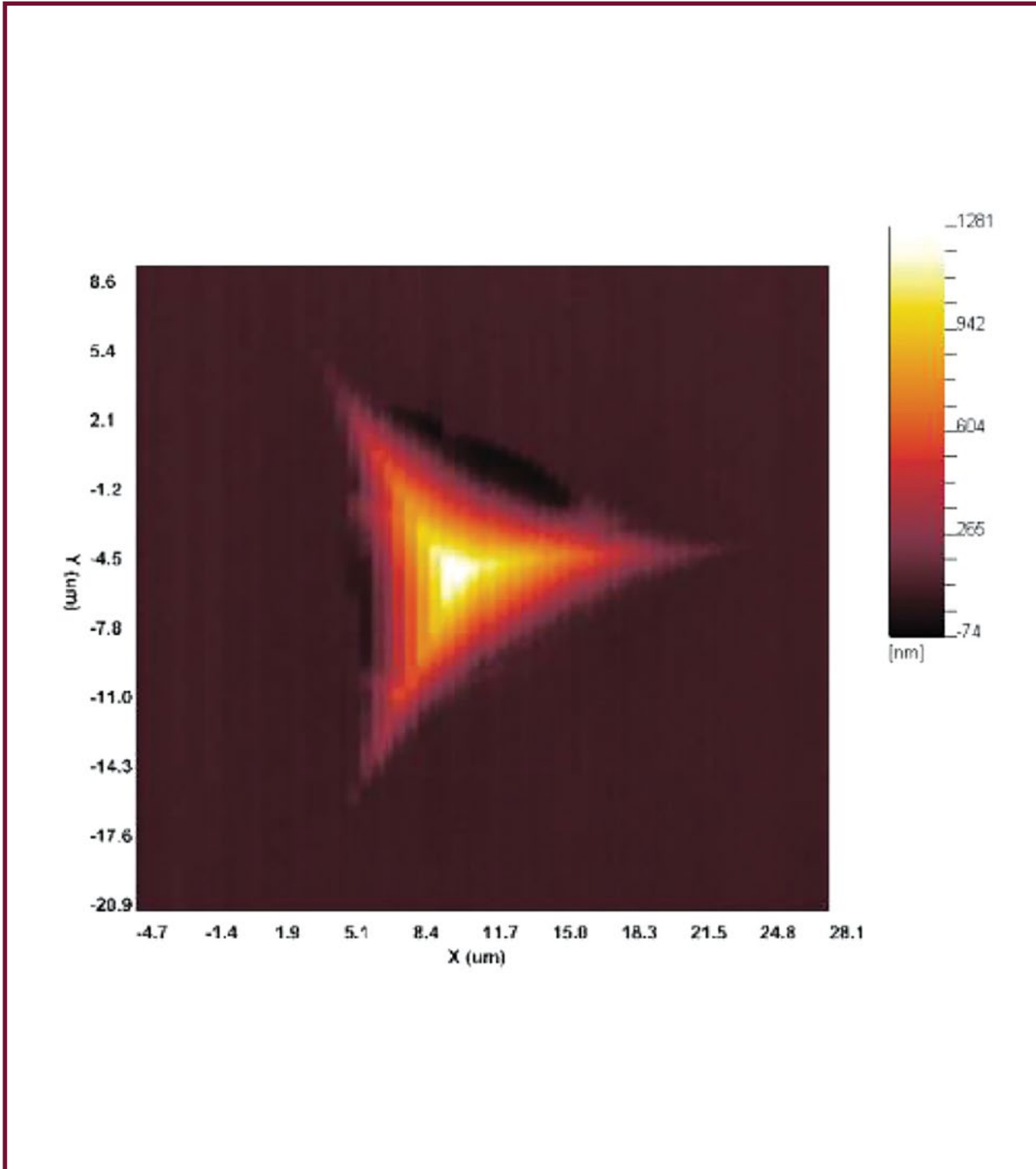


spwla today

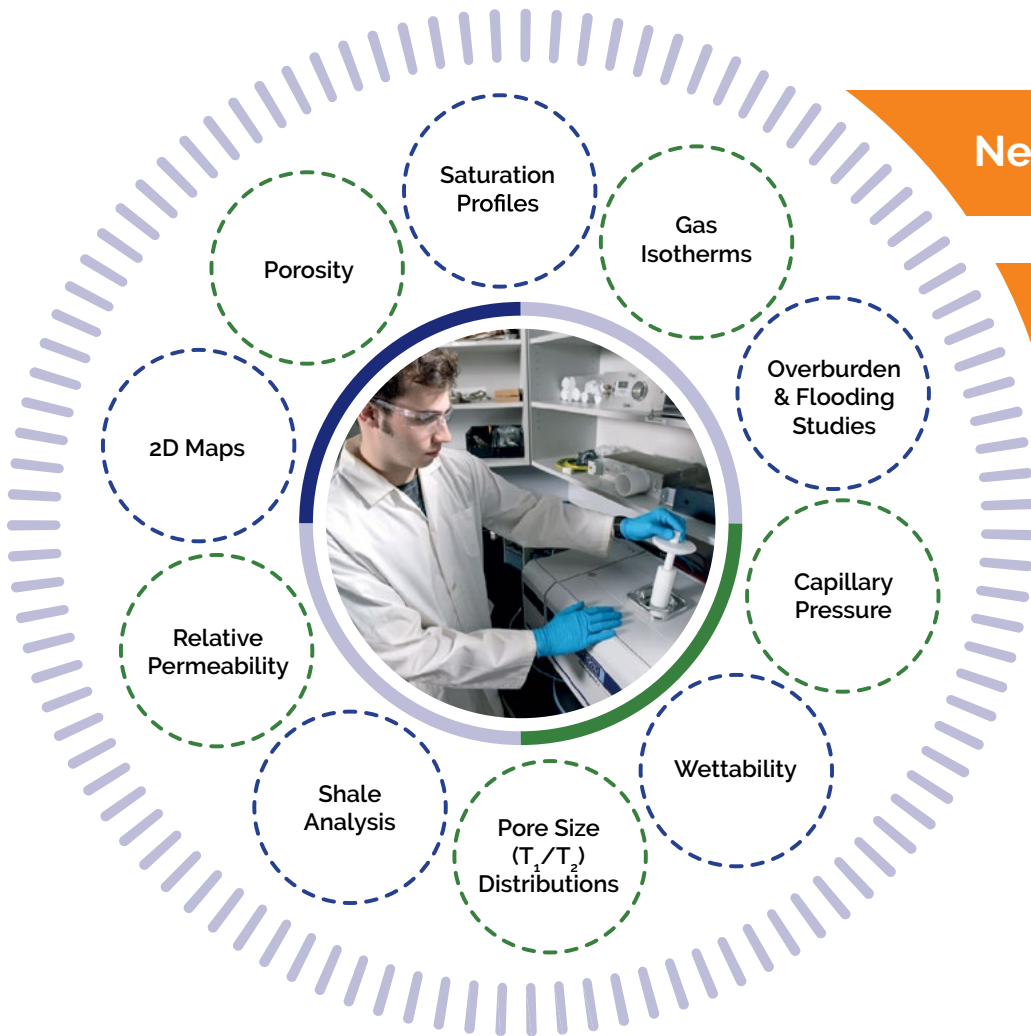


NEWSLETTER

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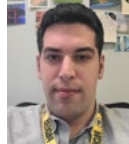
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Notice: Articles published in SPWLA Today are not subject to formal peer review but are subject to editorial review and are verified for technical consistency and relevance.

February 14–16, 2023

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

February 27–28, 2023

Introduction to NMR – Basic Fundamentals
Instructor: Brian Stambaugh
Online Training Webinar
www.spwla.org

March 6–9, 2023

Intermediate and Advanced NMR Interpretations
Instructor: Brian Stambaugh
Online Training Webinar
www.spwla.org

June 10–14, 2023

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

About the Cover

The SPWLA mourns the passing of Carl Sondergeld, a prolific contributor and mentor to the petrophysical community. On the cover is a figure from his final SPWLA paper, which was published in October 2022. The paper, entitled A Guide to Nanoindentation, can be read by SPWLA members here: <https://www.spwla.org/SPWLA/Publications/Papers/PJV63N5-2022a1.aspx>.

From the President



Tegwyn JP Perkins
2022–2023
SPWLA President

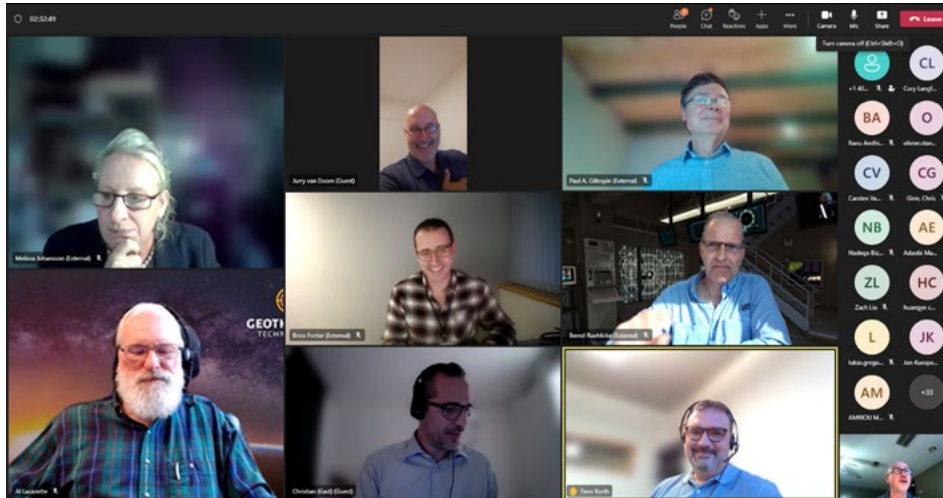
Hello, and welcome to my fourth column as SPWLA President for the *SPWLA Today* newsletter. I'm writing this in early December, but by the time it's published, the abstract submissions for SPWLA 2023 in Lake Conroe, Texas, will be closed, and the Technology Committee, organized by VP Technology **Iulian Hulea** and **Robert Gales**, will have reviewed the abstracts and made their selection for the Technical Program. Having been in this position myself previously, I know just how much work it is, and I would like to thank everyone involved.

In early November, I was delighted to represent SPWLA at the Fourth International Geomechanics Symposium, which was held in Abu Dhabi. The event was a first in that seven different geoscience-related societies collaborated to promote geomechanics. The American Rock Mechanics Association (ARMA), Dhahran Geoscience Society (DGS), and Society of Exploration Geophysicists (SEG) were the organizers, while the symposium was endorsed by the American Association of Petroleum Geologists (AAPG), European Association of Geoscientists and Engineers (EAGE), Society of Petroleum Engineers (SPE), and Society of Petrophysicists and Well Log Analysts (SPWLA). I served on the Executive Committee, participated in the President's Panel, where we discussed the Energy Transition and challenges for both membership and diversity, equity, and inclusion, and co-chaired a technical session. It was a wonderful experience, and I hope my successors continue to be involved with the event.



Also, in November, we held our second Borehole Imaging SIG workshop. It was held online and attracted just under 100 attendees. The two-hour event included a talk by 2022–23 Distinguished Speaker **Laura Lima** and a candid discussion on standards for borehole imaging data delivery. A more detailed review will be provided later in *SPWLA Today*. Here is a snapshot of some of the attendees.

From the President



The SPWLA Diversity, Equity, and Inclusion (DE&I) committee is gaining traction. Chaired by **Julie Rowlands**, it has been 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.

The annual symposium website, spwlaworld.org, continues to gain new content, and it's the place to learn about the latest news for SPWLA 2023. Most recently, we have added sponsorship and exhibition pages and details about accommodations at Lake Conroe. We have also added a Diversity, Equity, and Inclusion section, and we're currently working on a more global event calendar. Please visit the site and leave your feedback.

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. All committee chair positions have now been filled, but we are still looking for support positions. Please contact Javier at director-na1@spwla.org if you are interested in joining. Here is an aerial view of the 2023 symposium headquarters:



Finally, I'd like to wish everyone best wishes for the New Year.

With reference to the Football World Cup and Wales' failure to progress:
Gwnaeth y bechgyn ni'n falch. Gwell lwc ymhen pedair blynedd /
The boys did us proud. Better luck in 4 years' time.

Kind regards,
Tegwyn JP Perkins
President 2022–2023
President@spwla.org

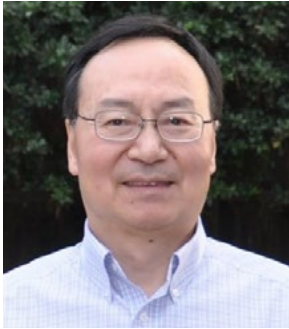
From the Editor



Stephanie Ellen Perry
2022–2023
Vice President Publications

Here's to hoping everyone is doing well at the end of 2022 and welcoming the new year of 2023. We hope you enjoy the first newsletter issue of the year to kick it off, as the organization has been busy over the past couple of months. Chapter highlights include lots of ongoing action, including new chapters being created, others reestablished, and lots of engagement and involvement in sharing knowledge and content together. We continue to see an increase in the effort to meet in person and reestablish our connections locally and globally. In addition, we continue our focus on collaboration across our organization and beyond. We continuously seek volunteers who want to become more involved on any level of the organization, so don't hesitate to reach out. We hope you enjoy the content. Until next time.

All my sincerest regards,
Stephanie Perry

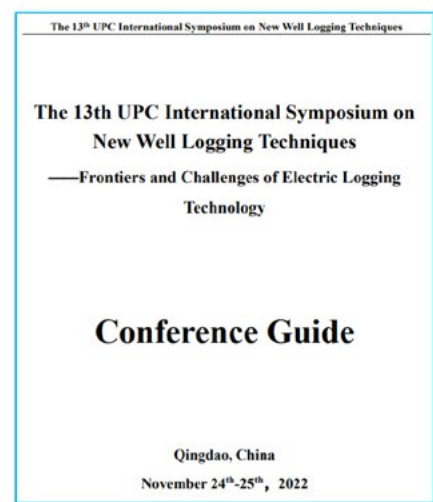


Harry Xie
2021–2023 Vice President
Information Technology

Dear Colleagues,

Happy New Year! Welcome to 2023 and my column for the *SPWLA Today* newsletter.

We are all eager to meet each other again at the 2023 Annual Symposium in Texas after the successful meeting in Stavanger, Norway, as face-to-face events can never truly be replaced. In the meantime, however, the SPWLA is an educational-oriented organization where we continue to provide professional-level educational programs and technical conferences, in person or virtually. Here I would like to mention two examples that demonstrate how active our society has been over the past couple of months. (1) The NMR SIG held an in-person conference in Houston, where more than 70 people attended, and (2) the East China Chapter had its virtual 13th UPC International Symposium on New Well Logging Techniques with a theme of Frontiers and Challenges of Electric Logging Technology, where the SPWLA President-Elect, Jennifer Market, gave a warm opening address.



Of course, there are many more activities in our community. Keep monitoring the upcoming events on our website. We also provide grants and scholarships for qualified universities and students: [Grants and Scholarship Recipients \(spwla.org\)](https://www.spwla.org/grants-scholarships). We encourage our academic members to take advantage of such opportunities.

I hope to see y'all in person in Texas in June.

Harry Xie
SPWLA VP IT 2021–2023
vp-infotech@spwla.org

Learning Opportunities



Kelly Skuce
2022–2024 Vice President
Education

Hello SPWLA Colleagues,

Now that the snow is falling and the cold is setting in (actually, we have had snow since early October up here in Calgary!), everyone is tuning in to more webinars instead of getting outside. The Distinguished Speaker webinars are well attended, and we will be switching up in the new year to having two or more a month to accommodate the Global and regular Distinguished speakers. See the tentative schedule below. If you see your name below and we haven't discussed it recently, check your email and see if there is one from me to firm up the schedule.

2022–2023 Distinguished Speakers Schedule

Name	Date	Title
Olga Podgornova	Jan 12	Full Waveform Inversion of Fiber-Optic VSP Data from Deviated Wells
Muhammad Nur Ali Akbar	Jan 24	Naturally Fractured Carbonate Reservoir Characterization: A Case Study of a Mature High-Pour Point Oil Field in Hungary
Laura Lima	Feb 9	Unsupervised Facies Pattern Recognition of Brazilian Presalt Carbonate Borehole Images
Open	Feb 21	
Mustafa Al Ibrahim	Mar 9	Uncertainty in Automated Well-Log Correlation Using Stochastic Dynamic Time Warping
Vanessa Simoes	Mar 21	Deep Learning for Multiwell Automatic Log Correction
Open	Apr 6	
Marco Pirrone	Apr 18	CCUS in Mature Fields: How Core-to-Log Data-Driven Analytics Enhances Mechanistic Models for the Purpose of Reservoir and Caprock Mineralogical Characterization
Open	May 4	
Open	May 16	
Open	June 1	

Please contact me, your Regional Director, or the SPWLA office if you want any of the Distinguished Speakers to attend your event either in person or virtually if they are unable to 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 email me at 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, 2022–2024



Mathilde Luycx
2021-2023 VP Social Media

Happy New Year, dear SPWLA members, friends, colleagues, and the petrophysics community! My wish for you for 2023 is a year of health, happiness, and personal and professional accomplishments!

I would like to recognize all SPWLA members and volunteers who contribute their time, expertise, and energy to our organization. The SPWLA organization only thrives with the support of our petrophysics community; therefore, I encourage you to **nominate your colleagues and fellow members for the 2023 SPWLA Awards**. The awards ceremony is the best way for our society to thank and recognize individuals who have made the most impact in our organization on a technical level or as volunteers. You already know who they are, so nominate them!

You can also continue (or start) supporting SPWLA by **renewing your membership in 2023**. The membership benefits largely offset its costs, especially if you are planning to attend any SPWLA event—e.g., the annual symposium, training sessions, and Distinguished Speaker webinars—in 2023.

As promised, the **Board of Directors** and **Regional Directors’** introduction videos are now available on the **SPWLA YouTube page**; all BOD members share their goals for their respective positions and also introduce themselves in a slightly less formal way!

To conclude the first newsletter of the year, I would like to share the **outcome of the Communication survey**, which was rolled out in October 2022. Below are a **few highlights**:

- The survey had **157 respondents**, so ~10% of the SPWLA membership. Many thanks to all members who participated!
- **SPWLA emails, LinkedIn page @SPWLA Social Media, and website** are the preferred modes of communication. This does not mean we will abandon other platforms; rather, we know where to focus the most effort and attention.
- The main action item, highlighted by many respondents’ suggestions, is **to improve the SPWLA website**, make it easier to navigate, offer more customization, and better access to information on international and local chapter events. The current spwla.org website has design limitations that make any significant improvement very challenging. Yet, migrating our content, especially the members’ information, to a new website is also difficult and costly. The Board of Directors and IT Committee are aware of this need and have been working on this transition for several months. This effort is ongoing and will continue.

These are just highlights. More information on the results and action items are available in the next section, especially the *Executive Summary* and the paragraph on *Question 5*.

My team and I look forward to 2023 and a successful Annual Symposium in Lake Conroe, TX, USA!

SPWLA 2022 Communication Survey Results

Executive Summary

The survey received **145 answers**; this represents ~10% of the SPWLA membership. We thank all respondents who took the time and effort to answer this survey. Although the survey was short—we aimed for less than 5 minutes to answer it, and I think we delivered on this—it has helped us identify the following:

- (1) The most-effective platforms to communicate SPWLA news: First, and by far, the SPWLA membership emails, then in the second position, LinkedIn and the SPWLA website. Knowing this doesn’t mean that we will give up communicating on other platforms, but we have a clear understanding of where to focus our time and effort. **One clear action item is to improve the SPWLA website, a proposal that was largely represented in the respondents’ suggestions.**
- (2) The type of news we should focus on sharing: **SPWLA webinars and technical talks, SPWLA publications** (the *Petrophysics* journal and *SPWLA Today* newsletter), and **SPWLA Conferences**. Most of our communication already focuses on these topics, but the respondents’ suggestions indicate that early communication on events, trainings, and technical talks is key, and that is something we can improve on.
- (3) Ideas and suggestions to improve our communication: There were many, and we thank the respondents for their investment and ideas. The details of the suggestions are discussed in the section on *Question 5*.

Question 1: How long have you been a member of SPWLA?

Most of the respondents have been a member of SPWLA for over 5 years. About 10% of the respondents who aren’t paying members of SPWLA are nonetheless interested in SPWLA events and/or are involved in local SPWLA chapter activities.

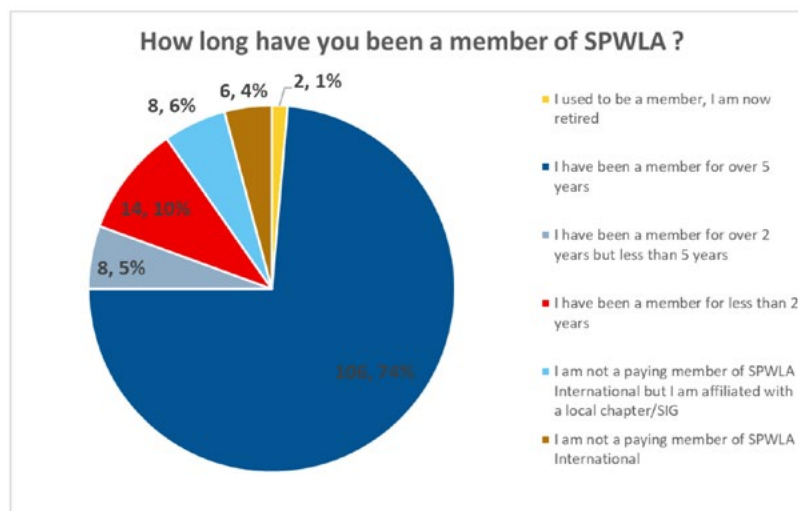


Fig. 1—Length of SPWLA membership of survey respondents.

Question 2: What is your age?

Over 70% of the respondents also indicated that they were older than 45 years old, with one-third of respondents being 65 years of age or older. Only around 12% of respondents were less than 35 years old, and 11% were between 35 and 44 years old. Compared to their respective share of the SPWLA membership, respondents over 65 years were 1.5 times more represented in the survey—the over 65-year-old age group represents 18% of the membership but 35% of the respondents. Conversely, respondents between 35 to 45 years old were less represented by half—the 35 to 45 age group represents 23% of the membership but only 11% of the respondents. The other age groups answered the survey proportionally to their representation in the SPWLA.

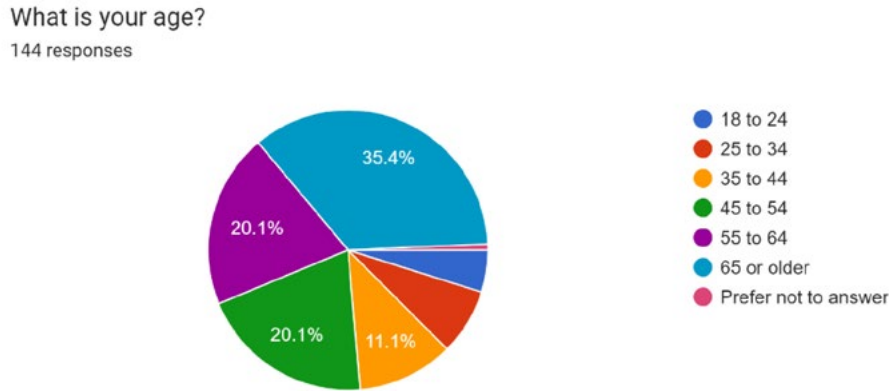


Fig. 2—Age distribution of the survey respondents.

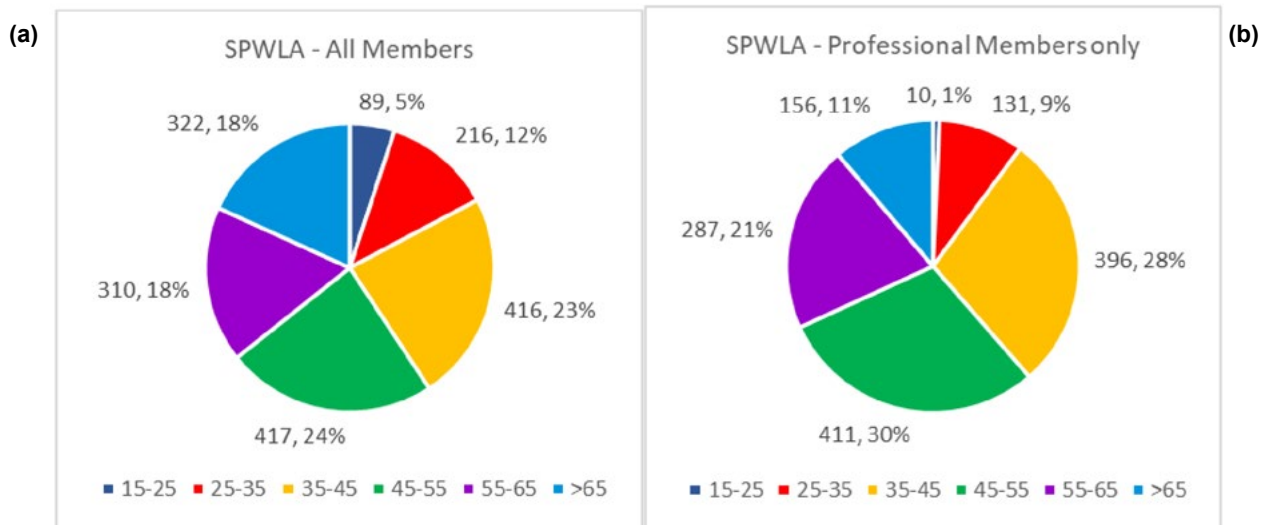


Fig. 3—Age distribution of SPWLA members (a) all members and (b) professional members only (excludes students, senior, life, and honorary members).

Question 3: Which platform(s) do you favor to learn SPWLA news and events?

The first question of the survey regarded the membership preferred mode of communication to learn about SPWLA news and events. **SPWLA emails were preferred by over 90%** of the respondents; the **other favored platforms** were the **SPWLA LinkedIn page and the SPWLA website**. Note that, in this question, participants could select more than one preferred mode of communication. Most participants who did not select SPWLA emails chose LinkedIn as their preferred communication platform.

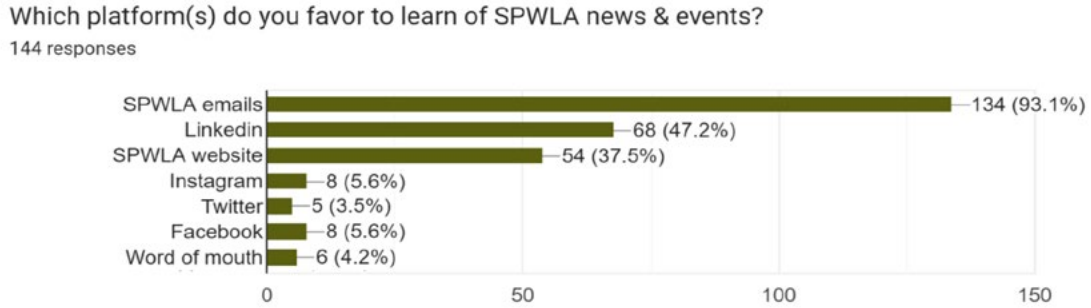


Fig. 4—Preferred communication platforms to learn of SPWLA news and events.

Question 4: What topics are you most interested in learning about from SPWLA communications?

In order of preference, most respondents were interested in learning about:

- (1) **SPWLA webinars and technical talks**
- (2) **SPWLA publications** (the *Petrophysics* journal and *SPWLA Today* newsletter)
- (3) **SPWLA Conferences** (annual symposium and topical conferences) – Although SPWLA conferences ranked third, it is important to remember that they are **essential in supporting the offerings of the respondents’ favorite topics:** webinars, technical presentations (1), and publications (2).

Communications regarding Special Interest Groups activities, local chapter activities, SPWLA trainings, and networking events were found less interesting.

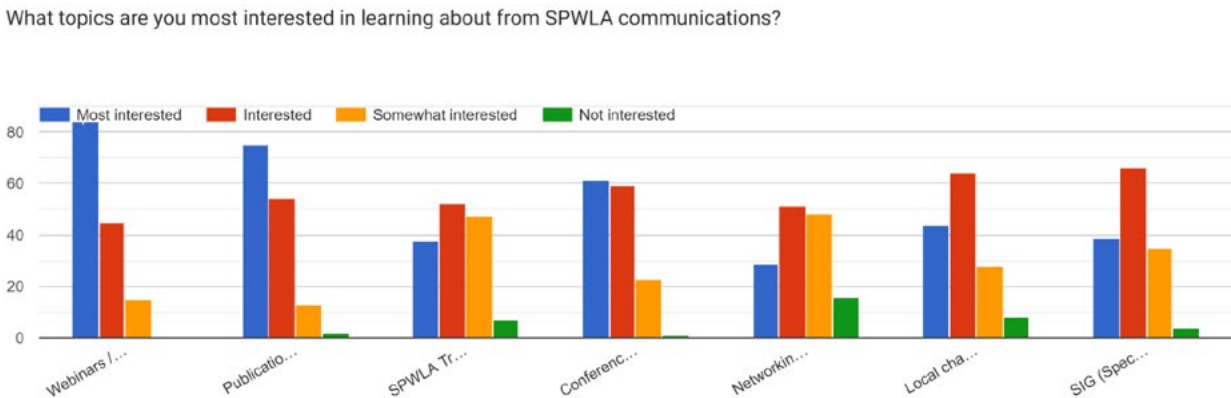


Fig. 5—Preferred topics as part of SPWLA communications.

Question 5: What suggestion(s) do you have to improve SPWLA communications, if any?

Our favorite part of the survey was the suggestions from respondents. There were many, and we thank all respondents for the time and effort they took in making suggestions. We have summarized them in categories:

1. The SPWLA website

Related suggestions:

- *"A better website."*
- *"Improve website link to local chapters [...] currently it's many, many, many clicks."*
- *"Ideally, the SPWLA website would be the go-to site for all things formation evaluation [...] should be a big repository of basic advice."*
- *"Allow for a more tailored communication profile where you can choose what type of event/publication information you want to receive and how."*
- *"Put up an events calendar and keep it up [...] link to social media."*

We can all agree that the existing spwla.org website is old, clunky, and with limited capabilities. Our society needs a big upgrade to enable all the suggestions above; however, transferring the information is a big effort and not a cheap one! The SPWLA Board of Directors and IT Committee are working on the transfer to a new website. The main challenge has been to identify a safe way to preserve the information from individual members (e.g., membership status, contact information, SIG, and local chapter memberships). In a nutshell, the society is working on it; the primary goal is to migrate the existing information to a new platform safely before additional capabilities can be implemented.

2. Sharing technical content

Related suggestions:

- *"Share event recordings through a YouTube channel."*
- *"Start producing free training videos on YouTube; include videos of ALL presentations from ALL conferences, seminars, etc."*
- *"Share more material in Petrophysics journal."*

It's been SPWLA's position that training videos, conference presentations, *Petrophysics* journal publications, and some technical content like the Distinguished Speaker webinars should be a membership benefit. Clearly, differentiating membership benefits like access to high-quality technical content (as we should!) does not allow us to share it on an open platform like YouTube. Our society has shared privileged technical presentations like its Distinguished Speakers presentations with paying members through "Knowledgette" (<https://www.knowledgette.com/courses/category/SPWLA>), and the *Petrophysics* journal is also available to members. We have also started providing online training videos for a fee on the SPWLA [website](#). Some free video content, Nuggets of Wisdom and The More You Know, is available on our YouTube channel. When possible, video recordings from presentations given at the local chapter level (and therefore that aren't part of SPWLA benefits) are also uploaded on the SPWLA YouTube channel; for example, recordings from SPWLA Bangkok are available. Nonetheless, we recognize that more efforts are required to make technical content more broadly available online to members and non-members, and we will keep working toward this goal.

3. The positive

It's also great to hear when things are working out, so we really appreciate the respondents who shared just that: *"your email frequency is exactly right," "the secretarial is doing a great job," "seems pretty good as-is," "you are doing very well!," "doing great,"* and *"thank you for all you do!"*

Mathilde Luycx
Vice President Social Media
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VP-SocialMedia@spwla.org





Javier Miranda
2022–2024 North America 1
Regional Director

By the time you read my column, a new year will be upon us. With it, there will be hope for so many of our members to achieve personal and professional goals. I recommend establishing reachable goals and modifying them to grow from there. Some others would think, “go big or go home.” However, I think it is better to establish achievable objectives and commit 100% while sticking to your work plan unless something catastrophic requires adjustments. Speaking of plans, we continue our preparation for the most important event of the year in our professional society: **The Annual Symposium**. I am pleased to announce that our Organizing Committee now has all the positions filled with extraordinary professionals who have devoted their time, energy, and commitment to organizing a great conference in 2023 in Lake Conroe. These colleagues represent exactly what I mentioned in my last column and what I feel as an SPWLA volunteer. I am pretty sure it also represents others around our society: **“Volunteers do not necessarily have the time; they have the heart.”**

Our committee is full of volunteers who are passionate about the SPWLA and planning a great conference. We expect a Texas-sized event in Lake Conroe, Texas, with plenty of technical, learning, business, and networking opportunities for all of us! The table below includes their names, affiliations, and positions. I am looking forward to continuing to work with all of you. Of course, additional volunteers are always welcome, especially as we get closer to June. Experience from previous conferences indicates a minimum activity, if any, during the first couple of months of the planning stage. However, that changes dramatically, and energy, time commitment, and stress increase exponentially when we are within a couple of months of the conference date. I want to especially recognize Matt Blyth and Clara Palencia, who have worked tirelessly with Sharon Johnson, SPWLA Executive Director, to prepare the Sponsorship and Exhibition brochures, respectively. I am pleased to announce we have secured sponsors for the three social events during the conference. This is thanks to Matt’s work as well as other colleagues in those companies who have helped to reach out to the right people to have this commitment. Clara and Sharon now have the exhibition layout plans ready, with some booths already taken. I recommend you secure your booth if you plan to attend as an exhibitor. I can share with you that a couple of booths were secured within 2 minutes of our first email with brochures going out, and many more called within the next 24 hours!

At the local and regional levels, I am happy to see more in-person events happening around North America, especially in the Houston area. I encourage you to attend the many technical and networking activities organized by local chapters in your region. The Houston Chapter continues to be strong with recent technical seminars as well as their flagship event, the Technology Show, in December, which had more than 10 companies sponsoring and several attendees. They also organized a highly attended networking event in early October (**Picture 1** below with some international board members, including our current President) at Kirby Ice House. Several local members and current and past international SPWLA presidents were in attendance! We also had a great sold-out golf tournament organized by several members in Houston (**Picture 2**). I am also very pleased to see the north and downtown sides are fully activated now with well-attended seminars at Baker Hughes and Chevron, respectively, with more to come during the spring of this new year. The SPWLA University of Texas at Austin and University of Houston Student Chapters’ leadership are in direct communication with me and have shared their plans for the new year. They will have several activities to support our society in their areas and involve students in SPWLA events. It has been a bit different with other student chapters, which continue to be muted. Please contact me if you are interested in serving there in case officers leave after graduation or move to a different career path.

On a personal note, I am pleased to share that I voted in a US election for the first time in November’s mid-term elections. It has been a while since I voted. The last time was in Venezuela (where I was born, and this does not happen anymore, at least not under fair conditions). I am truly grateful to the United States of America and its people for the opportunity to elect my representatives again. I also attended my fourth Major League Baseball (MLB) World Series in Houston (2017, 2019, 2021, and 2022), supporting our local team. It is the Astros’ fifth time, including 2005! Happy to see them win! (**Picture 3**).

If you have not done so, I invite you to make plans to attend the Annual Symposium at the Margaritaville Resort in Lake Conroe, Texas, on June 10–14, 2023. Please look at our promotional video in the link below if you have not. Elliott, my 14-year-old son, helped me to prepare it:

<https://drive.google.com/file/d/1wm5CnTyvNmXicFaL0YnxfzGgiE5bsg-5/view>

Iulian, Bob, and our Technology Committee have finalized ranking the abstracts and made the final selection for the 2023 Technical Program. By this time, the authors should have already been notified of their acceptance or not. We look forward to a strong Technical Program.

Regional Understandings–North America 1

I continue looking for volunteers to activate the Dallas Chapter. Please contact me if you live in the greater Dallas metro area and are interested in reactivating the chapter. Keep in mind that local chapters are the foundation of our society! Feel free to reach me at my official email address below with any recommendations, ideas, questions, etc.

My best New Year’s wishes to all our members, especially in my North America region. I hope to see many of you during our Annual Symposium in June!

Javier Miranda
 2022–2023 North America Region 1 Regional Director
Director-NA1@spwla.org

Organizing Committee Members	Name	Affiliation
General Chair – Principal contact for SPWLA BOD	Javier Miranda	DeGolyer and MacNaughton
Assistant General Chair	Bend Ruehlicke	Eriksfiord
Sponsorship/Social Functions Chair	Matt Blyth	Schlumberger
Conference Advisor	Luis Quintero	Halliburton
Exhibits Chairperson	Clara Palencia	Intertek
Finance Chairperson	Ronke Olutola	Woodside Energy
Transportation Chairperson (field trips/partner events)	Neal Cameron	Geolog
Fieldtrip Chairperson	Lori Hathon	University of Houston
Partner/Guest Activities Chairperson	Grant Goodyear	Baker Hughes
Printing/Signs Chairperson	Jiaxin Wang	Halliburton
Publicity/Social Media Chairperson	Joshua Bautista-Anguiano	Joshua Bautista-Anguiano
Technical Arrangements Chairperson	Jeff Crawford	Halliburton
Student Poster Chairperson	Artur Posenato Garcia	Chevron
Website /IT Chairperson	Tegwyn Perkins / Julie Perkins	Geoactive Ltd



Picture 1—Houston Chapter Networking event in early October, with some international board members, including our current International President and Houston Chapter President at Kirby Ice House.



Picture 2—SPWLA Golf Tournament in late October with SPWLA members.



Picture 3—Your SPWLA North America Director supporting the local team in our fourth Major League Baseball World Series in Houston (2017, 2019, 2021, and 2022) and the Astros' fifth, including 2005!



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

Dear Petrophysicists and Colleagues,

We have made it through another year. Happy New Year/Feliz Año/Buon Anno/Feliz Ano Novo! Whether you traveled or stayed at home, I sincerely hope that you had a Feliz Navidad, a nice holiday, and enjoyed the school vacation with some quality family time.

Last year, all the chapters in Latin America were pretty active doing online events. Chapters like Argentina, Brasil, and Colombia took the lead early in the year with formation evaluation presentations in conventional, unconventional, and renewable energy. Over the summer, we also had all the student chapters in the Americas participate in a joint workshop on unconventional that was very well attended.

In November, we had in-person, end-of-the-year presentations in Bogota-Colombia with a top-quality networking event after dark (thanks to SLB for sponsoring an excellent event). Also, some of you were lucky enough to go back to physical events, workshops in the region, and even our annual SPWLA symposium in Stavanger 2022. Keep in mind the words that I said over Colombia’s closure meeting doing an echo of ADIPEC 2022, where we have ADNOC’s CEO making powerful statements like, “we should not do oil or gas or geothermal or CCS or solar or nuclear; we should do oil AND gas AND geothermal AND hydrogen AND CCS AND nuclear, etc. What we should be doing is to

Maximize energy with Minimum emissions.”

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.*

As you can see, multibillion-dollar projects are happening. Do you want a few examples? Keep reading...

LATIN AMERICA in 2022: How Are We Doing?

GUYANA – The second phase of the Liza Field development of the Stabroek Block had its first production in February 2022, adding to the already 120,000 BPD already from the first phase. Lots of activity and discoveries are coming from the Exxon-Mobil-operated block. Phases 3 and 4 are likely a go.

SURINAME – It will happen sooner than later that Block 58 will be developed (the block is next to Stabroek). Onshore activity is still ongoing. New license rounds are on the table.

COLOMBIA – Ecopetrol investments have been very well known over recent years. Despite having canceled their good impulse in unconventional, many projects are ongoing as drilling continues in Piedemonte (Floreña and Pauto Fields). Parex Resources announced an oil discovery in the Arauca (Capachos Block) and Casanare (Villanueva Block) in the Llanos Orientales area. Hocol announced in October a natural gas discovery in the Coralino-1 well in the area of Montería in the Ciénaga Formation (an example where the petrophysical interpretation is key in exploration) and is the second discovery in the same week after the Claxon-1 well drilled by Canacol Energy in the La Union area. Canacol also announced the discovery of additional gas reserves by the Canaflecha-2 development well in Cordoba. Meanwhile, 2022 was a very prolific year in terms of gas discoveries like Sinú Block 9 (Brujo 1 and Magico 1 wells) operated by Clean Energy and NG Energy International Corp. Shell in August announced an offshore gas discovery with the deepwater well Gorgon-2. Later on, Ecopetrol was confirmed with Gorgon-2, a big gas province in the Colombian Caribbean.

BRASIL – This country continues to have the highest share in floating platforms (FPSOs) and has a bright future with an estimated additional 14 FPSOs by 2026 (as per Rystad Energy). Last November, CNPC and Petrobras announced an oil discovery in the offshore deepwater Santos Basin with the Gura-1 well. At the time of writing this, the Brazilian ANP has received 18 notifications of finds of hydrocarbons in 2022 (as per BNamericas) by BGM, Eneva, Petrobras, Alvopetro, Shell Brasil, TotalEnergies, and EP with a total of 23 wells (10 by Eneva). Petrobras/TotalEnergies/QatarEnergy/Petronas announced last October that it had made the thickest-ever oil discovery in Brasil history with the deepwater (2,200 m water depth) well in the Sepia ToR surplus block (again, another example where the petrophysical interpretation is key in exploration).

Regional Understandings—Latin America

ARGENTINA – The country famous for its 35,000 km² of Vaca Muerta’s unconventional resources still has around 96% of its territory yet to be developed; only 4% is currently in a massive development phase, and they keep having production records every year. Argentina’s oil and gas resources in its large offshore platform are yet to be explored—about 500,000 km².

MEXICO – PEMEX and the CNH have stated their plans to spud 78 exploratory wells in 2022, involving investments of around USD 800 million. Last year, Fieldwood and PetroBals outlined their plans to move into production mode in their Ichalkil and Pokoch discoveries. PC Carigali Mexico has clearance for its exploration plan in the deepwater concession offshore Veracruz.

...to be continued

One last thing, I invite all Young Professionals to read “The Bridge” in this newsletter. This month is dedicated to that interesting topic called “Data Science!!!”

Many thanks / Muchas 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,

Happy New Year, and may you be blessed with health and happiness in 2023!

We had our second Europe Chapter Presidents’ meeting at the end of last year, and in a lot of chapters, new boards were elected in late 2022. For more details, see the individual Chapter News, but I’d like to dedicate my column for this issue to the new **“Past Presidents.”**

Ian Draper (LPS, London), **Greg Blower** (AFES, Aberdeen), and **Jean-Etienne Jacolin** (SPWLA France, Paris) have fulfilled their roles with great dedication, openness, and creativity, especially when chapter life changed drastically during COVID. Their resourcefulness and continuous commitment to serving our communities in the best possible way are highly appreciated. Receiving their feedback and sharing it with other chapters as well as the International Board has been invaluable and will help keep our society fresh and alive. I have personally learned from their insights, and I hope you’ll join me in saying a big “Thank You” for all their hard work and dedicated service over the last couple of years (or more)!

On this note, if *you* want to get (more) involved with a local chapter or the International Board – or if you’re unsure and want to learn more about a role – just reach out to your local Chapter President, your Regional Director, Tegwyn, or myself. We’re always happy to welcome new members to the leadership team!

All the best,

Eva

2021–2023 Europe Regional Director

Director-Europe@spwla.org

Regional Understandings–Middle East/Africa



Jennifer Duarte
2022–2024
Middle East/Africa
Regional Director

Dear SPWLA Members,

I hope your new year is off to a good start. Most of our chapters in the MEA region are continuing with virtual events. Dubai and Nigeria Chapters hosted their technical events online with our SPWLA 2022–2023 Distinguished Speakers. The Oman Chapter hosted its last online seminar of the year. The SPWLA Saudi Arabia Chapter (SAC) had its 12th Topical Workshop, which was an in-person event at Dhahran in Saudi. Our student chapters in Saudi Arabia participated in a local student paper contest hosted by the SAC. It is encouraging to see the involvement of our next leaders' generation in local events.

In Abu Dhabi, the SPWLA Abu Dhabi Chapter underwent changes, with a new board of directors leading the upcoming activities. I met with the new board during ADIPEC in Abu Dhabi and had the pleasure of being part of a discussion about their upcoming activities for this year. I am sending a warm welcome to the newly elected board of **Omar Al Farisi** (President), **Amr Serry** (VP), and **Nader Gerges** (Technical Officer) and the board committee. I'm pleased to see volunteers stepping up to lead this local chapter. The dedication of committed volunteer leaders is required and appreciated for the success of local activities. Many thanks for your efforts.



(From left to right) Nader Gerges, Amr Serry, Jennifer Duarte, and Omar Al Farisi.

This year, along with our local chapters and members who want to participate in local activities, I intend to keep working to support all the local chapter leaders in MEA. On that note, I would like to reactivate chapters such as the SPWLA Kuwait and SPWLA Lagos Chapters. I've connected with past members, but there doesn't seem to be any interest in starting activities. If you are in these regions and would like to be a part of the SPWLA community, please contact me with any suggestions or questions at Director-me@spwla.org. Best wishes and Happy New Year 2023!

Best Regards,
Jennifer Duarte
SPWLA Middle East and Africa 2022–2024
Director-me@spwla.org

Welcome to.

SPWLA DIVERSITY, EQUITY & INCLUSION



DEAR SPWLA MEMBERS,

Our focus as a committee this month has been on setting the foundations for raising DE&I awareness within SPWLA and its membership. To this effect, we have set up a web presence on SPWLAWorld.org and created a LinkedIn private group and public page.

If you head over to the website you will see that it's a "work in progress" – and likely to be that way for quite sometime not least because DE&I is a vast area that is fluid and constantly changing as we become more aware of the diverse lives that make up our world and workplace.

The website is being developed to be a place where you can gain information to help your business or team to become a more diverse, equitable, and inclusive place to be. With these goals in mind, we have set about creating four main areas; the first of which being "Diversity Definitions," a glossary of terms defining, for instance, the (often very subtle) differences between diversity, equity, equality, and inclusion, together with a full glossary of terms.

In the coming month, we will be focusing on the creation of "Diversity Moments." This will be a slide pack and video clip resource which you could include in presentations to share diversity awareness within your organization.

The webpage is at SPWLAWorld.org.

On a personal note, in November, I was very pleased to attend the International Geomechanics Symposium in Abu Dhabi and was really delighted to meet up in person with Jennifer Duarte, Geoactive, UAE for an impromptu committee meeting. It was great to see Jennifer, especially as it was the first time face to face in almost three years!

I look forward to meeting everyone at the 2023 SPWLA Symposium in Texas, June 10–14. In the meantime, I wish ya'll a very happy and prosperous New Year!

Julie Rowlands,

SPWLA DE&I Chair

What's on?

D&I AWARENESS DAYS

January

Wed 4 - World Braille Day

Sat 7 - Orthodox Christmas

Fri 13 - Lohri Maghi (Sikh)

Sun 15 - World Religion Day

Mon 16 - Blue Monday

Sun 22 - Chinese New Year / Lunar New Year

Fri 27 - Holocaust Memorial Day

February

Wed 1 - LGBT+ History Month

Wed 1 - Imbolc – beginning of spring (Pagan)

Wed 1 - National Girls and Women in Sport Day

Wed 1 - World Interfaith Harmony Week

Wed 1 - World Hijab Day

Thu 2 - Time to Talk Day

Sat 4 - World Cancer Day

Mon 6 - Race Equality Week

Mon 6 - Sexual Abuse & Sexual Violence Week

Mon 20 - World Day of Social Justice

Wed 22 - Lent (Christian)

Fri 24 - Eating Disorder Awareness Week

get involved!

YOUR VOICE IS IMPORTANT TO US

BECOME A DE&I CONTRIBUTOR

We'd like to welcome Kavita Agarwal, Senior Petrophysicist with Petroleum Development Oman into the fold.

Thank you so much Kavita for volunteering your time to become a contributor.

Jennifer, Stephanie, Katerina, and I are passionate about the promotion of diversity, equity, and inclusion within SPWLA. We welcome anyone who'd like to join us in contributing to our efforts to make our service the best it can be for SPWLA members.

Please get in touch with me at DEI@SPWLA.org.

Hi from:


THE DE&I TEAM

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.



Jennifer Duarte
Regional Director Middle East/Africa
Geoactive Ltd
Dubai,
UAE



Stephanie Perry
Vice President Publications
Continental Resources
Houston, TX,
USA



Katerina Yared
Past President
S M Energy
Denver, CO,
USA



Julie Rowlands
DE&I Chair
Noesii Limited
Darowen, Wales,
UK

Join us at SPWLAworld.org.

LinkedIn:

Private group: [SPWLA Diversity, Equity & Inclusion](#)

Public page: [SPWLA Diversity, Equity & Inclusion Awareness](#)

Contact us:

DEI@SPWLA.org

Data Science and Python: An Interview With Luis Enrique Navarro Morales

January 2023

2023 Steering
Committee

Editors

Ishank Gupta

Kanay Jerath

Javier Miranda

Clara Palencia

Senior Editor

Nelson Suarez Arcano

SPWLAYP@SPWLA.ORG



Luis Enrique Navarro Morales

Dear Young Professional, this is the first “The Bridge” of 2023. To start with good dynamic energy, we have a subject that is on the tongue of every geoscientist at the moment, “Data Science and Python.” As we know, this is a rapidly growing field that requires a mastery of both geoscience and data science, a combination that is now highly sought after in our oil and energy industry.

To tell us more about this hot topic, we had the pleasure of speaking with Luis Enrique Navarro Morales, a petroleum engineer from the Universidad Nacional Autónoma de Mexico (UNAM) who specializes himself as a Python developer, data scientist, and machine-learning enthusiast. He was a petroleum engineering consultant for Primera Resources, and he currently works as an international consultant for the OVS Group.

Luis, we have seen many of your advertised Python courses and many of them via international professional chapters. Can you tell us more about it? What exactly is explained, and how can geoscientists today benefit from it?

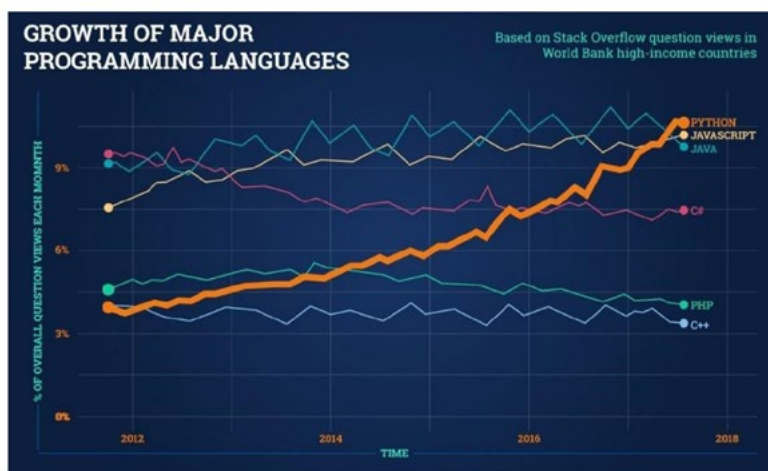
I have given several introductory courses in Python and some of them via other professional societies to introduce students to this high-level programming language, which means the instructions given to the Python kernel or the program to run the code is written in a way that we humans can easily understand, with its relevant characteristics and utilization given in academia and the professional field.

In this edition:

*Data Science and
Python: An Interview
With Luis Enrique
Navarro Morales*

*Crossword
Puzzle*

Haiku

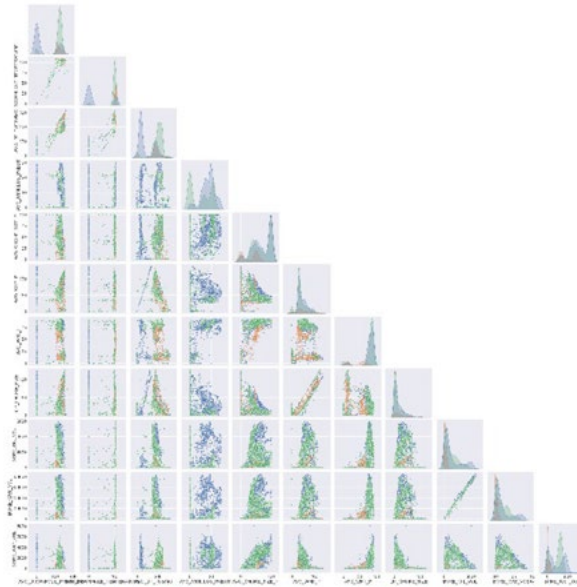


Growth of major programming languages ([Image credit](#)).

This extends from the basic principles of data types, which are the type of input data that can be stored and used while coding, such as strings, integers, lists, and more, to the bit complicated workflow used in the Exploratory Data Analysis (EDA) that focuses on the relationship of variables, the visualization techniques of the data, while developing workflows for more detailed algorithms and model-building techniques, machine learning.

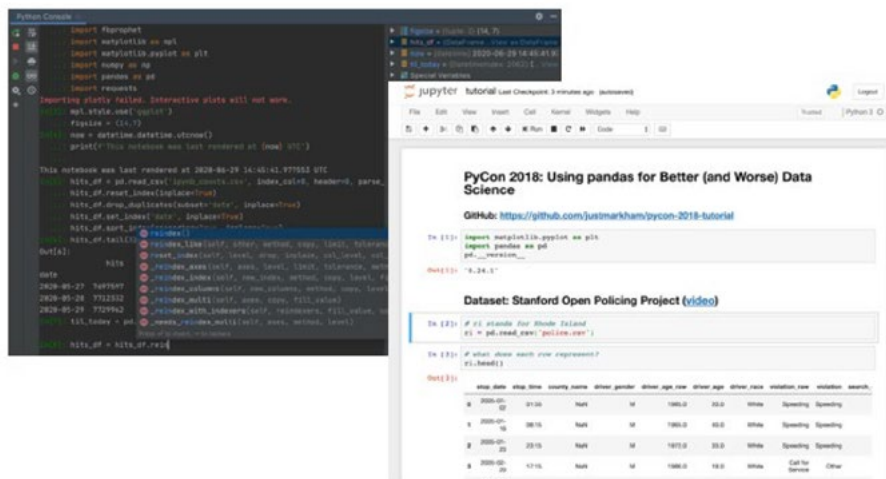
How can we benefit from these types of courses?

The students are shown a very useful principle. In coding, as in cooking, we learn by practicing and testing. The resources available to learn abilities and techniques are multiplying as we speak. People are sharing and supporting knowledge development, and the oil and gas industry does not stay behind. The student can gain insights by applying learnings from different fields of science. Machine learning and data science are primarily used in Finance and IT. The data inputs and information stored in data sets might be different, but the workflows and visualizations still remain.



Pairplot data visualization from Volve production data.

Workflow optimizations is another important topic; reapplying the calculus term, function, into the programming field is important when we are trying to achieve something with a set of parameters and inputs in order to make our code much more simpler and nonrepetitive, arising the need to understand Integrated Development Environment (IDE), also known as the software used to visualize and interpret the code we’re typing—from “script” type coding, the bulk of code without the need to visualize data in between lines given by pycharm or spyder to a more visual and academic way that is the notebook form given by Jupyter lab or notebook.



Pycharm and Jupyter Notebook IDEs.

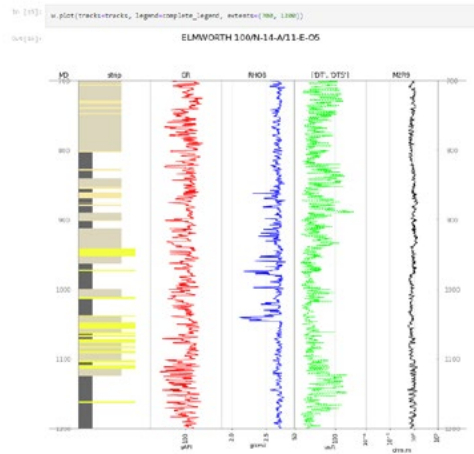
For some of us, what is “open source,” and how is this benefiting petrophysics or log interpretation techniques?

The open-source development of Python aims for the community to build functions, libraries, and workflows collaboratively, allowing the newbie to understand, apply, and learn using existing functions.

For example, we have seen the tutorials from Andy McDonald about welly or lasio to open, plot, and explore indexed well logs, pandas to open and manage data frames with production or economic data contained in Excel or CSV files, BeautifulSoup to open and analyze XML files, and workflows or notebooks developed by users and uploaded to GitHub.

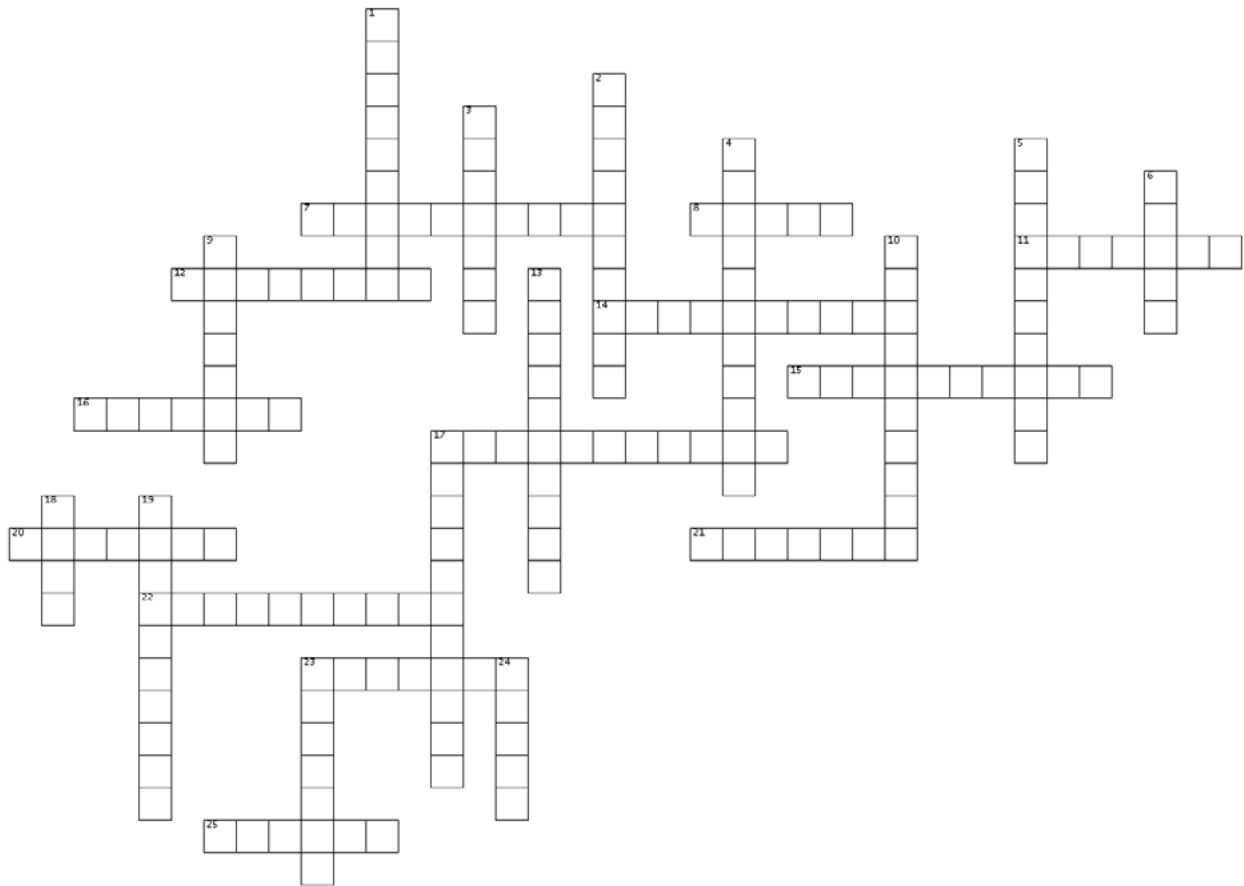
Luis, what is GitHub?

It is a hosting platform by Microsoft to share, collaborate, and store code. The opportunities are immense, and we invite our society members to explore it and have good use of the data like never before!



Welly Python library for well logs.

CROSSWORD PUZZLE



ACROSS

7. The weight of overlying rock
8. Pertaining igneous rocks composed of minerals that are rich in iron and magnesium and typically dark in color
11. Type of fault where the block above moves up relative to the block below
12. The ratio of effective permeability to phase viscosity
14. A chemical additive that reduces interfacial tension between immiscible liquids
15. Pertaining to an environment of deposition in lakes
16. Log-log plot of resistivity and porosity
17. Capillary pressure model using tube-bundle model as the starting assumption
20. An exploration and production play type in which prospects exist below salt layers
21. The trend along which a particular geological feature is likely
22. The sudden release of accumulated stress in the Earth by movement or shaking
23. A wellbore that has not encountered hydrocarbons in economically producible quantities
25. Pertaining to the environment of deposition of sediments by wind

DOWN

1. A fluid-flow regime characterized by chaotic motion as the fluid moves along the pipe or conduit

2. An oil or gas accumulation that has matured to a production plateau or even progressed to a stage of declining production
3. Space between wellbore and casing
4. Vibrating sieve used to remove drilling solids from the mud
5. The coefficient representing goodness of fit
6. A relatively high-standing area formed by the movement of normal faults that dip away from each other
9. An apparatus for cleaning core samples using the distillation extraction method
10. A measure of the geometric complexity of a porous medium
13. The study of fossilized remnants of microscopic entities having organic walls, such as pollen, spores and cysts from algae
17. The pressure and temperature conditions at which the first bubble of gas comes out of solution in oil
18. voids or large pores in a rock that are commonly lined with mineral precipitates
19. A reservoir-drive mechanism where oil is driven through the reservoir by an active aquifer
23. Located down the slope of a dipping plane or surface
24. A very widely used pore pressure equation

Petrophysical Haiku

ORGANIC MATTER CORRECTION,
HOW BIG THE IMPACT IS,
ONLY MATURITY CAN TELL...

Contact us: SPWLAYP@SPWLA.ORG

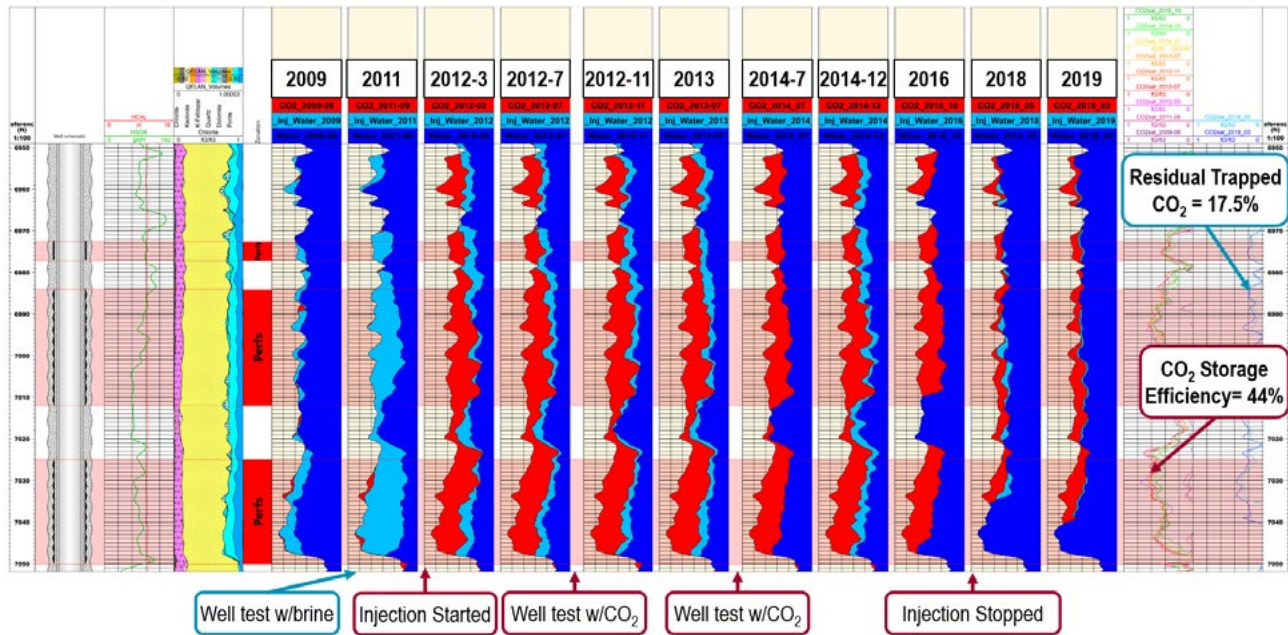
We encourage you to contact us with any suggestions for improving our group and/or if interested in participating in our activities.

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

SEND

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





Petrophysics Energy Transition Special Issue Call for Papers

Dear Colleagues:

We find ourselves in challenging and unique times as the world faces the energy trilemma—racing against time to solve competing problems of energy security, affordability, and carbon neutrality. Petrophysics has a vital and central role to play in the energy transition gaining momentum around us. Whether we speak of storing carbon, mining strategic minerals, or ensuring safe, economic operation of alternative energy sources, it is clear the world will not achieve net-zero by 2050 without our discipline. Among a growing field of topics, the diverse and exciting scope of energy transition petrophysics includes:

- Carbon Capture, Usage, and Storage (CCUS)
 - Evaluation of carbon capture and storage projects
 - CO₂ fluid properties
 - Storage quantification
 - Sealing capacity
 - Reservoir and seal integrity
 - CO₂-brine-matrix interaction
 - Monitoring of carbon capture, usage, and storage projects
 - CO₂ saturation
 - Plume and pressure front migration
 - Well integrity
- Hazardous waste disposal and storage
- Geothermal projects evaluation
 - Fracture modeling
 - Thermal modeling
- Strategic minerals evaluation and mining
 - Unique measurement techniques
 - Measurements of lithium or other rare earth elements (low concentrations)
 - Extraction techniques

Petrophysics Energy Transition Special Issue Call for Papers

To highlight our present and future contributions toward these challenges, the editorial committee of *Petrophysics* is pleased to announce the publication of an “Energy Transition Special Issue” in October 2023. We target approximately 15 diverse, high-quality submissions for consideration in this or in subsequent issues of *Petrophysics*. Authors are invited to submit manuscripts by **March 1, 2023**, via the SPWLA Editorial Manager site: <https://www.editorialmanager.com/spwla/>. Make sure to select “Energy Transition Special Issue” from the drop-down menu for article type when submitting your paper.

We are here to help! Prospective authors are encouraged (but not required) to contact the editorial committee at energytransition@spwla.com for informal feedback prior to producing a full manuscript and submitting to the *Petrophysics* peer-review and acceptance process. The following guidelines should help:

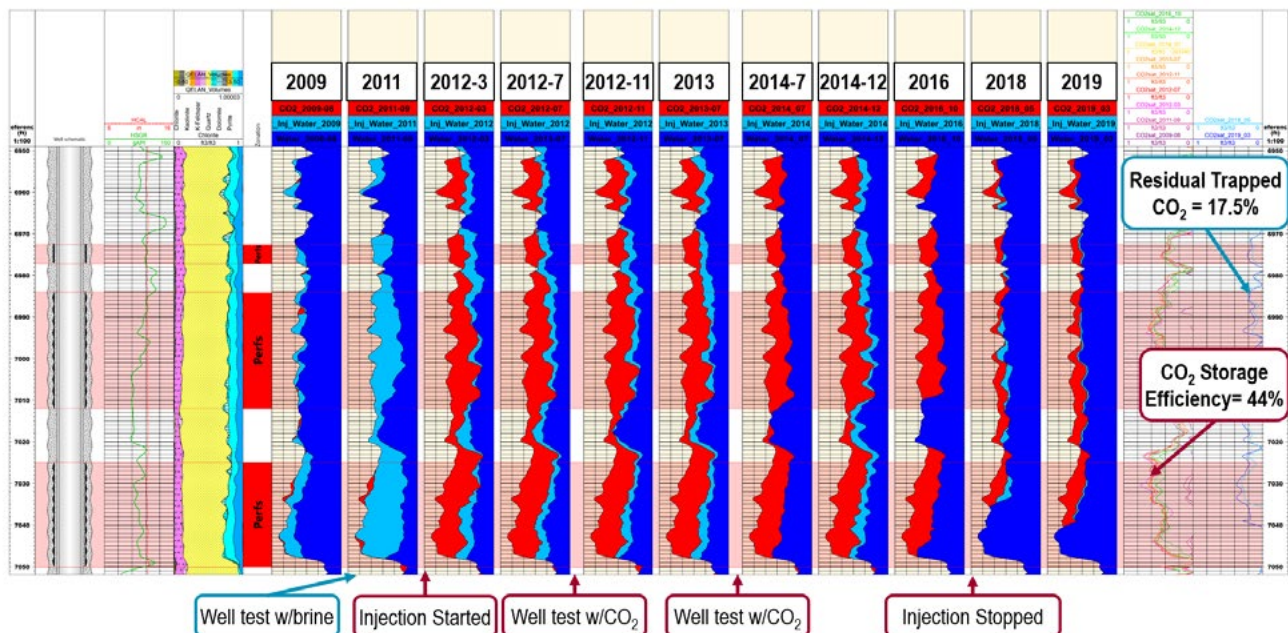
- Previously published conference proceedings and peer-reviewed articles are allowed, either reworked or reprinted. Lake Conroe symposium abstracts are welcome.
- Copyright transfer from the journal must be obtained by the author(s) before submission, except for SPWLA publications where copyright transfer comes from the author(s).
- Original material is, of course, allowed, provided approvals for publication are obtained before submission.
- Please refer to the Instruction for Authors for more information about submission requirements and associated publication fees.

Please feel free to forward or repost this invitation to all interested parties.

Best regards,
Robert Laronga
Lead Associate Editor, Energy Transition for *Petrophysics* journal

Adam Haecker
Associate Editor

Kelly Skuce
Associate Editor



SPWLA FOURTH BOARD OF DIRECTORS MEETING

REMOTE

NOVEMBER 17, 2022

President Tegwyn Perkins called the meeting to order at 8:00 am. 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 N. America 1, Javier Miranda.

Absent, Regional Director Asia Pacific/Australia, Ryan Lafferty.

A motion made by President-Elect Jennifer Market to waive the reading of the minutes from the September BOD meeting was seconded by Regional Director Latin America, Nelson Suarez Arcano. This motion passed by majority vote.

A motion made by Regional Director Middle East/Africa, Jennifer Duarte, to accept the petition letter and Chapter Bylaws for establishing the SPWLA IRAQ Chapter of SPWLA was seconded by Regional Director Latin America, Nelson Suarez Arcano. This motion passed by majority vote.

ACTION ITEM: Regional Director Middle East/Africa, Jennifer Duarte, to send a welcome letter to the newly approved Iraq Chapter leadership.

A motion made by President-Elect Jennifer Market endorsing Cornelius Huiszoon, Nuclear SIG treasurer and authorized agent to conduct business with the State of Texas unclaimed funds department on behalf of the Nuclear SIG, a subordinate of SPWLA, was seconded by Regional Director N. America 1, Javier Miranda. This motion passed by majority vote.

A motion made by President-Elect Jennifer Market to approve the request by the *SPWLA Hydrocarbon Reserves SIG* to rename themselves *SPWLA Hydrocarbon Resources SIG* was seconded by Regional Director Latin America, Nelson Suarez Arcano. This motion passed by majority vote.

A motion made by Vice President Education, Kelly Skuce, to adjourn the meeting at 12:47 pm was seconded by Vice President Information Technology, Harry Xie.

Respectively Submitted by
Sharon Johnson
Executive Director

Next BOD meeting: January 13th in person at the SPWLA Business Office Houston or remote via GoToMeeting.

Chapter News

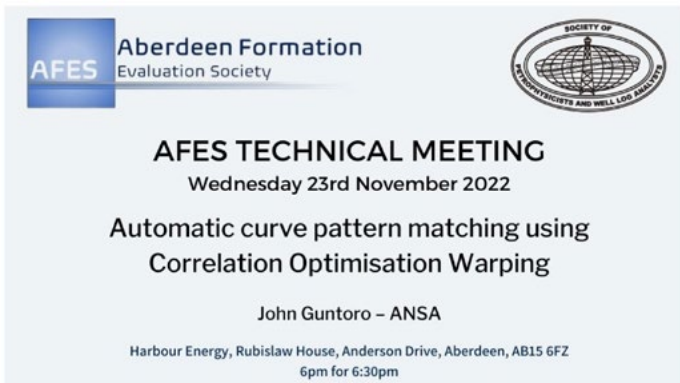
ABERDEEN FORMATION EVALUATION SOCIETY

General News

AFES has events planned and 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.

Recent Events

23 November 2022—Technical Talk: John Guntoro (ANSA Data) – “Automating Curve Pattern Matching Using Correlation Optimisation Warping.” The event was held at Harbour Energy offices, Aberdeen, and was well attended. Many thanks to Harbour Energy for allowing us to present in their conference room.



1 December 2022—AFES Christmas Quiz for Archie Foundation Children’s Charity. At the time of going to print (November 30), we are looking forwards to the much-anticipated AFES Christmas Quiz after a two-year postponement due to the pandemic. We’ve got a full house booked, with first, second, and third prizes, plus the much-coveted wooden spoon prizes for the losing teams. 😊

9 December 2022—Call for Abstracts deadline has closed for DEVEX.



Upcoming Events

11 January 2023—Technical Talk: Scott Jacobsen (No Hidden Pay) – “The Petrophysics of Dielectric Permittivity at LWD Frequencies.”

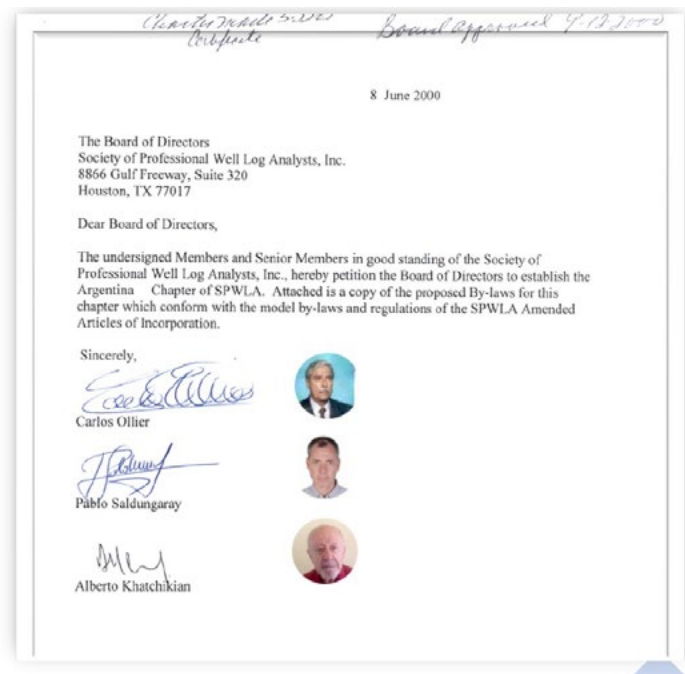
Finally, AFES would like to thank their ongoing sponsors:



ARGENTINE CHAPTER

General News

Our chapter was formed 22 years ago. In June 2000, the SPWLA International Board of Directors was petitioned by our first committee, comprised of Pablo Saldungaray, Carlos Ollier, and Alberto Katchikian, to establish our chapter. We feel so proud and grateful that after 22 years, the followers of “these Masters” continue their legacy.



In 2023, we will start with a new president and a new board. We already have candidates, and we will have the election shortly.

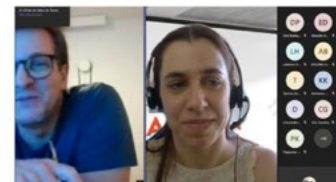
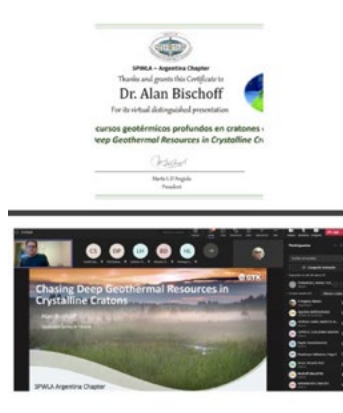
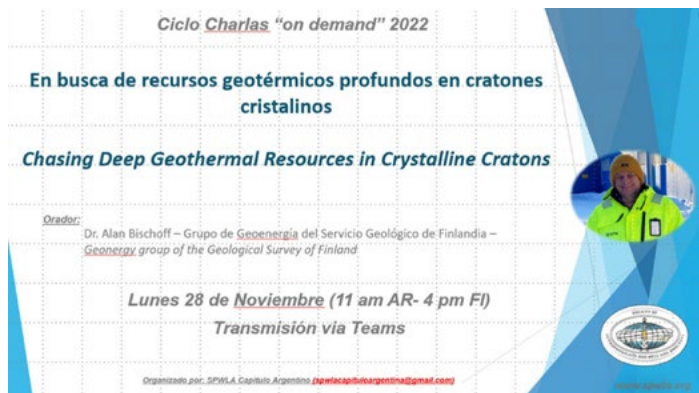
Recent Events

New On Demand Talks Cycle

Chasing Deep Geothermal Resources in Crystalline Cratons

28 November 2022—Who is Alan Bischoff? “I am an energy geoscientist combining experience gathered from multiple disciplines, including seismic reflection, basin analysis, stratigraphy, volcanology, igneous systems, and tectonics, to investigate the potential of geoenergy prospects. I am enthusiastic about exploring geoenergy resources such as geothermal energy and new CO₂ geostorage technologies. I work with the Geonergy group of the Geological Survey

of Finland, mainly developing scientific and commercial projects designed to increase geothermal energy uptake in Nordic countries and globally. Previous expertise includes 5 years working as a petroleum exploration geologist offshore Brazil, gold mining exploration in New Zealand, and over 7 years as an academic researcher with the University of Canterbury, New Zealand. I am currently interested in understanding how the natural porosity and permeability of crystalline rocks can create opportunities for geothermal developments associated with crustal fault zones and ancient and modern igneous systems.”



December 2022—In-person last meeting to close the year and this cycle 2020–2022.

Updates of the First Formation Evaluation School with all the talks we performed this 2020–2022 are complete. The videos are available @ our YouTube channel.

ALTERNATIVE SUBSURFACE/ENERGY TRANSITION (ASET) SIG

The purpose of the SPWLA ASET (Alternative Subsurface/Energy Transition) Special Interest Group 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 non-hydrocarbon 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 to develop/promote industry standards. Membership of the SIG is free – you can sign up at <https://www.spwlaworld.org/aset-sig/>.

In 2023, we will commence a series of one-hour bimonthly webinars where we will give an update on SIG activities and, in each meeting, have two presenters giving a short presentation relevant to the SIG's interest.

The first webinar will be held on January 30, 2023 at 16:00 CET/9 am CST/1 am PST, where we will give a general overview of geothermal and CCS and how established subsurface methodologies from oil and gas can be applied to both. To sign up for the webinar, watch for the announcement from SPWLA that will be coming shortly.

Looking further ahead, we plan to hold a one-day short course immediately prior to the SPWLA Annual Symposium in Conroe – watch the SIG mailing list and *SPWLA Today* for more details.

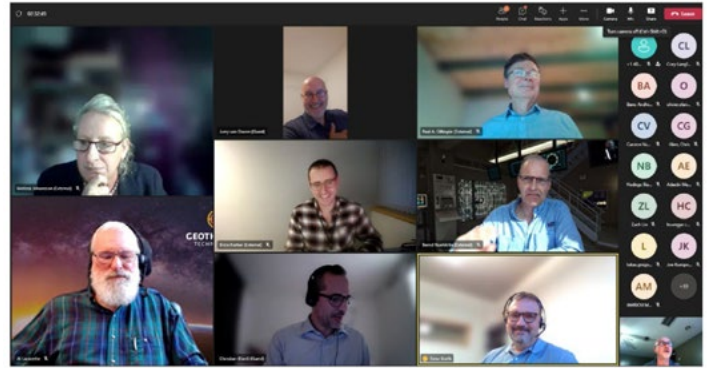
BOREHOLE IMAGING (BHI) SIG

General News

The SIG is constantly gaining new members.

Recent Events

2 November 2022—We had our fall SIG meeting. The meeting was held purely online, which enabled participants from around the world to dial in and contribute to the meeting. In addition to a very interactive discussion about a standard exchange format for dip data, we had great technical presentations from Laura Lima (SLB) and Melissa Johansson (Geode-Energy) about interesting case studies of borehole image log applications. Furthermore, Brice Fortier presented Equinor's approach to standardizing borehole image log deliverables. The meeting was very well attended, and the feedback was very positive.



Upcoming Events

We plan to have our next online SIG meeting early next year and will send out the relevant information ASAP. If you would like to present a topic at the next meeting or would like to contribute in any other way, please let us know, and we will try to get back to you soon.

BRAZIL CHAPTER

General News

Our monthly meetings are being 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

18 October 2022—We had Ana Paula Martins, manager of formation evaluation of Búzios Field (Petrobras), the largest oil field of presalt carbonates and Brazil, gave the talk entitled “Challenges of Petrophysics in Búzios Field.” The talk addressed several petrophysical aspects of the carbonate rocks in the Búzios Field and how they add to the formation evaluation and characterization of reservoirs in this field. As this was the 200th presentation, at the end, the Brazil Chapter raffled the book *Geology in Brazil* to one of the spectators.



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.

29 November 2022—We had Emerson Rodrigues, senior engineer (SLB’s Research and Development team), giving the talk entitled “Use of the Acoustic Wave Slowness in the Cement Evaluation of Wells With Concentric Casings.” This was our last presentation of the year.



201ª Reunião Mensal

Terça-feira, 29 de novembro, 16h - Teams meeting

Uso do slowness das ondas acústicas na avaliação da cimentação em poços com revestimentos concêntricos

Emerson Rodrigues
SLB

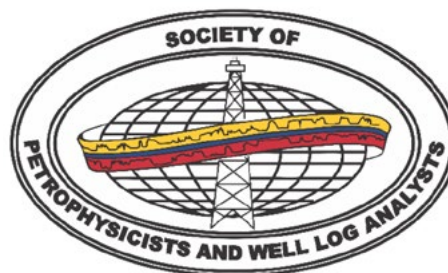


Invitation to November monthly meeting of the SPWLA Brazil Chapter.

Upcoming Events

The SPWLA Brazil Chapter is still putting together the calendar of presentations for 2023, but we already anticipate some changes that we intend to make. We will change the technical presentations to webinars, and we want to create a channel on some streaming platform so that we can make the talks available to be watched after the presentations. With this, we will reach a larger audience, expanding our mission to disseminate petrophysics and formation evaluation in Brazil.

COLOMBIA PROFESSIONAL CHAPTER



Board of Directors


Miembro	Cargo SPWLA COL	Empresa	Linkedin
Maria Florencia Segovia	President	Ecopetrol	https://www.linkedin.com/in/maria-florencia-segovia-64bba933/
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Victoria Mousalli	Vocal2	UIS	https://www.linkedin.com/in/victoria-mousalli-26171655/



Recent Events

13 October 2022—The SPWLA Colombia Professional Chapter held the event entitled “Application of Gas and Oil Subsurface Evaluation Methodology to Geothermal, the Value of Data” by Tom Bradley, senior petrophysical advisor (Baker Hughes), specializing in openhole formation evaluation. The event was held virtually via Zoom.

“APPLICATION OF GAS AND OIL SUBSURFACE EVALUATION METHODOLOGY TO GEOTHERMAL: THE VALUE OF DATA”



Tom Bradley


Senior Petrophysical Advisor with Baker Hughes, specializing in open hole formation evaluation. He is involved with the development of geothermal energy in the Netherlands and Europe.

October 13th, 2022
12:00PM (GMT-5)

FREE EVENT

zoom

ORGANIZED BY:



in @ f SPWLA COLOMBIA



The closing event of 2022, entitled “EOR – Formation Evaluation Solutions,” was organized by the SPWLA Colombia Professional Chapter and sponsored by #SLB was a great success, where talks with high quality and extensive knowledge in EOR processes and petrophysical terms were carried out. The event started with some opening words from our admired President Maria Florencia Segovia, and then the talks were carried out as follows:

- “Oil and Water Displacement Under CO₂ and High-Temperature Regimes,” given by Ulises Bustos (SLB) and Vice-President of SPWLA Colombia.
- “Casedhole Formation Evaluation Applications for EOR Monitoring,” given by David Chace (Baker Hughes).
- “EOR Sweep Efficiency Measurements With Log-Inject-Log and Partitionable Tracers Tests,” given by Silvio Pedro Figliuolo (Ecopetrol).
- “Petrophysical Modeling in Enhanced Recovery Projects,” given by Aristobulo Bejarano (UIS).
- “Numerical Simulation of the Effect of the Trapped Gas Phenomenon on a Nitrogen Assisted Steam Injection Process,” by Javier Guerrero Arrieta (TIP).
- “Analysis of the Mineralogical Composition of the Misoa and Mirador Formations and Its Effect on Surfactant Adsorption in Enhanced Oil Recovery,” by Victoria Mousalli (UIS).
- “Study of the Effect of Varying the Water Injection Rate on the Recovery Factor in a Crude Oil Reservoir,” by Ingrid Tatiana Cabrejo (Ecopetrol).
- Closing Remarks by SPWLA Colombia President Maria Florencia Segovia and SPWLA Latin America Regional Director Nelson Suarez Arcano (NSA).



8 September 2022—SPWLA Argentina and SPWLA Colombia Chapters held an event entitled “How Does Formation Evaluation Fit Into the Energy Transition?” The event was broadcast via the Teams platform.

Ciclo Charlas Abiertas 2022
Capítulo Argentino + Capítulo Colombia

How does Formation Evaluation fits into Energy Transition?
¿Cómo encaja la Evaluación Formaciones en la Transición Energética?

Oradores/Speakers:
Andrés Mantilla - Former CEO ICP - Ecopetrol
Robert Laronga - Petrophysics Domain, Principal Geologist, & Unconventional Domain Team Lead at Schlumberger
Laraine Cowell, Technology Fellow for Geoscience and the Energy Transition • Landmark Software & Services
Barbara Hill - Rock Reservoir Lab Domain Champion Western Hemisphere at Schlumberger

Jueves 8 de Septiembre 2022 (15:00 -> 16:30, Hora Arg.)
Transmisión via teams

Organizado por: SPWLA Capítulo Argentino (argentina.chapter@spwla.org) y SPWLA Colombia Capítulo Profesional (colombia.chapter@spwla.org)

SPWLA DISTINGUISHED SPEAKER 2022



The moderators of the event were PhD Maika Gambus and Engineer Luis Chinomes, members of the SPWLA Colombia Professional Chapter. The event concluded with a cocktail party with live music, where geoscience and engineering professionals were able to integrate and expand their social networks.



Upcoming Events

The team is preparing a new event projection for the coming year. In the following link, you can find some of the memories of our events: <https://www.youtube.com/@spwla colombia5994>.

Follow us on social networks:

DUBAI CHAPTER

General News

Dubai Chapter continues with online meetings. 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. You are welcome to ask any questions regarding our chapter.

Recent Events

23 November 2022—The last online meeting of 2022: Arthur Walmsley presented his topic, “Past, Present, and Future Applications of Ultradeep Directional Resistivity Measurements: A Case History From the Norwegian Continental Shelf,” where he explained that his paper presents a case study summarizing the advances in UDAR measurements and inversions over the last decade, a very interesting and detailed presentation with a few questions at the end from the audience.

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.

Upcoming Events

February 2023—The next presentation for 2023 will be held in early February. A flyer and information are posted on the SPWLA Dubai Chapter LinkedIn profile.

FORMATION TESTING SIG

General News

The Formation Testing SIG steering committee continues to hold monthly meetings where we focus on event planning (webinars, annual conference, workshops) and expanding participation in the SIG.

Recent Events

8 December 2022—The webinar series with technical presentations on “Formation Stress Testing Using Formation Testing Tools.” 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

February 2023—The webinar series will continue with the next one in early February 2023. Check the SPWLA main website for abstract details, specific dates, and registration information.

4 May 2023—Return of the annual in-person FT Conference!! With the pandemic weakening, a group of formation testing rebels will hear technical presentations, network, and socialize after a three-year gap. Participate, you can! Come, you must! Enjoy, you will! So, join us in Houston! A call for abstracts has gone out. The abstract submission deadline is **January 20, 2023**. More details on registration will be available soon. If you have questions or would like to be involved, please contact us at formation.testing.sig@spwla.org.

June 2023—Formation Testing Workshop. This event will take place as 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

The SPWLA Houston Chapter hosted the Annual Technology Show on December 9. This is a popular event among SPWLA members in Houston. This year, the Technology Show went beyond software. It included not only software but also recent innovation and technological advancement in different areas, including formation evaluation and data interpretation. The Technology Show was held at the Hyatt Regency Houston Westside. This was a one-day event with several great talks distributed during the day, with plenty of opportunities for networking and seeing the latest technological advances.

We continue with our lunch seminars. Glad to have held more in-person events recently. On October 19, Houston Chapter North Side 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). Thank [Baker Hughes](#) for sponsoring the event. On October 26, Houston Chapter North Side hosted another lunch seminar. Dr. Xiao-Ming Tang presented “Fracture Characterization Combining Borehole Acoustic Reflection Imaging and Geomechanical Analyses.” On November 9, the Houston Chapter of SPWLA Westside hosted a lunch seminar. Mr. Adam Haecker made a presentation titled “CCUS Petrophysics: How Is It Different? How Is It the Same?” at the lunch seminar, followed by a great Q&A session. Moreover, thanks to [GEOLOG International](#) for sponsoring the event.

Another seminar is planned for January 25. We will host a lunch seminar titled “Geopressure and Porosity – Examples From the Chukchi Sea and the National Petroleum Reserve, Alaska,” presented by Mark Herkommer (Qube Tech). Slots are limited for the in-person seminar; please check spwla-houston.org for details and registration.

If you would like 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 in 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 in case 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 using our contacts included below. <https://spwla-houston.org/>

Recent Events

19 October 2022—SPWLA Houston Chapter Lunch Seminar featured a talk on “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). Thank [Baker Hughes](#) for sponsoring the event.

26 October 2022—Houston Chapter North Side hosted another lunch seminar. Dr. Xiao-Ming Tang presented “Fracture Characterization Combining Borehole Acoustic Reflection Imaging and Geomechanical Analyses.”

9 November 2022—The Houston Chapter Westside hosted a lunch seminar. Mr. Adam Haecker made a presentation titled “CCUS Petrophysics: How Is It Different? How Is It the Same?” at the lunch seminar, followed by a great Q&A session. Moreover, thanks to [GEOLOG International](#) for sponsoring the event.

9 December 2022—The annual Technology/Software Show was held as an in-person full-day event at the Hyatt Regency Houston Westside. This event was an opportunity for organizations to exhibit products and services to the formation evaluation community and network in the spirit of the upcoming holidays. A full executive continental breakfast, Texas 1836 style lunch, and an afternoon refreshment were included. A networking event followed right after the meeting at the Black Gold Bar in the hotel lobby, sponsored by CORE Geologic.



Thanks also to other sponsors: AspenTech, Baker Hughes, Eriksfiord, Gaia, GeoSoftware, Geoactive, GEOLOG, Ikon Science, and SLB.

Upcoming Events

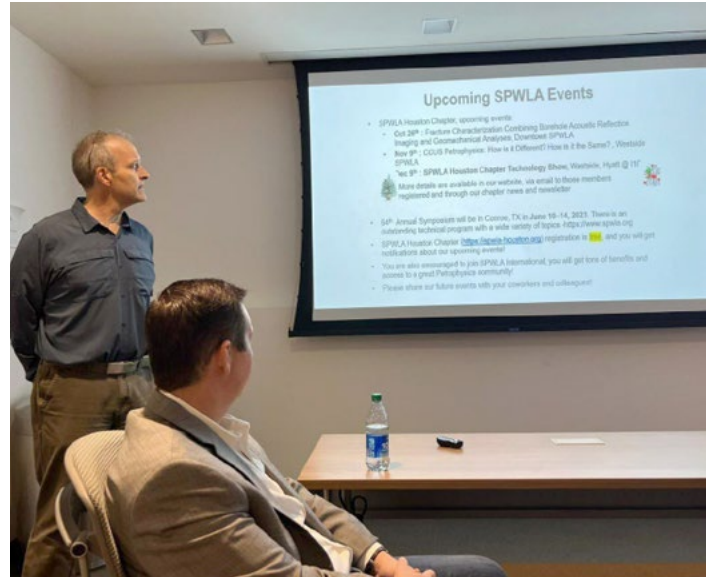
25 January 2023—Lunch Seminar North Side: Wednesday, 11:30 am–1:00 pm. Speaker Mark Herkommer (Qube Tech) will present “Geopressure and Porosity – Examples From the Chukchi Sea and the National Petroleum Reserve, Alaska.” The seminar will not be open for online registration since it is an in-person-only event. Advanced registration is preferred and cut when reaching 30. Please register by Jan. 23, 2023 @ 5 pm to reserve lunch for those attending in person. Registration Link: <https://www.spwla-houston.org/seminar-detail.php?id=54>.



John Bergeron (BP) made a technical talk about ultradeep resistivity tools challenges and applications at the [Baker Hughes](#) facility.



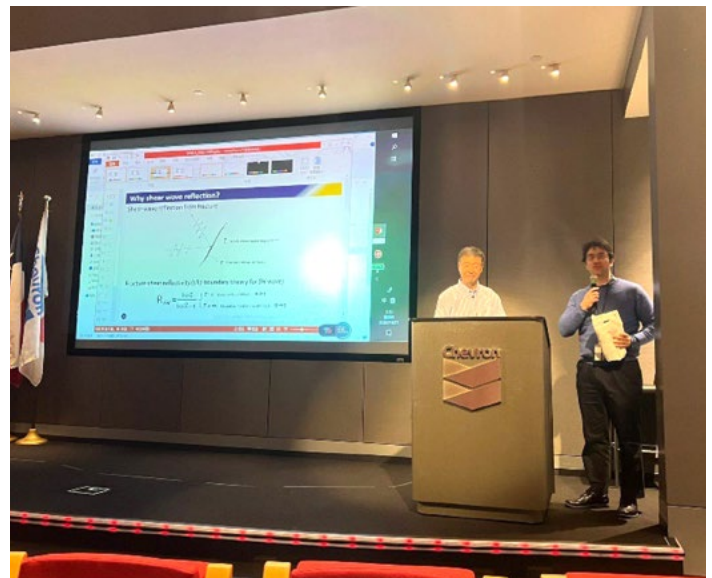
The SPWLA Houston Chapter Vice-President North Side Amer Hanif shakes hands with speaker John Bergeron.



SPWLA Houston Chapter President Bernd Ruehlicke introduces the upcoming SPWLA event in the Houston area.



Adam Haecker (Milestone Carbon) presented an interesting and informed topic at the GEOLOG facility. Adam Haecker also serves as SPWLA VP-Finance.









Dr. XiaoMing Tang made a presentation about fracture characterization at a Chevron facility. SPWLA Houston Chapter Vice-President Downtown Artur Posenato Garcia was the host.



The SPWLA Houston Chapter Vice-President Westside Neil Cameron shakes hands with speaker Adam Haecker.

SPWLA Houston Chapter Board for 2022–2024

 <p>Bernd Ruehlicke – PRESIDENT president@spwla-houston.org</p>	 <p>Amer Hanif – VICE-PRESIDENT NORTH SIDE vpnorthside@spwla-houston.org</p>
 <p>Artur Posenato Garcia – VICE-PRESIDENT DOWNTOWN vpdowntown@spwla-houston.org</p>	 <p>Neal Cameron – VICE-PRESIDENT WESTSIDE vpwestside@spwla-houston.org</p>
 <p>Ronke Olutola – TREASURER treasurer@spwla-houston.org</p>	 <p>Hans Wong – SECRETARY secretary@spwla-houston.org</p>
 <p>QinShan (Shan) Yang – EDITOR editor@spwla-houston.org</p>	 <p>Tianmin Jiang – WEBMASTER webmaster@spwla-houston.org</p>

JAPAN FORMATION EVALUATION SOCIETY

Recent Events

The 27th JFES Symposium



14–15 September 2022—The Japan Formation Evaluation Society (JFES) held its annual symposium as an online meeting instead of the physical-online hybrid that was originally planned due to the restriction posed by COVID-19. Thanks to all participants, in total 109 people, for making the symposium a great success! Many thanks to all the speakers who gave their time to presenting interesting and diverse topics. We had a special session, “Geothermal,” with a keynote speech and eight invited talks followed by a lively discussion. JFES hereby announces with honor that we have chosen awardees for this year’s symposium as below. The testimonial will be given to the awardees at the 2023 JFES Symposium. Student awards will be presented at the coming Chapter Meeting separately.

STUDENT AWARD

SPWLA President Award

-L- Gas Channels and Chimneys Detection Using 3D Seismic Data and Convolutional Neural Networks (CNNs)

Ahmad Bahaa Ahmad (Kyushu University), Amir Ismail (Helwan University), Tarek Samir Imam (Kyushu University), and Takeshi Tsuji (Tokyo University)

JFES President Award

-J- Seismic P Wave Reflectivity Imaging of the 3D Shallow Lithological Boundaries by Active Mine Blast Signal Autocorrelation Analysis Based on Seismic Interferometry

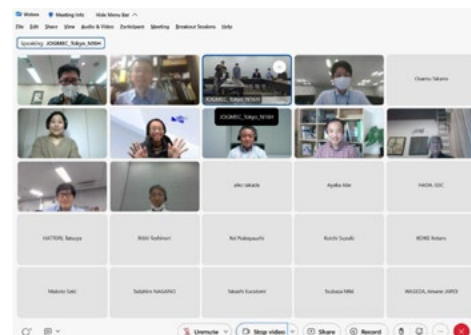
Tarek Imam, Tatsunori Ikeda (Kyushu University), Takeshi Tsuji (Tokyo University), Jiro Uesugi, Takeshi Nakamura, and Yoshinori Okuae (Sumitomo Metal Mining)

Best Presentation Award

-B- Integrated Fracture Analysis With Borehole Geology, Acoustic, and Geomechanics for Flow Zone Identification: Case Study From Volcanic Geothermal Well in Japan

Chiaki Morelli, Yuki Maehara, Hong Tian, Chang Wei Qu, Somenath Kar (SLB), Masami Ikeya, and Masanori Okamoto (Idemitsu Kosan)

The 119th Chapter Meeting



1 December 2022—The 119th Chapter Meeting was held as a hybrid event. It featured two technical presentations, followed by a hot discussion with the audience (50 registrants).

Presentation1

“The Latest Genetic Model and Importance of Microbial Activity at the Initial Formation Process of Seafloor Hydrothermal Deposit Revealed by Drilling Cruises,” presented by Tatsuo Nozaki (JAMSTEC)

Presentation2

“Long-Awaited Core-Log Integration Experiment for Future Mantle Drilling Challenge,” presented by Moe Kyaw (JAMSTEC)

Upcoming Events

March 2023—The 120th Chapter Meeting

LONDON PETROPHYSICAL SOCIETY (LPS)

Recent Events

17 November 2022—The LPS held our Annual General Meeting, which was well attended. Many thanks to all the members who turned up and voted. They were then enlightened by a talk from Timothy Tarver, chairman and founder (Exceed GeoEnergy), on “The Future of Geothermal Energy at Scale.”

8 December 2022—The LPS also held an in-person seminar at the Geological Society. Over a full day, nine speakers covered a range of talks around the “Principles and Applications of Acoustic Logging.” As always, each talk was followed by plenty of questions and further discussion. Afterward, those present were invited to attend the President’s Evening at the King’s Head public house.

Upcoming Events

The LPS has a full program planned for 2023, starting in February, with two events:

14 and 23 February 2023—February 14 will be an online evening talk, and on February 23, there will be an online “New Technology Day.” The majority of events in 2023 will be in person at the Geological Society, and the seminars will be hybrid, with the option to join remotely.

NMR SIG

- We at the SPWLA NMR SIG are excited about our progress on multiple fronts in 2022!
- Our recent primary focus has been the successful October 6–7, 2022, in-person NMR SIG workshop. We welcomed over 60 people (shown below) into the event, which was expertly hosted by Halliburton. Thanks go to the HAL team and to our gracious sponsors of *Green Imaging Technologies, SLB, Halliburton, and Core Lab*.
 - Special appreciation goes to Ron Bonnie and Ron Balliet, our fearless workshop organizing committee leaders!
- Another amazing success this year was the publication of the June 2022 *Petrophysics* entire volume devoted to NMR (with 11 peer-reviewed articles!).
 - Credit goes to Philip Singer as the guest editor, and we appreciate Songhua Chen and the SPWLA for their great support.
 - If you have not checked it out, please do so online, or better yet, find a colleague with a beautiful hard copy of the special issue. It is sure to be a reference for decades to come.
- We have three other initiatives which are “in progress”:
 - NMR standards definitions
 - Educational webinar series
 - 2023 Annual Symposium Special Organized Session on “**NMR for the Next Frontiers: Machine Learning, High Field, and New Logging Applications**”
- Finally, we want to thank our leaders and volunteers who have helped make all of this happen, as listed below:
 - **Executive Committee:** Nate Bachman-President, Philip Singer, Jinhong Chen, Harry Xie, Tianmin Jiang (Treasurer), Abraham Simanjuntak (Secretary), Radu Coman, Ron Bonnie, and Ron Balliet
 - **Workshop Organizing Committee:** Ron Bonnie and Ron Balliet (co-leaders), Boqin Sun, Matthias Appel, Zoya Heidari, Jesus Salazar, Mike Dick, Mike Myers, Lori Hathon, and James Howard
- If you’d like to volunteer along with our fun team, please contact us at nmr@spwla.org.
- See you in Lake Conroe, Texas, for the annual symposium, if not before!



PDDA SIG

SPWLA PDDA SIG Board of Directors recently gathered to organize upcoming activities and discuss the annual machine-learning competition. These were both face-to-face and virtual meetings, as you could expect from these days, as shown in the screenshot below. They exchanged ideas to bring new initiatives to our SIG members. Our SIG has a new board as follows:

- Chairman: **Hyungjoo Lee** (sureofcourse@gmail.com)
- Vice Chairman: **Lei Fu** (lei.fu@aramcoamericas.com)
- Chief Event Organizer: **Wen Pan** (wenpan@utexas.edu)
- Secretary/Accountant: **Jaehyuk Lee** (Jaehyuk.Lee@bakerhughes.com)
- Advisors: **Michael Ashby** (ashby149@aol.com), **Yanxiang Yu** (yanxiang.yu@gmail.com), and **Andy McDonald** (andrew.mcdonald@lr.org)

SPWLA PDDA SIG also would like to take a moment to thank and honor our outgoing board members. You have made a difference through your dedication and continued support of SPWLA PDDA activities: **Chicheng Xu, Siddharth Misra, Weichang Li, Brendon Hall, Yan Xu, and Oghenekaro Osogba**

We started working for our members on several fronts with a very dynamic team that is poised to do our best to bring valuable activities for SPWLA members into the PDDA SIG. We also acknowledge those who participated in the previous annual ML competition as well as those volunteering to serve in our SIG.

COVID-19 has challenged our industry in many ways, but at the same time, it has triggered several opportunities and new forms to interact and reach out to you as a society. One example is now we can reach out to more members and offer abundant free learning opportunities as a professional society. We are planning to host virtual seminars as well.

Recent Events

SPWLA PDDA SIG Board Meetings

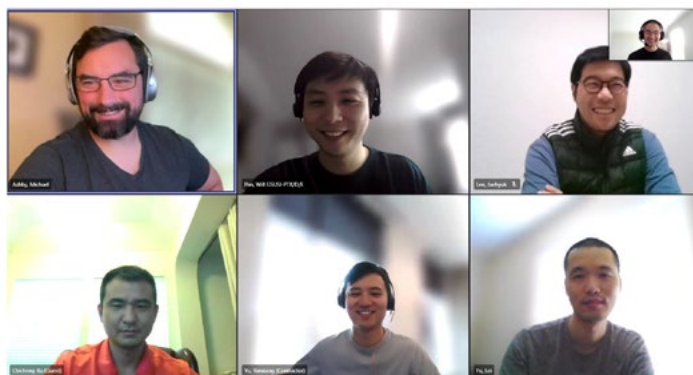
The SPWLA PDDA SIG continues preparing the annual machine-learning competition. Recently, we organized several board committee meetings. The events were a success in discussing ideas and challenges that the petrophysics community has faced with well-log data! A significant group of board members gathered to enjoy a beautiful afternoon with drinks and food on October 21 at Chuy’s.

Interesting events are coming in Spring 2023! Stay tuned! We will announce them when we are allowed to, and we are bringing great activities for our SPWLA community and beyond!

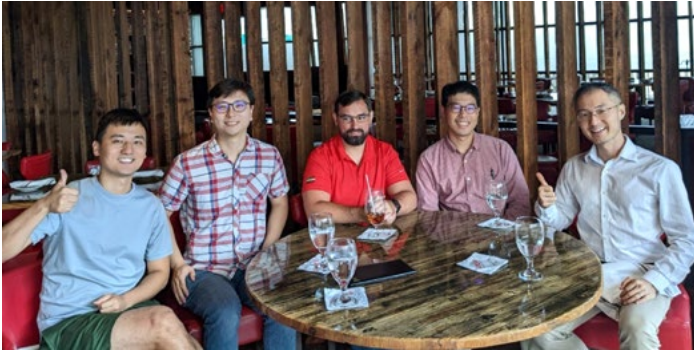
Additionally, there are multiple interesting sponsorship opportunities. Contact our board in case you have a presentation you would like to share. Please stay tuned and check us out for upcoming news! As always, feel free to contact any of the board members if you have any questions or comments using our contacts included below.



More details are available on the PDDA SIG website: https://www.spwla.org/SPWLA/Chapters_SIGs/SIGs/PDDA/PDDA.aspx and the PDDA SIG LinkedIn profile <https://www.linkedin.com/groups/13605420>



Recent PDDA SIG board meeting. (Top left to clockwise) Michael Ashby, Wen Pan, Jaehyuk Lee, Hyungjoo Lee, Lei Fu, Yanxiang Yu, and Chicheng Xu



PDDA SIG board members enjoying great weather, food, and, most importantly, each other through face-to-face interactions.

SAUDI ARABIA CHAPTER

Recent Events

27 September 2022—The SPWLA SAC held its first in-person lunch and learn event since the pandemic. Diogo Salim, (Schlumberger, now SLB) reservoir mapping integration group manager for SLB Well Construction, gave a talk titled “3D Reservoir Characterization While-Drilling by Integrating Seismic Attributes and UDAR Real-Time Inversions Enabled by HPC Cloud Solution.” In the presentation, Diogo described a methodology to improve the 3D mapping of reservoir geometry and properties surrounding high-angle wells while drilling. The novel procedure first focuses on structural delineation derived from seismic attributes during the job preparation. Then, it uses advanced resistivity inversions from LWD ultradeep azimuthal resistivity (UDAR) tool to provide 3D mapping of the structure and fluid distribution while drilling, enabled by the use of high-performance computing (HPC) on the cloud. Finally, it integrates the previous steps to build a 3D reservoir understanding, tens of feet away from the wellbore, combining the subsurface measurements and inversions from borehole level up to seismic scale. Two case studies were presented to illustrate the technique. The talk was well attended, and all participants rejoiced to meet in person again.



17 November 2022—The SPWLA Saudi Arabia Chapter gathered to celebrate its five-year anniversary since it became officially affiliated with the SPWLA. As a celebration, each of the sponsor organizations of the chapter presented one paper that was written in the last 5 years by an author who was working in KSA at the time of writing. The papers had been selected by an online vote by the chapter members prior to the event. Ahmed Abouzaid (Baker Hughes) presented rock typing with NMR; Yiteng Li (KAUST) presented his work on the effect of surface roughness on NMR response; Amjed Hassan (KFUPM) presented a method to reduce capillary forces in tight reservoirs by using thermochemical fluids; Mohamed Fouda (Halliburton) presented how 3D anisotropy analysis helps with lithology identification for well-placement optimization; Salahaldeen Almasmoom (Saudi Aramco) presented a paper jointly coauthored with SLB about how an OBM LWD imager supported optimal well placement in unconventional resources; and finally, Yahia Eltaher (Saudi Aramco) presented a method to enhance reservoir saturation monitoring in the presence of variable oil density. The event was closed with best wishes from the Chapter President Faisal Alenezi (Saudi Aramco), Saudi Aramco general supervisor Abdullatif Alomair, and SLB KSA sales and marketing manager Guillaume Verhaeghe. Lunch was served by the seaside. The chapter thanks SLB for sponsoring this event and is looking forward to the 10-year celebration!



Upcoming Events

- SPWLA SAC YP event
- SPWLA SAC Student Paper Contest
- SPWLA SAC 12th workshop on Shaly Formation Petrophysics and Thin-Bed Analysis

TULSA CHAPTER

General News

The current chapter officers have offered to continue for the 2022–23 season while the chapter sorts out its future.

- President: James Howard
- Secretary/Treasurer: Patrick Ryan

Recent Events

30 November 2022—The chapter collaborated with the Department of Geosciences at the University of Tulsa to hold a joint meeting as part of their lunchtime colloquium series. James Howard presented a talk on “Shale Pore Geometry: NMR and its Role in Shale Characterization” to a decent-sized crowd of geoscience students, faculty, and SPWLA members.

Upcoming Events

The November meeting with TU was a positive experience. Plans are underway to hold one or two joint meetings during the spring semester. We are also exploring the idea of holding an evening study group that would focus on recently published papers of interest to the local petrophysics community.

BATANGAS STATE UNIVERSITY STUDENT CHAPTER

“If there is no struggle, there is no progress” ~Frederick Douglass

General News

The SPWLA Batangas State University Student Chapter prepared three events for their last semester: General Assembly, Career Orientation, and Mental Health Awareness Webinar. There were three meetings held in preparation for each program using the Google Meet platform. The first meeting was on August 20, 2022, that tackled the preparation for the upcoming General Assembly, along with the recruitment of new members for the academic year. The second meeting was spearheaded by the newly elected Vice-President for External Affairs, Mary Jane Diasanta, and Membership Chairperson, Jacob Rubenecia, along with the Secretaries, Alpha Joy Diasanta and Carla Larios, and Chapter

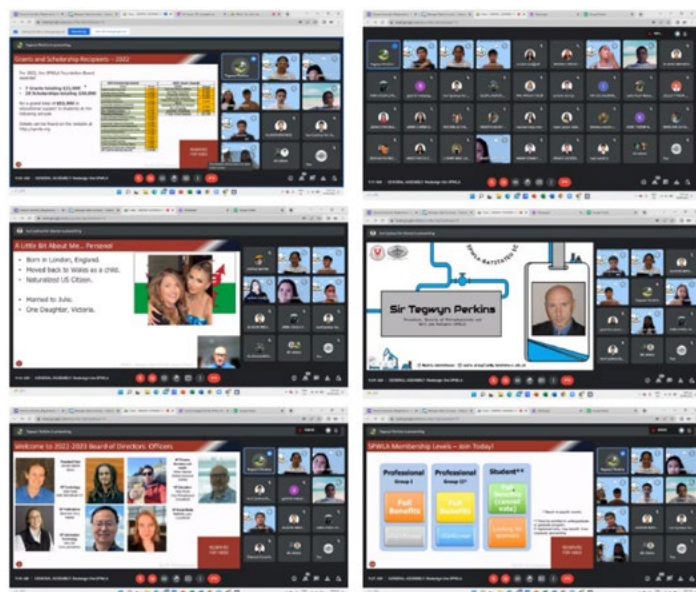
President, Andrea Lorraine Manalo. They consulted about the materials needed for the Career Orientation that was set for October 24. The third meeting was held on October 31 in preparation for the Mental Health Awareness Webinar.

All events were attended by Distinguished Speakers from both local and international communities. As the new semester starts, new events are underway, and more student members are expected to participate.

Recent Events

General Assembly

26 September 2022—The first official event of the SPWLA BatState USC was held. The General Assembly is an annual event that promotes socializing between student members and the newly elected officers. There were two prominent figures invited as guest speakers for the event: Mr. Tegwyn Perkins, the current president of SPWLA International, and the Vice President for Finance, Secretary, and Admin of SPWLA International, Mr. Adam Haecker. The program was well-attended, and there were raffle prizes that made the event more interactive. Mr. Tegwyn tackled the working structure of SPWLA International, as well as the committees and the benefits of the organization. Mr. Adam discussed in a more technical manner involving kerogen, porosity, density, volume, and its effects on logging tools.



The photos were taken during the General Assembly. It was attended by the student members from the SPWLA Batangas State University Student Chapter, as well as Mr. Tegwyn Perkins and Mr. Adam Haecker. The title of the event was “General Assembly: Redesign the SPWLA” with the tagline “We are drilling a multilateral well of connections,” whose main objective was to establish good companionship among the members, officers, and professionals from the SPWLA International.

Career Orientation

24 October 2022—The event was entitled “Career Orientation: Let’s Go? LEGGO!” The theme was “LEGGO: Shaping the Future Beyond Expectations.” This event aims to educate students and give an overview of the knowledge and abilities required to craft their chosen career path under the direction of skilled professionals. During this Career Orientation event, two reliable professionals were invited. Mr. Sharil Mokhtar, general manager (Well Systems and General Solutions). For this career orientation event, he tackled some aspirations like a competent workforce, a data-driven organization, and new ways of working in the oil and gas Industry. The second guest speaker for the event was Engr. Mirasol Nova D. Manalo, research metallurgist (Philsaga Mining Corporation – Mindanao Mineral Processing and Refining Corporation), who shared her experiences during her college life at the University of Philippines Los Baños (UPLB) and some *life hacks* on how to be prepared after graduation.

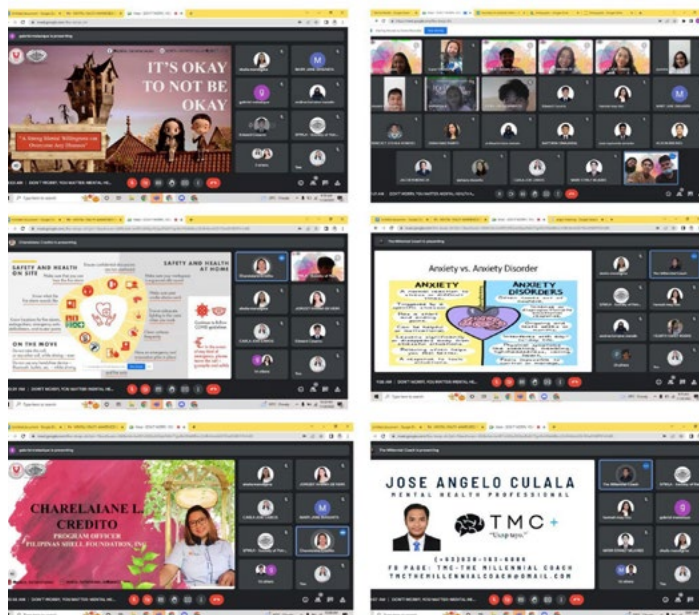


SPWLA Batangas State University Chapter (SPWLA-BastStateU) conducted a Career Orientation event with the theme, “LEGGO: Shaping the Future Beyond Expectations.” The two guest speakers captured the hearts of the students as TS. Sharil Mokhtar tackled some aspirations like a competent workforce, a data-driven organization, and a new way of working in the oil and gas industry. Moreover, Engr. Mirasol Nova D. Manalo shared her experiences during her college life, and she also shared life hacks for the students to be prepared for their careers in the future.

Mental Health Awareness Webinar

24 November 2022—A mental health webinar with the theme “It’s Okay Not to be Okay” was organized with the title “Don’t Worry, You Matter: Mental Health Awareness Webinar.” As the name suggests, the event focused on

the relevant psychological issues occurring in today’s generation. There were two Distinguished Speakers invited: a registered Psychometrician and Mental Health Motivational Speaker and Advocate, Mr. Jose Angelo Culala, and Ms. Charelaiane Credito, a program officer (Pilipinas Shell Foundation Inc). Each presenter talked about the importance of knowing one’s own mental stability and encouraged everyone not to be afraid to seek professional help. A mini-quiz game was prepared for the participants with corresponding prizes for more interaction between the student members.



SPWLA-BastStateU conducted a mental health webinar last November 24, 2022, with the theme “It’s Okay Not to be Okay.” Mr. Jose Angelo Culala and Ms. Charelaiane Credito were the guest speakers who reminded the students that it’s okay not to be okay. This event had a theme, “Don’t Worry, You Matter: Mental Health Awareness Webinar,” that aimed to give a safe-place webinar for the students to address their mental health during the semester.

Upcoming Events Mentorship Program

SPWLA BatStateU SC is dedicated to ensuring that each and every student member is given an opportunity to explore and understand more of their chosen courses. Thus, the mentorship program is designed to promote a variety of course subjects that could help students in pursuing their future career paths. The target period for the program is in March, April, and May. Using three batches per month, with 45 minutes to 1 hour of time per meeting. This will take place in Google Meet.

Job Opportunity Webinar

The preparation for a Job Opportunity Webinar is underway. The main objective of this event is to demonstrate, sharpen, and develop skills, knowledge, and behavior and boost ideas in pursuing preferred professions, which will prepare the members for their life beyond the university grounds. The target date for this webinar would be in the final months of the academic year 2022–2023 before the election of a new set of officers.

Election of Officers

The main thrust of the Election of Officers is to encourage student members to step up and take the initiative to lead their fellow students. This event will determine the future leaders of the organization that would further improve the state of affairs inside the chapter while maintaining good relations with both local and international communities. A short event will be organized with respect to the preceding officers and their contributions during their terms as elected officers.

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
- Renan Camilo

Logistic Members:

- Alexandre Nobre
- Enzo Borges
- Guilherme Lontra

Recent Events

We have been holding biweekly meetings for the 4th Petroleum Geology Week, planned for March 2023, at the Federal University of Rio de Janeiro. We are now looking for the best speakers and workshops to include at the conference. Recently, we contacted some oil and gas companies (PetroRio, Petrec, and Origem Energia) to ask about the possibility of making a technical visit to the company. Also, a member of the chapter had the opportunity to participate in a petrophysical evaluation course provided by Petrec and taught by the SPWLA Brazil Chapter President on October 17–21. It was a great opportunity for the member to gain more knowledge and be able to share that with the rest of the team!



Petrophysical evaluation course provided by Petrec and taught by Lucas Blanes (SPWLA Brazil Chapter President).

Upcoming Events

We have scheduled a technical visit to PetroRio in January 2023. We hope our members enjoy the visit and that they can absorb new things for their professional lives. Finally, now that we are coming to the end of the year, we are evaluating the new presidents and vice presidents of the chapter.

UIS STUDENT CHAPTER



Board of Directors

President: Anngy Daniela Román O.
-Email: presidencia@spwlauiis.com

Vice President: Karen Julieth Rojas O.
-Email: vicepresidencia.spwlauiis@gmail.com

Fiscal: Julian David Anaya F.
-Email: fiscal.spwlauiis@gmail.com

Secretary: Silvia Juliana Franco A.
-Email: secretaria.spwlauiis@gmail.com

Treasurer: Lizeth Vanessa Blanco D.
-Email: contador.spwlauiis@gmail.com

Recent Events

10 and 17 September 2022—Interviews for the 2022 SPWLA UIS Student Chapter were conducted remotely for students belonging to the Universidad Industrial de Santander, via Zoom and with the presence of the chapter's board of directors. This interview was conducted to measure the capabilities and soft skills of each student, a fundamental tool to solve any situation, and then, based on the skills and abilities of each participant, the committee in which they could best perform in the chapter was designated.

24 September 2022—The SPWLA UIS Student Chapter held an integration and welcome activity for new members of the chapter, where various recreational and playful activities were carried out in order to brighten up the atmosphere and get to know our new members much better. One of the main recreational activities was volleyball games, where some of them demonstrated their skills in the sport and had the opportunity to have fun as a group in a healthy way. At the SPWLA, we are concerned about the well-being of our participants, and that is why we emphasize the importance of carrying out these types of activities.



26, 27, and 28 September 2022—“Unconventional Resources, Present and Future” was organized by the SPWLA in conjunction with the USA, Argentina, Colombia, and Brazil Student Chapters, in which they shared with industry professionals about unconventional resources in the Permian, Vaca Muerta, La Luna, and Potiguar Reservoirs. The University of Houston in the USA participated in the topic of characterization and evaluation of formations in shale reservoirs. Also, the speaker MSc. Nuny Rincones shared the topic of a workflow to forecast oil production from shales. On behalf of the Argentina Chapter, MSc. Lucrecia Alvarez presented the perspective of women in the industry, the challenges faced by YPF in terms of gender equity, and the most important projects in the Vaca Muerta basin and offshore exploration. Diego T. Licitra, geologist (UNLP), also participated in the event and gave a review of the Vaca Muerta Formation from a geological perspective. From Colombia, MSc. Diego Mejía Ferrero shared the commitment of Ecopetrol with the communities in the area of influence of the Kalé and Platero pilot projects. Also, PhD Felipe Lozano (Ecopetrol) presented the line of work in 3D seismic and geomechanics.

CONVOCATORIA

SPWLA UIS TEAM

¿Quiénes somos?

Somos un capítulo estudiantil que promueve el conocimiento y la ciencia en áreas de la petrofísica.



21 October 2022—From SPWLA UIS, we were pleased to have the help of engineers Nelson Suárez and Darling Criollo to make the short course “Introduction to Petrophysics” a reality at the UIS University facilities in Colombia and remotely via Zoom, with the participation of a coveted audience, even internationally.

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

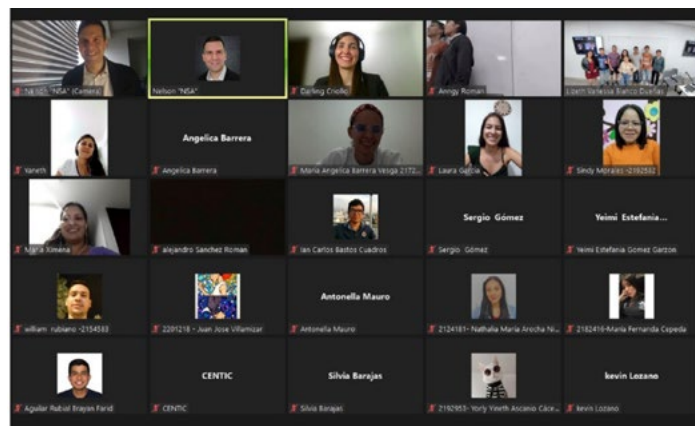
4 Countries Stories

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!



10 December 2022—PETROXMAS, FUNDACIÓN HÉROES Y VALIENTES is a traditional initiative at Christmas, which is done in conjunction with all the student chapters of the UIS oil school. The initiative consists of bringing a beautiful gift to children with cancer and spending an afternoon of recreation with them.



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 is still the most active amongst SPWLA student chapters in Indonesia. The student chapter officers come from across majors, including petroleum, geological, and geophysical engineering students, who are still pursuing a bachelor's degree.

In order to keep up with each other, we usually held the monthly meeting on the second week of the month. Our goal is to improve and develop both hard and soft skills to prepare our members to face their new journeys in life and work. In the year ahead, we will hold many work programs internally and for the public. Please follow us on our social media @spwla.upsc on Instagram!

Recent Events

Trivia

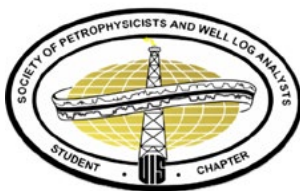
Trivia is basic knowledge sharing on Instagram. It was created by the Education and Training Division in order to help all oil and gas enthusiasts to enrich their basic knowledge, especially on well-log analysis and petrophysics. Our first trivia was all about petrophysics. A brief sneak peek about petrophysics is the petrophysical nature of reservoir rock and the interaction of rock with reservoir fluid. There are eight rock properties of a reservoir that need to be identified to qualify as a good reservoir.

Upcoming Events

January 2023—The language “English Applied to Petroleum Engineering” will be strengthened.

January 2023—Python Course and Office Tools

February 2023—A continuation of the Petrophysics course is being worked on by the advisors.



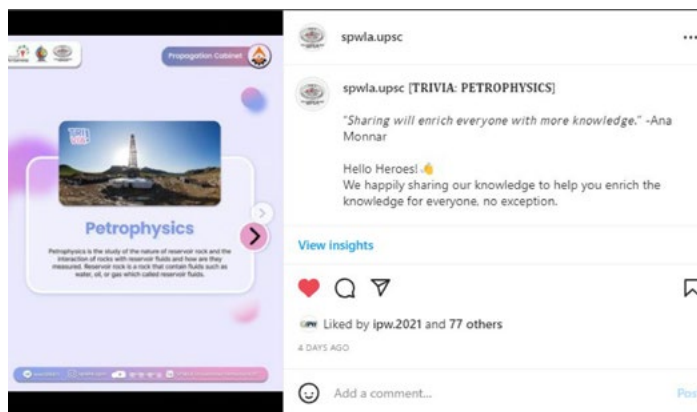
SPWLA UIS/ Social Networks

LinkedIn: <https://www.linkedin.com/company/spwla-uis-student-chapter/>

Instagram: <https://www.instagram.com/spwlauis/?hl=es-la>

YouTube: <https://www.youtube.com/c/SPWLAUIS>

Facebook: <https://es-la.facebook.com/SPWLAUIS/>



The Trivia Series on SPWLA Universitas Pertamina SC.

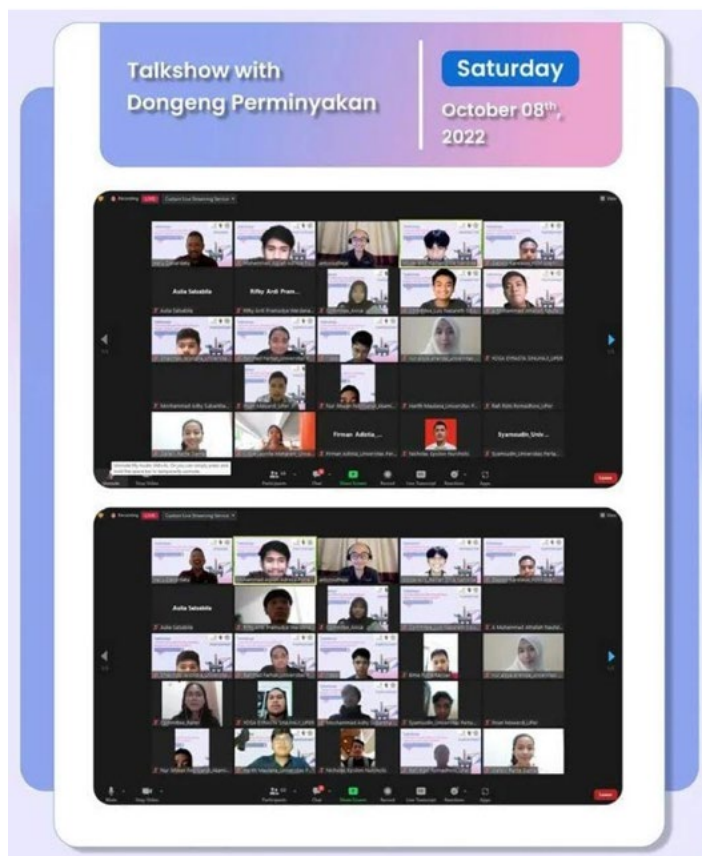
SPWLA Fun Vol.1

5 November 2022—SPWLA Fun Vol.1 was held by our Human Resources Department. The event aimed to make all the officers get to know each other better and create an atmosphere of interconnectedness by getting to know their character. Even though the event was held online, the event was well attended by all the officers.



The SPWLA Fun Vol.1 was successfully held and well attended by the officers.

8 October 2022—The Talkshow talked about **The Future Oil and Gas Industry** based on the experiences of experts in their field. This event was held by Professionalism Department and was well attended by the participants. Even though the event was held online, the enthusiasm from participants was very high because the topic was so fun and discussable, and the speakers were well known.



The Talkshow was well attended by 69 people.

Upcoming Events

January 2023—Our upcoming event in January is an International Petrowell Forum. This is our first international annual forum since 2020. The main events will be a paper competition and an annual symposium. That’s the sneak peek of our IPW 2023. Kindly keep up with us for further information!

UNIVERSITY OF LOUISIANA AT LAFAYETTE STUDENT CHAPTER

General News

New officer elections were held on October 11, with Ali Sajedian elected to the position of President, Vu Nguyen elected to the position of Vice President, Philip Wortman elected to the position of Secretary, Tiffany Lastinger elected to the position of Social Media Chair & Events Coordinator, and Maksym Chuprin retaining the position of Treasurer.

The Chapter Board meeting was held on October 30 to summarize previous work and begin to schedule future events.

Recent Events

21 September 2022—President Cristina Ruse and Vice President Philip Wortman attended the New Orleans Chapter Q3 Board Meeting to identify future collaboration opportunities.

UNIVERSITY OF OKLAHOMA STUDENT CHAPTER

General News

Jason Scharoun has joined the officer team as the chapter's new Secretary.

Recent Events

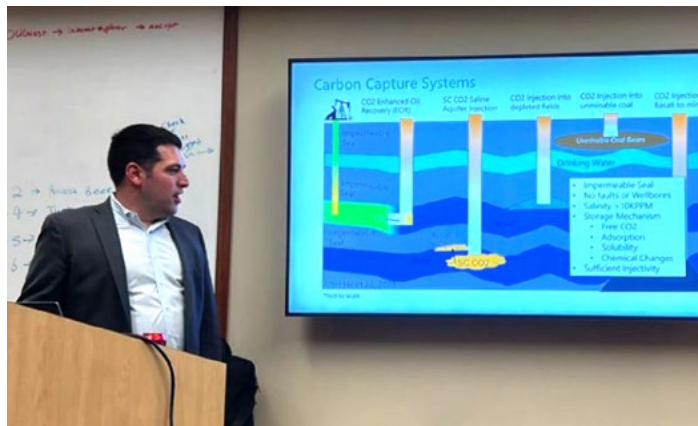
20 October 2022—The chapter hosted a tech talk with Robert Davis (Rock Visualization Technology, LLC) entitled "Early Development of a Novel Formation Imaging Tool in Casedhole Wells." Students learned about a newly developed directional gamma ray logging device and were familiarized with its unique applications within the oil and gas industry.

1 November 2022—The chapter toured the Oklahoma Petroleum Information Center, which houses over 100 miles of collected core samples. Students were given the opportunity to view well logs and core samples and visit a machine shop where core samples are processed as well as the core examination area.



The core storage facilities at OPIC. (From left to right) Blessed Amoah (Vice President), Quan Nguyen, Daniel Ferreira (President), Felipe Cruz, Carlos Arengas (Publicity Chair), and Richard Tarver (OPIC Data and Collections Manager).

9 November 2022—The chapter hosted a tech talk with Adam Haecker (Battelle Memorial Institute) on the topic of carbon sequestration petrophysics. Students learned about the unique challenges of working with carbon dioxide in the reservoir, as well as learning about the role economics and regulatory frameworks play in the process of selecting sites suitable for sequestration.



Adam Haecker spoke about the different types of subsurface carbon sequestration.

18 November 2022—The chapter invited Joe Comisky, senior advising petrophysicist (Devon Energy), to speak during a luncheon on campus. The talk covered a variety of topics, including green energy, general industry trends, and advice for students and graduates just entering the field. The event was exceptionally well attended.



Joe Comisky spoke during the Devon Luncheon event.

THE UNIVERSITY OF TEXAS AT AUSTIN STUDENT CHAPTER

General News

The Student Chapter of SPWLA at UT-Austin started this fall semester by welcoming nine very talented members into the SPWLA community. We have planned a series of technical talks and participation in a number of on-campus events.

Recent Events

17 November 2022—The chapter partnered with the Petroleum Graduate Student Association to host Ibrahim El-Sayed (SLB) for a technical seminar entitled “Reservoir Simulation: How to Trust a Black Box.” The talk was very well attended, and we sincerely thank Ibrahim for sharing his valuable knowledge and expertise with the students.

Upcoming Events

We have planned the following events for the upcoming semesters:

- Technical and nontechnical sessions by industry experts
- A promotional campaign to increase the visibility of SPWLA to students from petroleum engineering and other disciplines
- A series of professional software training for graduate and undergraduate students



Attendees listening to Mr. Ibrahim El-Sayed’s lecture on November 17, 2022.



**Keith Marvin Banks
1932–2022**

Keith Banks, beloved husband of Bonnie Banks of Calgary, AB, passed away on Wednesday, June 15, 2022, at the age of 89 years.

Keith graduated from the University of North Dakota with a BSc degree in electrical engineering in 1957. He was hired while at the University to work for Schlumberger for 7.5 years in Canada. Keith formed and operated three successful companies, two of which still exist. Banks and Hansen Consulting Ltd. was formed in 1964 with a name change in 1968 to K.B. Petroleum and Mining Services Ltd. and Roke Oil Enterprises Ltd., 1966 to present.

Keith was a member of APEGA, a P.Eng since 1964, and an honorable member of the Canadian Well Logging Society (CWLS) and the Society of Petrophysicists and Well Log Analysts (SPWLA). Keith always said that when he formed Roke Oil Enterprises Ltd. in 1966, he retired then to do the things he really wanted to do, which was to manufacture tools and equipment for many geophysical applications. He was able to do this with the many talented employees who worked for Roke through the years.



Carl Henderson Sondergeld 1947–2022

Carl Henderson Sondergeld died peacefully at home on November 9, 2022, after a valiant and courageous battle with cancer. Carl was born November 4, 1947, in Brooklyn, New York, to Carl and Adrienne Sondergeld, who predeceased him. Carl received his BA and MA in geology from Queens College, CUNY and earned his PhD in geophysics from Cornell University. After completing post-doctoral work at the University of Colorado at Boulder, he spent 19 years at the Tulsa Research Center of Amoco Production Company. During his time at Amoco, Carl conducted research in petrophysics and rock physics and made numerous lifelong friends. Carl retired from Amoco in 1999 and began his second career as professor and Curtis Mewbourne Chair at the Mewbourne School of Petroleum and Geological Engineering at the University of Oklahoma. Carl continued to conduct research, publish papers, and teach until the very end of his treatment program.

Mediocrity and doing things halfway were not options for Carl, and he had the same high expectations for his students and daughters. Carl gave everything to those he mentored as long as they made an effort to learn. He was the ultimate champion and role model for his daughters who he supported and loved unconditionally. Throughout his career, Carl traveled extensively experiencing other cultures while teaching and sharing his knowledge. Carl was a voracious reader and loved to discuss his eclectic collection of books with others. He enjoyed working in his vegetable garden, riding his bicycle, and spending time with his grandchildren who brought him much joy.

He is survived by his wife of 53 years, Rose Marie; daughters, Amy Jean Sondergeld (Calvin Joy) and Lindsay Jayne Sondergeld (Daniel de Robles); his precious grandchildren, Emma Grayce and Adam Nikolas de Robles; and his brothers, Mark (Patricia) and Paul (Kemal) Sondergeld and their families.

**The above abridged information was previously published in the *The Norman Transcript*. A more personal tribute from his friend, colleague, and coauthor, Chandra Rai, will appear in the March issue of *SPWLA Today*.*

Welcome New Members – October 20, 2022–December 4, 2022

Archer, Irvin, University of Houston, Baytown, TX, United States

Assous, Said, Weatherford, Loughborough, Leicestershire, United Kingdom

Garcia, Claudia, University of Houston, Houston, TX, United States

Grimaldo, Jose, University of Houston, Houston, TX, United States

Hair, Tyler, ExxonMobil, Spring, TX, United States

Hernandez, Jonathan, University of Houston, Spring, TX, United States

Koseoglu, Cenk, University of Houston, Richmond, TX, United States

Lucado, Jared, Danomics, Spring, TX, United States

Ma, Kunyu, China University of Petroleum, Beijing, Changping District, China

Mehdi Zadeh, Hossein, Equinor, Sandvika, Norway,

Moreno, Rodrigo, HOCOL SA, Bogotá, Cundinamarca, Colombia

Nourani, Meysam, Stratum Reservoir, Stavanger, Norway,

Ogboi, Frederick, Stratagraph Inc, Houston, TX, United States

Randriamalala, Vanessa Marie Mirana, University of Houston, Missouri City, TX, United States

Torres, Norberto, University of Houston, Galena Park, TX, United States

Westbrook, Andre, University of Houston, Houston, TX, United States

CROSSWORD PUZZLE ANSWERS

