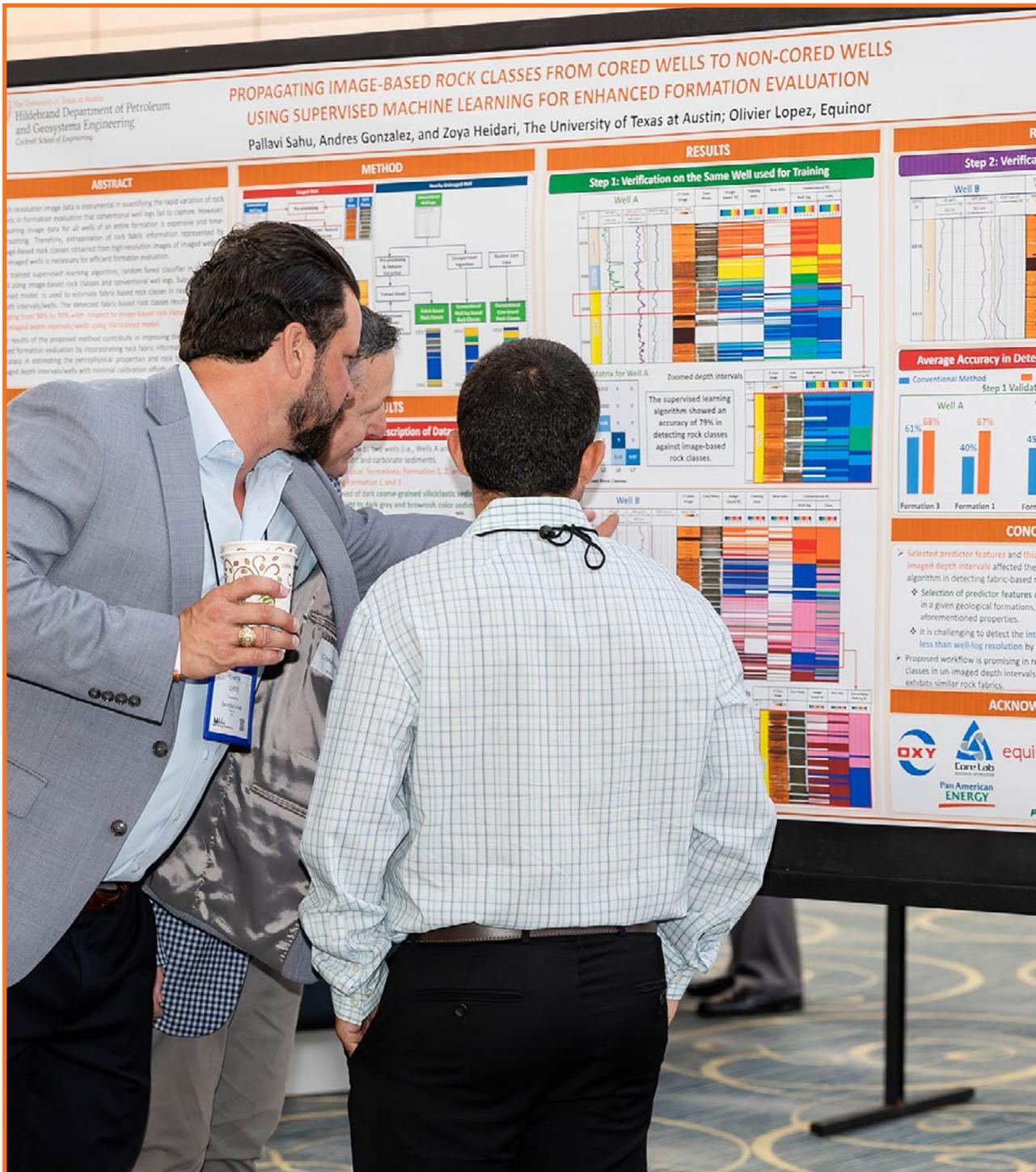


spwla today

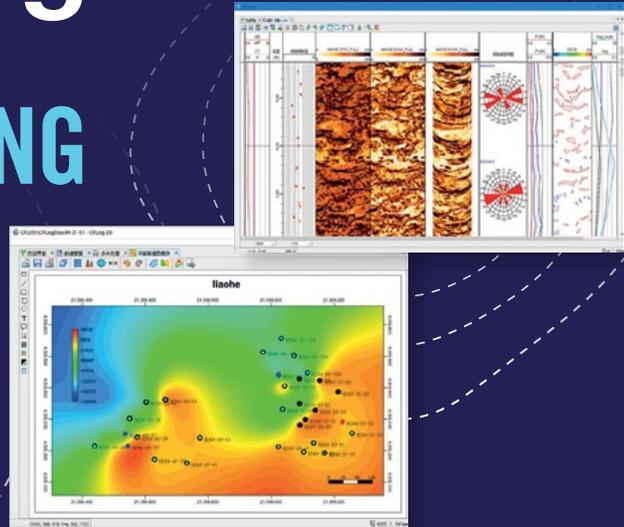


NEWSLETTER



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Board of Directors 2023–2024**



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CALENDAR OF EVENTS

September 11–12, 2023

HAHZ With JFES Workshop
Thinking Sideways to the Far East
Blending in the Near-Field and Far-Field
Reservoir Characterization
JOGMEC-TRC
Chiba, Japan
www.spwla-jfes.org

September 11–13, 2023

*The 14th UPC International Symposium on
New Well-Logging Techniques*
The Development Opportunities and Challenges of
Logging Technology in the Background of
Digital Intelligence
Qingdao, China
www.spwla.org

September 13–14, 2023

The 28th Formation Evaluation Symposium of Japan
JOGMEC-TRC
Chiba, Japan
www.spwla-jfes.org

October 30–November 2, 2023

International Geomechanics Symposium (IGS)
The Role of Geomechanics for Efficient and
Sustainable Energy Supply
Al Khobar, Saudi Arabia
<https://www.igsevent.org/>

May 18–22, 2024

SPWLA 65th Annual Symposium
Sheraton Grand Rio Hotel & Resort
Rio de Janeiro, Brazil
www.spwla.org

About the Cover

Attendees at the SPWLA 64th Annual Symposium, held in Lake Conroe, Texas on June 10–14, peruse one of the many outstanding poster presentations during the event.

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

From the President



Jennifer Market
SPWLA President
2023–2024

Hello and welcome to my first column as SPWLA President, a role in which I am honored to serve. This is the eighth year that it has been my privilege to be on the board, and I am grateful to everyone I have worked with over the years. I would like to start by thanking the previous board, headed by the illustrious **Dr. Tegwyn Perkins**, for his dedication and hard work throughout the year. Tegwyn worked tirelessly throughout his tenure, both as President and in previous positions, to improve the website (including creating a long-desired global calendar, which is easy for all chapters/SIGs to share their events (with the help of European Director **Eva Gerick**), modernize the abstract submission process, organize and update the society bylaws and manuals, make the society ever more diverse and inclusive, including not only helping to found several new chapters and SIGs but also in creating a Diversity and Inclusion Committee to ensure that the SPWLA continues its long tradition of welcome to all. He also has continued past-President **Katerina Yared's** work in connecting to other societies, such as IGS and URTeC, on terms favorable to continue the independence of the SPWLA. He also oversaw the addition of the much-needed VP Technology-Elect role to ensure the smooth flow of the duties from one term to the next and instigated (much

to the joy of the board – particularly those in the Eastern Hemisphere who attend board meetings at night) the use of a consent agenda at board meetings.

Outgoing board members also include **Adam Haecker, VP Finance**, who worked tirelessly to modernize our financial accounting system, update our investment strategy, and find efficiencies to keep the society running for many years to come; **Mathilde Luycx**, our first VP Social Media, whose energy and dedication to the role are much appreciated by the society – you kept us connected, and your passion energized the rest of us!; **Matt Blyth**, North America II Regional Director, who worked to revive flagging chapters, shared many great ideas on how to operate more efficiently, and was a stalwart supporter of our student chapters; **Eva Gerick**, European Regional Director, whose passion for supporting her chapters was unparalleled – she listened to the officers of the local chapters on how to improve the relationship between the local chapters and the international society and instigated award/recognition schemes, regional talks, and generally greatly improved the trust between the chapters and the mother society; **Ryan Lafferty**, Asia Pacific Regional Director worked toward reinvigorating the local chapters after the hiatus suffered in many by COVID.



The 2022–2023 members who were able to attend the annual symposium

I would also like to thank the continuing board **Iulian Hulea**, VP Technology->President Elect, **Kelly Skuce**, VP Education, **Stephanie Perry**, VP Publications, **Harry Xiu**, VP Information Technology-> VP Technology-Elect, **Javier Miranda**, North America I Regional Director, **Nelson (NSA) Suarez**, Latin America Regional Director, and **Jennifer Duarte**, Middle East/Africa Regional Director, and of course, **Sharon Johnson**, Executive Secretary, for their hard work and dedication. I look forward to continuing to work with everyone this year.

From the President

We would also like to welcome new board members **Robert Gales**, VP Technology, **Jing Li**, VP Finance, **Tom Bradley**, VP Information Technology, and **Chelsea Newgord**, VP Social Media. I look forward to what we can do together.

The SPWLA is a great society, made so by the efforts of its many volunteers. For the 2022–2023 season, we had over 400 volunteers who generously gave of their time to serve on the international board, local chapter boards, student chapter board, SIG committees, *Petrophysics* Editorial Board, the Technology Committee, the symposium organizing committee, and in numerous other capacities throughout the year. Thanks to everyone – your service is appreciated.

As I am writing this article, we have just wrapped up the 2023 Annual Symposium in Margaritaville (Lake Conroe, Texas). Despite the heat and humidity, which threatened to melt us all, the event was a resounding success with 5 days of student paper competitions, workshops, field trips, a golf tournament, 127 technical presentations, 20+ exhibitors, three great social events, and over 600 attendees. Thanks to everyone who participated, and for those who weren't able to attend in person, please peruse the papers on OnePetro – there were some stellar contributions this year.



Next year, we are very much looking forward to seeing everyone on 18–23 May 2024 in Rio de Janeiro for our first-ever annual symposium in Brazil.



From the President

We have 11 months to travel the road to Rio, and in that time, we have some goals to continue improving our society, as we have always endeavored to do year after year. This year, our two foremost goals are to work to improve the balance between the chapters/SIGs and the international society and to increase participation in our chapters, SIGs, and particularly student chapters around the world. To pursue these goals, we have already started discussions with the leadership (and membership) to hear what we can do to improve. Some of the initiatives are:

Recognition of local chapter officers and volunteers (this began this year with 387 certificates of appreciation printed and taken home to deliver – please notify president@spwla.org if you are an officer of a professional or student chapter or a SIG or on the Technical Committee or organizing committee for the 2023 symposia or a member of the editorial board and you haven't received your certificate so that we can gather the details to send it).

Organizing more regional events with help from the mother society

Updating all info on the website for all chapters ensuring that the board/officers' information and contact details are current, and improving the method for communicating information for the newsletter

Training all the chapters on how to use the new calendar to update all events

Assisting chapters in finding solutions to financial arrangements – e.g., how to receive and distribute local sponsorship or meeting funds

Assisting in organizing live speakers for the chapters – Distinguished Lecturers and more

Other goals for the season include:

- Continue the work of Presidents Yared and Perkins on joint events with other societies on terms beneficial to the SPWLA
- Champion a public data repository of selected data sets for industry and academia to use in developing applications, training, and new tools
- Work with VP Technology to improve the Best Paper/Poster Distinguished Speaker program even further – announce at closing ceremonies (not the following year)
- Work with business staff to organize historical documents in a manner that can easily be shared/updated from one board to the next
- Organize master easy-to-access documents with chapter/SIG officers, contacts, etc., for current to historical to aid in communications and recognition

Thank you again to the SPWLA family for supporting us. Remember that it is our volunteers who make the society great, and that volunteering is a great way to learn and expand leadership capabilities. Opportunities are available on the SPWLA website (see the “Volunteer Opportunities” tab) or contact president@spwla.org for help in connecting to the right place to participate.

Kind regards,
Jennifer Market
President
+61 455 148 188
president@spwla.org

From the Editor



Stephanie Ellen Perry
2022–2023
Vice President Publications

We hope the mid-year timeframe finds everyone well as you enter the second half of 2023. We want to extend a very sincere thank you to everyone involved in this year's annual symposium in Conroe, Texas. The event was lively and full of technical content and innovative ideas. Of course, it felt fantastic to be together as a discipline community. Within this newsletter, we hope you enjoy reading about the events, technical impressions, as well as the gratitude to all.

We appreciate this forum as a place for open communication and to encourage feedback and additional content. Please consider contributing, and we hope to hear from you! We also hope you enjoy all the content, and thanks to all the leadership who share for our community involvement.

Kindest regards and well wishes,
Stephanie Perry



Iulian Hulea
SPWLA President-Elect
2023–2024

Dear Colleagues,

Greetings from your President-Elect and former VP Technology!

With the SPWLA 64th Annual Symposium just behind us, I wanted to update you on my latest activities. I was very happy to see many of you during the symposium and want to assure those who did not make it to Lake Conroe that the symposium was a success. We ended up with 22 sessions as part of the technical program—most of them parallel sessions. Just like last year, an important part of the program was the special sessions. I was very pleased to see the high level of engagement, especially around those. Concerning those two last things (parallel sessions and special sessions), I would like to hear your thoughts, if possible. Would you like to stick to a comparable program, or do you see the potential for improvement?

Talking about the future, I would like to remind you that I had the privilege to work as co-chair of the SPWLA 63rd Annual Symposium with Carlos Verdin. His work had an instrumental influence on the symposium this year as well. Thank you, Carlos, again! This year, Bob Gales had a similar role.

Thanks, Bob, for your help! Starting now, we have formalized the VP Technology II BOD position that will make sure continuity in VP Technology is ensured. That position will be occupied by Harry Xie. So, here we are: past, present, and the future of the VP Technology!

I would like to mention how grateful I am for the opportunity the society (through its members) has given me to fulfill the VP Technology role. It was such a rewarding experience! Also, thanks to your vote, I will continue on the Board of Directors as President-Elect, and I have not had a chance to thank you for your vote yet. Thank you! I leave the VP Technology in the capable hands of Bob Gales, but I am still around when needed!

The last thing I would like to say is THANK YOU to the hard-working Technical Committee, the group of volunteers that made the VP Technology job easy!

Iulian Hulea
President-Elect 2023–2024



Robert H. (Bob) Gales
2023–2024 VP Technology

Thank you for your support as the 2023–2024 VP Technology. It is an honor to serve the SPWLA membership. I have my work cut out for me to meet the standards set by those before me.

The successful SPWLA 64th Annual Symposium is now in the past, and the 65th Annual Symposium in Rio de Janeiro is just 11 months away. This shortened timeline is important as you will see announcements for abstracts, interest for special sessions, and workshops in the near future.

I would like to commend Javier Miranda and the Houston Symposium Committee for the successful event. Thanks to Halliburton, Baker Hughes, and SLB for the evening social events. From all the posted pictures, everyone had a great time. Thanks to Sharon and Stephanie, who not only welcomed everyone at the registration booth but kept us on track during the year to meet the deadlines.

It has been a pleasure working with Iulian Hulea during the past year, and I look forward to drawing on his knowledge and working with Harry Xie, our first VP Technology-Elect, the Rio Symposium Committee, the board, and Sharon and Stephanie for another successful conference.

Harry and I welcome your suggestions and support of the process. Feel free to contact us with your ideas. A few items that are already on the list:

- 1) Building on the abstract process, especially with the ease of adding figures to make it easier for the authors and the reviewers.
- 2) Clarifying the cutoff times for oral or poster presentations to avoid gaps in the program from those that could not attend due to visa issues.
- 3) Identifying Special Sessions based on your feedback and chairs volunteering to drive abstract submissions for the session. Several were close for 2022. (See Special Sessions listed below. Note that many are oriented toward the Energy Transition.) We are looking if we can have two category selections for abstracts. We will work to fit accepted abstracts into the best group.
- 4) Look at ways to make the SPWLA Symposium app easier to use, especially for “Best Paper of the Day,” by selecting favorites and selecting at the end of the day.

Once again, thank you for your support, especially the Technical Committee, for their hours of reviewing abstracts, presentations, and papers. Harry and I look forward to working with you next year and seeing you in Rio.

Regards,

Robert H. (Bob) Gales
SPWLA VP Technology 2023–2024

2023: Special Sessions

- Petrophysics Beyond Petroleum
- Beyond Picking Dips From Image Logs
- Geological Evaluation While Drilling
- Monitoring and Verification of Containment in CCUS Projects
- Petrophysical Workflow Automation With AI/ML
- NMR for the Next Frontiers: Machine Learning, High Field, and New Logging Applications

Those that did not have enough submitted abstracts:

- The Role of Advanced Borehole Acoustics in a Diverse Energy Industry
- New Landscape of Mud Gas Logging – Geoscience Meets Engineering
- Experimental and Digital Core Analysis Applications in Support of Carbon and Hydrogen Storage Projects



Harry Xie
2023–2024 Vice President
Technology-Elect

Dear colleagues,

Welcome to my first column for the *SPWLA Today* newsletter as the newly elected VP Technology-Elect 2023–2024. Here I would like to express my sincere appreciation for your trust and support in electing me to this very first position in our society. It is an honor that I hold close to my heart, and I am truly grateful for the opportunity to continue to serve our community.

We have all witnessed yet another great symposium at Lake Conroe, Texas, which was attributed to the marvelous management of the SPWLA local organization team, as well as the Technical Committee. The annual symposium is a wonderful opportunity for us to meet each other and exchange technical ideas. As the VP Technology-Elect, I will work closely with Bob to make preparations for our next annual symposium to be held in Rio de Janeiro, Brazil. We will be forming a Technical Committee, setting up themes for the symposium, organizing special technical sessions, and holding technical workshops, all of which need your contributions, your ideas or suggestions, your involvement, and your volunteering because one of the core values of the SPWLA is the dedication to the advancement of petrophysics. We have all benefited from the beloved society

through all types of technical events. We would appreciate your comments.

I look forward to meeting everyone at regional or local chapter meetings, SIG meetings, and our next symposium in Brazil. Thank you again for trusting and supporting me.

Yours sincerely,

Harry Xie

SPWLA VP Technology-Elect 2023–2024

VP-Technology-Elect@spwla.org



Jing Li
2023–2025 VP Finance,
Secretary, and
Administration

I am pleased to be able to reach out to all my fellow colleagues and SPWLA members in my first column as the SPWLA 2023–2025 VP of Finance, Secretary, and Administration. Firstly, I would like to thank everyone who supported my candidacy for the position. Secondly, I would like to express my appreciation to my predecessor, Adam Haecker, for all his efforts in reducing expenses and increasing sources of revenue, to have our books better than 2 years ago and for keeping our finances healthy.

Moving forward, I will continue a vigilant watch over our finances with keen interest and keep the budgets tight. And I would like to continue the focus on education and make an impact while developing the following:

1. Membership growth and recruitment. The international members are the foundation and source of energy for SPWLA. The O&G industry is currently recovering from a downturn, and in turn, creating a supply of many untapped petrophysics professionals and students, presenting us with a unique opportunity to expand our reach, network, and attract new members. By setting up mutually beneficial relationships, we can strengthen our society and contribute to the growth of our profession.
2. Further engage with young professionals' groups, local chapters, and student chapters internationally. Supply a platform and resource for students to enter, learn, and share knowledge and begin growing their professional networks.
3. Ensure the long-term financial health of SPWLA and generate more sources of revenue—for example, sponsorships, advertisements, events, etc. Promote efficiency in spending, and make sure all funds are spent to maximize the benefit for individual members while positively affecting our community.

I hope you will continue to support our various workshops, topical conferences, annual symposium, and other SPWLA initiatives. If you all have any ideas for new sources of revenue for the society, please reach out and share your thoughts. Following the annual symposium, I plan to visit our office to familiarize myself with all financial reports. I look forward to sharing more insights in my next column for Q3.

Thank you for your ongoing support.

Sincerely,

Jing Li
2023–2025 VP Finance, Secretary, and Administration



Tom Bradley
2023–2025 Vice President
Information Technology

Hello Everyone,

Firstly, as the new VP IT joining the board, thank you for electing me, and I'm honored you have given me the opportunity to serve you in this position for the next 2 years. I want to thank all my predecessors for the work they've done prior to me in building the SPWLA's IT presence, including Harry's work over the last 2 years.

I've just returned from the very successful annual symposium in Margaritaville. It was great to catch up with everyone again and see many great papers and posters presented, as well as meet the rest of the board members who could make it in person. So now I'm back in the Netherlands, and my work begins. I'm currently making plans to implement my election position statement. I'll be working closely with the rest of the board and particularly our new VP Social Media, Chelsea Newgord, to make our IT presence the public face of the society.

I have lots of ideas that I'll hopefully be able to implement over my tenure. My first task will be to take stock of the current SPWLA IT estate and decide how we can achieve my ideas. To do this, I'll need help; therefore, I'm in the process of forming the SPWLA IT Committee, and I'm looking for

volunteers to join me. If you think you can help and are keen to play a part in the SPWLA IT infrastructure, please contact me at vp-infotech@spwla.org. In particular, if you have skills in WordPress, PHP, SQL, and general web development, get in contact. Even if you think you don't have IT skills but want to help in other ways, let me know.

Finally, I want to know what you want from the SPWLA's digital presence. What's working, what isn't, what you think can be improved, what you want to see, etc. Again, email me at vp-infotech@spwla.org with your ideas.

Looking forward to serving you over the next 2 years.

Tom Bradley
SPWLA VP IT 2023–2025
vp-infotech@spwla.org



Chelsea Newgord
2023-2025 VP Social Media

Hello colleagues!

I am thankful and excited to be contributing to SPWLA through the role of VP Social Media! Special thanks to Mathilde Luycx for being the very first VP Social Media and setting up a good framework to continue in this role.

The SPWLA 64th Annual Symposium in June was a busy time from a social media perspective! If you followed along #spwla2023, I hope you saw updates on the workshops, social events, technical symposium, International Student Paper Contest #ISPC, awards ceremony, and posts from colleagues! Like and comment on SPWLA posts through your favorite platform!

We use LinkedIn, Instagram, Facebook, and Twitter to share updates. I'll share a brief summary of each of these venues, which covers the busy time of the symposium! #spwla2023

LinkedIn: SPWLA Social Media (which also posts in the SPWLA Group)

Our most popular LinkedIn Social Media account post was Sunday evening's happy hour. The second most discovered post was the first day of Technical Sessions, which included pictures of the symposium Technical Committee, the keynote speaker, and a poster session! Overall, we increased impressions and followers (Fig. 1). We can also view some key demographics, such as company, location, and job title of the viewers (Fig. 2).

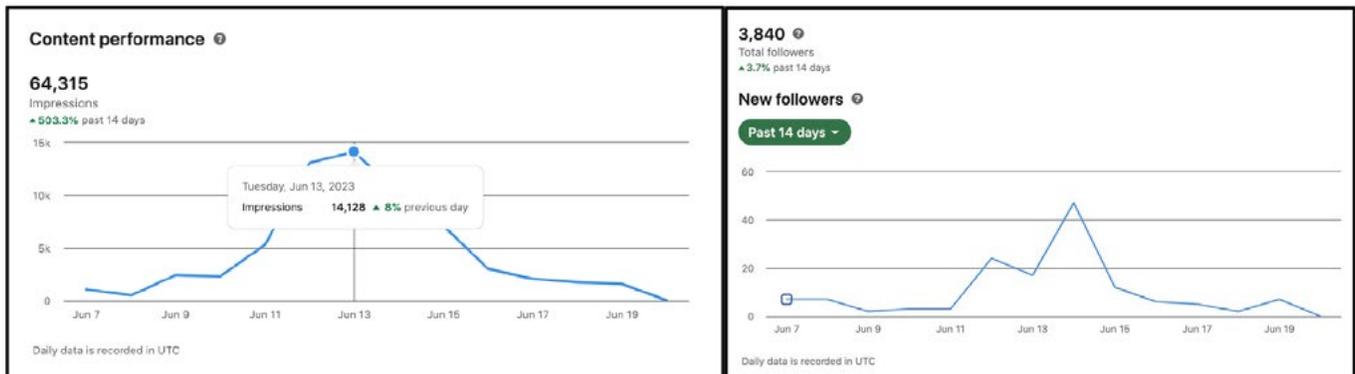


Fig. 1—LinkedIn Analytics displays the number of times (impressions) the account “SPWLA SocialMedia” was discovered and the number of new followers over the time surrounding the annual symposium.

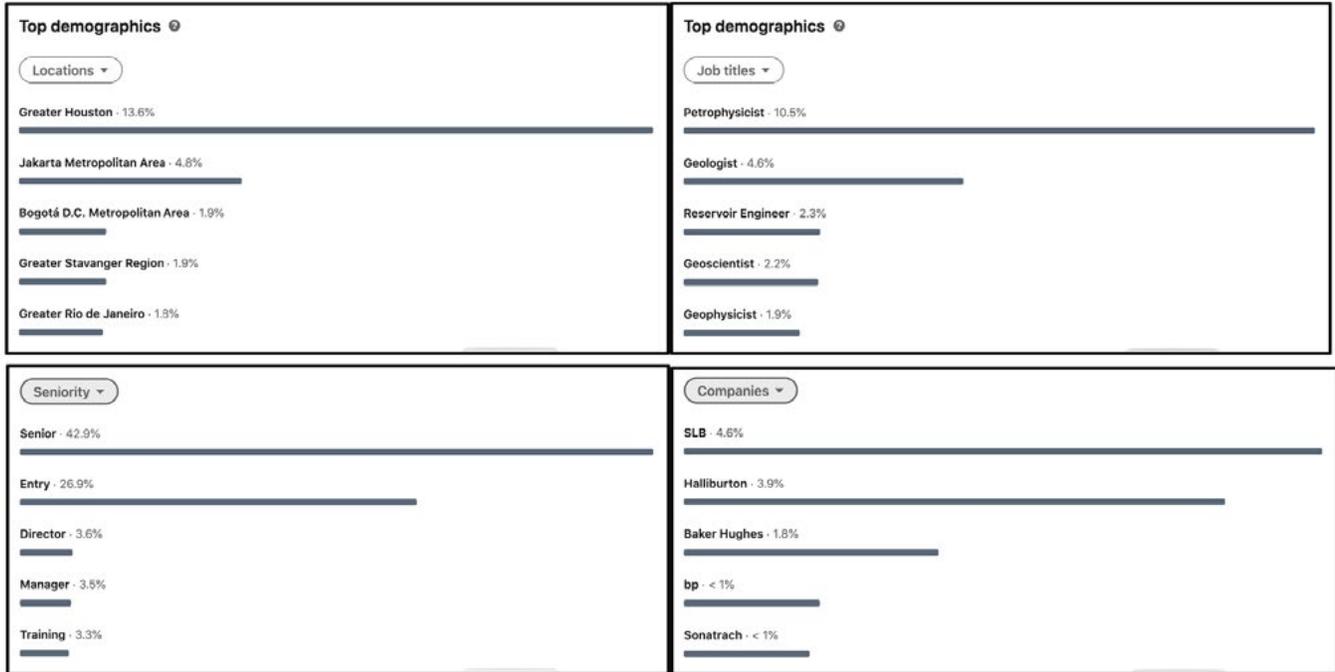


Fig. 2—Top five demographics of LinkedIn viewers during the two weeks covering the symposium.

Instagram: <https://www.instagram.com/spwlaorg/>

We had some fun with Instagram polls and asked our viewers if they attended #spwla2023 and their thoughts on #spwla2024 (Fig. 3)!

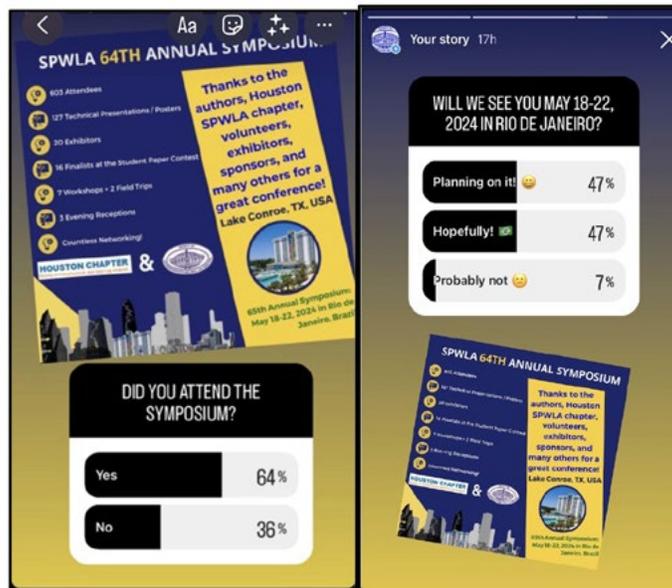


Fig. 3—Instagram poll results. Seventy-two views of the first poll, with nine people voting yes and five voting no. Fifty-six views of the second poll with votes of seven, eight, and one for each question.

THE FEED

Facebook: <https://www.facebook.com/spwlaorg>

Our Facebook page posts the same material as Instagram and is also popular with almost 3,000 followers. For the time covering the annual symposium, there was a peak in engagement (899) with nine new page likes and 16 new page followers.

Twitter: <https://twitter.com/spwlaorg>

The Twitter account provides abbreviated social media posts and boasts 636 followers as of mid-June 2023. The top viewers of our Twitter posts come from Halliburton (42), SLB (22), and Baker Hughes (19).

The Social Media Committee for the next year will include Joshua Bautista-Anguiano, Tanya Garavito, and Adna Vasconcelos to support our social media needs for the next year. If you have interest in joining this committee or specific suggestions, send me an email!



Mathilde and I creating the International Student Paper Contest #ISPC post with the help of VP of Education Kelly Skuce! Make sure to congratulate the student competitors!

Like and comment!



~ Chelsea Newgord
VP Social Media 2023–2025
VP-SocialMedia@spwla.org

Regional Understandings–North America 1



Javier Miranda
2022–2024 North America 1
Regional Director

Serving as the general chairman of the SPWLA Annual Symposium this year was an incredible and unforgettable professional and personal experience I will always remember. I want to thank the SPWLA international board and all the SPWLA members who trusted us to take on this important responsibility. Our success and the numbers shown in the first picture (taken from SPWLA) were only possible thanks to an extraordinary group of volunteers in the Organizing and Technical Committees as well as in the SPWLA international board and staff, who worked tirelessly for more than 18 months to make this possible!

THANKS TO YOU ALL!!! 🤗👊

The names of those on the Organizing Committee are in the table below. Please thank them and their organizations for supporting them during the last year and a half. They devoted a significant amount of time and energy, especially in the last 3 months. There were so many important and tiny details that required our synchronization and attention to be able to deliver a successful conference. All our team worked like a Swiss clock (with some repairs along the way) to produce what you enjoyed in 6 days (including technical program, workshops, and golf tournament).

What I really love about our small professional society (compared in size to other sister societies) is that most members are passionate about what they do, hence a higher quality per capita! I stay highly motivated when I see past presidents or board members working simultaneously in SIGs, organizing workshops, chairing sessions, hosting social events, etc. Even Tegwyn Perkins, SPWLA President 2022–2023, was working in our Organizing Committee as Website/IT Chairperson or Luis Quintero, helping us secure a great keynote speaker in Mr. Rami Yassine, who provided an excellent kickoff to the conference with a speech loaded with insightful information and positive energy. Other past presidents were around helping in any way they could. I really trust in a great future for the SPWLA when I see so much energy and passion across all generations that form our membership.

Thanks also to all the participants in the symposium, technical sessions, workshops, field trips, social events, exhibition, etc., who made possible this successful conference!

After months in the planning stage, I was so relieved seeing the final product, and I am sure our international board, Houston Chapter officers, and all members of the Organizing and Technical Committees, as well as SPWLA staff, were pleased with the outcome.

I want to also thank my family, colleagues, friends, and coworkers for their support during the months of preparation. I also want to thank my employer, DeGolyer and MacNaughton, my manager, and the company's leadership for their support of my involvement in all SPWLA's initiatives.

Finally, I want to wish Lucas Blanes, his organizing committee, and the SPWLA Brazil Chapter all the best in the planning and execution of our main event in 2024. Thanks for your kind invitation to share our recent experience. I am looking forward to talking with all of you. Let's make Rio 2024 the best SPWLA International Annual Symposium ever!

Best wishes to all my fellow SPWLA members, especially those located in my North America region, in the new year 2023–2024. Let's continue our current trend and bring our society to the next level! Feel free to reach me at my official email address below with any recommendations, ideas, questions, etc.

Javier Miranda
2022–2024 North America Region 1 Regional Director
Director-NA1@spwla.org

Regional Understandings–North America 1

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 / Anish Kumar	University of Houston / SLB
Partner/Guest Activities Chairperson	Grant Goodyear	Baker Hughes
Printing/Signs Chairperson	Jiaxin Wang	Halliburton
Publicity/Social Media Chairperson	Mathilde Luycx	ExxonMobil
Technical Arrangements Chairperson	Jeff Crawford	Halliburton
Student Poster Chairperson	Artur Posenato Garcia	Chevron
Website/IT Chairperson	Tegwyn Perkins / Julie Perkins	Geoactive Ltd
Golf Tournament Chairperson	Adam Haecker	Milestone
Golf Tournament Sub-Committee	Angela Schwartz, Zach Liu, Neal Cameron	Vidence, Harvest, Geolog

SPWLA 64TH ANNUAL SYMPOSIUM

- 603 Attendees
- 127 Technical Presentations / Posters
- 20 Exhibitors
- 16 Finalists at the Student Paper Contest
- 7 Workshops + 2 Field Trips
- 3 Evening Receptions
- Countless Networking!

Thanks to the authors, Houston SPWLA chapter, volunteers, exhibitors, sponsors, and many others for a great conference!
Lake Conroe, TX, USA

HOUSTON CHAPTER & **SOCIETY OF PETROGRAPHERS AND WELL LOG ANALYSTS**

65th Annual Symposium:
May 18-22, 2024 in Rio de Janeiro, Brazil

Annual symposium summary.

Regional Understandings–North America 1



Part of the SPWLA 2023 Organizing Committee members. What an honor to serve with this incredible group of volunteers!



SPWLA Opening Remarks Speaker Mr. Javier Miranda, SPWLA 2023 Annual Symposium General Chairman.



SPWLA 2023 Keynote Speaker Mr. Rami Yassine, senior vice president, Halliburton Drilling and Evaluation division.

Regional Understandings–North America 1



SPWLA 2023 Annual Symposium General Chairman and Keynote Speaker, respectively, Mr. Javier Miranda (left) and Mr. Rami Yassine (right).



What would you call a “Presidential Picture” with four former SPWLA International Presidents I respect and appreciate, from left to right: David Kennedy (2014–2015), Elton Frost (2013–2014), Terry Quinn (2008–2009), and Matt Bratovich (2010–2011)?



SPWLA International Board 2022–2023. One of the best teams I have ever worked with!

Regional Understandings–North America 1



Sharing a good time with SPWLA Dallas Chapter leadership, including Jim Lewis (second from the right), Ray Wydrinski (second from the left), and Melissa Evans.



SPWLA Regional Directors in the Americas, Clara Palencia (NA2, first on the left), Javier Miranda (NA1, second from the left), and Nelson Suarez (LA, first on the right) with General Chairman for SPWLA Rio de Janeiro 2024 Annual Symposium (Lucas Blanes, second from right). We all will work together to bring you an exceptional conference next year!



SPWLA Icebreaker on Sunday evening, sponsored by Halliburton.

Regional Understandings–Latin America



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

Dear petrophysicists and colleagues,

This is my second year writing to you as your Latin America Regional Director. I am so happy for everything we have accomplished since you elected me last year for this position as I continue with my duty to be that voice between the local chapters and the board of directors.

For those who don't know me, I am a Venezuelan/Italian born in Caracas. I graduated with a BSc Hons degree in petroleum engineering from the Universidad de Oriente (Venezuela) and later with an MSc degree also in petroleum engineering from Heriot-Watt University (Scotland – UK). During my career, I have worked in many basins in South America, North America, the Middle East, Europe, Africa, and India. I also have a smile on my face to be able to work with you and speak Castellano as well.

It seems like a lot is happening in this second half of the year. I remain hopeful that everything industry-related will progress and get better soon with the industry mission to produce more energy while spending fewer emissions.

For our chapters in Colombia, Brasil, and Argentina, I look forward to seeing and connecting with some of you in person or virtually at regional meetings or local SPWLA events.

For the rest of the countries in LATAM (i.e., my beloved Mexico? Peru? Ecuador? Trinidad? Suriname?), let's chat and discuss how your colleagues can benefit from an SPWLA membership and how we can better engage them. As I said during the last SPWLA Symposium at Lake Conroe, *my door is always open*.

Thanks / Gracias / Atenciosamente,

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

Regional Understandings–Europe



Mathias Horstmann
2023–2025 Europe
Regional Director

Dear SPWLA Community,

Again, a big thank you for participating in the 2023 elections, and congratulations to all the new (and old) Board members!

In the last newsletter, I already had the opportunity to express how privileged I feel to be your new Regional Director for Europe. Unfortunately, due to personal matters, I could not attend the symposium, but I must thank and recognize once more our outgoing Director, Eva Gerick, for keeping the European flag up in Lake Conroe and standing in for me! Thank you, Eva, for your dedication and all the time and energy you put into our community over the past years – honor to whom honor is due!

Eva provided me with some feedback on the SPWLA Symposium in Lake Conroe, which was a great success with over 600 attendees, 127 technical presentations, seven workshops, and three fantastic social events. In the final report, I will investigate a bit of the statistics, geographics, and demographics to judge the European contributions and attendance. But a great event was put together, and Eva stated:

“I had so many inspiring conversations that I got myself straight away a few new tasks within the society, even without being on the Board this year! One of my highlights was seeing all the appreciation certificates for our European chapters, which will be distributed over the next few weeks to the individuals who have served in a chapter role in the last couple of years. Well deserved, and thank you for all you do for SPWLA!”



Eva Gerick (left), 2021–23 Europe Regional Director, presenting a certificate of appreciation to Samira Ahmed from the SPWLA France Chapter, formerly SAID.

During our last European chapter president call, I could sense that the chapters also believe that one big topic in the upcoming years will be around energy transition and how to decipher the role of petrophysics outside oil and gas. That “new” petrophysicist will be pivotal and very important to the other challenge I will try to tackle during my tenure – academia and the next generation! Only with new talents can we ensure that petrophysics stays important and increases its visibility and contributions in the full energy framework.

After the summer break, we will connect to discuss possibilities of regional and topical conferences to make SPWLA here in Europe more relevant by sharing our techniques with the evolving new energy and storage communities. We can scale the events and possibly join with organizations to provide first-class forums for the latest knowledge exchange, places, and foundations for open discussions on innovative ideas. Looking at past local chapter events, the European affiliations are already on this journey. Before I go, I’d like to encourage you to keep checking other chapters’ events in the new calendar, as many talks are streamed – and likely true gemstones!

Wishing you all a great summer break.

All the best,

Mathias

2023–2025 Europe Regional Director

Director-Europe@spwla.org

Regional Understandings–Middle East/Africa



Jennifer Duarte
2022–2024
Middle East/Africa
Regional Director

Dear SPWLA community,

I hope you enjoy reading this issue of *SPWLA Today*. I'm very excited to start the second year of my term as Middle East and Africa Regional Director. I want to take a moment to address all of the local chapters in the Middle East and Africa and let them know what an honor it has been to serve them this past year. I look forward to continuing our collaboration and communication.

I'm happy to see all the chapters in the region (professional and student chapters) stepping up and continuing their local activities. Most chapters are now starting their summer break. In Africa, **SPWLA Nigeria** hosted a second technical event after reviving the chapter after a long hiatus. Thank you to President **Abel Sunday** and VP **Solomon Kadiri** for looking after the chapter's activities. A picture of the event is shown below, where I had the opportunity to talk to all its members about SPWLA as an organization.

In the Middle East, our newly formed chapter **SPWLA Iraq** hosted a second technical event, which was well attended. The chapter already has a complete schedule of technical activities for the year. Anyone interested in joining their local events, please get in touch to learn more about the upcoming local activities at iraq.chapter@spwla.org.



Best regards,
Jennifer Duarte
SPWLA Middle East and Africa 2022–2024
Director_me@spwla.org



Yuki Maehara
2023–2025 Asia Pacific
Regional Director

Hello everyone,

It is with great pleasure and a deep sense of honor that I address you today as the newly appointed SPWLA Asia Pacific Regional Director. I am thrilled to embark on this incredible journey alongside all of you.

First and foremost, I want to express my gratitude to the organizing committee for entrusting me with this role. I am humbled by the opportunity to serve as the Regional Director and contribute to the growth and success of our conference. Together, we will build upon the strong foundation laid by my predecessors and take our events to new heights of excellence and innovation.

I come to this position with a profound passion for petrophysics and a deep understanding of the transformative power it holds. Throughout my 12 years of experience in the industry, I have witnessed firsthand the remarkable advancements and the incredible impact they have on society. It is this very impact that drives my commitment to pushing boundaries, fostering collaboration, and nurturing an environment of constant learning and growth.

As the Asia Pacific Regional Director, my vision is to create an experience that transcends the traditional boundaries of each chapter in the region, increasing the visibility of chapters from Asia Pacific, so enthusiasts from diverse backgrounds can come together to exchange knowledge, share insights, and forge meaningful connections. I firmly believe that collaboration is the cornerstone of innovation, and it is through collective effort that we can truly drive progress and shape the future of our industry.

I extend my sincere appreciation to all of you for your unwavering support and dedication to SPWLA. I look forward to meeting each of you, where we will embark on an extraordinary journey of discovery, inspiration, and collective growth.

Thank you, and once again, a warm welcome to our conference.

Best Regards,
Yuki Maehara
Asia Pacific Regional Director

Sharing Knowledge and Perspective – Call for Memos

Petrophysics can be seen in the upstream as the “unifying discipline” between geoscience, drilling, reservoir engineering, and planning-commercial functions. Moreover, petrophysicists are required in the entire life cycle of every oil and gas, conventional and unconventional field development (EDP), and also with carbon capture, usage, and storage, geothermal, nuclear waste storage, or exploration/production of strategic (also called critical) minerals (helium, lithium, etc.). Bottomline, petrophysicists have lots of exposure and significant depth and breadth of knowledge and experience to share to strengthen the community, better educate the end users of our products, and also learn from cross-functional collaborators.

SPWLA Today newsletter has opened a new section meant to exchange (1) basic knowledge, (2) “war stories” – successes or misuses/mistakes, (3) exposure to new technologies or fields of applications, (4) viewpoints, and also (5) to provide a space to cross-functional colleagues to present their fields and challenges.

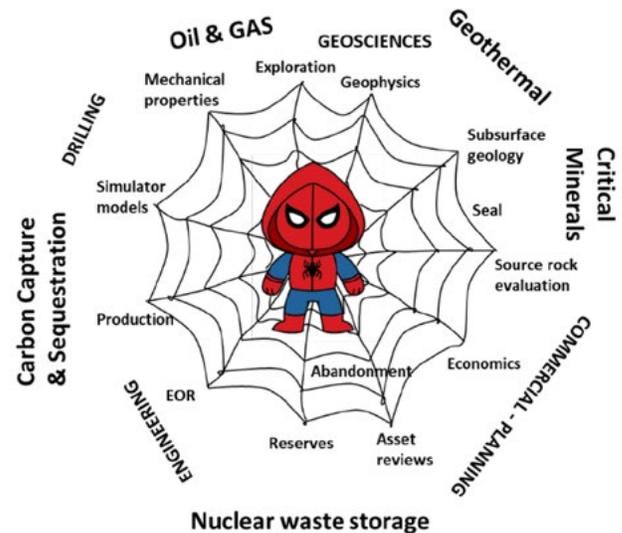


Fig. 1—Web of connection and interconnection of the petrophysicist, who is a scientist, a magician, and a diplomat all-in-one or, in other words, a super spiderman/spiderwoman (Inspired by Dawson Grove, 1980, *The Log Analyst*, 21(3), and Ko Ko Ki, retired principal petrophysicist).

Under the form of a short (1–2 page) shareable memo, welcomed topics include:

- General topics bypassed by seasoned petrophysicist but of value to generalists
 - o Openhole vs. casedhole/production logging
 - o Wireline vs. LWD; LWD vs. MWD; Mud log vs. Mudgas
- Clarification of jargon and even perhaps attempt to correct improper terminology
- Log (first principle, applications, limitations/concerns)
- Core analysis (first principle, applications, limitations/concerns)
- Technology/workflow – Challenges (uncertainties, thin beds, etc.) and new fields of applications
- Integration of petrophysics with other disciplines
 - o Geosciences (geochemistry, reservoir quality, rock physics, stratigraphy, assessment, etc.)
 - o Drilling (pore-pressure, fracture gradient), Engineering (geomechanics, completion, etc.)
 - o Planning – Commercial – Management
- War stories – success/failure; “opinioned” viewpoints
- Old but recurring topics such as VCL vs. VSH, (PHIT-SWT) vs. (PHIE-SWE)
- And everything else about petrophysics you have passion for sharing with others

We recommend interested contributors contact the editorial office (editor@spwla.org) and Philippe Gaillot (Philippe.gaillot@ ExxonMobil) to express early interest and avoid duplicates. If successful, at some point, all memos will be compiled into an online reference volume.

High-Resistivity, Low-Resistivity Pay and Resistivity Reversal

By Philippe Gaillot, Global New Opportunity, Exploration & New Venture, ExxonMobil, Houston

I have often observed generalists/mappers chasing low gamma ray and high-resistivity intervals, or even worse, getting excited and needlessly exciting management while monitoring a well in real time and noticing a significant increase in the resistivity log.

A high-resistivity reading is **NOT** a sure sign of hydrocarbon presence. The resistivity logs, scaled in units of $\Omega\cdot\text{m}$, measure the ability of the formation to conduct electrical current. As hydrocarbon fluids and most of the solid fractions of the rock (except clays and a few other minerals such as pyrite) are nonconductive, the resistivity log is mainly sensitive to the electrical conductivity of the water contained in the formation, itself a function of water salinity and formation temperature. Thus, a high-resistivity reading can be due to

- (1) Lack of porosity and thus water in a tight formation
- (2) Porosity filled (in part or all) by fresh water (i.e., poorly conductive water) as observed in reservoirs recharged by fresh (meteoritic) water
- (3) Isolated water (i.e., not properly connected water) due to special texture or complex pore geometry (e.g., moldic porosity, ooids)
- (4) Porosity filled, in part, with hydrocarbons

While (1) can be easily recognized by interpreting the resistivity jointly with a porosity log (RHOB, NPHI, and/or DTC), (2) vs. (3) vs. (4) calls for a regional knowledge of water and formation properties.

Conversely, a low-resistivity interval (deep resistivity in between 0.5 and 5 $\Omega\cdot\text{m}$) can be hydrocarbon bearing. Because of their inherent electrical conductivity, clays are the primary cause of low-resistivity pay. How clays contribute to low-resistivity readings depends on the type, volume, and distribution (laminar vs. dispersed vs. structural-thinly bedded) of clay in the formation (Boyd et al., 1995). Other causes of low-resistivity pay include small grain size leading to higher irreducible water saturation, as in intervals of igneous and metamorphic rock fragments, microporosity due to K-feldspar dissolution, and the presence of conductive minerals like pyrite (in concentration > 7% in volume).

Decreasing electrical resistivity with increasing maturity, a phenomenon known as “resistivity reversal,” has been observed in many unconventional plays (Ortiz et al, 2018). Possible mechanisms include the existence of a conductive petroleum phase (pyrobitumen) and the increase in residual water salinity driven by water vapor solubility in the produced gas (Cumella et al., 2018). The development of petroleum-expulsion fractures combined with changes in wettability is the preferred explanation for the Niobrara Formation, where a decrease in resistivity up to 80% has been reported (Duhailan and Cumella, 2014).

Bottomline, before interpreting the resistivity log, “know your rock, know your fluid, understand the basin history and commodity map, and read, read, read.”

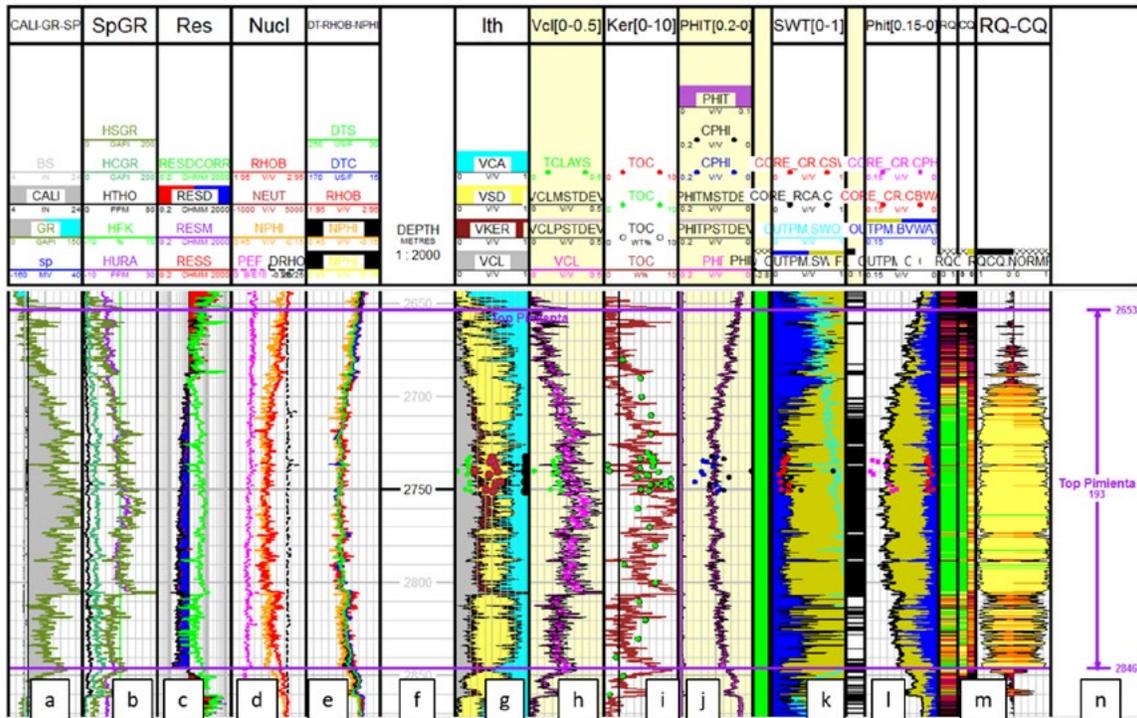


Fig. 1—Log and core data over Pimienta shale (Tampico-Misantla Basin, Mexico). From left to right: (a) Caliper, bit size, and total gamma ray (GR) showing good borehole conditions and a local increase in total GR in the center part of the Pimienta shale interval [~2,700 to 2,810 m MD]; (b) spectral GR log components (uranium, URAN; thorium, THOR; potassium, POTA) and GR corrected for uranium (CGR) showing a local increase in URAN associated with a local increase in organic matter; (c) resistivity (deep, medium and shallow), all decreasing over the high GR/high URAN interval; (d) density (RHOB), neutron (NPHI), photoelectric factor, and density correction showing an increase in porosity concomitant to the resistivity reduction; (e) porosity logs (RHOB, NPHI, DTc) (PEF) and shear slowness (DTs) scaled confirming the increase in porosity (deflection to the left in between ~2,700 and 2,810 m MD), concomitant with the decrease in resistivity (c), classically interpreted as sign of a water-bearing formation; (f) depth in meters; (g) lithological interpretation calibrated with X-ray diffraction data with a focus on (h) volume of dry clay, (i) kerogen content, and (j) (total) porosity estimation and corresponding calibration core data; calibrated (k) (total) water saturation (SWT) and (l) bulk volume fluid fractions showing a high dry-gas saturation, likely missed if resistivity reversal had not been recognized. [Note in (c) “theoretical” resistivity log (green) that would match core SWT following Archie’s equation]; (m) reservoir quality – completion quality indexes and (n) tops.

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July 2023

2023 Steering
Committee

Editors

Ishank Gupta

Kanay Jerath

Javier Miranda

Clara Palencia

Senior Editor

Nelson Suarez Arcano

SPWLAYP@SPWLA.ORG

In this edition:

YPs and the Annual
Symposium

YPs and the Annual Symposium



Ishank Gupta

Dear Young Professional (YP), this is the first “The Bridge” edition after our annual symposium in Lake Conroe. What better way to kick off the 2023–2024 season than by celebrating one of our own team members, who was recently recognized with the **Young Professional Technical Award** at the international conference in June. Dr. Ishank Gupta has been part of the SPWLA YP “The Bridge” team for several years, contributing with our team on articles, interviews, and other content we report bimonthly.

Ishank Gupta is currently working as a senior reservoir engineer at Pioneer Natural Resources in Irving, Texas. He earned his MS and PhD degrees in petroleum engineering at the University of Oklahoma. His research interests include rock physics, petrophysics, reservoir engineering, and machine learning. His thesis and dissertation work focused on unconventional shales—understanding source rock potential, improving hydraulic fracture efficiency, and understanding/developing frac hit mitigation strategies. His research work has resulted in 20 journal articles, and Ishank has also presented his work at 11 conferences. He has also served as a peer reviewer for more than 20 international journals. Ishank is currently serving as an assistant editor for *Interpretation Journal*, published by the Society of Exploration Geophysicists (SEG).

In addition to Ishank, Shaina Kelly (assistant professor at Columbia University), Olabode Ijasan (petrophysicist and research advisor at ExxonMobil), Yegor Se (senior petrophysicist at Chevron), and Chelsea Newgord (petrophysicist and research advisor at ExxonMobil) received the Young Professional Technical Award.

SPWLA YPs in the SPWLA Annual Symposium 2023

The main annual conference organized by the SPWLA had a high participation of YPs this year, not only from academia and students but also a great representation from operating, service, and consulting companies who were part of the 603 members in attendance. Some of them were part of the Organizing and Technical Committees.



SPWLA 2023 Opening Ceremony with a full house.



Part of the SPWLA 2023 Technical Committee members with several YPs in attendance.



Part of the SPWLA membership during the Awards Ceremony, recognizing some of the best professionals in our society, including our own Ishank Gupta.



UT Austin Graduate Student Pallavi Sahu, Past President David Kennedy, and *SPWLA Today* “The Bridge” Editor Javier Miranda. They are a great example of the breadth of experience in our members but also what they share—talent, knowledge, and a passion for petrophysics. YPs play a key role in our society, especially when working together and learning from experienced members like David.



SPWLA Regional Directors in the Americas, Clara Palencia (NA2, first on the left), Javier Miranda (NA1, second from the left), and Nelson Suarez (LA, first on the right) with General Chairman for SPWLA Rio de Janeiro 2024 Annual Symposium (Lucas Blanes, second from right). We all will work together to bring you an exceptional conference next year!

Three members of the international board also serve on the SPWLA “The Bridge” team. We are currently looking for volunteers, especially if located outside of North America. Feel free to contact us at our email address. There is more to do, and the energy and passion Young Professionals bring will definitely be a great addition to our team!



Olabode Ijasan (petrophysicist and research advisor at ExxonMobil) received the SPWLA Young Professional Technical Award.



Chelsea Newgord (petrophysicist and research advisor at ExxonMobil) received the SPWLA Young Professional Technical Award.

SPWLA SEVENTH BOARD OF DIRECTORS MEETING

REMOTE

May 19, 2023

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 Information Technology, Harry Xie, Vice President, Mathilde Luycx, Regional Director Europe, Eva Gerick, Regional Director Middle East/ Africa, Jennifer Duarte, Regional Director Latin America, Nelson Suarez Arcano, Regional Director N. America 1, Javier Miranda, and Executive Director, Sharon Johnson. Absent, Vice President, Publications, Stephanie Perry, Regional Director N. America 2, Matthew Blyth, and Regional Director Asia Pacific/Australia, Ryan Lafferty.

A motion made by President-Elect Jennifer Market to waive the reading of the minutes from the March BOD meeting was seconded by Vice President Technology, Iulian Hulea. This motion passed by majority vote.

A motion made by President-Elect Jennifer Market to accept the consent agenda presented by President Tegwyn Perkins was seconded by Vice President Education, Kelly Skuce. This motion passed by majority vote.

A motion made by President-Elect Jennifer Market to accept the Resistivity SIG Bylaws changes as presented by the SIG Governing Committee was seconded by Regional Director Europe, Eva Gerick. This motion passed by majority vote.

Action Item: President-Elect, Jennifer Market to notify the SIG of the positive approval.

Respectively Submitted by
Sharon Johnson
Executive Director

FINAL MEETING 2022–2023

COLOMBIA CHAPTER



Board of Directors

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

Young Professionals

Miembro	Cargo SPWLA COL	Empresa	Linkedin
Luis Chinomes	Young Professionals Leader	TIP/ICP	https://www.linkedin.com/in/luis-alberto-chinomes-gualdr%C3%B3n/
Dana Ramirez	Y.P. Member	TIP/ICP	https://www.linkedin.com/in/dana-marcela-ram%C3%ADrez-ni%C3%B1o-5833aa128/
Angela Tarazona	Y.P. Member	UIS	https://www.linkedin.com/in/angela-stefany-tarazona-robles-13bb3b140/
Tanya Garavito	Y.P. Member	Halliburton	https://www.linkedin.com/in/tanya-garavito-luque/
Gabriela Rojas	Y.P. Member	Datalog	https://www.linkedin.com/in/gabrielarojasmorales/
Dayana Saenz	Y.P. Member	UT Wess	https://www.linkedin.com/in/dayana-lizeth-s%C3%A1enz-velasco-8a603391/
Julián Moreno	Y.P. Member	Coupa Software	https://www.linkedin.com/in/julianmorenocainaba/
Andrés Sosa	Y.P. Member	DELRIO S.A.S	https://www.linkedin.com/in/andres-felipe-sosa-herandez-33731a120/

Recent Events

29 March 2023—The SPWLA Colombia Chapter held a talk entitled “Integrated Petrophysics for Production Optimization” by Maged Fam, global chief geoscientist at Halliburton. The event was held using the Zoom platform.

"INTEGRATED PETROPHYSICS FOR PRODUCTION OPTIMIZATION"

Ing. Maged Fam

March 29, 2023

5:00PM (GTM- 5) COLOMBIA TIME

Maged Fam Currently holds the position of Global Chief Geoscientist at Halliburton. With over 40 years of experience in the areas of Formation Evaluation, Subsurface Geology, Petrophysics, Logging Operations, Analysis and Interpretation of open and cased hole well log data, as well as pressure testing and sampling. He was posted in many locations around the world, including Egypt, Nigeria, USA, Venezuela, Colombia and currently back in Houston, Texas. Maged was appointed SPWLA distinguished Speaker for the period 2005-2006 and was an associate editor for the PETROPHYSICS Journal for over two consecutive years.

ORGANIZED BY: SOCIETY OF PETROPHYSICISTS AND WELL LOG ANALYSTS

SPWLA TALKS

Reservoir Fluid Geodynamics;
A fundamentally New
Approach to
Reservoir Evaluation



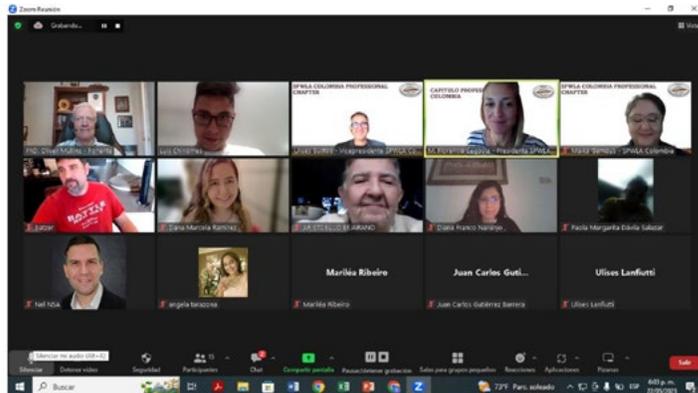
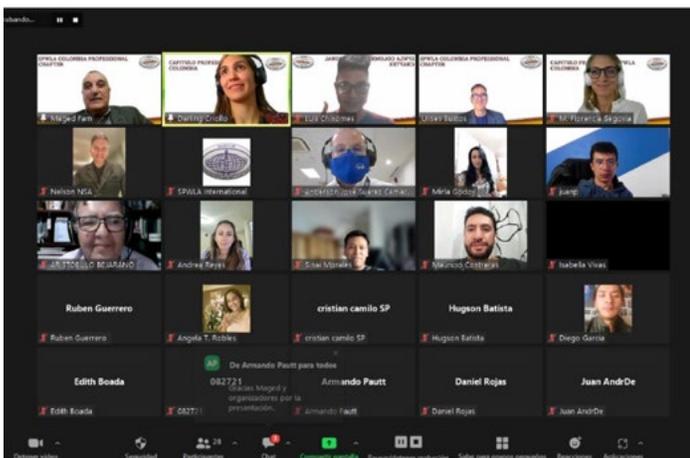
May 22
17:00 H GMT-5

Broadcast by
zoom

Speaker



Dr. Oliver C. Mullins



22 May 2023—The Colombia Chapter held an event entitled “Reservoir Geodynamics; A Fundamentally New Approach to Reservoir Evaluation” by Dr. Oliver Mullins, who has extensive experience in the oil and gas industry and leads the Reservoir Fluid Geodynamics (RFG) discipline at SLB. The event was held using the Zoom platform.

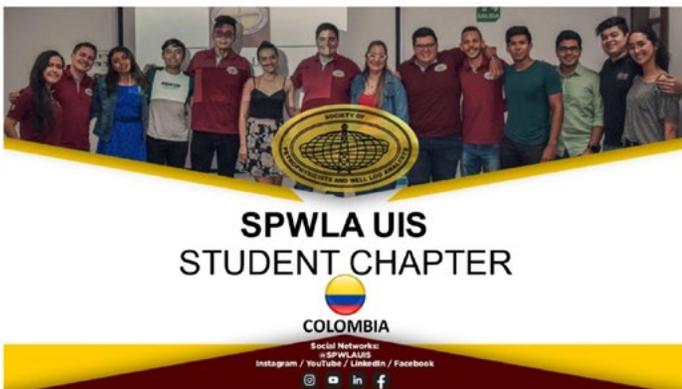
Upcoming Events

- The team will conduct in the next 3 months some possible courses on reservoir quantification and petrophysics using Python.
- The team will be preparing for an upcoming event at the end of the year with a Distinguished Speaker.

Follow us on social networks:



COLOMBIA UIS STUDENT CHAPTER



Board of Directors

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Email: presidencia@spwlauiis.com
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- Secretary: Silvia Juliana Franco A.
Email: secretaria.spwlauiis@gmail.com
- Treasurer: Lizeth Vanessa Blanco D.
Email: contador.spwlauiis@gmail.com

Recent Events

27 March 2023—Student Papers Contest 2023: The national presentation of the Student Papers Contest was held at the Industrial University of Santander, in which undergraduate and post-graduate students participated with their research in the area of petrophysical characterization and geological storage of carbon dioxide. The activity was chaired by the engineers Nelson Suárez and Darling Criollo and teacher Aristóbulo Bejarano, who acted as evaluators of the student work contest. The winner was presented on June 11 in Lake Conroe, Texas, USA, at the Margaritaville Lake Resort.



19 May 2023—SPWLA Talks: The SPWLA UIS Student Chapter held a series of very participatory talks on the topics of sedimentology, enhanced oil recovery, and the challenges of the petroleum engineer, in which the topics of rock identification and their mineralogy were studied, the prospect of petrophysics in enhanced oil recovery methods was analyzed, and the importance of the work of the petroleum engineer today was discussed. For these talks, teachers Victoria Mousalli and Maria Isabel Sandoval and engineers Wilson Carreño and Harving Diaz participated and motivated the students on each topic from their experience.



The course about characterization of rocks.

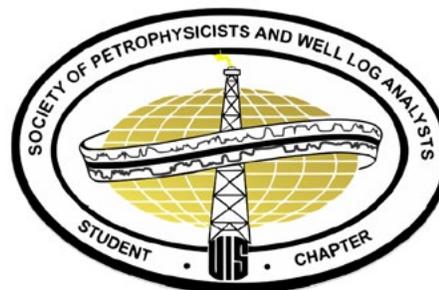
26 and 27 May 2023—The course “Petrophysical Characterization of Oil Fields” was conducted by geologist, master’s in oil and gas engineering, Julian De Bedout. This course covered the fundamentals of petrophysics in deposits, geology, and models focused on petrophysics accompanied by digital tools, in addition to basic calculations addressing the concepts of geology and oil systems. At the end of the course, participants were able to recognize: the presence of oil and gas in the rocks during (or after) drilling, how the oil and gas are stored in the rocks, and the tools that help identify them, in addition to already having knowledge in laboratory and field-applied tests as well as models of rock types and the calculation of petrophysical variables.

May 2023—New Board Meeting: At the end of May, the call for a new board of directors began, where participants in the chapter were instructed on how they could apply to take up these positions. The call was made by means of a form where they could apply to the positions of their preference. During this process, the job responsibilities were explained in detail to the participants so that they were also informed of the functions that they would perform in the future. The process will end with a few votes within the chapter, where each member can choose the person of his/her preference.

25 June 2023—School Drill: The SPWLA UIS Student Chapter carried out (within all the activities provided) a field trip aimed mainly at visiting a drill, where the students who participated benefited from the knowledge about the operation, maintenance, the type of drill, and other important aspects. For this activity, different money

collections were made, either from the sale of desserts to the realization of raffles that have helped us in a relevant way to be able to reduce the prices of the field trip to see the drill.

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/>

BANGKOK CHAPTER

General News

2023 Chapter Committee Members are:

President	Andrew Cox (petrophysics consultant)
Technical Coord	Numan Phetthongkam (senior petrophysicist, Weatherford)
Treasurer	Panesa (Ammy) Panpheemachai (PTTEP)
Social Media	Alexander Beviss (geological consultant)
Secretary	Ronald Ford (operations and petrophysical consultant, Gaia Earth Group)
Sponsorship	Marvin Rourke (VP Technology, GOWell)
Student Liaison	Kruawun (Waw) Jankaew (senior geologist, PTTEP)
Communications	Kulkunya (Fon) Aunguroch (technical sales, Weatherford)

Website: https://www.spwla.org/SPWLA/Chapters_SIGs/Chapters/Asia/Bangkok/Bangkok.aspx
 Email: bangkok.chapter@spwla.org

Recent Events

May 2023—Live Meeting (Jasmine City Hotel, Bangkok)

Wellbore Diagnostics for CCUS Projects

Presented by Dr. Luis Quintero
Halliburton

SPE Distinguished Lecturer 2021–2022

SPWLA Distinguished Speaker 2020–2021

SPWLA President 2016–2017

Carbon capture, utilization, and storage (CCUS) projects are growing rapidly as one of the potential means to address concerns of climate change. While a CCUS project requires the careful coordination of many disciplines, i.e., financial, legal, transportation, regulatory, drilling, geology, etc., it is ultimately through a well and into the nongranular volume of subsurface rocks where the CO₂ will be stored.

Dr. Quintero's presentation spoke to the role petrophysics plays in storage design and management through the life of a field. This talk was well attended and included a lively Q&A session at closing.

June 2023—Joint Meeting with SPE Thailand.

Core Digitalization Program and Artificial Intelligence for the Automatic Recognition of Sedimentological Features

Presented by Dr. Christophe Germa

Epslog

Once a year, SPWLA Bangkok holds a joint meeting with SPE Thailand to come together for networking and to share petrophysics knowledge in the other oil & gas disciplines.

This year's presenter was Dr. Christophe Germa, who provided an in-depth look at the available technology allowing the generation of high-resolution core logs while at the wellsite and including the use of machine learning in the process. He also discussed the advantages of early logging and how this feeds into the multidisciplinary data sets and the overall benefits to geological interpretation.



Dr. Luis Quintero (chief advisor – production management, Halliburton), Andrew Cox, Chapter President – SPWLA Bangkok (May 2023).



Dr. Christophe Germa (managing director, Epslog (June 2023)).

Please check our local website for the latest information on events and activities for the Bangkok Chapter on the SPWLA main page:

https://www.spwla.org/SPWLA/Chapters_SIGs/Chapters/Asia/Bangkok/Bangkok.aspx

or visit us on LinkedIn (SPWLA Bangkok Chapter)

DENVER CHAPTER

General News

The Denver Chapter had a great end to the season, and we want to thank all our members for participating in our events and showing up with great questions and interest in our presented topics. We covered everything our discipline touches this term, from geothermal to completion diagnostics. We are one in a million, but when we come together, magic happens! Thank you to all the board members of 2022–2023: Tamara Maxwell, Chad Linzman, Rich Wittington, Celina Will, Dominic Holmes, Tony Holmes, Camilo Uribe, Max Peters, and Katerina Yared. Thanks also to SPWLA Regional Director Matt Blyth for his support this year.

Recent Events

16 May 2023—Our last speaker of the 2022–2023 season was Robert Lieber (Corsair Petrophysics), sharing his knowledge with us with the talk “Rock Type Recognition Using Deterministic Methodologies for the Codell Sandstone of the DJ Basin.” We thank Bob for his insights and wisdom. We finished off with a happy hour at the Tap 14 bar rooftop with great sunshine and smiling faces.



FORMATION TESTING SIG

General News

FT SIG Elections – The FT SIG bylaws stipulate annual elections for executive committee positions (Chair, Vice Chair, Secretary, Treasurer). A call for nominations was made in May, but none were received. The current committee will remain in place for the 2023–2024 year. (Chair: Steve Smith, Vice-Chair: Gibran Hashmi, Secretary: Camilo Gelvez-Gonzalez, Treasurer: Scotty Paul)

Recent Events

4 May 2023—The FT SIG Annual Meeting and Conference in Houston: We had over 50 participants and 12 technical presentations from global experts on a wide range of FT topics. We were excited to have excellent international involvement with attendees, as well as presenters and presentation topics. It was great to have this in-person event again after a three-year (covid) break, and we look forward to continuing next year.

11 June 2023—Formation Testing Workshop as Part of the SPWLA Annual Symposium: This one-day event was conducted by a group of industry experts to provide introductory training (theory and practical exercises) covering a range of formation testing measurements and applications. A total of 13 participants attended the workshop. We plan to build on this foundational level workshop at the annual symposium next year.

Upcoming Events

We plan to start the Webinar series again in September. For additional details on any event, you can email us at formation.testing.sig@spwla.org.



Bob Lieber receiving his speaker gift from DWLS VP Technology, Katerina Yared.



FT SIG Annual Meeting and Conference (May 4).



FT SIG Workshop.



FT SIG Workshop participants.

HOUSTON CHAPTER

Greetings, SPWLA members! The SPWLA Houston Chapter is committed to serving the local petrophysics community by providing informative and engaging technical seminars. Additionally, the Houston Chapter hosts numerous networking events, offering local professionals a social platform.

We are thrilled to bring you the latest news and updates from the second quarter of 2023. Here are some highlights from our chapter's activities:

With great pleasure, the Houston Chapter hosted the SPWLA 64th Annual Symposium (June 9–14). The SPWLA 64th Annual Symposium was held in Lake Conroe, Texas, USA. We were excited to host all our members and friends of SPWLA, bringing our global technical community close together. Several Houston Chapter members attended as part of the Organizing Committee, Technical Committee, and attendees. A total of 603 attendees were registered for this year's conference, including 575 delegates and exhibitors. Technical and special sessions, workshops, social and networking events, exhibition, and other activities were well attended during the conference.

Technical seminar: Our chapter hosts a technical seminar each month. This seminar was held in April. Titled "USING NMR TO CHARACTERIZE FLUIDS IN TIGHT ROCK UNCONVENTIONAL AND SHALE FORMATIONS," presented by Boqin Sun (Chevron). We thank Baker Hughes for sponsoring the event.

To provide more networking opportunities, the SPWLA Houston Chapter continuously hosts networking events on the last Thursday of each month, from 5:07 to 8:08 pm, at the same location for easy recall. Events were hosted on April 27, May 25, and June 29 in the last 3 months. The entire SPWLA community was invited, and each outdoor party was attended by petrophysicists, geologists, geophysicists, engineers, managers, and others, including current and past SPWLA international board members. Please join us at our monthly networking events on the last Thursday of each month.

SPWLA Houston Chapter continues to host lunch seminars on various topics, with more in-person events taking place recently. Slots are limited for the in-person seminars. Please visit spwla-houston.org for details and registration.

To receive notifications of upcoming events and chapter news, register on the new SPWLA Houston Chapter website and follow us on LinkedIn. You'll also find sponsorship opportunities and job postings. If you're interested or would like more information, please contact us. We are always open to new speakers for our seminars and welcome guests to present on topics of interest to the petrophysics audience. Contact our VPs if you have a presentation to share.

Stay tuned for upcoming news and events! As always, feel free to contact any of the board members if you have questions or comments using the contact information provided on our website: <https://spwla-houston.org/>

Recent Events

26 April 2023—SPWLA Houston Chapter Lunch Seminar:

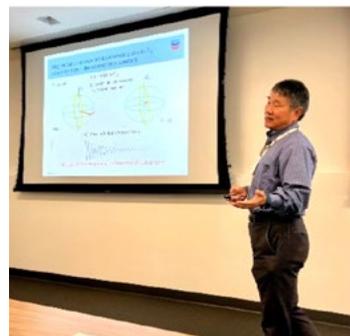
Houston Chapter Northside hosted a lunch seminar titled "USING NMR TO CHARACTERIZE FLUIDS IN TIGHT ROCK UNCONVENTIONAL AND SHALE FORMATIONS" presented by Boqin Sun (Chevron). We thank Baker Hughes for sponsoring the event.

27 April, 25 May, and 29 June 2023—Networking Happy Hour:

We hosted three in-person social networking events at Cedar Creek Bar & Grill. The whole SPWLA community was invited. These outdoor parties were attended by petrophysicists, geologists, geophysicists, engineers, managers, etc. We have current and past SPWLA international board members joining our events.

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

Stay tuned!



Boqin Sun (Chevron) made a presentation about NMR to characterize fluids.



Informed presentation and successful Q&A. We had a full house!



Houston Chapter networking time on May 25.



Amer Hanif, the Vice President of the Northside Houston Chapter of SPWLA, warmly greeted the speaker and presented a gift as a token of appreciation.



The Houston Chapter hosts networking events every month at the same time and location. Don't miss this opportunity to connect with others in the SPWLA community. We look forward to seeing you there!



Houston Chapter networking time with guests. Happy to have current and past SPWLA international board members joining our event.



With great pleasure, SPWLA Houston Chapter organized the SPWLA 64th Annual Symposium, including workshops and field trips.



Opening ceremony of SPWLA 64th Annual Symposium hosted by the Houston Chapter.



Opening ceremony of SPWLA 64th Annual Symposium hosted by the Houston Chapter.



Awards luncheon of SPWLA 64th Annual Symposium hosted by the Houston Chapter.



One of the social events of the SPWLA 64th Annual Symposium that was hosted by the Houston Chapter.

SPWLA Houston Chapter Board for 2022–2024



Bernd Ruehlicke
PRESIDENT
president@spwla-houston.org



Amer Hanif
VICE-PRESIDENT NORTH SIDE
vpnorthside@spwla-houston.org



Artur Posenato Garcia
VICE-PRESIDENT DOWNTOWN
vpdowntown@spwla-houston.org



Neal Cameron
VICE-PRESIDENT WESTSIDE
vpwestside@spwla-houston.org



Ronke Olutola
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QinShan (Shan) Yang
EDITOR
editor@spwla-houston.org



Tianmin Jiang
WEBMASTER
webmaster@spwla-houston.org

UNIVERSITY OF PUNJAB (IGUP) STUDENT CHAPTER

General News

A meeting of the newly elected board members of the SPWLA IGUP Pakistan Student Chapter was held to introduce them and outline their respective responsibilities. The team also introduced SPWLA and its associated chapter in Pakistan and encouraged all the students, including freshmen, to give their full potential and use this prestigious platform to thrive in the industry and represent both their chapter and country internationally. The team also managed to launch the first teaser of SPWLA IGUP FIELD EXCURSION-23. There have been multiple meetings on how to execute the field excursion in the summer. All the members participated in it with different ideas. The winners of ISPC-23 SPWLA-IGUP Pakistan Student Chapter, Mr. Muhammad Mazz Ali, along with Mr. Dilshad Raza

and Mr. Muhammad Bilal Malik, presented their work at the annual symposium held at Margaritaville Resort, Lake Conroe, Houston, Texas, USA. Mr. Dilshad Raza and Mr. Muhamad Mazz Ali secured second and third place in the Undergraduate category of the International Student Paper Contest.

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

Sr. No.	Board of Directors	Designation
1	Dr. Muhammad Armaghan Faisal Miraj armghan.geo@pu.edu.pk	Faculty Advisor
2	Miss Maha Ali Haider mahaalihaider26@gmail.com	President
3	Mr. Shan Shahzad shan.mphil.geo@pu.edu.pk	Vice President
4	Miss Pal Washa Shahzad Rathore palwashahzad97@gmail.com	Treasurer
5	Miss Ayesha Ejaz ayasha.mphil.geo@pu.edu.pk	International Spokesperson Chairperson
6	Mr. Muhammad Hamza hamza-930233@pu.edu.pk	Membership Chairperson
7	Mr. Muhammad Waqas Javed geo747@outlook.com	Event Manager
8	Miss Syeda Fakiha Ali Zaidi fakihaali5@gmail.com	Social Media Chairperson

Recent Events

30 May 2023—The SPWLA-IGUP Student Chapter is dedicated to providing valuable information and resources to students interested in the field of petrophysics. The team takes great pride in visiting and engaging with students to share insights about the chapter and its benefits. During these visits, the team focuses on providing a comprehensive understanding of the chapter’s activities and how it works in the best interest of students. They emphasize the importance of networking, professional development, and knowledge sharing within the petrophysics community. The team ensures that students are aware of the diverse range of opportunities offered by the chapter, including technical workshops, guest lectures by industry experts, field trips to oil and gas facilities, and access to cutting-edge research and publications. They emphasize the significance of active participation in chapter activities to enhance practical skills and broaden one’s understanding of the field. Moreover, the team highlights the collaborative nature of the SPWLA-IGUP Student Chapter, encouraging students to share their ideas, contribute to projects, and foster a supportive community. They emphasize that the chapter is committed to providing a platform where students can engage with professionals, expand their knowledge, and explore potential career paths.

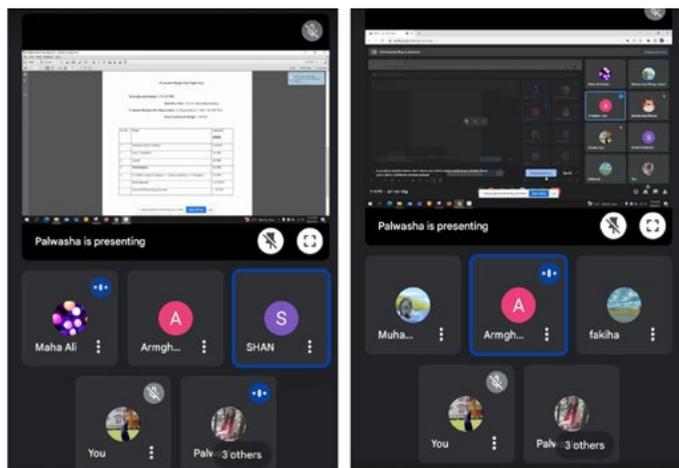


The Faculty Advisor of SPWLA-IGUP Student Chapter, Dr. M. Armaghan Faisal Miraj, along with our team member Muhammad Hamza Swati pay a visit to students to ensure that the students are well informed about the SPWLA-IGUP Student Chapter and its numerous benefits. They aim to empower students by equipping them with the necessary tools and opportunities to thrive in the petrophysics industry.



The SPWLA-IGUP Student Chapter team, along with Faculty Advisor Dr. M. Armaghan Faisal Miraj (in the middle of the group), engaging with students, providing valuable insights about the chapter and its commitment to the students' best interests, offering networking opportunities, professional development, and knowledge sharing in the field of petrophysics.

8 June 2023—In preparation for the upcoming field excursion, the team has been actively organizing multiple meetings to brainstorm and discuss various aspects of executing the event successfully. These meetings have provided a platform for all members to actively participate and contribute their unique ideas and perspectives. The diverse range of ideas presented during these meetings reflects the team's commitment to ensuring a comprehensive and enriching experience for participants. Each member's input has been invaluable in shaping the plans and activities for the field excursion. The team's collaborative approach and dedication to meticulous planning will ensure that the SPWLA-IGUP FIELD EXCURSION-23 becomes a remarkable and educational event for all attendees. The enthusiasm and involvement of all team members serve as a testament to their passion for organizing an exceptional experience during the summer excursion.



SPWLA-IGUP team members conducting online meetings discussing the details and budget of the Field Excursion-2023 during a meeting while reviewing the draft of the first teaser.

SPWLA-IGUP STUDENT CHAPTER PAKISTAN

FIELD EXCURSION-2023

- Registration Fee: 3000 Rs/-
- Destination: Hazara Basin
- Date of departure: 23 June, 2023
- Date of Arrival: 24 June, 2023

Limited seats available (first come first serve)
Register Now

- One night stay
- Breakfast
- Quiz -- Prize Distribution
- Lunch

18 June, 2023
Deadline of Registration

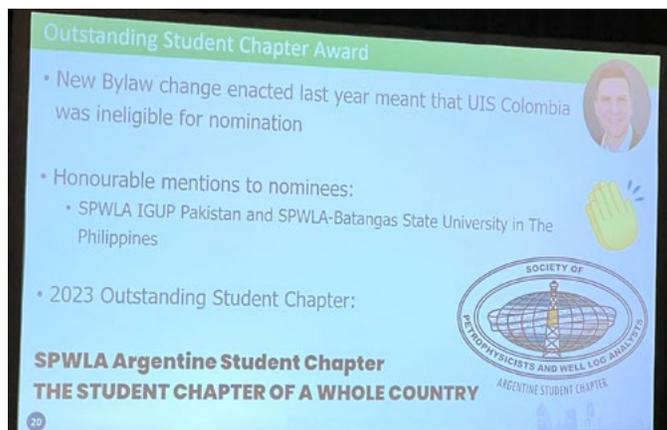
For Registration:
 Contact our Treasure Officer
 Bank Name: Bank Al-Habb
 Account Title: Palwasha Shahzad Rathore
 Account Number: 55090081004635016
 Branch Code: 5509

For More Information
 Contact Details
spwla.igup.pak@gmail.com

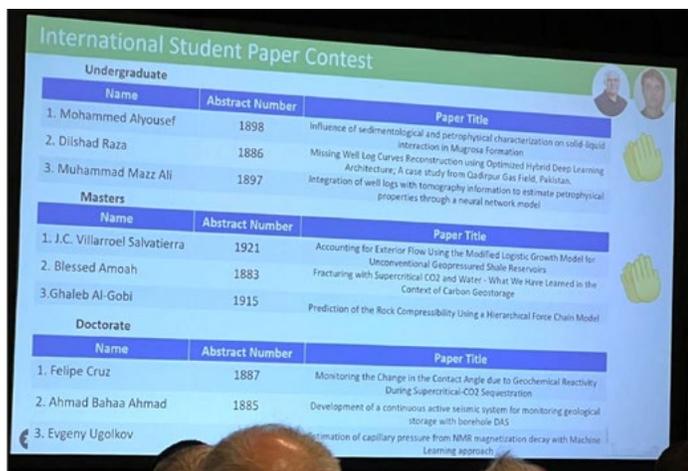
Sneak peek of the captivating draft for the first teaser of SPWLA-IGUP Student Chapter, Pakistan's highly anticipated Field Excursion-2023, showcasing the exciting details and adventures awaiting participants.

12 June 2023—We are thrilled to announce the remarkable achievement of Mr. Muhammad Mazz Ali, Mr. Dilshad Raza, and Mr. Muhammad Bilal Malik from the SPWLA-IGUP Student Chapter. They recently showcased their outstanding work at the SPWLA 64th Annual Symposium, held at the prestigious Margaritaville Resort in Lake Conroe, Houston, Texas, USA. In the highly competitive International Student Paper Contest, Mr. Dilshad Raza and Mr. Muhammad Mazz Ali secured remarkable positions. Their exceptional research and presentation skills earned them second and third place, respectively, in the Undergraduate category. This recognition highlights their expertise, dedication, and commitment to excellence in the field of petrophysics. We congratulate Mr. Muhammad Mazz Ali, Mr. Dilshad Raza, and Mr. Muhammad Bilal Malik for their exceptional accomplishments and for representing the SPWLA-IGUP Student Chapter, Pakistan, on an international platform. Their achievements are a testament to their hard work and the high caliber of research conducted within our chapter.

for excellence and serving as a valuable resource for students and professionals alike. We extend our heartfelt gratitude to the SPWLA for this honorable mention and look forward to further contributing to the advancement of petrophysics in Pakistan.



SPWLA-IGUP Student Chapter, Pakistan, proudly recognized as an Honorable Mention nominee for their outstanding contributions in the field of petrophysics, exemplifying dedication, knowledge sharing, and professional development.



Mr. Dilshad Raza and Mr. Muhammad Mazz Ali triumphed in the International Student Paper Contest, securing second and third place, respectively, in the Undergraduate category.

We are delighted to announce that the SPWLA-IGUP Student Chapter has been selected as an Honorable Mention nominee for our exceptional contributions to the field of petrophysics. This recognition is a testament to the hard work, dedication, and collaborative efforts of our team members. We are humbled to be acknowledged for our commitment to promoting knowledge sharing, professional development, and networking opportunities within the petrophysics community. This recognition motivates us to continue striving

We extend our gratitude to the symposium organizers and express our appreciation for providing such a valuable opportunity for students to showcase their talent and contribute to the advancement of petrophysics. We are immensely proud of our talented members and look forward to more groundbreaking achievements in the future.

Upcoming Events

SPWLA IGUP Student Chapter is planning an organized geological field excursion, a closing ceremony, and elections. The tentative plan for the rest of the term (2022–2023) is:

Sr. No.	Plan	Month-Year
1.	SPWLA-IGUP Field Excursion-23	June-2023
2.	Closing Ceremony of SPWLA-IGUP-(2022-2023)	July-2023
3.	Elections	July-2023

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

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

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

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

IRAQ CHAPTER

General News

SPWLA IRAQ 2023 Theme: Focus on Integrity: Due to increasing seasonal wells worldwide, integrity evaluation is critically important in oil, gas, geothermal, and carbon capture wells. The SPWLA Iraq 2023 theme is “Focus on Integrity.” SPWLA Iraq will arrange a series of online webinars available freely. The presenters are experts working for wireline tool manufacturers, software companies, services providers, and E&P operators.

We will announce these events on our LinkedIn page: <https://www.linkedin.com/company/spwla-iraq>
Also, anyone may contact us by email: iraq.chapter@spwla.org

Recent Events

28 May 2023—We are thrilled that our first 2023 webinar was successfully presented by Mr. Raveen Vishnu on how “Seal Integrity” can be detected utilizing the TGT company wireline tool.



27 June 2023—A webinar titled “Casing Inspection by Emeraude Software” was presented by Mr. Nicolas Kotlar.

JAPAN CHAPTER (JFES)

Recent Events

23 May 2023—Distinguished Lecture 2023: Distinguished Lecture 2023 was held as an online event. We welcomed 76 audience members and two lecturers for a series of technical presentations, which were followed by lively discussions.

Presentation 1

“Importance and Acquisition Methods of Mineral Information in CCS/CCUS Projects: Overview of Current Status and Challenges”
Takeaki Otani (JFES Director, JAPEx)

Presentation 2

“CCUS in Mature Fields: How Core-to-Log Data-Drive Analytics Enhances Mechanistic Models for the Purpose of Reservoir and Caprock Mineralogical Characterization”
Marco Pirrone (Eni S.p.A.)

Upcoming Events

25 July 2023—The 121st Chapter Meeting: The forthcoming Chapter Meeting will be held as follows. Online lectures will be held due to the unprecedented situation caused by the COVID-19 pandemic. We encourage you to peruse the below program and register your attendance.

Registration: Visit and fill out the [Registration form](#) by July 18 COB, 2023

Date & Time: July 25, 2022, Tuesday, 15:30 to 17:30 (JST)

Online Seminar: The access link will be informed to registrants.

Contact: info@spwla-jfes.org

Presentation 1

“Green Tuff Reservoir Rock Type Classification by Integrating Petrography and Petrophysics Data (Case study in Higashi Kashiwazaki Gas Field, Japan)”
Keitaro Kojima (INPEX)

Higashi-Kashiwazaki gas field (HK Field), located in the Niigata prefecture in Japan, has a long history of gas production from a Miocene volcanic reservoir, the so-called “Green Tuff.” Currently, HK Field attracts attention for the usage of carbon capture, utilization, and storage (CCUS). We revisited rock-type classification and built a geological model as follows.

First, we defined rock-type classification based on microscopy observation and petrological analysis (XRD/XRF) of cutting samples. The reservoir of HK Field is divided into four rock types: rhyolitic lava facies (Lv), rhyolitic breccia/auto-brecciated lava facies (Br), resedimented hyaloclastite/tuff facies (Tf), and mafic lava/tuff facies (Maf). Second, in order to maximize data points for a geological model, we established a rock-type prediction scheme practically with limited wireline logs (gamma ray, resistivity, density, and neutron). Then, considering volcanic rock dimension from an outcrop analogy, we interpreted inter-well correlation and built a facies model.

By integrating petrological analysis and petrophysical prediction, the new rock type simplifies complex volcanic reservoirs and enables us to build static models quantitatively and efficiently.

Presentation 2

“DX in Subsurface Evaluation: INPEX’s Initiatives and Challenges”

Hiroyuki Inoue (INPEX)

Since the late 2010s, INPEX has been working on the application of machine learning for subsurface evaluation and the centralization of subsurface data onto a cloud platform as part of its digital transformation (DX) initiatives. Although these efforts have yielded improvements in evaluation tasks, we continue to face challenges as we strive for our goal of DX, which is to strengthen the upstream business and create new value. In this presentation, we will introduce the achievements and issues in these endeavors, focusing on case studies of machine-learning applications, the construction of a cloud data platform, and the use of high-performance cloud computing.

<https://www.spwla-jfes.org/> Email: info@spwla-jfes.org

**NORWEGIAN FORMATION EVALUATION SOCIETY (NFES)
CHAPTER**

General News

NFES Årsmøte 2023 – Annual General Assembly – New Board – New President! The Annual General Assembly was held on Wednesday, June 7, 2023, in the Solastranden Gård prior to the monthly technical meeting.

As per the articles of the association, the agenda included a financial review as well as the member and sponsorship status report and revisiting the technical meetings, the symposium, and the two-day seminar.

After more than a decade on the board, first as VP Program and since 2016 presiding over the Norwegian Chapter of SPWLA, Mathias Horstmann handed the gavel over to Dler Mirza, the new NFES President 2023–2025. Thank you, Mathias, for all your dedication and the impact you made on NFES. Mathias took the role of Regional Director Europe of SPWLA, and NFES is looking forward to continuing to engage now even closer to the SPWLA mothership.

To replace Dler and take office as the new VP Membership, the entire NFES board welcomes Subhadeep Sarkar of SLB – thank you for stepping up and volunteering in the society.



NFES General Assembly 2023 in Stavanger. Dler Mirza (left), the new NFES President, receives the gavel from outgoing president Mathias Horstmann (right) of Stratum Reservoir.

Following the presentation and approval of the report, both the relief of the past and the reconfirmation of the new NFES board took place. The new NFES board consists of the following:

Position	Name	Company	Term
President	Dler Mirza	Aker BP	2023–2025
VP Program	Venkat Jambunathan	Halliburton	2023–2025
VP Membership	Subhadeep Sarkar	SLB	2023–2025
VP Technology & Social Media	Irada Yusufova	Equinor	2023–2025
VP Finance	Torunn Hana	Repsol	2022–2024
VP Sponsorship	Annette Larsen	Logtek	2022–2024
VP PR & Academia	Sergey Alyaev	NORCE	2022–2024

Recent Events

3 May 2023—Monthly Technical Meeting May 2023: We in NFES clearly strengthened our CORE knowledge! A fantastic talk by SCAL expert Meysam Nourani (Stratum Reservoir) on special core analysis – this time on how to predict the formation resistivity factor and resistivity index. The proposed models were validated using actual core data from 10 plug samples, both from sandstones and carbonates. A great audience enjoyed his quality talk and engaged in a fruitful discussion – very glad to have the Society of Core Analysts as an SPWLA chapter at large!



The NFES Technical Meeting in May 2023 in Stavanger. Venkat Jambunathan (left), NFES VP Program, presents to Meysam Nourani (Stratum Reservoir) (right) the NFES ice bear in gratitude for his well-attended and delivered presentation.

7 June 2023—Monthly Technical Meeting June 2023:

Right after the Annual General Assembly, a technical presentation was given by Neil Kelsall, who works for SLB as a global seismic-while-drilling expert. Neil shared from his two decades of experience many lessons learned on how to acquire data during drilling operations that require low acoustic noise levels. His talk described how seismic LWD works and the challenges faced for different applications and explained how they have been overcome to provide a reliable and efficient real-time look-ahead-while-drilling technique. A very interested audience enjoyed this technical meeting and had great networking at a fantastic Easter buffet in the Solastranden Gård.



The NFES Technical Meeting June 2023 in Stavanger. Neil Kelsall (right), a global seismic-while-drilling expert with SLB, receives his keepsake for a great talk from Mathias Horstmann (left), NFES (Past)-President.

Upcoming Events

6 September 2023—Please follow us for further information on nfes.org and our [LinkedIn](#) profile for the technical meeting taking place after the summer break on September 6, 11 am in the Solastranden Gård.

NMR SIG

General News

The SPWLA NMR SIG is proud to share the following news of our recent 2023 activities. During the 2023 SPWLA Annual Symposium, the NMR SIG organized and sponsored a course on Saturday with the title of “NMR for the Next Frontiers: Machine Learning, High Field, and New Logging Applications” with instructors H. Nate Bachman (SLB), Bruce Balcom (University of New Brunswick), Zonghai Harry Xie (Core Laboratories), Philip Singer (Rice University), Holger Thern (Baker Hughes), and Lalitha Venkataramanan (SLB). We especially thank Harry and Core Labs for printing the student handouts. Approximately 20 students from across the industry and academia attended this dynamic event. The NMR SIG arranged an enjoyable social event for the students after the course. The next day, the NMR SIG also initiated and carried out the judging for a Student Paper Award for excellence in formation evaluation using the principles of magnetic resonance, which went to Evgeny Ugolkov of King Abdullah University of Science and Technology. Lastly, the NMR SIG sponsored and led two special NMR sessions on Wednesday as part of the symposium, chaired by members Jinhong and Tianmin. Both sessions were well attended, and every talk generated animated question-and-answer periods. Be sure to look us up on the SPWLA website and join our growing group!



The SPWLA 64th Annual Symposium Workshop leaders: Harry Xie, Henry Nate Bachman, Lalitha Venkataramanan, Philip Singer, Holger Thern, and Bruce Balcom.

PDDA SIG

General News

SPWLA PDDA Annual ML Competition

We are pleased to announce that the deadline for the annual ML competition has been extended from June 15 to October 15. This decision was made in response to feedback from participants and the postponement of the SPWLA Topical ML Conference. We understand that machine-learning projects can be complex and time consuming, and we want to ensure that everyone has a fair opportunity to participate and excel in this competition. By extending the deadline, we believe it will give you more flexibility to refine your algorithms, experiment with different approaches, and improve your overall submissions. Please note that all other competition rules and guidelines remain unchanged. The evaluation and judging process will still take place immediately after the new submission deadline, and winners will be announced within 2 weeks of the competition’s conclusion. We apologize for any inconvenience caused by this adjustment, but we hope that you understand our intention to provide a fair and conducive environment for all participants. We look forward to receiving your impressive submissions by the extended deadline of October 15. More information can be found on the competition website: <https://github.com/pddasig/Machine-Learning-Competition-2023>

Recent Events

11 June 2023—SPWLA PDDA SIG Workshop: The PDDA SIG hosted a workshop on machine learning at the SPWLA Annual Symposium in Conroe, Texas. The workshop covered the basics of machine learning, as well as sample workflows and steps for ML applications. It also summarized some of the use cases for machine learning in the industry. We are grateful to all of the attendees and instructors for their participation. More information can be found here: <https://www.spwlaworld.org/2023-workshop-7/>

SAUDI ARABIA CHAPTER

Recent Events

31 May 2023—SPWLA SAC conducted a lunch and learn event on “Formation Testing and Sampling in Slim Wellbore Conditions” by Halil Osunluk, formation testing and sampling domain champion from Weatherford. During the technical presentation, Halil explained how the tool works and why it can be run in extra slimholes, with global field examples reviewed in detail to demonstrate the unique features of the technology, such as it can be run



NMR Workshop in session.



NMR Social Event.



NMR Social Event: Nate, Ron, and Harry.

rigless, if needed. An audience of about 40 petrophysicists actively participated in the discussions during and after the presentation, including quality control of sampling oil with oil-based mud (OBM) and the potential effect of water cuts in OBM on sampling quality. At the end of the event, it was concluded that formation pressure could be acquired, and formation fluids could be sampled in slimholes. And in special situations, such as those due to concerns about drilling safety and borehole stability, a well may be completed first before formation pressure and formation fluid samples can be obtained rigless.



SPWLA SAC Monthly Lunch and Learn.

UFRJ STUDENT CHAPTER

General News

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

Board Members

- President: Gabriel Ferraz
- Vice President: Guilherme Lontra

- Treasurer: Sofia D'Orsi
- Secretary: Diana Tabach

Executive Members

- Bruno Valle
- Teresa Mourão
- Rodrigo Azambuja
- Iago da Costa
- Sarah Aleixo

Marketing Members

- Renan Camilo

Logistic Members

- Alexandre Nobre
- Enzo Borges

Recent News

Due to some unexpected issues, we couldn't start our selective process last month, but we scheduled it for the middle of June. We have already made the disclosure posts on our social media to announce the beginning of the process.

We managed to get in contact with PetroRio, an impressive oil and gas company from Brazil, to make a technical visit in June/July, aiming to acquire some knowledge about the work system and goals of the company, plus the learning and experience of practical activities applied to the petrophysics and well-log analysis.

Upcoming Events

We are planning to make more technical visits for the next few months as well. We are in contact with 3R Petroleum, which is a Brazilian company that is specialized in the efficient management of reservoirs and mature field development. Furthermore, we have contacted Petrobras through the Innovation, Development, and Research Center of Petrobras (CENPES) to schedule a technical visit to their petrophysical and geophysical laboratories. We got a response from both companies, but we still don't have a specific date for the event.

Also, we are organizing an online event where we are going to invite some professors from UFRJ to give us some internal training about the different software used for petrophysical and geophysical interpretations.

65th Society of Petrophysicists and Well Log Analysts Symposium

Sheraton Grand Rio Hotel & Resort
Rio de Janeiro, Brazil

May 18–22, 2024
Hosted by the Brazil Chapter



SPWLA

BRAZIL CHAPTER

66th Society of Petrophysicists and Well Log Analysts Symposium

May 2025
Hosted by the Dubai Chapter



Welcome New Members – April 20, 2023–June 12, 2023

Abdo, Mohamad, University of Texas at Austin, Austin, TX, United States

Abulaiha, Yasin, Halliburton, Cypress, TX, United States

Ahmad, Ahmad, Kyushu University, Tokyo, Japan

Ali, Abid, Lamar University, Spring, TX, United States

Bower, Mike, SLB, Sugar Land, TX, United States

Cadena, Andrea, Murphy Oil Corporation, Houston, TX, United States

Campbell, Steven, Kinder Morgan, Houston, TX, United States

Cardoso, Haminton, Universidad Surcolombiana, Neiva, Huila, Colombia

Carter, William, Weatherford, Loughborough, Leicestershire, United Kingdom

Cavazza, Michael, Shell, Houston, TX, United States

Chavez Cabello, Victoria, Woodside Energy Ltd, Perth, WA, Australia

Chen, Chao, Kuwait Oil Company, Ahmadi, Kuwait

Cox, Katrina, Core Laboratories, League City, TX, United States

Cui, Ruikang, China University of Petroleum (East China), Qingdao, China

DAI, JIN, China University of Petroleum - Beijing, Beijing, China

De Korver, Jan Willem, TotalEnergies, Lons, France,

Diaz, Maria, Universidad Surcolombiana, Neiva, Huila, Colombia

Doty, Trae, Tall City Operations III, Midland, TX, United States

Dussan Penagos, Juan David, Universidad Surcolombiana, Neiva, Huila, Colombia

Ehlig-Economides, Christine, University of Houston, Houston, TX, United States

Eremeev, Alexandr, SLB, Houston, TX, United States

Ferreira, Enrico, Baker Hughes, Rio De Janeiro, Brazil

Fry, Jonathan, Chevron, Midland, TX, United States

Garcia Rojas, Laura, Universidad Surcolombiana, Neiva, Huila, Colombia

Gupta, Atul, Baker Hughes, Union, NJ, United States

Iskander, Fady, Halliburton, Fulshear, TX, United States

Jensen, Kåre, Equinor, Hjeltestad, Norway, Norway

Johannson, Perry, Aspen Technology, Katy, TX, United States

Johnson, Matthew, University of Wyoming, Laramie, WY, United States

Johnston, Graham, ExxonMobil, Houston, TX, United States

Kaewpetch, Kittima, Halliburton, Bangkok, Thailand,

Keretchashvili, Gurami, SLB, Cachan, France,

Khan, Talha Hassan, University of Houston, Houston, TX, United States

Knight, Evan, Shell, Houston, TX, United States

Maksimov, Danil, AkerBP, Trondheim, Norway,

Mata, Jose, Halliburton, Houston, TX, United States

Mesa, John, Halliburton, Houston, TX, United States

Mohammed, Abdulqudus, University of Texas Permian Basin, Odessa, TX, United States

Mouedden, Nadia, University of Texas at Austin, Austin, TX, United States

Nandi, Anindya, ExxonMobil, Bengaluru, Karnataka, India

Øian, Erlend, ResBridge AS, Ulset, Norway

Orjuela, Daniel, Universidad Surcolombiana, Neiva, Huila, Colombia

Pang, Daniel, University of Texas, Houston, TX, United States

Perrier, Yassine Alexandre, SLB, Châtenay-Malabry, France,

Polo Vanegas, Fernando Andres, Universidad Surcolombiana, Neiva, Huila, Colombia

Qin, Yingyao, Yangtze University, Wuhan, China

Ramirez, Karen, Universidad Surcolombiana, Neiva, Huila, Colombia

Rothe, Eric, Baker Hughes, Spring, TX, United States

Saisorn, Wanrapee, Halliburton, Bangkok, Chatuchak, Thailand

Salim, Diogo, SLB, Sugar Land, TX, United States

Senkhamwong, Nitchakan, Halliburton Energy Services, Bangkok, Thailand,

Simmons, Samuel, Greenlake Energy, Leander, TX, United States

Suarez Alvarez, Adriana, Universidad Surcolombiana, Neiva, Huila, Colombia

Thomas, Gawain, Aramco Americas, Cambridge, MA, United States

Tingey, Brady, Task Fronterra, Houston, TX, United States

Tocora, Xiomara, Universidad Surcolombiana, Neiva, Huila, Colombia

Torr, Anita, Halliburton, Tomball, TX, United States

Unomah, Gabriel, University of Houston, Spring, TX, United States

Vargas, Salvador, California State University, Bakersfield, CA, United States

Viandante, Mauro, SLB, Voluntari, Ilfov, Romania

Villarroel Salvatierra, Julio, The University of Texas at Austin, Austin, TX, United States

Volkov, Maxim, TGT Diagnostics, Katy, TX, United States

Voorhees, Kristopher, Boomtown Oil, Austin, TX, United States

Wang, Wenjie, RIPED, Beijing, China

Wiecek, Boguslaw, Halliburton, Houston, TX, United States

Willis, Maxwell, California Resources Corporation, Manhattan Beach, CA, United States

Wong, Aaron Danyl, UNSW, Kensington, NSW, Australia

Xie, Zhen, China University of Petroleum-Beijing, Beijing, China

Xiong, Wenjun, China University of Petroleum (Beijing), Beijing, China

PROPAGATING IMAGE-BASED ROCK CLASSES FROM CORED WELLS TO NON-CORED WELLS USING SUPERVISED MACHINE LEARNING FOR ENHANCED FORMATION EVALUATION

Pallavi Sahu, Andres Gonzalez, and Zoya Heidari, The University of Texas at Austin; Olivier Lopez

ABSTRACT

High-resolution image data is instrumental in quantifying the rapid variation of rock fabric in formation evaluation that conventional well logs fail to capture. However, acquiring image data for all wells of an entire formation is expensive and time-consuming. Therefore, extrapolation of rock fabric information represented by image-based rock classes obtained from high-resolution images of imaged well to non-imaged wells is necessary for efficient formation evaluation. We trained supervised learning algorithm, random forest classifier, using well logs and image-based rock classes and conventional well logs. Subsequently, the trained model is used to estimate fabric-based rock classes in non-imaged wells. The detected fabric-based rock classes result in improved formation evaluation. The detected fabric-based rock classes result in improved formation evaluation. The detected fabric-based rock classes result in improved formation evaluation. The detected fabric-based rock classes result in improved formation evaluation.

METHOD



RESULTS

Step 1: Verification on the Same Well used for Training



Confusion Matrix for Well A

Actual \ Predicted	Class 1	Class 2	Class 3
Class 1	12	1	0
Class 2	0	8	0
Class 3	0	0	6

Zoomed depth intervals

The supervised learning algorithm showed an accuracy of 79% in detecting rock classes against image-based rock classes.

Well B



RESULTS

Description of Data

Two wells (i.e., Wells A and B) were used for training and testing. The training data consists of image-based rock classes and conventional well logs. The testing data consists of image-based rock classes and conventional well logs. The results of the proposed method contribute to improving the accuracy of formation evaluation by incorporating rock fabric information into the conventional well logs.

