a name change from "SPWLA Hydrocarbon Reserves SIG" to "SPWLA Hydrocarbon Resources SIG."

Upcoming Events

The SIG is planning another virtual general meeting in November to share the SIG contribution to the yet-to-be-published PRMS AG. Furthermore, we solicit new members to join the SIG, given the importance of resources and reserves estimation in our industry.

SIG contact email: reserves_sig@spwla.org.



Picture of attendees from the first open SIG Session – September 21, 2022.

IGUP STUDENT CHAPTER-PAKISTAN

General News

SPWLA IGUP Student Chapter-Pakistan organized extensive meetings to discuss and finalize next year's targets. In addition, SPWLA IGUP Student Chapter-Pakistan arranged a meeting with the faculty advisor and ex-team and closed the previous year's paperwork.

Boards of Directors

The names of the elected board of directors with their designation and contact details are as follows:

Dr. Muhammad Armaghan Faisal Miraj armghan.geo@pu.edu.pk	Faculty Advisor
Miss Maha Ali Haider mahaalihaider26@gmail.com	President
Mr. Shan Shahzad shan.mphil.geo@pu.edu.pk	Vice President
Miss Pal Washa Shahzad Rathore palwashashahzad97@gmail.com	Treasurer
Miss Ayesha Ejaz ayesha.mphil.geo@pu.edu.pk	International Relations Chairperson
Mr. Muhammad Hamza hamza-930233@pu.edu.pk	Membership Chairperson
Mr. Muhammad Waqas Javed geo747@outlook.com	Event Manager



Board of Directors of SPWLA IGUP Student Chapter-Pakistan (2022–23).

Recent Events

21 September 2022—The Board of Directors visited the classrooms to discuss issues pertaining to students and guided them on how they can benefit from the chapter to excel in their future.



Faculty advisor addressing the queries of students.



Group photo of the president, faculty advisor, and event manager of SPWLA IGUP Student Chapter-Pakistan.

Upcoming Events

SPWLA IGUP Student Chapter-Pakistan is planning to organize webinars, hands-on software training for students, and a geological field excursion. The detailed tentative plan for the year (2022–23) is as follows:

Detailed Tentative Plan of SPWLA IGUP Student Chapter-Pakistan for the Year (2022–23)

Plan	Month/Year
Webinar Series	October-2022
Hands-on Software Training for Students	November-2022
One Geological Field Excursion	December-2022
Webinar Series	January-2023
Hands-on Software Training for Students	February-2023
Local SPWLA Annual Student Competition	March-2023
One-Day Geological Field Excursion	April-2023
Webinar Series	May-2023
Webinar Series	June-2023
Webinar Series	July-2023

More details about the upcoming events will be updated on our social pages:

LinkedIn: <https://www.linkedin.com/in/spwla-igup-student-chapter-pakistan-57b116219/>

Facebook: <https://www.facebook.com/SPWLA-IGUP-Pakistan-107338908181070>

Contact Details: spwla.igup.pak@gmail.com

INDIA CHAPTER

The term of the earlier EC body of the SPWLA India Chapter expired, and fresh elections were held in August. The new office bearers of the SPWLA-India Chapter EC body took charge in September. The list of new office bearers is listed below:

Sr no	Position	Name	Company
1	President	Sri. M K Tewari	ONGC
2	Vice President (Membership)	Sri. S K Singhal	ONGC
3	Vice President (Research)	Sri. Yogesh Bahukhandi	ONGC
4	Vice President (Publications)	Sri. M A A Srinivas	ONGC
5	Vice President (Technology)	Sri. Joseph Zakaria	Schlumberger
6	Vice President (Technology Evaluation)	Sri. Kumar Saurabh	Baker Hughes
7	Vice President (Education)	Sri. Sanjay Vohra	Paradigm
8	Secretary	Sri. Ashutosh Semwal	ONGC
9	Treasurer	Sri. Rajnish Kumar	ONGC
10	Joint Secretary (Membership)	Sri. R S Chauhan	ONGC
11	Joint Secretary (Membership)	Ms. Neeta Sinha	ONGC
12	Joint Secretary (Technology)	Sri. Naman Wadhwa	Baker Hughes
13	Joint Secretary (Technology)	Sri. Arpit Singhal	Halliburton
14	Joint Secretary (Education)	Ms. Shreya Singh	Schlumberger
15	Joint Secretary (Education)	Sri. Kuldeep Singh Chib	HLS Asia
16	Joint Secretary (Publications)	Sri. Sajith CS	ONGC
17	Joint Secretary (Publications)	Sri Vishal Dubey	ONGC

A meeting of the new EC body was held on September 20, 2022 to discuss various agendas, including increasing memberships and chapter activity and technical sessions. The meeting was well attended by all the EC body members and other support executives, and detailed deliberations took place on predefined agenda points. In this meeting, it was resolved to conduct the 5th SPWLA-India Symposium in Mumbai in April 2023. The exact dates and theme are being finalized and will be communicated shortly for uploading to the SPWLA site.

LONDON PETROPHYSICAL SOCIETY (LPS)

Recent Events

13 September 2022—The LPS held an all-day seminar on “Formation Pressure Testing, Sampling and Interpretation,” which was well attended. All nine speakers were present at the Geological Society; however, as a new innovation, the seminar was also open to those participating online, opening the event up to a larger audience.

11 October 2022—The LPS also held an in-person evening talk at the Geological Society. James Hemingway (No Hidden Pay) presented a talk on “The Petrophysics of Dielectric Permittivity at LWD Frequencies: Observations in a High-Permeability Sandstone Reservoir in the North Sea.” As always, the talk was followed by networking with plenty of questions and further discussion on the topic.

Upcoming Events

17 November 2022—Our AGM will be held at the Geological Society, followed by an off-topic talk. Attending the AGM is an important part of the good governance of any charity, and all members are encouraged to attend and vote.

8 December 2022—The LPS will host the year’s final event, an in-person all-day seminar on “Principles and Application of Acoustic Logging.”

NEW ORLEANS CHAPTER

General News

SPWLA NOLA is collaborating with other national and college SPWLA chapters and the local New Orleans community to continue holding virtual luncheon learning sessions.

Recent Events

In August, SPWLA NOLA sponsored a luncheon table at the 23rd Annual Greater New Orleans Joint Industry Luncheon

– New Orleans hosted by API-Delta Joint Society. This was a kick-off luncheon to the annual Deepwater Symposium, and the luncheon focused on the topic: “Gulf of Mexico Activity Outlook” and had two keynote speakers, Scott Nance (Wood Mackenzie research analyst) and Louisiana State Senator Sharon Hewitt.



APT-Delta Joint Society 23rd Annual Greater New Orleans Joint Industry Luncheon. SPWLA Board members pictured: Dave Mercer, Elizabeth Tanis, and Leeann Daniels.

In October, SPWLA NOLA proudly donated USD 5,000 towards Ascension Parish 4-H recruitment for their robotics club and other STEM-related activities. The SPWLA New Orleans Chapter prides itself on encouraging and supporting students pursuing education directly related to STEM-related fields, such as geoscience, biology, chemistry, engineering, math, or physics, and more specifically, the science of oil, gas, or other mineral formation evaluation.



Check presentation to Ascension Parish 4-H with SPWLA President Elizabeth Tanis and 4-H members Camille Brady and Stephanie Gravois.

OKLAHOMA CITY CHAPTER

Recent Events

13 September 2022—Jon Roberts (Devon Energy) presented “Drillbit Geomechanics – A Discussion of Methods and Comparison of Results.”

20 October 2022—Fall Social at Top Golf – Sponsored by Ikon Geophysical.

Upcoming Events

November 2022—Adam Haecker (Battelle Memorial Institute) will present “CCUS Petrophysics: How Is It Different? How Is It the Same?”

UNIVERSITY OF LOUISIANA AT LAFAYETTE
STUDENT CHAPTER

General News

On Tuesday, October 11, the University of Louisiana at Lafayette Student Chapter held elections for the 2022–2023 academic year.

Elected to office were:

President: Ali Sajedian, *PhD student in systems engineering with a concentration in petroleum engineering.*

Vice President: Vu V. Nguyen, *PhD student in systems engineering with a concentration in petroleum engineering.*

Secretary: Philip B. Wortman, *PhD student in systems engineering with a concentration in petroleum engineering.*

Treasurer: Maksym Chuprin, *PhD student in systems engineering with a concentration in petroleum engineering.*

Social Media Chair & Events Coordinator: Tiffany M. Lastinger, *a senior student in petroleum engineering.*

Recent Events

21 September 2022—Cristina Ruse, former president of the chapter, and Philip Wortman attended the SPWLA Q3 Board Meeting held by Dr. Elizabeth Tanis, president of the New Orleans Chapter. It was decided to tighten the collaboration between our student chapter and the chapter in New Orleans and:

- Inform both high school senior students and first-year college students about the possibility of applying for scholarships offered by the New Orleans Chapter
- Have student chapter members travel to New Orleans for a joint meeting
- Have students present their senior design projects in front of interested industry members

UNIVERSITAS PERTAMINA STUDENT CHAPTER

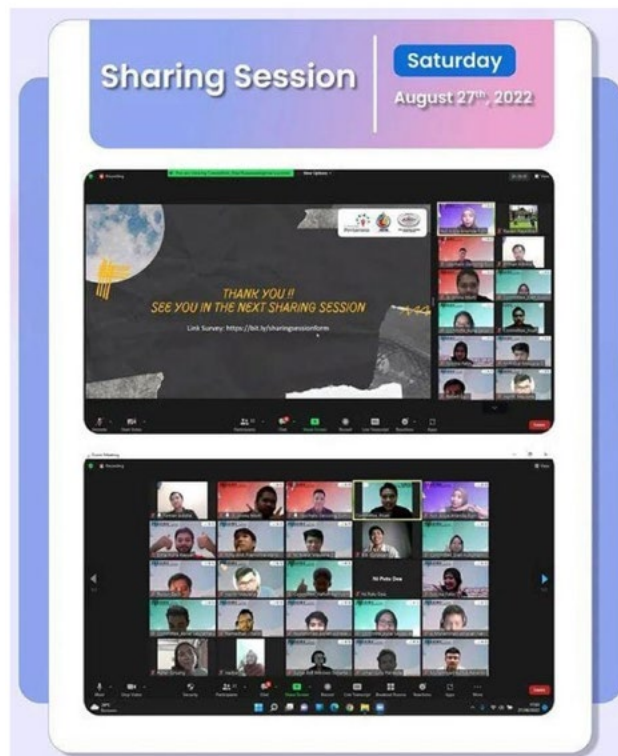
General News

SPWLA Universitas Pertamina Student Chapter 2022/2023 had a fresh start in September. As the fourth cabinet, we named our cabinet, The Propagation Cabinet. Our chapter still is the most active among SPWLA student chapters in Indonesia. The student chapter officers come from various majors, including petroleum, geological, and geophysical engineering students who are still pursuing bachelor's degrees.

To keep up with each other, we usually hold a monthly meeting on the second week of the month. We aim to improve and develop hard and soft skills to prepare our members for a new work-life journey. In the year ahead, we will hold many programs internally and for the public. Please follow our social media @spwla.upsc on Instagram!

Recent Events

27 August 2022—Sharing Session is an internal event held by the Human Resource Department to improve the officers' knowledge regarding academics and the organization itself. This event was attended by the president and quality assurance from the previous cabinet. It also increases the new officers' readiness to face challenges in college and the organization.



The Sharing Session was successfully held and well attended by the SPWLA UPer SC officers.

8 October 2022—The Talkshow discussed **The Future Oil and Gas Industry** based on the experiences of experts in its field. Its purpose was to give new insights and knowledge regarding the oil and gas industry for the participants in the future. The experiences we shared are more like the big picture of the industry itself, the joys and sorrows of working in the oil and gas industry. This event was open to the public, especially Indonesian students interested in the oil and gas industry.

Talkshow
"Industri Minyak dan Gas di Masa Depan: Suram atau Cerah?"
 With Dongeng Perminyakan 🗣️

Propagation Cabinet

Speakers:
Aloysius Heru Danardatu
 Production Optimization Specialist at X systems LLC, Abu Dhabi, United Arab Emirates

Anton Suteja
 Lead Wells for HPHT Equipment & Quality at Shell

Moderator:
Raihan Dhia Nandika
 Petroleum Engineering Student at Universitas Pertamina

LIVE AT
 ZOOM
 Youtube

OPEN FOR PUBLIC
 Register Now at
[Bit.ly/regist-talkshow](https://bit.ly/regist-talkshow)

Contact Person
 ☎️ 082210371648 (Rahel)

www8847r | spwla.upsc | spwla.upsc | SPWLA Universitas Pertamina SC

The Talkshow poster for the event held on October 8.

MEMBER ACHIEVEMENT

Chicheng Xu is the 2022 recipient of the SPE Regional Data Science and Engineering Analytics Award – Gulf Coast North America. Chicheng Xu is currently working as a research petrophysicist and project leader at the Aramco Houston Research Center. His research focus is on petrophysical reservoir characterization using advanced computational techniques and data analytics for interpretation, classification, and modeling based on multiscale subsurface data integration. From 2013 to 2017, he worked as a petrophysicist/rock physicist for BP America and BHP Billiton, supporting US asset operations and reservoir characterization in deepwater turbidite fields as well as onshore unconventional fields. He obtained his bachelor's degree in physics from the University of Science and Technology of China (2002) and a master's degree in physics from the Chinese University of Hong Kong (2004). After working for more than 4 years for Schlumberger Beijing Geoscience Center as a geoscience software engineer, he continued his PhD education with the Formation Evaluation Consortium at the Petroleum Engineering Department of UT Austin in 2009. He developed a series of novel petrophysical rock typing methods and workflows with multiscale subsurface data and published 20 technical papers during his PhD work. Dr. Xu is currently an associate editor for the *Petrophysics* and *SPE Reservoir Evaluation and Engineering* journals. He cofounded the SPWLA Special Interest Group of Petrophysics Data-Driven Analytics (PDDA) and served as the chair from 2018 to 2020.

Welcome New Members – August 15, 2022–October 19, 2022

Ahmed, Einas, GHD, Cypress, TX, United States
Bertoch, Austin, ConocoPhillips, Midland, TX, United States
Bixler, Blake, Senslytics, Edmond, OK, United States
Borne, Robert, Baker Hughes, Fulshear, TX, United States
Boulatrous, Houari, Sonatrach, Algiers, Algeria
Duplantis, Todd, Core Laboratories, Porter, TX, United States
Farag, Ali, Halliburton, Dubai, United Arab Emirates
Garcia, Marcos, Baker Hughes, Spring, TX, United States
Grace, Winston, DE Corporation, Lauderhill, FL, United States
Grader, Abraham, Halliburton, Yarmouth Port, MA, United States
Green, Aaron, Denbury, Plano, TX, United States
Harrison, Wayne, Chemostrat Inc., Houston, TX, United States
Hawthorn, Andy, Baker Hughes, Missouri City, TX, United States
Hazarika, Priyanka, Halliburton, Sandnes, Rogaland, Norway
Jouve, Nicolas, Schlumberger, Houston, TX, United States
King, Stacey, Premier Corex, Oklahoma City, OK, United States
Markell, Jonathan, Netherland, Sewell & Associates, Inc., Dallas, TX, United States
Orso, Joseph, Matador Resources, Richardson, TX, United States
Quigg, Ryan, Weatherford, Nisku, AB, Canada
Samuel, Silas, Oklahoma State University, Stillwater, OK, United States
Sharma, Richa, Schlumberger, Cambridge, MA, United States
Sharpless, Andrew, UL Lafayette, Lafayette, LA, United States
Shayya, Nabil, Houston, TX, United States
Starostina, Natalia, Schlumberger, Houston, TX, United States
Steinsiek, Roger, Baker Hughes, Houston, TX, United States

