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NEWSLETTER

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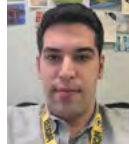
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Notice: Articles published in SPWLA Today are not subject to formal peer review but are subject to editorial review and are verified for technical consistency and relevance.

September 2, 2022

Acoustics SIG
Borehole Acoustics: The Road Ahead
Houston, TX
[Acoustics SIG Webpage](#)

October 6–7, 2022

NMR SIG Fall Conference
Houston, TX
[NMR SIG Webpage](#)

June 10–14, 2023

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



Did you know that Stavanger and Houston were sister cities? (Photo courtesy of Jim Hemingway)



Moody Gardens (Galveston, TX) gifted sister city Stavanger with trees as a sign of friendship between the Norwegian city and the Houston-Galveston area. (Photo courtesy of Jim Hemingway)

About the Cover

Attendees of the SPWLA 63rd Annual Symposium on the first day of the symposium held in Stavanger, Norway on June 11–15.

From the President



Tegwyn JP Perkins
2022–2023
SPWLA President

Hello and welcome to my first column as SPWLA President for the *SPWLA Today* newsletter. I had to read that sentence twice in my head as I still cannot believe it. As I begin my journey as your president, I want to thank you for your support throughout the years. This year will be my seventh year as a serving SPWLA Board member, and I am very honored for the opportunity and grateful to be able to continue to make an impact in our society and serve our membership.

First, let me just say what an amazing leader **Katerina Yared** has been as President. I am still not convinced that she sleeps, and I have no idea how she balances a full-time job, a family, and her SPWLA duties. Never fear, though! She will still be heavily involved with SPWLA as she will be “graduating” to the SPWLA Foundation and will be involved with the Education SIG, amongst others.

I would also like to thank the following departing board members **Carlos Torres-Verdín**, **Fransiska Goenawan**, **Songhua Chen**, **Robin Slocombe**, and **Bruno Menchio**. You all did amazing work, and I am sure that we will see you again in other board positions in the near future.

I am writing this column, having just returned to Wales after the SPWLA Annual Symposium. It was great to catch up with old friends (and work colleagues!) after a three-year hiatus, make some new friends, and just have a good time. In previous in-person symposia, I usually spend time at my company’s booth and attend talks that interested me (typically borehole imaging, acoustics, geomechanics, and machine learning). This year, I did not stop moving. I attended two workshops over the weekend (on subjects mentioned above!), attended—and spoke at—three luncheons, attended all three evening social events, and still made it for the speaker breakfast at 6:30 am! I really enjoyed co-chairing Session 21 with the wonderful Shelby Plitzuweit and an impromptu “Closing Remarks,” where we announced the location of the 2023 SPWLA Symposium. For those of you who do not know, the 2023 SPWLA Symposium will be held at **Margaritaville** in **Lake Conroe, TX**, on **June 10–14, 2023**, and will be hosted by the Houston Chapter. From previous experience, it has an excellent golf course. Should we consider organizing a golf tournament as part of the symposium? Here is an ariel view of the 2023 symposium headquarters:



Special thanks must go to Organizing Chairperson, **Mathias Horstmann**, and the Organizing Committee for putting on such a great event and to VP Technology, **Carlos Torres-Verdín**, and his deputy, **Iulian Hulea**, for arranging a superb technical program. Iulian has been elected to VP Technology for 2022–23 and is already looking to build on the work Carlos started with the Special Sessions.

I am excited to introduce the SPWLA 2022–23 Board of Directors. As usual, a mix of returning officers and directors and those that were recently elected. I am so happy to have **Jennifer Market** as President Elect. She will make an excellent parliamentarian and future president. In addition to Jennifer and Iulian, we welcome **Kelly Skuce** (VP Education), **Steph Perry** (VP Publications), **Javier Miranda** (RD North America I), and **Jennifer Duarte** (RD Middle East and Africa). **Nelson Suarez** is the new Regional

From the President

Director for Latin America, having completed his two-year term as Regional Director for the Middle East and Africa. Returning for second-year terms are **Adam Haecker** (VP Finance, Secretary, and Admin), **Harry Xiu** (VP Information Technology), **Mathilde Luycx** (VP Social Media), **Eva Gerick** (RD Europe), **Matthew Blyth** (RD North America II), and **Ryan Lafferty** (RD Asia Pacific/Australasia).

Below is a photo of some of the board members and Executive Director, Sharon Johnson, following a quick get-together after the symposium finished.



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

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

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

Finally, SPWLA is diverse and inclusive. We are committed to changing attitudes and encouraging participation from diverse communities. How we achieve that is open for discussion. If you have any ideas or would like to get involved, please email me at the address below.

I wish to close this column with a few words of thanks. First, to the company I work for, Geoactive Ltd, and its Managing Director, **Derek Crombie**, who has been so supportive of me throughout the years, and also to my family: **Jules and Victoria**.

Ry'n ni yma o hyd! / We're still here!

Kind regards
Tegwyn JP Perkins
+1 (713) 670-4976
President 2022–2023
President@spwla.org

From the Editor



Stephanie Ellen Perry
2022–2023
Vice President Publications

What an exciting and adventurous time to transition into the role of VP Publications for the SPWLA organization. First and foremost, a heartfelt thank you to Dr. Songhua Chen for his continued years of service to the organization and particularly for the impact and legacy he is leaving as the previous VP. I am truly humbled to be attempting to follow in his footsteps and will try my best to rise to the occasion and meet expectations.

As the first newsletter I get to contribute to, I cannot speak highly enough of the recently attended SPWLA 63rd Annual Symposium in Stavanger, Norway. The welcoming from the city, the people, the venue site, and all of the affiliation representation was truly a sign of the strong health of the community. The technical content delivered in all aspects across a broad range of topics. As we all strive to progress and expand the breadth and depth in our skill sets, we hope the symposium proceedings offered insights and a knowledge-sharing platform for those who participated and those with us in spirit from abroad.

As we reflect on the year to date, we want to thank all of the dedicated volunteers related to the publications that we all enjoy in our lives. In this newsletter, we hope you find some notes to reflect on and articles that spark questions. We encourage you to reach out to colleagues to discuss. We also encourage you to step forward and offer feedback and ideas. There is always an opportunity to contribute, so please don't ever hesitate to contact us and have a discussion.

I look forward to serving the community in all of my capacity. I'm exceptionally thankful for the opportunity and am actively seeking and creating opportunity space for you all as colleagues through the remaining half of the 2022 year. So, with that, thank you again for your contributions and for taking the time to enjoy the July newsletter.

All my sincerest regards,
Stephanie Ellen Perry
Vice President Publications



Jennifer Market
2022–2023 President Elect

Hello and welcome to my first column as President Elect. It is an honor to be able to serve the society, and I greatly look forward to the next 2 years. I'd like to thank the many people in this great society who have worked with and supported me through the years and to thank Epiroc for supporting the SPWLA (and learning what "petrophysics" is all about).

We've just finished a splendid symposium in Stavanger, and to those of you who could attend, it was great to see you! For those who could only participate online or who will be taking advantage of the many great-quality papers we had, we missed you and hope to see you next year in Lake Conroe. Please be thinking of your paper topics for the next symposium—the call for abstracts is only a few weeks away.

We've heard from several chapters interested in hosting the 2024 and 2025 symposia. (Hint: think cool and wet or hot and sunny... or possibly hot and wet.) For all other chapters, please contact me at President-Elect@spwla.org to discuss (it is one of the official duties of the President Elect to organize the bids for the future conferences). We will shortly send information packets out to those interested in hosting our next symposium.

As many of you know, I moved to the mineral logging (mining) community just before the plague and have been making some headway in involving those in the mining community (who largely call themselves geophysicists or geologists but actually do petrophysics whether they know it by that name or not). Our society would benefit greatly from new ideas and techniques by expanding petrophysics further into other industries such as alternative energy and mining. The recently formed Alternative Subsurface-Energy Transition SIG embraces this idea of expanding the SPWLA to nontraditional industries.

The 2022–2023 year will see a renewed focus on the SIGs and expanding their place in the society. We have several upcoming meetings, such as the **Acoustics SIG** Fall workshop, "The Road Ahead," in Houston on September 2, 2022, and the **NMR SIG** Conference on October 6–7, 2022 in Houston. Look for announcements on the website and here in *SPWLA Today* announcing future meetings. And remember to invite your colleagues. The SIG meetings are open to non-SPWLA members (though, of course, we hope that SIG meetings will inspire people to become members) and, like our local chapter meetings, are a great way to get new people involved.

I hope everyone is looking forward to a great year of petrophysics in these interesting times.

Best wishes,

A handwritten signature in black ink that reads "Jennifer Market". The signature is written in a cursive, flowing style.

Jennifer Market
SPWLA President Elect
+61 417 598 269
President-Elect@spwla.org



Iulian N. Hulea
2022–2023 Vice President
Technology

ONE SPWLA in Houston!

Let me start this column with a *THANK YOU* to our remarkable SPWLA membership for electing me as VP Technology for the 2022–2023 term. It is an honor and pleasure to serve the SPWLA in this volunteer role, and I remain grateful for putting your trust in me. The main task for the VP Technology has traditionally been to organize the SPWLA Annual Symposium, a task that cannot be completed without the active participation of our members – YOU! Thanks to my colleague and friend, Prof. Carlos Torres-Verdín, the annual symposium planning has already been set in motion.

I would like to take this opportunity to heartily thank Prof. Carlos Torres-Verdín for doing such a remarkable job as VP Technology for 2021–2022. The tremendous success of Stavanger 2022 is a testimony of what this organization can achieve under the right leadership.

Additionally, you may recall that the election for VP Technology earlier this year came very close between myself and my colleague Robert H. (Bob) Gales (Haliburton). Just as I did with Prof. Carlos Torres-Verdín one year ago, Bob has agreed to serve with me as joint technical chairs of

the 2023 Symposium. Bob brings a wealth of experience and direct contact with the Houston organization that is going to be our host next year. *Bob and I will be your two-person team to get the best for our members when it comes to the 2023 SPWLA Symposium!*

Our intentions are to continue our work on improving the following areas:

- 1) Special organized technical sessions. These are sessions that proved successful in Stavanger. They are championed by two-person teams who will oversee and motivate potential authors to present their work on relevant contemporary subjects. An announcement will be made shortly soliciting proposals for special organized sessions. Stay tuned!
- 2) Parallel technical sessions. There is a trade-off between having posters that do not receive the desired level of attention vs. special treatment for a handful (low number) of (oral) contributions. We would like to hear what you think of the pros and cons.
- 3) The abstract submissions. The addition of a graphic combined with larger text will provide an objective, equitable, and transparent forum for authors to describe their technical contribution proposals. Objective grading by members of the SPWLA Technology Committee is facilitated in this way.
- 4) Concerning that last point, Bob and I will soon be composing the new SPWLA Technology Committee. In so doing, we will attempt to represent all sectors of our professional society, reaching widely and equitably across gender, race, age, geographical locations, academia, and operating and service companies. Should you have any idea about how to work on the above, please remember we are just one email away.

As an SPWLA Board member, I will continue to make strong efforts for diversity, equity, and inclusion in all activities we do and all the decisions we make. Let us together make the 2023 SPWLA Annual Symposium a smashing success to showcase the great technical diversity, depth, and creativity across our beloved SPWLA!

Sincerely,
Iulian N. Hulea, Shell
Vice President Technology

Your proud co-leadership team for the 2023 SPWLA Annual Symposium!



Iulian N. Hulea, Shell



Robert H. (Bob) Gales



Kelly Skuce
2022-2024 Vice President
Education

Hello SPWLA Colleagues,

I am very eager and scared to start out as the new VP Education for the SPWLA 2022-2024 Board of Directors. I have to give thanks to the previous VPs of Education in Fransiska Goenewan and Katerina Yared. They have set a very high bar of achievement and expectation for this position. With your help, I hope to be able to do as well as they both did when they were in this position. The global pandemic shifted everyone online, which caused a lot of webinars to be booked, and the VP Education role expanded to fill this role. Hopefully, with an expanded group of assistants throughout the globe, we can accommodate the number of webinars hosted by the SPWLA.

The first thing I would like to do as the VP Education is to congratulate all our International Student Paper Competition winners from this year's symposium in Stavanger.

INTERNATIONAL STUDENT PAPER CONTEST
#SPWLA2022 #ISPC
ISPC WINNERS!!

UNDERGRAD

Dailyn Sarai Badillo UIS - Colombia	Teresa Mourão Cerqueira e Silva Sarah Beatriz de Oliveira Aleixo UFRJ - Brazil		Bushra Mohsin IGUP - Pakistan

1st, 2nd, 3rd place medals

INTERNATIONAL STUDENT PAPER CONTEST
#SPWLA2022 #ISPC
ISPC WINNERS!!

MASTER

Judah Odiachi University of Oklahoma - USA	Maria Fernanda González G. University of Iceland - Iceland	Jose Augusto Benavides Arancibia University of Houston - USA

1st, 2nd, 3rd place medals

INTERNATIONAL STUDENT PAPER CONTEST
#SPWLA2022 #ISPC
ISPC WINNERS!!

DOCTORATE

Felipe Cruz University of Oklahoma - USA	Sidi Mamoudou University of Oklahoma - USA	Jerjes Porlles University of North Dakota - USA

1st, 2nd, 3rd place medals

If you haven't seen the posts from our SPWLA social media channels, I am presenting them all here. It is great to see so many students represented from across the globe in our winners. I hope to see some presentations from our medal winners from this year's group of ISPC students in our new Student Webinar series.

The list of Distinguished and Global Distinguished Speakers has not yet been published, and I will start highlighting them in this column and on SPWLA social media very soon.

Learning Opportunities

The SPWLA has several events upcoming in the fall. First, we have the **Acoustics SIG Fall Workshop** on September 2, 2022. The venue is still TBD, but it will be in Houston. Hopefully, you got your abstract in on time, as the deadline was June 30. Check out the Acoustics SIG webpage for more details.

Secondly, there will also be an **NMR SIG Conference** on October 6–7, 2022, at the Halliburton Campus in Houston. The submission deadline is July 31, 2022, so don't miss out. Check out the NMR SIG webpage for full details, or use the QR code you see here.

There will be more courses from the SPWLA starting again in the fall. Some are scheduled already, and others need confirmation and scheduling.



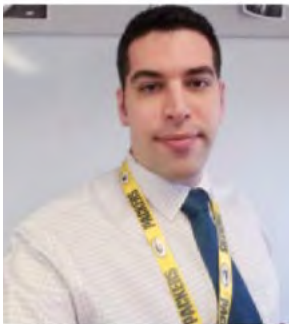
Practical Geomechanics	Tom Bratton, PhD	FALL 2022
Petrophysical Multimineral Analysis	Patricia E. Rodrigues, PhD	OCT 25–26
NMR Data Fundamental	Brian Stambaugh	FALL 2022
NMR Data Intermediate and Advanced Interpretation	Brian Stambaugh	FALL 2022
Practical Seismic Petrophysics	Tad Smith and Matt Blyth	FALL 2022
Cased hole Petrophysics	Ahmed Badruzzaman and Dale Fitz	FALL 2022
Acoustic Class	Adam Donald and Matt Blyth	SEP 13–15
Cement Bond Log Analysis	Gary Frisch	FALL 2022

We are also looking at offering a Petrophysics 101 course from myself and perhaps others. Let me know what you think at vp-education@spwla.org.

Finally, I want to thank all the SPWLA members who voted for me to gain this position on the Board, and I hope to make you all proud over the next 2 years.

Keep on learning,

Kelly Skuce
VP Education



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

Hello Intrepid Petrophysicists,

We have just had an excellent symposium in Stavanger. I was glad to see all of you there who attended. I especially had fun at the many social outings that were sponsored for the society by Baker Hughes, Halliburton, and Schlumberger. As you can see, I found out I am terrible at archery, although I did hit the plastic pig eventually. Also, Robin Slocombe hit the target with the ax on his first try. He has been hiding his ax-throwing talents from us.

I am pleased to announce the symposium had **427 attendees**. This should hopefully put us in the black for the year, but we are still tallying all the income and expenses. More to come in the next issue.

Now for those of you who missed the Annual Business Meeting (not many came this year because the room was rather small), here is how the society is doing:

- Current assets = \$1.8 million
- Current liabilities = \$397K
- Net Assets = 1.412 million
- Total employee compensation = \$204K
- Gain/loss for FY 2021-2022 = **-\$60K**
- Cash on hand change from when I started to before symposium = **+\$53K**

If this is confusing, it is because we use accrual accounting, so our financial statements are always backward-looking for about 1 year. We have to apply symposium profits from Stavanger to next year. So, even though we are gaining money, it does not show up on financial statements yet. I would much prefer to make money and not have it as yet accounted for, then show a profit on the books but actually be losing money. I hope everyone had a pleasant experience in Stavanger. For those thinking this looks like fun, please consider joining us next year in Conroe or at our upcoming Fall Topical Conference or SPWLA local chapter social events.



I'm terrible at archery.



Robin Slocombe has hidden his ax-throwing talents from us.

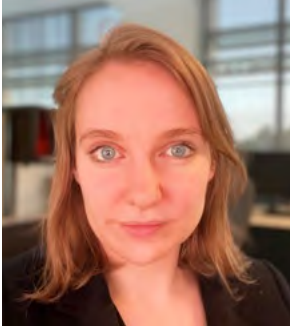


A picture from the Annual Business Meeting.

Some funny signs in Stavanger. I hear from the locals that the food at Shit is quite good. 😊



Adam Haecker
Vice President Finance, Secretary, and Administration
VP-Finance@spwla.org



Mathilde Luycx
2021-2023 VP Social Media

Following SPWLA’s annual symposium in Stavanger, Norway, this is our first newsletter with the 2022-2023 Board of Directors. Today’s newsletter is all about #spwla2022!

#spwla2022, The Social Media Lens!

#spwla2022 was **THE** event of the year for SPWLA members. The numbers speak for themselves since the symposium generated a massive increase in social media engagement, as is the case every year: +200% engagement on LinkedIn with hundreds of comments from attendees, members, and formation evaluation enthusiasts and +170% activity on our still-young Instagram page!

The symposium started over the weekend of June 11 with the International Paper Contest (#ispc), the “excellent,” “five-stars,” “well-organized,” “interesting,” “insightful,” and “successful” (your words!) workshops, and field trip!

#spwla2022 Workshops



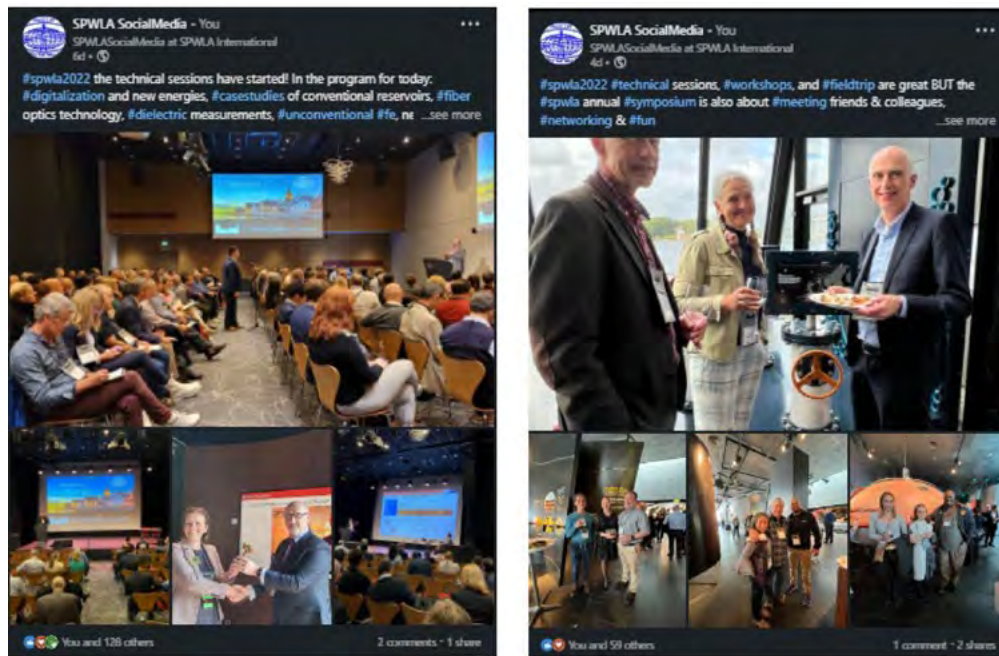
THE FEED

The International Student Paper Contest was keenly followed by SPWLA student chapters and members worldwide and generated a lot of excitement, posts, and reposts! The competition was fierce, and the FE community warmly congratulated the winners and participants!

#spwla2022 International Student Paper Contest

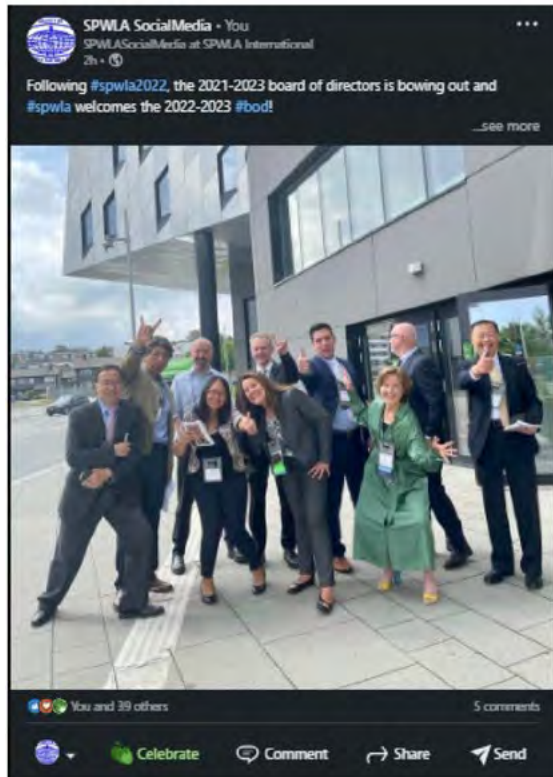


Technical sessions were kicked off on Monday, June 13, with a full room and were followed each day by sponsored evening socials to meet friends and colleagues around a drink.



THE FEED

Finally, the symposium was also the occasion to celebrate SPWLA members' accomplishments. The awards ceremony honored the Gold Medal, Technical, Young Professional, and Service Awards recipients and also celebrated the Distinguished Speakers and board volunteers.



I look forward to continuing to serve the SPWLA for the year ahead! Note that the SoMed committee is looking for volunteers for 2022–2023. Reach out to me at VP-SocialMedia@spwla.org if interested.

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Vice President Social Media
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VP-SocialMedia@spwla.org



Regional Understandings—North America 1



Javier Miranda
2022–2024 North America 1
Regional Director

I want to start the first column of my two-year term by thanking all members who voted for me. Your support is the best way to acknowledge all that we have done so far for our society and what we plan to do, as this is just the beginning. The sky is the limit! I also want to thank my team on the Houston Chapter board. Your **collaboration** was key to our advance on several fronts, especially during the pandemic, not only in our chapter but also in the student chapters in Texas. I acknowledge my predecessor, Robin Slocombe, who helped our chapter and region over the last couple of years. My sincere gratitude to Fransiska Goenawan for all her collaboration and patience during my tenure as chapter president. We could not have achieved what we did in our technical webinars without her, especially between March 2020–June 2021, when COVID reached its peak, forcing us to go online to continue several activities. It was actually a great opportunity to open our seminars to everyone, with members from all over the world attending.

Thanks to all the speakers at our seminars and companies that sponsored the Houston Chapter activities during my tenure. We had a couple of years of full collaboration and a good example of what local chapters can achieve with companies in the area. Finally, I want to thank DeGolyer and MacNaughton leadership and colleagues for supporting my SPWLA involvement.

I am happy to hear that the SPWLA Annual Symposium in Stavanger, after almost 2 years of online **conferences and seminars in all professional societies**, had a strong technical program full of a wide variety of formation evaluation topics. Unfortunately, I had to cancel my attendance at the last minute for reasons I could not control (my visa arrived on Tuesday, June 14 😞, so perhaps I would have only reached the Gun n' Roses concert. Not sure my employer would accept that 😊).

I look forward to continuing our partnership to expand professional and student chapter activities in my region and beyond, especially with the annual symposium happening in Margaritaville, Texas, on June 10–14, 2023. Please look at our promotional video in the link below if you have not. Elliott, my 14-year-old son, helped me prepare it:

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

I am pretty sure we will have an excellent technical program ready for you with Lulian and Bob's guidance and our Technology Committee, of course.

The lack of interest and low attendance to in-person events was my main challenge in the Houston Chapter, even until a couple of weeks ago. Several members are still reluctant to join us (COVID? Working remotely? Too busy with a lower headcount in companies?). Some others retired, and others changed careers within or out of oil/gas. Some important chapters, such as Dallas, went dormant, etc. Please let me know how we can change that and see more participation and events such as the one shown in the picture below (March 2022), when five former SPWLA International presidents attended. Katerina Yared, SPWLA International President 2021–2022, is an excellent example of how you can continue contributing to local chapters, even after being President (she will be VP Technology in the Denver Chapter). Jesus Salazar, Zach Liu, Luis Quintero, and David Kennedy also participate in local chapter activities or are actively involved via SIGs. We want to **increase** attendance numbers in our local chapters. Remember, they are the foundation of our society!

I plan to continue collaborating with local chapters to support their initiatives, as well as those companies and members who want to keep participating in our activities. Feel free to reach me at my official email address below for any recommendations, ideas, questions, etc.

My best wishes to all our members in the 2022–23 season!

Javier Miranda
North America 1 Director
Director-NA1@spwla.org



Regional Understandings–North America 2



Matt Blyth
2021–2023 North America 2
Regional Director

Most chapters in the NA2 region are now starting their summer break period, with chapter activities resuming again in the fall. The Denver Chapter recently conducted their last speaker event of the season, with a great attendance of 30 people, which I hope is a sign of how things will go in the future. I would like to thank Yulia Faulkner for all her hard work over her extended service as President of the Denver Chapter, and I would like to welcome Tamara Maxwell as the new chapter President! Additionally, our very own Katerina Yared will be the new Denver Chapter VP Technology now that her term as SPWLA President has ended.

There has also been a board change at the OU Student Chapter. Many thanks are due to Blessed, Carlos, Laura, and Rishabh for all the amazing work they have done for the chapter and to welcome David and his new board shown below. I look forward to working with you over the next year and hope you can continue the great work of the board. When chapter activities start again, our Permian Chapter will be conducting an Unconventional Learning Symposium in partnership with student chapters in the US, Argentina, and Colombia. Stay tuned for further details!

Lastly, I have just returned from a very successful Annual Symposium in Stavanger, Norway. This was our first in-person symposium since 2019, and it was great to see a lot of new and familiar faces again. Thanks to those who attended, presented, and helped make this event a success.

Thanks are also due to our sponsors, and a very big thanks to all the members of the symposium organizing committee who put in many, many hours of planning and organizing to bring everything together!

NEW OU Student Chapter Board 2022/23!



Daniel Ferreira, President
PE Sophomore



Yuan Fang, Vice President
PE Master's Student



Rishabh Pandey, Secretary
PE Master's Student



Blessed Amoah, Treasurer
PE Master's Student

Matt Blyth
NA2 Regional Director
Director-NA2@spwla.org



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

Dear Petrophysicists and Colleagues,

This is my first time writing to you as your Latin America Regional Director. I am so happy that you elected me for this position, as it will be 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 received an MSc degree 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, Africa, and India. I am just returning to this region after 13 years of working in the Middle East, so I have a smile on my face to be able to work with you and speak Castellano as well.

Colombia, you are considered brothers to me and always in my heart. La Argentina, a marvelous country and people, is a place where some of you may know me since I have been silently attending your local chapter events while I was living in Dubai. At the moment, I am learning Portuguese, so I am looking forward to proficient communication with our Brazilian members (help here, please!).

It seems like there is a lot happening in the second half of the year. I remain hopeful that everything industry-related will progress and get better soon and that the pandemic continues to get better and better to live and work in.

For our chapters in Colombia, Brazil, and Argentina, I look forward to seeing and connecting with some of you in person or virtually at regional meetings or local SPWLA events. Regarding the regional meeting, we can create that easily (*Any chapter wants to volunteer for this?* Let's start creating a regional technical committee ASAP).

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

Thanks / Gracias / Atenciosamente,

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

Regional Understandings–Europe



Eva Gerick
2021–2023 Europe
Regional Director

Dear SPWLA Community,

What a blast! SPWLA 2022 in Stavanger is still resonating on my LinkedIn and in my emails, and I absolutely loved it. Packed with excellent talks and wonderful colleagues, it was full of excitement, technical curiosity, meeting old friends, and getting to know new colleagues.

And the Europe chapters were an essential part of it. Our members co-hosted workshops, chaired sessions, and received awards: 5 out of 12 Distinguished Speakers and 3 out of 9 Global Distinguished Speakers were from Europe.

Adding Best Paper Presentation and Outstanding Professional Chapter Award (with NFES, see below), Europe can be very

pleased with its fruitful and successful year 2021/22!

Congratulations to all awardees for your outstanding contributions! And I hope to see everybody again next year in Margaritaville, Texas!



All the best,

Eva

Europe Regional Director

Director-Europe@spwla.org



Jennifer Duarte
2022–2024
Middle East/Africa
Regional Director

Dear SPWLA Society,

This is my first column as the new Middle East/Africa Regional Director, and I'm thrilled to be able to use this channel to communicate with you!

First, I want to thank you for trusting and casting your vote during the 2022 election. My recognition goes to all who participated in this election, and congratulations to the new board members who were elected, as well as to those who are entering their second term. I feel deeply honored to be part of a great team of leaders who are making a difference by volunteering their time and continuing to make the best of this great society. I would also like to take this opportunity to express my thanks to my predecessor, Nelson Suarez (Roccia Energy), for the fantastic work he did over the past 2 years.

This past June, I was able to attend the 63rd SPWLA Annual Symposium in Stavanger. It felt so great to interact with so many colleagues in the industry and meet new faces from so many countries. The symposium was well organized by the Norwegian Formation Evaluation Society (NFES) with a great technical program that brought together the global SPWLA community in the energy capital of Norway. The technical program focused on surface logging, formation evaluation in conventional reservoirs, unconventional resources, and complex carbonates. The program also had a technical session that focused on formation evaluation for CCUS and energy transition, among other topics of interest.

While the main focus of the symposium has always been the technical part, it is also the social interaction that added so much value to the event. It gave me the opportunity to meet face to face and discuss with members of the Middle East chapters. I was also able to meet some of the new SPWLA Board of Directors during the event and had our first "Meet and Greet" board meeting after the symposium ended. The 2023 SPWLA Symposium will be held in beautiful Lake Conroe, Texas (June 10–14, 2023). Don't forget to save the date!

Finally, I look forward to working together with all the Middle East and Africa chapter officers and promoting collaboration in the region for the next 2 years. I also plan to engage more with universities in the region and reach out to them to become more involved with their local or student chapters. Please feel free to get in touch if you have any comments or suggestions.

Best Regards,
Jennifer Duarte
SPWLA Middle East/Africa

July 2022

2022 Steering
Committee

Editors

Ishank Gupta

Kanay Jerath

Javier Miranda

Clara Palencia

Senior Editor

Nelson Suarez Arcano

SPWLAYP@SPWLA.ORG

In this edition:

The Role of Academia
in the Energy Transition

Crossword Puzzle

Haiku

The Role of Academia in the Energy Transition

by Clara Palencia



Clara Palencia

Collaboration between the energy industry and academia is currently more critical than ever. The greatest challenge of the 21st century is providing clean, plentiful, reliable, affordable energy while ensuring sustainable growth and development for humanity. As we now know, it is not an easy task, and compromise has to be made in many areas. A holistic energy system with cross-disciplinary elements is needed to meet this challenge.

It is paramount that our society needs practical research, innovation, and young professionals with new smart ideas to break down conventional thinking and create new expertise.

Universities play a critical role in this challenge because, in the educational environment, there are cross-disciplinary elements, including the development of new knowledge, new understanding, and new insights. Universities must provide a nonbiased environment for exploring and developing new ideas by combining expertise from different disciplines, including engineering, natural and social sciences, and humanities. These collaborative and interrelated disciplines provide the background for students to understand how their skills, ideas, and passions fit into society's necessities. Social challenges are prevalent, and all generations need to work as one entity to overcome educational, political, economic, and cultural barriers, using their particular advantages to find a sustainable solution in time.



Image: World Economic Forum / CC BY-NC-ND



Image: barnyz / CC BY-NC-ND

Based on the motivation of tackling this topic, we invited four professors from different countries (red dots on the map):

1. **Dr. Lori Hathon** has 7 years of experience with the Petroleum Engineering Department at the University of Houston and 24 years in the industry.
2. **Professor Nicolas Carrizo**, from the Universidad Nacional de Comahue, Argentina, is a geologist and petrophysicist working for YPF since 2007.
3. **Professor Kristiane Fjaer Lindland**, a social scientist, does research on innovation, sustainability, and social justice for the Department of Media and Social Sciences, University of Stavanger.
4. **Professor Mohammad Mansouri** is a chemical engineer with BSc and MSc degrees in chemical engineering from Sharif University of Technology and a PhD in energy systems engineering from the University of Stavanger, Norway. He is currently involved in different projects in the context of risk assessment for high-temperature geothermal and oil and gas applications.



We highly appreciate their positive response to collaborating for this interview and their passion for helping the new generation get the right tools for entering the market and adding as much value as possible.

1. Our society is facing new challenges in terms of energy requirements. Do you think the current academia model needs a transition towards a more effective and collaborative environment?

L. Hathon: Yes, I do think that we need a more collaborative environment within academia. Each department makes money by teaching its own courses and competing with other departments for the available pool of grant money. For example, in the Engineering College, we teach engineering mathematics. Why is this not taught in the Mathematics Department? Because then the tuition monies for the course would go to Mathematics and not Engineering. Further, even within departments, there is very little collegiality because of the competition for funding and the amount of grant money that needs to be raised in order to get tenure.

N. Carrizo: Like in every aspect of life, we must try to make a more effective and collaborative environment, and academia shouldn't be an exception. As I see it, the academia model should be under a continuous process of adaptation and improvement to ensure that students have the best educational level possible, emphasizing responsibility, logical reasoning, creativity, and guaranteeing education and research as the main objective.

M. Mansouri: The answer is clear, YES. We are facing different global challenges (perhaps more frequently than, for example, 100 years ago), which are multidisciplinary with implications on other sectors and various stakeholders (ranging from industry, government, citizens, etc.). Therefore, solutions to fit them should also be a multidisciplinary perspective from which we could expect a successful implementation and deployment. We have been trying that in the research institutes sector in Norway (that is, by the way, characterized as a bridge between academia and the industry). I think one of the main drivers for taking such cross- and multidisciplinary approaches was (and still is) the funding agencies. For example, the European Union (through different RD&D and innovation programs) has highlighted the need to include different perspectives and engagement from different disciplines. Because of this demand and the multidisciplinary nature of our domain areas (for example, I am active in the field of energy systems integration), we have been collaborating with our colleagues in the environmental engineering/sciences, as well as those who are active in the social sciences.

K. Lindland: Yes, the challenges we face related to realizing the green transformation demand the efforts of many different research areas to develop solutions that take both technological, political, social, environmental, and cultural aspects into consideration. Although this sounds very logical and feasible, experience has shown us that this is difficult in practice. The problem is that the different disciplines often talk past one another due to very different understandings of reality, terminologies, and problem understanding. In order to not just improve the willingness to collaborate across disciplinary boundaries but also develop a more holistic understanding of the challenges, all the discipline areas need to have at least a minimum understanding of the other disciplines, making them better able to see challenges and possible solutions from different angles.

2. Is it time for the education model to change? How do you foresee the university model and role in the future in order to explore and develop new ideas? Is it dependent on social and financial variables? Would those models be different in Latin America, the US, Europe, the Middle East, and Asia?

L. Hathon: With respect to the US, however, the funding of public universities does need to change. Forty years ago, 60% of the funding for state universities in the US came from the state, 20% from student fees, and 20% from grants. Now, the balance of the budget is reversed, with 60% of the funding for state universities coming from student fees and only 20% from the state, with the proportion from grants remaining relatively stable. This has caused a large increase in student debt and has also limited who can reasonably attend college in the US. Further, there is very little reward for collaboration among universities.

N. Carrizo: Nowadays, we have worldwide multiple educational models adapted to the regional necessities, but usually, they have specific timetables that students must follow. It would be very beneficial if we promote the virtuality to adapt the educational system's schedule to each person's time availability. There is an economic variable in the educational system, but through online universities, specializations, specific courses, talks, and many virtual activities offered, we are spreading knowledge all over the world. The educational model should be adapted to society's regional needs and idiosyncrasies.

M. Mansouri: To explore and develop new ideas, I think the education model should change, but I do not have a clear solution to offer. Moreover, I know a little about the Norwegian higher education system and certainly not so much about the models used in other regions of the world. A problem with the current model is that the common (classical) educational programs do not target existing challenges (at different scales, i.e., local/national/global and towards different target groups like industry or society). This can have a consequence, which might be a lack of relevance even if there are some ideas. On the contrary, challenge-based learning programs can educate more relevant people about today's challenges. In addition to providing a foundation for more creativity, new ideas need to be supported, protected, commercialized, and implemented. So, universities certainly need to move towards being environments that are more suitable for innovation. To do so, there should be more and more attention to Technology Transfer Offices (TTOs), incubators, accelerators, and so on to support students and academic personnel throughout the commercialization and implementation of ideas (you may refer to <https://valide.no/en> as an example for further information).

K. Lindland: Yes, there must be more cross-disciplinary courses at the higher level of education. However, students still need to develop a sound disciplinary basis in their own discipline. They also must work more cross-disciplinary through their studies in order to make the studies more relevant to the reality they will meet in their work life.

3. What do you think is the most important challenge that universities are facing today?

L. Hathon: Universities, like most other institutions in the US, have fallen prey to the political division tearing the country apart. The left says that oil and gas should not contribute research funds to universities because they are "buying" the results they want from academics. Not true. Research is research. The results you get are the results you get, independent of who gave you the money for the study. The right says universities are poisoning students with left-leaning ideas like Critical Race Theory and usurping students' rights to free speech. Again, this is not true, but it's a great selling point to the political base and stokes fear and anger at the "intellectual elites." For these reasons, I don't see the education system in the US returning to a funding model in which state taxes are used to fund public higher education more fully, and that is what is really needed. We also need a fairer playing field for obtaining government funding for research. NSF, the DOE, and other funding agencies are very difficult to obtain funds from. There is a whole department at the university just to decipher the terms in the funding applications. The applications take months to put together. If your format is not exactly right (like you have too many pages in a particular section), your application is discarded by the funding agency. If you know someone at the funding agency, and admittedly this is true everywhere, you have a much higher likelihood of getting funded. If you have already received a grant, you are also much more likely to receive additional grants in the future. To perform the research required for the energy transition, universities need funding, and that funding should be widely distributed.

N. Carrizo: In the current world where everything changes very quickly, it is not easy for a student to visualize which profession would be the right one in 20 or 30 years. The decision to study any career involves a big decision considering all the time and effort that implies. I believe that the main challenge for universities is to be able to offer and promote the careers that society needs not only for the present but also for the future. Every global energy matrix projection indicates that the oil and gas industry will be the main part of the energy matrix for many decades more. So, academia should be responsible for preparing the best professionals possible to make a more efficient oil and gas industry. At the same time, it explores and incorporates the study of other energy sources to make possible the energy transition.

M. Mansouri: I do not think there is only one challenge that I can list as the most important one. I will list some of them.

- One of the challenges is due to unrealistic information about energy transition that is widely used often by politicians and, more specifically, during election periods. This has an immediate consequence on the number of applicants for educational programs in universities.
- Another challenge can be related to increasing pressure for bringing externally financed projects to reduce governmental support to the universities. This has both good and negative sides. For example, this pressure has resulted in more applied R&D projects in universities (which might result in a lower focus on fundamental and basic research projects). On the negative side, this might change the balance between the objectives of universities, which are educating students and performing basic research projects. In addition, this might result in unnecessary competition between universities and research institutes. Please note that we already have strong research institutes, and their main role is to perform applied R&D projects (but to some extent, basic research). Another adverse effect of this pressure is that there is not so much time left for educational activities and making them relevant to the industry. Also, I have observed that the universities invest a lot in administrative activities and personnel, while the growth and expansion of academic resources expand unevenly.

K. Lindland: Most people now realize that fossil energy sources need to be phased out. That is something that we cannot choose to ignore. This will have consequences for education within oil and gas. However, the competence used within oil and gas would probably also be useful in understanding how to realize the green shift.

4. What skills are young professionals bringing to the energy transition?

L. Hathon: Young professionals are certainly more computer savvy than the previous generation. The ability to code in Python or Julia, for example, can be very important. Data analytics is also a common tool deployed in all industries today, although some care must be taken to remember that correlation is not causation.

N. Carrizo: Young professionals are great interconnected and collaborative workers. They are very creative and great team workers. Big data and artificial intelligence at their service will allow them to make quick decisions strongly supported by large volumes of information.

M. Mansouri: I think instead of focusing on their skills that can be brought to the industry, we need to acknowledge that they are expected to have more free capacity, more energy, and higher adaptability that they can bring to the table. In addition, perhaps they have more awareness than the earlier generations with respect to global challenges. So, it is expected that they have a better sense of urgency about their surroundings (and its global challenges) so they can overcome showstoppers faster by thinking differently and working together. In my opinion, technical skills (like working with different software tools or using data-driven techniques in their daily activities) can be acquired by training in the industry (as is already happening). In contrast, soft skills and developing analytical capabilities require more education and time, and it is, of course, easier and faster to acquire during youth or even earlier.

K. Lindland: Young professionals have used technology from early childhood, enabling them to better imagine using digital solutions in new ways. I think young professionals are also more open to making radical changes when it comes to realizing the green transformation.

5. What other abilities and knowledge are required by energy professionals today to succeed and add value to the industry? Do you think the pensum for a Master of Science and Doctor of Philosophy needs a change?

L. Hathon: Subsurface expertise will remain critical during the energy transition and beyond. An understanding of subsurface systems is necessary in mining critical elements for battery or electrolysis technologies. Typical logging tools are used to characterize geothermal systems. Geomechanics, reservoir modeling, geophysical monitoring, etc., will be critical for implementing large-scale CO₂ sequestration and monitoring. Drilling and pipeline technologies will be critical to hydrogen storage and transport. Durable plastics, made from hydrocarbons, are a large component of wind turbine blades. The energy transition will require the continued use of all forms of energy, as well as the broad range of chemicals produced from hydrocarbons. Should degree programs change? I would make a thesis required in order to obtain a master’s degree. Course work is great, but the critical factor is learning to generate independent data and interpret it. That requires a thesis, and this is really the first place that a student is required to think about something rather than just memorize material. Further, the presentation and writing skills that a thesis requires are also critical for success in any industry. It would be nice to have degree programs that cross departmental lines. As it is now, each department must have a data analytics program within it. It is very difficult for geoscience to collaborate with petroleum engineering or civil engineering (where the environmental program resides). Because of the current model, funding silos are quite rigid, discouraging cross-departmental collaboration, which would certainly benefit the energy transition effort.

N. Carrizo: In this changing world, it is crucial to have adaptation and resilience abilities. Work in efficiency more than ever, as nature does. Regarding the pensum, I think it should be under constant review and adapted to society’s needs.

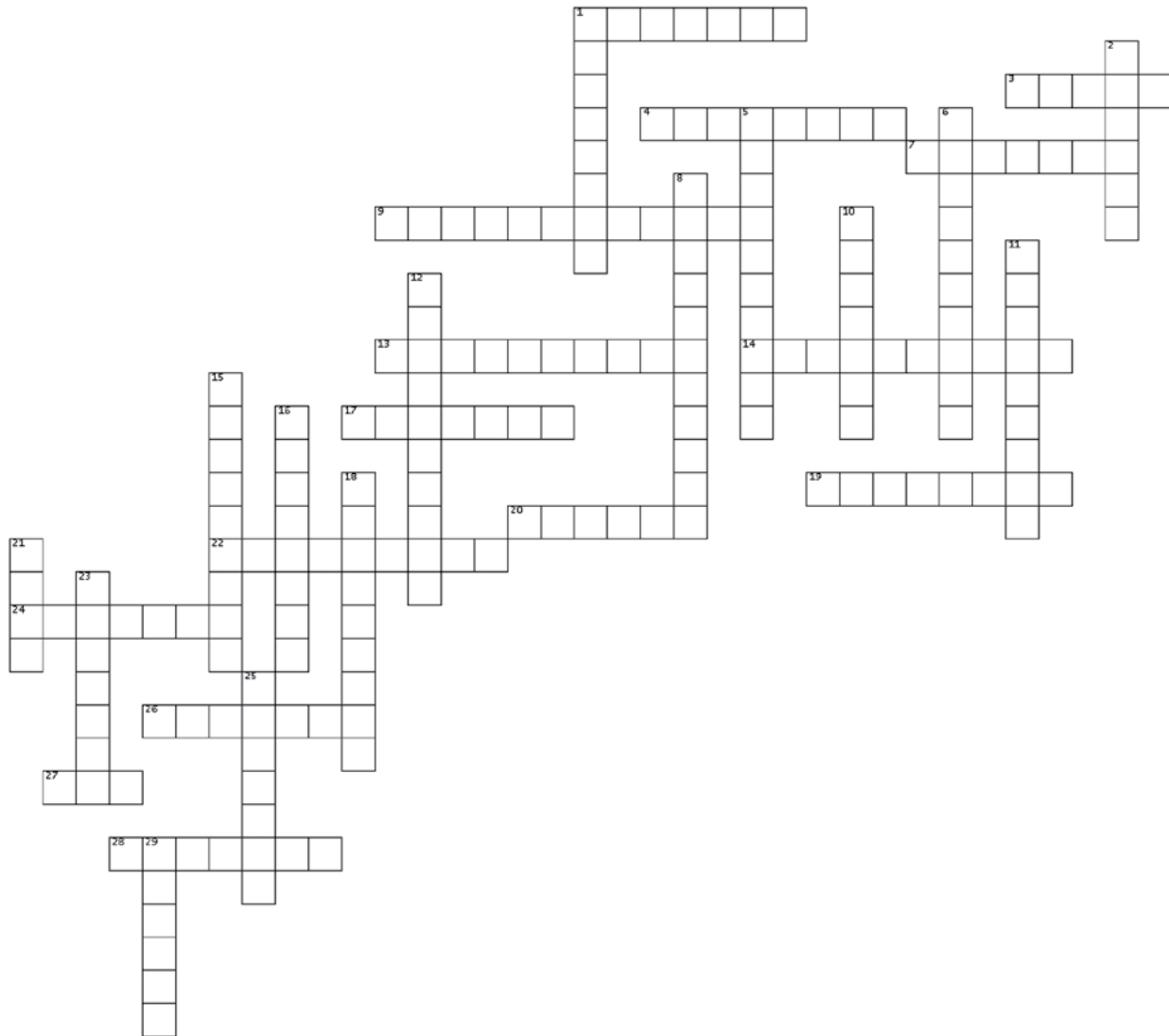
M. Mansouri: The most important ability is that the young energy professionals can adapt to continuously changing boundary conditions because of the nature of energy transition, geopolitical instabilities, political shifts, etc.). It means that they should be able to keep themselves and their knowledge base updated and be ready to apply their competencies in different applications. They should also hopefully have this attitude that the energy system and its challenges are so integrated that it requires cooperation across different disciplines and sectors. This attitude towards more cooperation, collaboration, co-creation of ideas, and implementation will speed up coordinated contributions to achieving global energy and climate goals (but also several other goals like profitability of their organization, etc.).

K. Lindland: Yes, of course, the comprehensiveness and multidimensional aspects of the green transformation will also need to be reflected at the master’s and PhD levels.

As a final comment, I want to highlight that although each country has different challenges to face in terms of the role of academia in the energy transition, in general, we share a fundamental belief:



CROSSWORD PUZZLE



ACROSS

1. A one-dimensional pulse, usually the basic response from a single reflector
3. Pertaining igneous rocks composed of minerals that are rich in iron and magnesium and typically dark in color
4. The motion of atoms and molecules in fluids due to the temperature of the fluid
7. An apparatus for cleaning core samples using the distillation extraction method
9. Subsurface pressure that is abnormally high exceeding hydrostatic pressure at a given depth
13. Pertaining to an environment of deposition in lakes
14. Two fluids that are incapable of making a homogenous mixture
17. Log-log plot of resistivity and porosity
19. A type of acoustic propagation along the borehole that is excited by a dipole source
20. An interval of log that has been recorded for a second time
22. A system for converting the measurements recorded by a wireline into a suitable form for transmission to the surface

- 24. A line on a map that represents a constant value of the parameter being mapped
- 26. Space between wellbore and casing
- 27. Vertical seismic profile
- 28. The relationship between voltage (V), electric current (I) and resistance (R)

DOWN

- 1. The repair or stimulation of an existing production well for the purpose of restoring, prolonging or enhancing the production of hydrocarbons
- 2. A cessation in deposition of sediments during which no strata form
- 5. A reservoir-drive mechanism whereby the oil is driven through the reservoir by an active aquifer
- 6. A measure of the geometric complexity of a porous medium
- 8. The pressure and temperature conditions at which the first bubble of gas comes out of solution in oil
- 10. Pertaining to an environment of deposition by a river or running water
- 11. A principle of physics stating that the product of pressure and volume divided by the temperature is a constant for an ideal gas
- 12. A green silicate mineral found in sedimentary rocks
- 15. A method for the measurement of fluid saturations in a core sample by distillation extraction
- 16. The ratio of effective permeability to phase viscosity
- 18. Related to techniques in which the same quantity is measured at different times in the life of a reservoir
- 21. A flow of formation fluids into the wellbore during drilling operations
- 23. Space between wellbore and casing
- 25. An exploration and production play type in which prospects exist below salt layers
- 29. A soft soluble evaporite mineral commonly known as salt

Petrophysical Haiku

DATA DENSITY,
RATE OF PENETRATION,
DEPENDS WHO YOU ASK...

Contact us: SPWLAYP@SPWLA.ORG

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



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



63rd SPWLA Annual Symposium

Stavanger, Norway, June 11–15, 2022



Great Days in Norway – Tusen takk Stavanger!

The 63rd Annual SPWLA Symposium of SPWLA took place June 11–15 in Stavanger.

It was a great pleasure for the Norwegian Formation Evaluation Society to serve as the host chapter and organizing body for this year's SPWLA Annual Symposium in Stavanger, Norway. The conference was a resounding success based on feedback from delegates, sponsors, and exhibitors. The total number of attendees who «came down from their clouds» was 485 this year, a great number after the years of pause.

Hosting so many members and friends of SPWLA in Scandinavia brought our global technical community close together in our friendly Norwegian energy capital. From the first day, it was obvious this was very much needed after these recent challenging years! Thanks for coming!



THE VENUE

Stavanger is known as Norway's energy capital and a world-renowned energy hub – the town is simply electric. The Clarion Hotel Energy was our main venue for SPWLA 2022, located at Stavanger Forum in the Madla area, just a few minutes from the center and old town. Our hotel is the largest conference hotel in Stavanger, opened just in 2014 – designed by Snøhetta, a world-renowned Norwegian architectural firm.

To start again with a “real” in-person venue, we in NFES chose with the SPWLA Board of Directors this hotel setup for

an intimate meeting, which we truly had in this stylish four-star conference hotel. The venue offered high-level facilities with services at a top-quality level, which made our stay comfortable and the conference engageable to all under one roof. Only a short distance from downtown and oldtown, Stavanger delegates could find numerous restaurants and pubs, shops, museums, and other offsite activities – altogether, it made SPWLA 2022 a memorable event!



WORKSHOPS

Actual and Forward-looking High-Quality Training Sessions

Eight full-day workshops with themes on in-situ advancements of our science of petrophysics, with very forward-looking topics, were held on Saturday and Sunday with great attendance. And most importantly, extremely good feedback was received as a testimony to the high-technical content and educational matter!

WORKSHOP 1: “Organic-Rich Shale Formation Evaluation”

Instructors: Adam Haecker (Battelle Memorial Institute), Paul Craddock (Schlumberger-Doll Research), and Z. Harry Xie (Core Laboratories)

WORKSHOP 2: “Machine Learning and Artificial Intelligence”

Instructors: Lalitha Venkataramanan (Schlumberger), Andy McDonald (Lloyd's Register), Vikas Jain (Schlumberger)

WORKSHOP 3: “Advanced Applications of Wireline Formation Testing”

Instructors: Shyam Ramaswami (Shell), Adriaan Gisolf

63rd SPWLA Annual Symposium

Stavanger, Norway, June 11–15, 2022

(Schlumberger), Thomas Pfeiffer (Shell), Sefer Coskun (Baker Hughes), and Dr. Dariusz Strapoc (Schlumberger)

WORKSHOP 4: “Steering and Mapping with Ultra-Deep Look-Around”

Instructors: Dr. Frank Antonsen (Equinor), Filippo Chinellato (ENI), Dr. Nigel Clegg (Halliburton), David Holbrough (Baker Hughes), Dr. Michael Rabinovitch (BP), and Dr. Carlos Torres-Verdín (University of Texas)

WORKSHOP 5: “Symposium Core Viewing Workshop”

Instructors: multiple experts from Stratum Reservoir, AkerBP, Equinor, and Lundin were present. Organized by Stefano Pruno (Stratum Reservoir)

WORKSHOP 6: “The Importance of Petrophysics in Resource Evaluation”

Instructors: Dr. Luis F Quintero (Halliburton) and Javier Miranda (DeGolyer and MacNaughton)

WORKSHOP 7: “Subsurface Sequestration and Storage”

Instructors: Katy Larson (Battelle Memorial Institute), Dr. Rodney Garrard (NAGRA), and Joachim Strobel (BGE)

WORKSHOP 8: “Introduction to Borehole Image Analysis”

Instructors: Bernd Ruehlicke (Eriksfiord Inc.), Bastian Roters (NiMBUC Geoscience), Susana Gutierrez Carrilero (Halliburton), Shim Yen Han (Yenny) (Schlumberger), and Chandramani Shrivastava (Schlumberger)



Core viewing.

FIELD TRIP

One-Day Field Trip To Norway’s First Granite Reservoir Analogue At Bømlo

SPWLA 2022 offered a one-day field trip to the weathered granite reservoir analogue in the Bømlo area North of Stavanger. A coach bus left Saturday morning with 35 excited participants from the Clarion Energy to the Bømlo field laboratory and outcrops. Dr. Eivind Bastesen (Ruden AS) was the main guide, supported by Jan Erik Lie, chief geophysicist, and Terje Kollien, chief petrophysicist, both with Lundin Energy, which generously sponsored this educational trip. They contributed to setting the Bømlo analogue into the Rolvsnes/Haugland High reservoir context from a geophysical, petrophysical, and production perspective. Fantastic times!



Workshop.



Workshop.



63rd SPWLA Annual Symposium

Stavanger, Norway, June 11–15, 2022



The 63rd SPWLA President Katerina Yared in the field, properly equipped with a Norske hat!

INTERNATIONAL STUDENT PAPER COMPETITION

This year, ISPC Committee received 41 abstract submissions from eight student chapters and universities. This is 60% more submissions compared to last year. The abstracts were reviewed anonymously.

The ISPC final round was held on Sunday, June 12, 2022, at Clarion Hotel Energy. In total, there were 17 students from three different categories invited to compete in the final round. The ISPC was a hybrid event, attended both in-person and virtually using GoToMeeting software.



ISPC WINNERS

3 rd Place	2 nd Place	1 st Place
	 	
Bushra Mohsin IGUP - Pakistan	Teresa Mourão Cerqueira e Silva Sarah Beatriz de Oliveira Aleixo UFRJ - Brazil	Dallyn Sarai Badillo UIS - Colombia

63rd SPWLA Annual Symposium

Stavanger, Norway, June 11–15, 2022

2022 SPWLA ISPC Winners

Masters

3rd Place



Jose Augusto Benavides Arancibia
University of Houston - USA

2nd Place



Maria Fernanda González G.
University of Iceland - Iceland

1st Place



Judah Odiachi
University of Oklahoma - USA

2022 ISPC Judges

FINAL ROUND – JUNE 10

Name	Affiliation
Bob Gales	Halliburton
Geoff Page	Baker Hughes
Jinhong Chen	Aramco Americas
Katerina Yared	SM Energy
Mark Ma	Saudi Aramco
Nelson Suarez	Reccia Energy
Yenkat Jambunathan	Halliburton
Yuki Maehara	Schlumberger

2022 SPWLA ISPC Winners

Doctorates

3rd Place



Jerjes Porlles
University of North Dakota – USA

2nd Place



SIDI MAMOUDOU
University of Oklahoma – USA

1st Place



Felipe Cruz
University of Oklahoma – USA

OPENING REMARKS AND SPECIAL GUEST SESSION

General Presiding Officer Mathias Horstmann, President of the Norwegian Formation Evaluation Society (NFES) and Chairman of the Symposium, called the meeting to order and made opening remarks about the journey to SPWLA 2022 in Stavanger. He outlined his team’s measure of success of this symposium as delegates having a great time with lots of fond memories of Norway and Stavanger. Mathias also introduced his committee briefly and outlined some of the outstanding achievements of the awarded Norwegian Formation Evaluation Society. Then, he shared some thoughts on the role and future of petrophysics and formation evaluation and the strategy of how the technology and host chapter committees built the technical program along these urgent topics. It was a great transition bridge to introduce and set the stage for the invited keynote speaker, Ms. Kristin Fejerskov Kragseth, CEO of Petoro.

The ISPC Committee would like to recognize all the judges who participated actively in the abstract selection and final round. Many thanks for all the effort.

2022 ISPC Judges

ABSTRACT SELECTION PROCESS

Judges ID	Initial	Name	Affiliation
J-1	AH	Adam Hsecker	Battelle
J-2	BG	Bob Gales	Halliburton
J-3	BM	Bruno Menchio	Menchio Petrofísica
J-4	CS	Chandramani Shrivastava	Schlumberger
J-5	GP	Geoff Page	Baker Hughes
J-6	JMI	Javier Miranda	D&M
J-7	JC	Jinhong Chen	Aramco Americas
J-8	KY	Katerina Yared	SM Energy
J-9	MM	Mark Ma	Saudi Aramco
J-10	NS	Nelson Suarez	Reccia Energy
J-11	VJ	Yenkat Jambunathan	Halliburton
J-12	WG	Weijun Guo	Halliburton
J-13	YM	Yuki Maehara	Schlumberger



63rd SPWLA Annual Symposium

Stavanger, Norway, June 11–15, 2022

With a very clear and thoughtful talk, Kristin shared her view on the role of the O&G industry in the ongoing energy transition – where Norway is leading the way in, at times, polarizing debates once more. Being in various executive roles, Kristin also touched on her leadership experiences and the chances a diverse, gender-balanced, and inclusive culture provides, helping to attract the best talents for the future energy industry. It was a fantastic talk, which clearly elevated the symposium with such a grand opening speech.



Kristin in her keynote address.



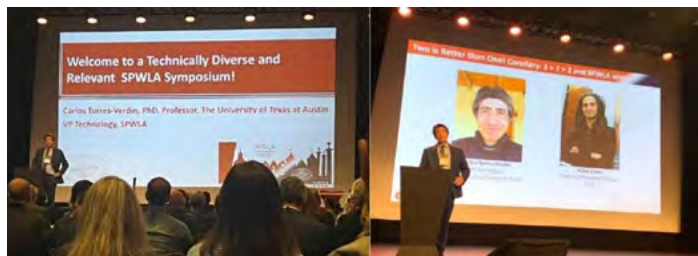
Full house during the opening remarks and keynotes.

TECHNICAL PROGRAM

Following the keynote panel and introductions, Dr. Carlos Torres-Verdín, VP Technology, opened the Technical Program. The full program of 23 sessions lasted 3 days and included poster presentations during breaks. The Technical Program included six special organized sessions that stemmed from open proposals by the SPWLA membership on a wide range of relevant topics. For the first time, the 107 oral presentations were held in two parallel sessions, set in equal-sized plenary rooms to assure flexibility.

The session topics included:

- Special Organized Session: Surface Logging Technology in the Era of Digitalization and New Energies
- Formation Evaluation of Conventional Reservoirs I: Case Studies
- Special Organized Session: Distributed Fiber Optics for Formation Evaluation
- Dielectric Measurements for Improved Formation Evaluation
- Formation Evaluation of Unconventional Reservoirs
- New Borehole Measurement Technology
- Special Organized Session: A Decade With UDAR Technology: Status of Look-Around and Look-Ahead Applications and Future Potential
- UDAR (Ultra-Deep Azimuthal Resistivity) Technology
- Formation Evaluation for CCUS, Energy Transition, and Complex Carbonates
- Formation Evaluation Under Complex Rock and Fluid Conditions
- Special Organized Session: Nuclear Magnetic Resonance of Cuttings: Measurements and Their Interpretation
- Automated Methods of Formation Evaluation
- Formation Evaluation of Conventional Reservoirs II: New Interpretation Methods
- Special Organized Session: Recent Advances in Borehole Image Technology and Interpretation
- Specialized Borehole Measurement and Interpretation Techniques
- Special Organized Session: Deep Learning With High-Dimensional Petrophysical Data



Carlos Torres-Verdín during the opening of the technical sessions.

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SOCIETY FUNCTIONS AND SOCIAL EVENTS

The Icebreaker Reception took place on Sunday night, June 12, and was generously hosted by Halliburton in the Oil Museum. It was well attended, and the folks really appreciated the event to meet and catch up with colleagues. Many reunions took place, with smiles and laughter all over the iconic landmark of Stavanger.



Technical session Energy Hall B.



Technical session Energy Hall A.



Poster sessions: There were a total of 21 posters presented in two sessions during the symposium.



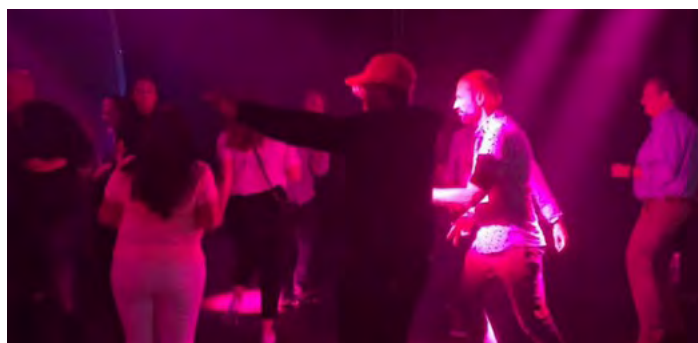
63rd SPWLA Annual Symposium

Stavanger, Norway, June 11–15, 2022

Monday evening, Baker Hughes hosted a QuestFest social gathering, a great run around the hotel venue, along with a bigger party. All delegates were invited and had fun until a very late hour.



Tuesday, Schlumberger invited all delegates to a fantastic Viking Festival at the Solastranden Gard, which awakened all our senses with a journey through time. Outside the barn, a small Viking village with tents was created, in which the tribe welcomed everyone into the Viking ages! Folks battled, tried the bow and ax, and danced, along with a fantastic food and beverage selection. Great stuff and a unique experience for all!



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ANNUAL BUSINESS MEETING

The Annual Business Meeting and Luncheon was held on Monday of the conference in the *Chambre Séparée*. As lunch was included in the conference fee, the business meeting was available to all delegate attendees. During this meeting, the gavel was handed from the outgoing society president, Katarina Yared, to the incoming president, Tegwyn Perkins. The President and Board Members gave brief reports, and the new 2022–23 SPWLA Board of Directors was introduced and welcomed.



The Moment – Passing the gavel from the 63rd to 64th President!



The Great Board 2021–2022.



Board Member Adam Haecker, VP Finance 2021–23, provided a financial snapshot during the business meeting.

AWARDS CEREMONY LUNCHEON

On Tuesday, the SPWLA Annual Awards Presentation and Luncheon took place in the hotel's restaurant. This event was open to all delegates, spouses, and guests. More than 350 people attended this event. During this time, the Society recognized multiple awardees for their significant contributions to SPWLA.

Please refer to the awards section of this newsletter.



A “gavel-relay” was performed by the 61st to 64th (past)-presidents during the awards ceremony – as they could only meet virtually since 2019. This important handover was done in person now and supported by a big round of applause by all delegates!

EARLY MORNING FUN RUN AROUND STOKKAVATNET

Early Tuesday morning at 6:30 am(!), around 25 eager runners showed up for the Equinor-sponsored Early Morning Run around Stokkavatnet. The group jogged together to the lake (500 m from the hotel) and then ran around it for approximately 8.5 km, each at their preferred pace, so it wasn't a race. The victory was being out there in less than an hour at 7.30 am in the morning and actually running!* One runner had a sneak start and ran in the opposite direction, so we all met him at various points around the lake.

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*For the sake of completeness: Knut Arne Birkedal (the person on the far right of the picture) came in first after gearing up speed the last kilometer! 😊



PARTNER/GUEST PROGRAM

Spouses/partners participated in daily events during 3 days of the technical symposium. On Monday, guests joined a local city expert on a fascinating walking tour of Stavanger, along with a boat trip to local favorite Flor & Fjære botanical restaurant for lunch and a garden tour. On Tuesday, a bus tour into the nearby mountains stopped at various locations including a cultural museum, lunch at the “eagles nest” overlooking the fjord, and an old farm turned into a candle factory/cafe. At the final activity on Wednesday, guests got to experience the beautiful Lysefjorden, a 42-km long fjord, by boat, followed by an interesting and insightful archeological Viking tour in the surrounding Stavanger area.

SPONSORS AND EXHIBIT HALL

The limited exhibition space was completely sold out in a short time, confirming the status and importance of the annual symposium in providing a great platform and excellent opportunity for recruiting, building, and strengthening a company’s position in the marketplace and to showcase products and services. During the breaks, all delegates were within the exhibition area, assuring exhibition time so the participating companies could increase their brand awareness.

On day three, the NFES host chapter committee passed all stands to get individual feedback from the exhibitors, and all appreciated the traffic at their stands by having today’s industry professionals under one roof, so they could develop new partnerships. All will come back to SPWLA 2023!

The following companies had booths at the exhibition:

SYMPOSIUM EXHIBITORS

Baker Hughes
Emerson
Eriksfiord AS
Geolog
H2 Laboratories
Halliburton
KAPPA Engineering
Lloyd’s Register
Logtek/Petroware
One & Zero
Petromac
ROGII, INC
Schlumberger
Spectra-Map Ltd
Stratum Reservoir
Task Fronterra Geoscience
The EasyCopy Company



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SYMPOSIUM SPONSORS

A big thank you to our generous sponsors of the conference – their commitment enabled the 63rd annual symposium in its scale and format:

Diamond Sponsor

- Aker BP
- Baker Hughes
- Equinor
- Halliburton
- Logtek Petroware
- Lundin Energy
- Schlumberger
- Stratum Reservoir

Tier Sponsor

- Hydrophilic, Gold Sponsor
- ROGII, INC, Silver Sponsor
- Task Fronterra Geoscience, Silver Sponsor
- Eriksfiord AS, Bronze Sponsor
- Oliden Technology, Bronze Sponsor
- Maxwell Dynamics, Inc., Coffee Bar Sponsor
- SM Energy, Coffee Bar Sponsor

SYMPOSIUM ORGANIZING HOST CHAPTER COMMITTEE

General Chairman

Mathias Horstmann, NFES President, Schlumberger

Co-general Chair

Torunn Hana, NFES VP Finance, Repsol

Chair Social Functions

Vanessa Mendoza Barron, Shell

Nils Andre Aarseth, AkerBP

Chair Sponsorship

Dier Mirza, NFES VP Membership, AkerBP

Terje Kollien, Lundin Energy

Chair Finance

Matthew Reppert, Neptune

Liv Inger Trøan, Lundin Energy

Chair Exhibits

Harry Brandsen, Equinor

David Larsen, Vår Energi

Chair Fieldtrip

Elin Solfjell, NFES VP Sponsorship, PGNiG

David Larsen, Vår Energi

Chair Guest Activities

Torunn Hana, Repsol

Matthew Reppert, Neptune

Chair PR/ IT/Tech

Sergey Alyaev, NFES VP PR & Academia, NORCE

Stefano Pruno, Stratum

Bob Engelman, Halliburton

Transportation

Elin Solfjell, PGNiG (field trip)

Stefano Pruno, Stratum (offsite workshop)

Convention Liaisons

Sharon Johnson, SPWLA

Stephanie Turner, SPWLA

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SPWLA TECHNOLOGY COMMITTEE 2021–2022

VP Technology

Carlos Torres-Verdín PhD, The University of Texas at Austin

Technical Program Co-Chair

Iulian Hulea PhD, Shell

Technology Committee

Kavita Agarwal, Petroleum Development Oman
Austin Boyd, Federal University of Rio de Janeiro
Douglas A. Boyd, ADNOC
Tom Bradley, Baker Hughes
Don Clarke, ExxonMobil
Michel Claverie, Consultant
Joe Comisky, Devon Energy
Bob Gales, Halliburton
Giuseppe Galli, ENI SpA
Adam Haecker, Continental Resources/SPWLA VP Finance
Lori Hathon, University of Houston
Zoya Heidari, UT Austin
Nazanin Jahani, NORCE
Sanaz Javid, Lundin Energy
Essi Kwabi, Apache
Mathilde Luycx, ExxonMobil/SPWLA VP Social Media
Mark Ma, Saudi Aramco
Elsa Maalouf, American University in Beirut
Javier Miranda, DeGolyer and MacNaughton
Siddharth Misra, Texas A&M University
Per-Atle Olsen, Equinor
Stephanie Perry, Intertek
Marco Pirrone, ENI SpA
Shelby Plitzuweit, OXY
Luis Quintero, Halliburton
Matthew G. Reppert, Neptune Energy
Hendrik Rohler, OMV Petrom
Marvin Rourke, GoWell
Alessandra Simone, Consultant and University of Houston
Chris Skelt, Independent Consultant
Kelly Skuce, Core Petrophysical Consulting
Marie Van Steene, Schlumberger
Lalitha Venkataramanan, Schlumberger
Harry Xie, Core Lab/SPWLA VP IT
Chicheng Xu, Aramco Americas
Irada Yusufova, Equinor
John Zhou, Maxwell Dynamics

SPWLA AWARDS

Gold Medal for Technical Achievement



Carl Sondergeld is currently Professor and Curtis Mewbourne Chair at the Mewbourne School of Petroleum and Geological Engineering, University of Oklahoma. He earned a PhD in geophysics from Cornell University and BA and MA degrees in geology from Queens College, CUNY. Carl spent 19 years at the Tulsa

Research Center of Amoco Production Company, where he conducted research in petrophysics and rock physics and developed a portable wellsite core analysis system, a rock physics database with integral seismic modeling software, and a full waveform sonic logging tool. He holds 16 US patents. He has been at the University of Oklahoma for 22 years, teaching petrophysics, technical communications, introduction to petroleum engineering, geological well logging, petrophysics of unconventional resources, and seismic reservoir modeling. Carl is a two-time winner of the Brandon Griffin Award and a four-time winner of the SPE Student Chapter Professor of the Year award. He coached the Petrobowl team to three international championships. He currently conducts research on unconventional reservoir rocks, in particular shales, and in the areas of microstructural characterization, anisotropy, NMR, petrophysics, hydraulic fracturing, and seismic reservoir modeling. Carl served as the 2010 SEG Distinguished Lecturer. In 2016, he was awarded the University of Oklahoma Regents Superior Teaching Award. He and Dr. Chandra Rai manage two industrial consortia: “Experimental Rock Physics” and the “Unconventional Shale Consortium,” focused on joint industry/academic research into rock physics and petrophysics of conventional and unconventional reservoir rocks. Carl is a member of SPE, SEG, and SPWLA. He serves on the SCA technical committee.

Distinguished Service Award



Iulian N. Hulea is a senior petrophysicist working for Shell Global Solutions BV, Projects and Technology in the Netherlands, currently working on global reservoir studies. Before this position, he held a carbonate (field development planning) petrophysicist and a research petrophysicist position (both in Shell). Iulian holds a master’s degree (Bucharest University, Romania) and a PhD (Leiden University, The Netherlands) in experimental physics. After completing the PhD (2004),

he held a postdoctoral position at the Delft University of Technology, Kavli Institute for Nanoscience, also in The Netherlands. Julian is a technology-driven scientist performing his research mostly outside working hours. He enjoys writing papers (especially petrophysics) and, in the remaining time, be focused on both physical health (runner – average 11 km/day for 2021) and mental health (meditation).

Distinguished Service Award



Jesús M. Salazar received PhD and MS degrees in petroleum engineering from The University of Texas at Austin and a BS degree in physics with honors from Universidad Central de Venezuela. Since 2018, he has worked as an adv. senior petrophysicist for Marathon Oil in Houston, currently in the Technology organization.

Previously, Jesús worked for 11 years with ConocoPhillips in Houston, Australia, and Canada in technology and exploration assignments, developing and deploying new workflows for US and international reservoir characterization projects. Jesús worked for 5 years in the Center for Petroleum Engineering at the University of Texas at Austin, and 5 years for PDVSA in Venezuela as a petrophysicist and reservoir development engineer. He also worked for Occidental Oil and Gas as a summer intern in Bakersfield, California and Houston, Texas. Jesús joined SPWLA in 1998 while starting his career in petrophysics in his native Venezuela. He was an active member in the local chapter until he moved to Austin, Texas in 2002, where he volunteered on the organizing committee of the 2007 Annual Symposium. Upon moving to Houston in 2008, he was elected Secretary of the Houston Chapter, then VP Westside in 2009, and President in 2010. He co-organized the first student poster competition in the 2009 Symposium at The Woodlands. Jesús was VP Technology and Technical Chairman for the 2018 SPWLA Symposium held in London, UK, and was elected President of the society for the 2019–2020 period at the dawn of the COVID-19 pandemic. Dr. Salazar has published more than 20 papers in conferences and peer-reviewed journals, including the Best Paper published in *Petrophysics* in 2006. Jesús is a former associate editor for *Petrophysics* and co-executive editor for *SPE Reservoir Evaluation & Engineering*, and currently, he serves as an associate editor for *SPE Journal*. In 2020, he was awarded the SPE recognition “A Peer Apart” for more than 100 completed peer reviews and was selected by SPE to be a Distinguished Lecturer for the year 2022–23. Dr. Salazar enjoys traveling (39 countries), running, reading, streaming movies and series, and especially spending time with his wife and two kids.

Distinguished Service Award



Zach Liu is the lead petrophysicist for GHD Future Energy in Houston, Texas, USA. He served as the 2018–19 SPWLA International President and in various other roles within SPWLA International and local chapters since 2010. His SPWLA career started as a replacement webmaster for the Houston Chapter after

he lost the webmaster election earlier, and later the elected webmaster quit. Zach is a licensed Professional Petroleum Engineer (P.E.) and CFA charter holder. He has over 20 years of broad experience in the oil and gas E&P, CO₂ EOR, and CCS, focusing on US onshore conventional, unconventional, and CO₂ assets. Previously, he worked for Kinder Morgan, BP, and Schlumberger. Zach earned his first MS degree in petroleum engineering from the University of Texas at Austin and his second MS degree in petroleum geology from the University of Houston. He has published tens of technical papers and has been granted three US patents. He enjoys golf and running.

Distinguished Technical Achievement Award



Dzevat Omeragic received his Dipl. Ing and MS degrees in electrical engineering from the University of Sarajevo, Sarajevo, Bosnia, and Herzegovina, in 1986 and 1990, respectively, and a PhD degree in electrical engineering from McGill University, Montréal, QC, Canada, in 1994.

After several R&D assignments in Canadian academia and industry, Dzevat joined Schlumberger Sugar Land Product Center as a tool physicist in 1997. Until his retirement in April 2021, he was a scientific advisor and the manager of the Modeling and Inversion Technologies and Applications Program, Schlumberger-Doll Research, Cambridge, Massachusetts. Dzevat holds more than 50 US patents and has published 90 journal and conference papers. His research interests include resistivity and EM logging, computational EM, inverse problems, and advanced interpretation workflows.

Distinguished Technical Achievement Award



Mark W. Alberty has had a 49-year career (so far) in the oil industry, initially focused on well-log acquisition, well-log interpretation, integration of well logs with core data, and integration of petrophysics with seismic attributes. Mid-career, Mark

chose to focus on applying his petrophysical skills to aiding the drilling function, in particular, pore and fracture pressure prediction and detection, shallow water flow identification and related drilling operations, formation pressure integrity test interpretation, and lost circulation prevention and remediation. His most valuable contribution has been in the wellbore strengthening field, where he and Dr. Michael R. McLean co-developed the StressCage technique of increasing the wellbore fracture resistance, which has delivered multiple billions of dollars in value for his employers. He has developed software for pore and fracture pressure prediction, rock property analysis, and for designing wellbore strengthening formulations that have all been commercialized. He is the inventor or co-inventor of six related patents. He has received two SPWLA Symposium Best Paper awards (1994 and 2001) and one SPWLA *The Log Analyst* Best Paper award (1996). Mark was an SPWLA Distinguished Speaker (1993) and an SPE Distinguished Lecturer (2004–2005). After graduating from Louisiana State University in 1973, he began his career at Schlumberger as a wireline field engineer in the GOM before moving on to management roles. In 1979, Mark joined Gearhart Industries, where he became manager of Interpretation Development. He worked for Sohio/BP from 1988 to 2011 and for Hess Corporation from 2011 to 2020. He is now semi-retired and consults part-time for Oxy, doing pore and fracture gradient prediction and wellbore strengthening. Mark has served as President (2002–2003), President Elect (2001–2002), and Vice President Technology (2000) of SPWLA. He was President, Vice President, Treasurer, and Secretary of the SPWLA Foundation. He also served as the executive editor of the SPE Quarterly *Journal on Formation Evaluation* (1991–1992). Mark has served on numerous committees for both SPWLA and SPE as associate editor, conference planning, and award recognition.

Distinguished Technical Achievement Award



S. Mark Ma currently serves as a senior consultant at Reservoir Description Division, Saudi Aramco, responsible for technical support, technical review, technology development, mentoring, and professional development. Since joining Aramco in 2000, he has had various assignments ranging from team lead for openhole/casedhole logging, professional development advisor at Upstream Professional Development Center, developed fit-for-purpose outcome-based petrophysics training curricula, supervisor of Petrophysical Support & Study

Unit of about 40 professionals responsible for operational support (NMR, sonic, and formation testing/sampling), reservoir surveillance, saturation modeling, and special studies. Before joining Aramco, Mark worked as a core analyst at Exxon Production Research Company, Western Research Institute (Wyoming), and Petroleum Recovery Research Center (New Mexico), and a teacher at Jiangnan Petroleum Institute (China). Mark received his bachelor's degree from East China Petroleum Institute and master's degree and PhD from New Mexico Tech, all in petroleum engineering. Mark's technical expertise covers mainly laboratory core analysis and field reservoir surveillance but also openhole logging, geosteering, and integrated studies. With 150+ publications and patents, the six with 100+ citations are all related to studies of rocks and rock-fluid interactions. His technical contributions are mainly in the fields of studying wettability and pore structure, two fundamental aspects of petrophysics, and the journey is still ongoing, as evidenced from his recent publications. Knowledge sharing is one of Mark's main passions. In the last decades, he has served SPWLA/SPE actively. Mark is a *Petrophysics* associate editor responsible for coring and core analysis, SPWLA Saudi Chapter VP for Technical Events, which has organized 11 topical workshops since its establishment in 2017, SPWLA Regional Director (2018–2020), SPE FE Award Committee Chair (2013), SPE ATCE FE Committee Chair (2018), IPTC Education Week Committee Co-Chair (2019), and *JPT* FE editor (2015–2020). He is the owner of the LinkedIn group Learning & Practicing Petrophysics Together (1,600+ members) and a manager of the Petrophysicists and Core Analysts group (10,000+ members). To recognize his technical accomplishments and professional services, Mark was awarded the 2010 SPE KSA Technical Contribution award, 2019 SPE FE award (MENA region), 2020 SPE Distinguished Membership award, and 2021 SPWLA Distinguished Service award.

Meritorious Service Award



Lesley Evans led the Rockies and Midcontinent geoscience teams and built a petrophysics team while at Chesapeake Energy. Prior to this, she was a geologist and petrophysicist at Amoco and Schlumberger, and a technical team manager at Williams E&P. Lesley is a graduate of Rice University (BA degree, geology and geophysics), University of Colorado (Boulder; MSc degree, geology), and Erasmus University NL (MBA). She trained as a petrophysicist at Amoco in their year-long program at the Tulsa Technology

Center (Class 30).

Meritorious Service Award



Mike Millar is a recently retired petrophysicist, having spent more than 35 years working on exploration, development, and decommissioning projects in a wide variety of hydrocarbon provinces. These projects have come from around the world, including the North Sea, North, Sub-Saharan, and East Africa, Thailand, India, North America, and the Caribbean. His roles have covered everything concerning logs, pressures, and cores, from tendering for services, program design and implementation, data quality assurance through to evaluations and input to static and dynamic models. He has worked for operators, a service company, and finally as an independent consultant. Mike has been passionate about sharing his knowledge and enthusiasm for petrophysics, and he has devoted a significant amount of time to volunteering and encouraging public awareness of the value and use of petrophysics. This is highlighted by his contributions to the SPWLA London Chapter (LPS), where he served on the executive committee on two separate occasions for a total of 15 years. Mike held the positions of Secretary, Treasurer, President (twice), and Past-President (twice). During this time, he served on the organizing committee of the 59th SPWLA Symposium held in London in 2018 and presented the one-day workshop on Log Quality Control at the Symposium. Mike has also organized more than 10 one-day topical seminars for the LPS. He has given numerous technical and educational talks to organizations, including the LPS, the Aberdeen Formation Evaluation Society, and AAPG Young Professionals. He has always taken time to mentor and encourage younger and less experienced colleagues and students. Mike wrote and presented internal petrophysics training courses. He was involved, over many years, in outreach events at universities to raise the profile of petrophysics. This included organizing university open-days and giving technical and educational talks, and also in taking an active role as a supervisor of a PhD student at Leicester University, which was part-funded by the LPS. Mike introduced the Iain Hillier Academic Award scheme to the LPS, which gives grants to students and university departments for research projects that have significant petrophysical content.

Meritorious Technical Achievement Award



Dr. Siddharth Misra is an associate professor of petroleum engineering and an associate professor of geology and geophysics at Texas A&M University. He has pioneered several machine-learning implementations in formation evaluation to improve E&P practices. He has developed new theories and computational tools to better understand the interaction of sensor physics with physical processes/properties of hydrocarbon reservoirs. He specializes in hydrocarbon volume estimation, fracture characterization, and connectivity quantification. He has authored two books primarily for petrophysicists. In 2020, for his significant contributions to exploration geophysics and subsurface engineering, he received several international awards: SEG J. Clarence Karcher Award, SPWLA Young Technical Professional Award, and EAGE Arie Van Weelden Award. He also received SPE Mid-Continent Formation Evaluation Award (2018) and SPE Gulf Coast Formation Evaluation Award (2020).

Young Professional Technical Award



Artur Posenato Garcia works as a research petrophysicist for Chevron ETC in Houston, TX. As part of his research work, he collaborates with Chevron's SMEs and business units to develop new workflows to improve the assessment of water/hydrocarbon saturation in unconventional plays through the interpretation of advanced well-log measurements. Additionally, he is developing algorithms that combine machine learning and statistical data analysis techniques to enhance the interpretation of petrophysical and geophysical measurements. Artur earned his PhD in petroleum engineering from the University of Texas at Austin. As a graduate research assistant, he investigated petrophysical models to improve the interpretation of electrical resistivity, dielectric permittivity, and NMR measurements in complex formations (e.g., mixed-wet carbonates and organic-rich mudrocks). He also developed pore-scale numerical simulators to enhance the understanding of the different petrophysical properties affecting electrical and NMR measurements. The outcomes of his research resulted in 50+ journal and conference publications. Artur was designated an SPWLA Distinguished Speaker in 2017–2018 and 2018–2019, and he served as the President of the student chapter of SPWLA at the University of Texas at Austin (2018–2019). He continues to serve the petrophysics community as the editor of the SPWLA Houston

Chapter, as a technical reviewer for *SPE Journal*, *SPE REE*, *Geophysics* journal, *Journal of Applied Geophysics*, etc. Artur is currently pursuing an MSc degree in computer science also at UT Austin.

Young Professional Technical Award



Dr. Qiong Zhang currently holds the position of professor in the Department of Automation Engineering, University of Electronic Science and Technology in China. She is also the founder and director of COSL (China Oilfield Services) Nuclear Well Logging Research Laboratory. Qiong Zhang completed her BS degree in physics at Tsinghua University in China. She holds a PhD degree in nuclear engineering from North Carolina State University (Raleigh, USA) in 2012. During 2013~2018, she worked as a research scientist with Baker Hughes Research and later BHGE Research (Houston, USA). She was awarded the Baker Hughes Technology Excellence Award for 2017. Her research mainly focuses on nuclear detection, nuclear tool development, formation evaluation, and new technologies in reservoir characterization. Specifically, her team develops innovative technologies targeting “source-less” pulsed neutron and X-ray imaging technology platforms to streamline the next-gen nuclear tool digital twin development process from conceptual design to simulation to performance optimization and interpretation. Working closely with industry partners such as CNOOC, COSL, and CNPE, many of these technologies have been deployed with successful field trials. She holds 15 US patents and has 50+ technical publications in top peer-reviewed journals and conferences. Dr. Zhang serves as a guest editor and reviewer for 15+ scientific journals. In her spare time, she loves swimming, surfing, kayaking, and all water-related sports.

Young Professional Technical Award



Stephanie Perry is originally from upstate New York. She completed a dual BSc degree in geology and psychology in 2004 at Union College, Schenectady, New York; an MSc degree in earth sciences at SUNY Albany, New York, in 2006; and a PhD in geology at Syracuse University in 2014. Stephanie has worked in the oil and gas industry for more than 12 years in exploration, development, and production. She has worked onshore and

offshore opportunities spanning roles from a geologist to a geophysicist to a specialization in petrophysics. She formerly worked with operators including ExxonMobil and Anadarko Petroleum Corporation and supported GeoMark Research Ltd as the chief petrophysical advisor and consultant. She currently works for Intertek (Westport Laboratory) on the petrophysics, core analysis, and consulting teams.

Award of Appreciation



Lei Fu is a data scientist for Aramco Americas. He is a creative researcher who loves taking on data challenges and developing artificial intelligence (AI) technology solutions. Lei won second place in the 2020 SPWLA Petrophysical Data-Driven Analytics Special Interest Group (PDDA-SIG) Machine-Learning Competition. He currently serves as Chief Event Organizer and Treasurer of PDDA-SIG. Lei has led the SPWLA PDDA 2021 Machine-Learning Competition. He also served as a committee member of the SPWLA 2022 Spring Topical Conference. Lei graduated from Rice University in 2016 with a PhD in earth science. He has 6 years of work experience in applying AI to exploration and production. In his free time, Lei likes traveling, swimming, and restoring old films with AI.

2021–2022 Outstanding Professional Chapter NFES

2021–2022 Outstanding Student Chapter SPWLA Universidad Industrial de Santander (UIS)

Outstanding Petrophysics Papers 2022

First Place

- Authors: Xinglin Wang, Philip Singer, Yunke Liu, Zeliang Chen, G. J. Hirasaki, and Harold I. Vinegar
- Title: Pore Size, Tortuosity, and Permeability from NMR Restricted Diffusion in Organic-Rich Chalks
- Published on June 2021 issue, pp. 244–264. Paper ID: PJV62N3-2021a1

Second Place

- Author: Rick Aldred
- Title: Petrophysics of Thinly Bedded Formations
- Published on August 2021 issue, pp. 335–352.
 - A tutorial paper. Paper ID: PJV62N4-2021t1

63rd SPWLA Annual Symposium

Stavanger, Norway, June 11–15, 2022

Outstanding Petrophysics Journal Reviewers 2021–2022

Best reviewer: Tianmin Jiang

- Reviewed 12 manuscripts, all reviews submitted on time. Received 4 AE votes.
- Updated the AE team with one drop and three additions

First Runner-Up: Serg Ishutov

Symposium Best Paper Presentations 2021

First Place

Presenting Authors: Matthew Guy Reppert and Mohammadhossein Mohammadlou
Title: The Impact of Overbalanced Drilling From Exploration/ Appraisals Wells to Field Development Plan
Paper ID: SPWLA-2021-0013

Runner-Up

Presenting Author: Paul Craddock
Title: Enhanced Mineral Quantification and Uncertainty Analysis From Downhole Spectroscopy Logs Using Variational Autoencoders
Paper ID: SPWLA-2021-0069



The awarded NFES Chapter – host team of the SPWLA 63rd Annual Symposium in Stavanger.



63rd SPWLA Annual Symposium

Stavanger, Norway, June 11–15, 2022



2021–2022 DISTINGUISHED AND REGIONAL SPEAKERS

Distinguished Speakers

Andrew McDonald
 Antoine Jacques
 Bernd Ruehlicke
 Emiliano Santiago
 Jun Zhang
 Laurent Mosse
 Marie Lefranc
 Martin Poitzsch
 Matthew Reppert
 Nicolas Carrizo Paez
 Pablo Saldungaray
 QinShan Yang
 Sabyasachi Dash
 Supriya Sinha

Global Distinguished Speakers

Abraham Grader
 Erik Wielemaker
 Haijing Wang
 Ibrahim Milad
 Kazuhiko Tezuka
 Michael Thiel
 Nicholas Bennett
 Thanapala Singam Murugesu
 Yuki Maehara

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63rd SPWLA Annual Symposium

Stavanger, Norway, June 11–15, 2022



All pictures courtesy region Stavanger

Paper Presentation of the Day

SPWLA 2022 Annual Logging Symposium “Paper Presentation of the Day”

By Tegwyn JP Perkins, SPWLA President 2022–2023

Last year, during the 2021 SPWLA Annual Symposium “Boston Online,” we ran the inaugural “Paper Presentation of the Day” contest where attendees could vote for their favorite presentations over the duration of the symposium. This year, we brought it back, and here are the results:

Monday’s winner was:

SPWLA-2022-0046 UDAR: Past, Present, and Future. An Operator’s Experience and Perspective on the Challenges and Opportunities in Applications With Ultra-Deep Resistivity Tools; *John Bergeron, Michael Rabinovich, Murad Murtuzaliyev, Andy Ronald, and Elnur Binyatov, BP.*

Tuesday’s winner was:

SPWLA-2022-0119 Ultra-Deep 3D Electromagnetic Inversion for Anisotropy, a Guide to Understanding Complex Fluid Boundaries in a Turbidite Reservoir; *Nigel Clegg, Supriya Sinha, and Karol Riofrio Rodriguez, Arthur Walmsley, Halliburton; Stig Sviland-Østre, Theodor Lien, and Joanna Mouatt, Aker BP; David Marchant and Christoph Schwarzbach, Computational Geosciences Inc.*

Wednesday’s winner was shared:

SPWLA-2022-0128 Using Digital Rock Physics to Evaluate Novel Percussion Core Quality; *Dmitry Lakshantov, Yuliana Zapata, Dave Saucier, Jennie Cook, Robin Eve, Mark Lancaster, Nathan Lane, Glen Gettemy, BP; Kevan Sincock and Elizabeth Liu, Independent Consultants, Rosemarie Geetan, Bifrost Energy; Ian Draper and Tim Gill, Baker Hughes.*

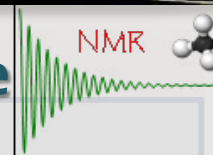
--and--

SPWLA-2022-0055 Integrated Approach to Leak Detection Using High-Definition Electromagnetic Technology, Production Logging, and Ultrasonic Logs – A Case Study; *Adesoji Adedamola, Diptaroop Chakraborty, and Ariel Sedlacek, Halliburton; Tshissola Tambwe, Neil Hay, Salomao Dode, Abel Cruz, Jose Rodrigues, Jose Nzau, Adriano Cunha, Olivio Mavuba, and Domingos Andrade, Sonangol.*

The overall winner from the three days was:

SPWLA-2022-0119 Ultra-Deep 3D Electromagnetic Inversion for Anisotropy, a Guide to Understanding Complex Fluid Boundaries in a Turbidite Reservoir; *Nigel Clegg, Supriya Sinha, and Karol Riofrio Rodriguez, Arthur Walmsley, Halliburton; Stig Sviland-Østre, Theodor Lien, and Joanna Mouatt, Aker BP; David Marchant and Christoph Schwarzbach, Computational Geosciences Inc.*

There are no prizes for these presentations beyond our heartfelt thanks to the presenter, their coauthors, and the attendees who voted for it. The official Technology Committee results will be published shortly. I wonder how these papers will rank?



SPINNING UP AN NMR CONFERENCE AFTER A TWO YEAR "RELAXATION TIME"

Dates: Oct. 6-7, 2022

Location: Halliburton Main Campus, Houston, TX

3000 N. Sam Houston Parkway E., Houston 77032

This SIG will be virtual if a face-to-face meeting is not feasible

The Executive Committee of the NMR SIG has the pleasure of inviting you to its 2022 Conference at the Halliburton Main Campus in Houston.

This will be a 1 ½ day conference featuring NMR related formation evaluation concepts and applications, advances in multi-discipline collaboration, as well as a great opportunity to reconnect with NMR SIG members after a 2-year Covid-induced hiatus.

Please send your abstracts by email between June 9 and July 31, 2022 to:
NMR@spwla.org.

We request that abstracts are limited to a 300-word maximum. Abstracts selected for oral presentation will have 15 minutes presentation time, immediately followed by 5 minutes for questions and discussion. Abstracts selected for poster presentations will be presented during the Poster Session and will be on display for the duration of the conference.

Authors who have previously submitted abstracts for the 2021 Conference will have the options to (1) retain their abstract for 2022, (2) modify and re-submit, or (3) withdraw altogether. We ask that you confirm your choice as early as possible.

The tentative list of potential NMR topics for the conference includes:

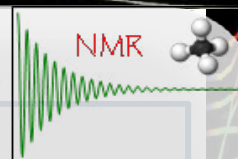
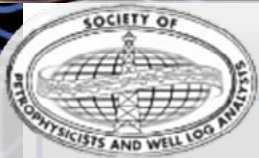
Reservoir Characterization in Unconventional Reservoirs

Reservoir Characterization in Conventional Reservoirs

NMR on Core & Fluid – Integration with well logs

NMR and Machine Learning

Academia and NMR – Beyond Education



SPINNING UP AN NMR CONFERENCE AFTER A TWO YEAR “RELAXATION TIME”

This topical conference will be an “off-the-record” forum with no publication of any material presented. We encourage presenters and participants both to share their case studies, conceptual innovations, new methodologies and latest technologies.

Video recording, photographing or quoting of speakers or their presentations is expressly prohibited.

Company logos are only allowed on the title slide to show affiliation of the authors. Commercialism during presentations is not permitted.

Conference attendance may be limited due to room capacity

Preference will be given to applicants willing to present at this topical conference. Presenters are expected to register and pay the registration fee.

Conference registration fee

\$150 for industry professionals / \$75 for students. Breakfast, lunch, and snacks are included. Social event/dinner at the end of the first is day not included. Registration details will be communicated soon.

Sponsorship Two levels of sponsorship are available for this conference.

Both include large digital screens for display at the SIG.

The \$750 level sponsorship includes 2 registration passes; the \$500 level includes 1 registration pass.

Co-Chairs: Ron Bonnie (ConocoPhillips), Ron Balliet (Halliburton)

SIG Committee: Boqin Sun (Chevron), Matthias Appel (Shell), Jesus Salazar (Marathon), Mike Dick (GIT), James Howard (ConocoPhillips retired), Zoya Heidari (UT), Mike Myers (UH)

Appreciation of support goes to the SPWLA and NMR SIG Executive Boards

Petrophysics AI/ML Special Issue Call for Papers

Dear data-driven petrophysics enthusiasts,

With the help and support from Elizabeth Naggar (Managing Editor of *Petrophysics* Journal) and Stephanie Perry (VP Publications for SPWLA), the SPWLA PDDA is targeting the publication of the “AI/ML Special Issue” for *Petrophysics* Journal in **April 2023**.

We are announcing a call for papers on the following topics in data-driven petrophysics and formation evaluation:

- **Data Preparation and Feature Engineering:** How should we preprocess petrophysical data and incorporate petrophysical expertise to improve the accuracy of our data-driven models?
- **Big Data:** Workflows to visualize and analyze high-dimensional, large petrophysical data sets that are difficult to handle.
- **Application of Data-Driven Workflows:** Case study using data-driven methods. Does it improve our petrophysical interpretation? What are the limitations and your recommendations for best practice?
- **New Methods for Data-Driven Petrophysics:** New methods and workflows to improve our understanding of the petrophysical data.
- **New Findings with AI/ML Methods:** Do we obtain new insights from our petrophysical data with AI/ML models? How should we interpret our data-driven approaches?
- **AI/ML-Assisted Workflows:** Data-driven methods to assist petrophysicists to perform more efficient petrophysical analysis.
- **Reviews:** Summary of data-driven methods that have been successfully applied for petrophysical analysis.
- **Tutorials:** Demonstrate the data-driven workflows for petrophysical analysis with well-documented code.
- **Reference Databases:** Provide open-source petrophysical database to help the community better understand the pros and cons of different data-driven approaches.

The following guidelines should help:

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

Please submit your articles to [Editorial Manager®](#) by the **August 1st, 2022 deadline**, and please make sure to select “AI/ML Special Issue” for the “Article Type”.

Also, please feel free to forward this message to all interested parties.

Best regards,

Wen Pan

(Guest Editor of *Petrophysics* Journal)



BOREHOLE ACOUSTICS : THE ROAD AHEAD

Friday, Sept 2nd, 2022, Venue TBD, Houston, TX

This workshop will take the format of an open discussion between experts from operator companies, service companies, and universities on a wide variety of topics surrounding the future of borehole acoustics in a rapidly changing Energy industry, including the following:

- Development/characterization/modelling of wireline/LWD sonic tools now & in the future.
- Development/characterization/modelling of wireline and LWD ultrasonic tools and new applications they could bring.
- Novel applications of both wireline and LWD data in open and cased hole. What could be developed to ensure borehole acoustics is increasingly relevant going forward?
- The application of machine learning and multi-physics approaches to borehole acoustics data. Could it allow us to do things we can not do now?
- Role of borehole acoustics in CCS and geothermal technologies/workflows

The organizing committee would like to invite abstract submissions (< 500 words) on all of the above topics and others within the workshop mandate. Abstract submission is not mandatory in order to attend the workshop.

ABSTRACT DEADLINE: EXTENDED – June 30th, 2022. <https://www.spwlaworld.org/borehole-acoustics-the-road-ahead>

The conference will consist of oral presentations followed by breakout/discussion sessions. Details regarding registration, workshop charges, presentation duration, breakout/discussion format, etc., will be available shortly. Please visit www.spwla.org for updated information when available. Please contact acoustics_sig@spwla.org with any questions!

To encourage sharing of the latest techniques, ideas, and developments in borehole acoustics, proceedings and presentations are off the record.

Steering Committee:

Brian Hornby (HGS), Matt Blyth (SLB), Alexei Bolshakov (Chevron), Arthur Cheng (NUS), Kris Walker (Chevron), Tim Geerits (BH)

SPWLA VP of Education: Fransiska Goenawan (HAL)/ Kelly Skuce (Core Petrophysical Consulting)



SPWLA Fall Workshop



ACOUSTICS
SPECIAL INTEREST GROUP

BOREHOLE ACOUSTICS : THE ROAD AHEAD

Friday, Sept 2nd, 2022, Venue TBD, Houston, TX

This topical conference will be conducted as an “off-the-record” forum with no publication of any material presented. We encourage the presenters and participants to share their case studies, conceptual innovations, new methodologies and latest technologies. Video recording, photographing or quoting of speakers or their presentations will be expressly prohibited. Company logos should be limited to the title slide to indicate the affiliations of the author and co-authors. Commercialism during presentations is not permitted.

Conference attendance seating may be limited due to room capacity. Preference will be given to applicants who are willing to present at this topical conference. Presenters will be expected to register and pay the registration fee.

SPWLA Policy It is the policy of this organization to provide equal opportunities without regard to race, color, religion, national origin, gender, sexual preference, age, or disability

More details forthcoming.

SPWLA 63rd ANNUAL BUSINESS MEETING
Stavanger, Norway
June 11–15, 2022

The following minutes will be approved at the 2023 Annual Business Meeting, Conroe, Texas, USA.

President Katerina Yared called the meeting to order at 12:15 pm with 75 in attendance.

A motion was made by Adam Haecker to waive the readings of the minutes from the 62nd Annual Business Meeting was seconded by Jennifer Market. All approved, and the motion passed.

Katerina presented end-of-year reports on behalf of her Board of Directors.

SPWLA Foundation President, Dr. Luis Quintero, addressed the Annual Financial Report of the foundation.

President Katerina Yared introduced the incoming 2022–2023 Board of Directors as follows:

President, Tegwyn Perkins
President Elect, Jennifer Market
Vice President Technology, Iulian Hulea
Vice President Education, Kelly Skuce
Vice President Finance, Secretary and Admin, Adam Haecker
Vice President Publications, Stephanie Perry
Vice President Information Technology, Harry Xie
Vice President Social Media, Mathilde Luycx
Regional Director N. America 1, Javier Miranda
Regional Director N. America 2, Matthew Blyth
Regional Director Latin America, Nelson Suarez
Regional Director Europe, Eva Gerick
Regional Director Middle East/Africa Region, Jennifer Duarte
Regional Director Asia/Australia, Ryan Lafferty

President Katerina Yared passed the gavel to incoming President Tegwyn Perkins.

A motion by Kelly Skuce to adjourn was seconded by Fransiska Goenawan. All approved, and the motion passed.

The meeting adjourned at 1:04 pm.

Respectively Submitted by
Sharon Johnson
Executive Director

ACOUSTICS SIG

General

Over the last 2 months, the Acoustics SIG has held three board meetings. Over these meetings, we have finalized the proposed changes to the SIG bylaws. Those are now complete and approved by all the board members. Additionally, we have reviewed the abstract submissions for the Fall SIG Workshop in September and discussed the potential venue selection and pricing options. The original deadline for abstract submission was June 3; however, the board extended the submission period until June 30 to allow people more time to submit. Additionally, the SIG is launching its own LinkedIn page to help promote activities and events.

Upcoming Events

2 September 2022—An Acoustic SIG Workshop will be held on “Borehole Acoustics: The Road Ahead.” Venue TBD, Houston, TX. The abstract submission deadline was June 30, 2022 (<https://www.spwlaworld.org/borehole-acoustics-the-road-ahead/>). This workshop will take the format of an open discussion between experts from operator companies, service companies, and universities on a wide variety of topics surrounding the future of borehole acoustics in a rapidly changing energy industry. See the Acoustics SIG page on spwla.org for more details.

ARGENTINE STUDENT CHAPTER

General News

The Student Chapter keeps growing. Our activities are being recognized by more universities and study centers in Argentina and by student associations related to oil and gas, such as the SPE (Society of Petroleum Engineers) and the AAPG (American Association of Petroleum Geologists). We are very proud of our achievement. Our Geological Formation Evaluation School has been extremely successful. We have completed three modules with a high number of participants.

Recent Events

In April, we developed the school’s second module titled “Core Plug Virtual Workshop.” In May, we developed the school’s third module titled “Unconventional Geosteering,” which consisted of 3 hours a week (2 consecutive days). Next, the timetable developed in Modules 2 and 3 was:

Module 2: Core Plug Virtual Workshop

- DAY 1: Operational sequence of work with core plugs
- DAY 2: Sedimentary environments, petrography, and petrophysics

Module 3: Unconventional Geosteering

- DAY 1: Basic concepts of directional drilling in unconventional wells; Geosteering input
- DAY 2: Unconventional Geosteering

ESCUELA DE EVALUACION DE FORMACIONES
Módulo 2

TALLER VIRTUAL DE TESTIGOS CORONA

Martes 26 y Jueves 28 de abril.
Horario: 10 - 11:30 hs (ARG).
Duración: 1 hora 30 min.

Arturo de Barrio
Geólogo en Grupo LCV

Licenciado en geología de la UNLP, con experiencia en el análisis de testigos corona y cuttings de reservorios convencionales y NOC de Argentina, Ecuador y Perú, haciendo foco en el análisis paleoambiental, petrografía, diagénesis y calidad petrofísica del reservorio.

SOCIETY OF PETROPHYSICISTS AND WELL LOG ANALYSTS
ARGENTINE STUDENT CHAPTER

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Module 2 event flyer.

ESCUELA DE EVALUACION DE FORMACIONES
Módulo 3

GEONAVEGACIÓN EN NO CONVENCIONALES

Miércoles 25 y Jueves 26 de Mayo.
Horario: 10 - 11:30 hs (ARG).
Inscripciones abiertas hasta el día Sábado 21 de Mayo.

Noelia Di Giuseppe
Geóloga de geonavegación en ROGIT

Noelia es Licenciada en Ciencias Geológicas recibida de la Universidad Nacional del Comahue. Desde el 2015 se desempeña en la industria Oil & Gas como Geóloga para YPF y Tecpetrol, y se especializa en Geonavegación desde el 2018. Actualmente es Geonavegadora en ROGIT donde brinda servicios a operadoras como Tecpetrol, PAE y Pampa Energía.

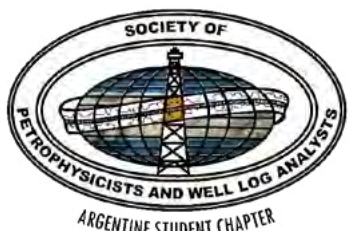
SOCIETY OF PETROPHYSICISTS AND WELL LOG ANALYSTS
ARGENTINE STUDENT CHAPTER

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Module 3 event flyer.

Upcoming Events

September 2022—We are planning an activity in which we will work together with the Colombia Student Chapter and Houston Student Chapter, a collaboration mainly organized by and for students. This event entitled “SPWLA Three Countries Event” will be specifically focused on unconventional reservoirs. It will be a three-day session, and our chapter will emphasize Vaca Muerta Formation – Neuquén Basin. This activity will allow us to strengthen our learning and competent growth as students and foster the integration of the academic world with the hydrocarbon industry. In addition, we will continue with our Formation Evaluation School since we are seeking to develop Module 4. Therefore, we have a lot of work ahead that we believe will be a great success.



To know more about us,

Mail: spwla.arg.sc@gmail.com

LinkedIn: www.linkedin.com/in/spwla-argentine-student-chapter

Instagram:

<https://www.instagram.com/spwlaarg/>

BATANGAS STATE UNIVERSITY STUDENT CHAPTER

General News

“The future depends on what you do today.” – Mahatma Gandhi

Opportunity does not come and just happen. It is created by hard work and persistence. This semester, the organization has focused on career growth and career development for

every member. The SPWLA Batangas State University Student Chapter executed and added events to proceed with their plans for their second semester in the school year 2021–2022. The events that were conducted included eMentorship, which specializes in petrophysics, mentored by Mr. Mark Ma, a senior petrophysics consultant with Saudi Aramco.

For the greatness and continuous success of serving our SPWLA members, an election of officers for the academic year 2022–2023 was held last April 25, 2022. The handover from the recent officers to the newly elected officers was headed by the SPWLA BatStateU SC President, Ms. Julie Ann Gregorio. The invited guests for this event were Mr. Don Paulino, president and CEO of Enex Energy Corporation and a leadership coach, together with Ma’am Katerina Yared, the former SPWLA President.

To prepare the members of the organization for the upcoming internship and graduation, the Batangas State University SC conducted an event. Mr. Kenneth Joshua Bulahan, country business development at NES Fircroft, was invited to be the guest speaker at the Job Opportunity Webinar. He discussed how to get a job efficiently and be competitive among other applicants. He also discussed companies working with them so he can help SPWLA members extend their network and develop their careers.

Recent Events

Election of Officers

“Leadership is the capacity to translate vision into reality” – Warren Bennis

25 April 2022—The SPWLA members have finally spoken and embodied their convictions through their votes. An election for the new set of officers was held via Google Forms conducted by the Batangas State University SC officers, together with the supervision of the organization’s advisor.

Turnover Ceremony

29 April 2022—The Batangas State University SC held a Turnover Program to officially announce and congratulate all the newly elected officers for the upcoming academic year 2022–2023. Two foreign guest speakers attended the program. The first guest speaker was Ms. Katerina Yared, the former President of SPWLA International and senior petrophysicist at SM Energy Company in the USA. The second speaker was Mr. Don Paulino, president and CEO of Enex Energy Corporation and a leadership coach. The event officially started with a prayer, followed by the Philippine National Anthem. It was followed

by opening remarks from Engr. Julie Pearl Marasigan, SPWLA BatStateU SC organization advisor. After the opening remarks, a video presentation of activities was conducted by the organization for the whole academic year. The events presented in the video were the General Assembly, Environmental Awareness, Career Orientation, eMentorships, Inauguration, and Job Opportunity Webinar.

After presenting the activities, the hosts welcomed the first speaker, Mr. Don Paulino, for an inspirational speech in which he talked about the fundamentals of being a leader. He gave crucial advice to the newly elected officers on how to be a great leader and shared his experiences on how to handle many followers who look up to you. Afterward, the newly elected officers took their oath and vowed to be responsible leaders.

The next guest speaker was Ms. Katerina Yared, who welcomed all the new officers. Her discussion includes the objectives of SPWLA and how leadership affects the success and ordinance of the organization. Afterward, the hosts, Ed Cesario and Rome Erwin Festin, proceeded to award recognition to the guest speakers. Lastly, closing remarks were addressed by the President of the SPWLA BatStateU Student Chapter.

May eMentorship

30 April, 2 and 4 May—The third batch of mentorship was spearheaded by Mark Ma, senior petrophysics consultant at Saudi Aramco. The discussions during these meetings revolved around the advice received from the mentors to become competitive in their chosen careers. They were also taught about the software they might use once they have entered the field. The first session of the eMentorship happened last March. The Reservoir Engineering and Petrophysics eMentorship was conducted through Google Meet with five mentees each.

Job Opportunity Webinar

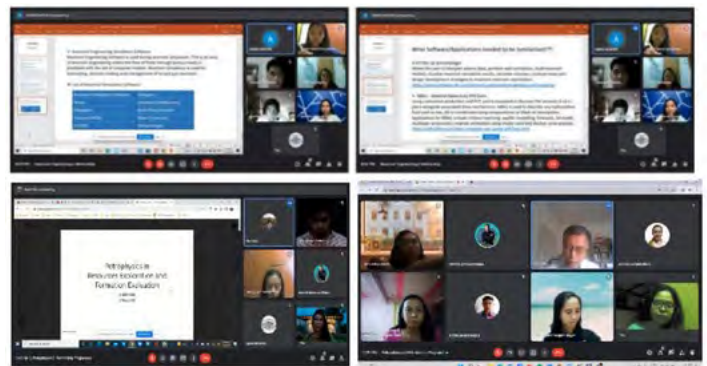
6 May 2022—The Batangas State University Student Chapter conducted a program entitled “The Intern” to allow all the members/students to be prepared for applying and taking internship programs. The guest speaker for the event was Mr. Kenneth Joshua Bulahan. The event officially started with a prayer and was followed by the singing of the

Philippine National Anthem. The opening remarks were addressed by the organization advisor, Engr. Julie Pearl Marasigan. Afterward, the hosts spent a short time with small talk about the event and how it was going to be helpful for the audience. After the brief talk, the hosts finally introduced the guest speaker and his current job at NES Fircroft and introduced the company’s history and achievements.

Mr. Kenneth Joshua Bulahan is a trusted and dynamic business development professional dedicated to building sustainable impact through and within a mission-driven organization. He shared about the energy transition of the oil and gas industry and how it affects not only professionals but also companies. He also shared about the demographics of professionals by their gender. He explained that women are most likely to be out of the field. Moreover, he also addressed why employees are moving into different sectors and fields of their careers due to the opportunities available and future potential in other fields or sectors.

Afterward, the guest speaker requested a question-and-answer portion for better interaction between the speaker and the audience. Next, the hosts gave Mr. Bulahan a recognition award as a sign of gratitude for attending the program. The event proceeded to the intermission by Mr. Gabriel Malasique and a raffle draw. The closing remarks were also addressed by Mr. Gabriel M. Malasique.

MAY eMentorship



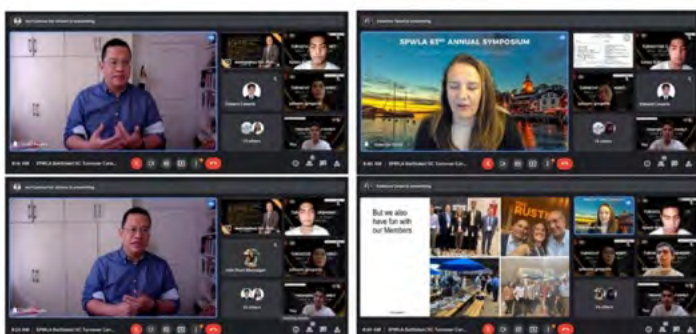
The SPWLA BatStateU SC honored the distinguished petrophysics mentor with a certificate of appreciation during the session, where mentees expressed what they learned from their mentor.

Election of Officers



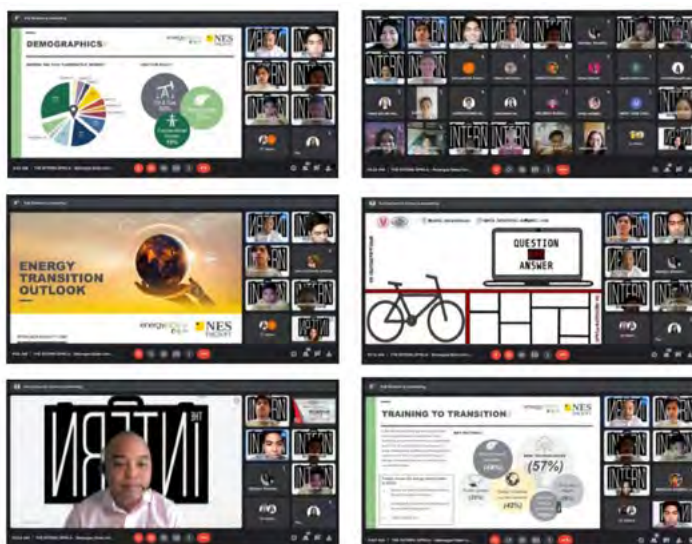
An election for new officers was conducted on April 25, 2022, via Google forms. The new set of officers was announced on April 26, 2022, via our Facebook page. The upcoming President for the SPWLA BatStateU SC is Ms. Andrea Lorraine Manalo, together with her Vice Presidents, Ms. Mary Jane Diasanta (External) and Mr. Edward Cesario (Internal). The upcoming Secretaries are Ms. Carla Larios (Internal) and Ms. Alpha Joy Diasanta (External), with the Treasurers, Mr. Matthew Dimaandal (Internal) and Ms. Jasmine Anne De Torres (External). Ms. Shiela Mandigma was named Auditor with the organization Chairpersons Mr. Jacob Rubencia (Membership), Mr. Rome Festin (Events), and Ms. Deanne Ramos (Communications).

Turnover Ceremony



On April 29, 2022, SPWLA BatStateU SC conducted its Turnover Ceremony and welcomed the new set of officers. The event was a success with Mr. Ronaldo “Don” Paulino, president and CEO of Enex Energy Corporation as the first guest speaker, followed by Ms. Katerina Yared, former SPWLA President and senior petrophysicist at SM Energy Company. Both speakers had their fair share of experience with leadership and shared a lot of thoughts and wisdom on how to be an effective leader and follower.

Job Opportunity Seminar



Mr. Kenneth Joshua Bulahan, country business development at NES Firecroft, was invited to be the guest speaker at the Job Opportunity Webinar. He talked about how to get the job efficiently and be competitive among other applicants. He also discussed companies working with them so he can help the SPWLA members extend their network and develop their careers.

BOREHOLE IMAGING-BHI SIG

General News

The purpose of this SIG is to provide a forum for those interested in borehole imaging to conduct technical discussions concerning tool design, data acquisition and delivery, applications, and interpretation and to develop/promote industry standards. As of today, the SIG already has more than 100 members.

Recent Events

11 June 2022—The chapter organized a one-day workshop about the fundamentals and applications of borehole image log data at the 2022 SPWLA Annual Symposium in Stavanger. We had six lecturers from four different companies and seven participants. The workshop taught the fundamentals of a borehole image log tool, QC, feature detection, and pitfalls. As a highlight of the workshop, a live-picking session was performed to have a lively discussion and interaction with the participants. Our lecturers were: Peter Barrett (Halliburton), Susana Gutierrez Carrilero (Halliburton), Bastian Roters (NiMBUC Geoscience), Bernd Ruehlicke (Eriksfiord), Chandramani Shrivastava (Schlumberger), and Shim Yen Han (Schlumberger)



Susana is showing the participants a model of an image log. Peter Barrett (lecturer on the right) is presenting BHI examples on the screen.

13 June 2022—Furthermore, we had our first Borehole Imaging SIG Meeting in person and online. In total, over 35 members of the SIG participated to discuss the steps and goals the SIG should tackle first. We agreed to focus on the issue of dip export first. Furthermore, we need to get more operators involved as well as software providers.

We agreed to have a second SIG meeting in September to present the first results and plan the next steps.

Upcoming Events

We plan to have our second SIG meeting in September – the date will be published in time.

BOSTON CHAPTER

General News

SPWLA general members and Boston-affiliate members are invited to browse our chapter website <http://boston.spwla.org> for up-to-date information on our mission and events, including event details and registration. Follow us on LinkedIn at <https://www.linkedin.com/in/spwla-boston/>.

Recent Events

20 April 2022—The Boston Chapter hosted Martin E. Poitzsch (Aramco Research Center) in the auditorium of Schlumberger-Doll Research in Cambridge, MA, for an in-person presentation of his Distinguished Speaker lecture, “Nanotechnology for Reservoir Characterization and Optimization.” The in-person talk was well attended, and it provoked many questions from the audience. The

meeting was followed by a networking lunch in the SDR Winter Garden. Boston Chapter officer S. Sherry Zhu is also a coauthor of the work.

13 May 2022—The Boston Chapter hosted Haijing Wang (Chevron) at Schlumberger-Doll Research in Cambridge, MA, for an in-person presentation of his Distinguished Speaker lecture, “Improving Dielectric Interpretation by Calibrating Matrix Permittivity and Solving Dielectric Mixing Laws With a New Graphical Method.” The talk was well attended by an invigorated in-person audience, and it provoked substantial discussion both during and after the meeting. The meeting was followed by a networking lunch in the SDR Winter Garden.



Haijing Wang (Chevron) with some of the Boston Chapter officers plus bolder members of the audience, after his presentation in the auditorium of Schlumberger-Doll Research on May 13, 2022.

Several members of the Boston Chapter presented papers at the SPWLA Symposium in Stavanger in June, among which were:

- **Yong-Hua Chen, Mikhail Zaslavsky, and Lin Liang**, et al., for “Precise Localization of Offset Wells Crossed With Deep Directional Resistivity Measurements.”
- **Yong-Hua Chen, Saad Omar, and Lin Liang**, et al., for “Deep-Directional Resistivity Ranging for Near-Parallel Cased Well in Scenarios Either Vertical or Horizontal to Formation Layers.”
- **Olga Podgornova and Lin Liang**, et al., for “Full-Waveform Inversion of Fiber-Optic VSP Data From Deviated Wells.”
- **Paul Craddock, Jeffrey Miles, and Lalitha Venkataramanan**, et al., for “Estimation of Matrix Properties From Geochemical Spectroscopy Logs Using Machine Learning.”
- **Ting Lei, Lin Liang, and Romain Prioul**, et al., for “Sonic Data Classification Using Supervised Machine-Learning Approach.”

BRAZIL CHAPTER

General News

Our monthly meetings are being held online every third Tuesday of the month at 4 pm (Brasilia Time). Anyone wishing to participate is welcomed. We also post chapter updates and meeting links on our LinkedIn page (SPWLA Brazil Chapter) – check us out. For further information about the chapter, please contact our secretary, Leonardo Gonçalves (leonardo.g@petrobras.com.br). Membership to our chapter is free and can be claimed by filling out the form available at <https://lnkd.in/g4KQjYf>. Meetings are held in Portuguese or English, depending on the preference of the speaker. Even if it is held in Portuguese, questions in English are also welcomed!

Recent Events

19 April 2022—We had Nora Alarcon, petrophysicist advisor from Baker Hughes, present “Applications of Pulsed-Neutron Technology in the Determination of Mineralogical Models: A Case Study,” which discussed the use of pulsed-neutron gamma ray spectroscopy tools to determine the chemical elements of the rock matrix and the development of mineralogical models using this information, demonstrating the impact on oil and gas field development projects.

17 May 2022—We had Wen Pan, a graduate research associate at the Hildebrand Department of Petroleum and Geosystems of the University of Texas at Austin. The talk entitled “Reducing Uncertainty of Petrophysical Interpretation via Machine Learning and Statistical Methods” discussed advanced statistical methodologies to normalize and standardize well logs in order to correct environmental effects and optimize the use of this information in machine-learning approaches.



195ª Reunião Mensal

Terça-feira, 17 de maio, 16h - Teams meeting

Reducing uncertainty of petrophysical interpretation via machine learning and statistical methods

Wen Pan
University of Texas at Austin



Invitation to May monthly meeting of SPWLA Brazil Chapter.



194ª Reunião Mensal

Terça-feira, 19 de abril, 16h - Teams meeting

Aplicações da tecnologia de nêutron pulsado na determinação de modelos mineralógicos: Um estudo de caso

Nora Alarcon
Petrophysics Advisor
Baker Hughes

Invitation to April monthly meeting of SPWLA Brazil Chapter.

Last, but not least, our LinkedIn page has reached 500 followers!



Obrigado!
500
followers



21 June 2022—We hosted Artur Posenato, who presented “Improved Interpretation of Electrical Resistivity Measurements in Mixed-Wet Rocks.” Artur Posenato is a petrophysicist with Chevron.

SPWLA
Brazil chapter

196ª Reunião Mensal
Terça-feira, 21 de junho, 16h - Teams meeting

Improved Interpretation of Electrical Resistivity Measurements in Mixed-Wet Rocks

Artur Posenato
Chevron

Invitation to June monthly meeting of SPWLA Brazil Chapter.

COLOMBIA CHAPTER

Board of Directors

Miembro	Cargo SPWLA COL	Empresa	Linkedin
Maria Florencia Segovia	President	Ecopetrol	https://www.linkedin.com/in/maria-florencia-segovia-64bba933/
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Recent Events

12 May 2022—The professional chapter SPWLA Colombia held jointly with the student chapter SPWLA UIS an event entitled “How DOES Formation Evaluation Fit in the Energy Transition?” by senior members from different oil companies such as Schlumberger, Halliburton, and ICP-Ecopetrol. The event was held via Zoom.

TECHNICAL AGENDA
May 12th, 2022

5.00pm - 5.05pm: SPWLA Colombia Opening

5.05pm - 5.15pm: Andrés Mantilla (Former CEO ICP, Ecopetrol) "Energy Transition: Present and Future Visions for Colombia".

5.15pm - 5.20pm: Q&A Section

5.20pm - 5.30pm: Mike Simmons (Technology Fellow for Geoscience and the Energy Transition - Landmark Software & Services - Halliburton) "Digital Geoscience Technology and Screening for Carbon Storage".

5.30pm - 5.35pm: Q&A Section

5.35pm - 5.45pm: Robert Laronga (Petrophysics Domain, Principal Geologist, & Unconventional Domain Team Lead at Schlumberger) "Petrophysics Applications for CCS".

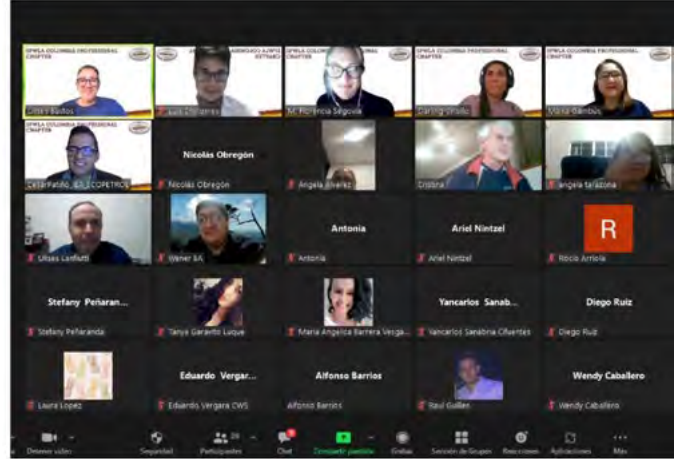
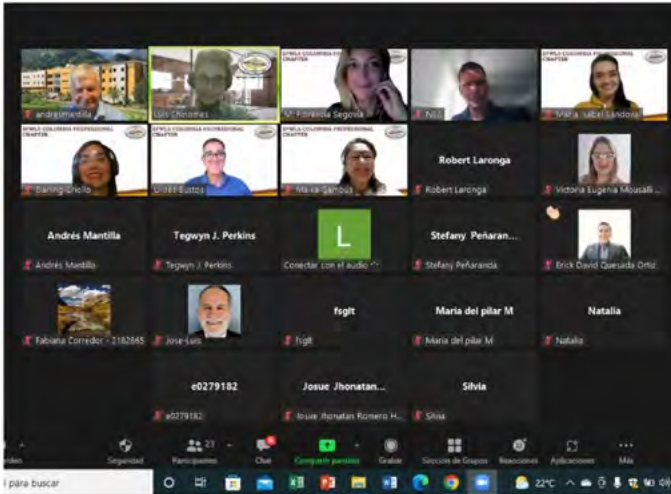
5.45pm - 5.50pm: Q&A Section

5.50pm - 6.00pm: Kristy Kirkman (Project Manager (CEC) for RCA, SCAL, EOR, Digital Rocks (CoreFlow), and Petrology) "Role of Core and Cuttings in CCUS Evaluation".

6.00pm - 6.05pm: Q&A Section

FREE

ORGANIZED BY:



16 June 2022—SPWLA Colombia held jointly with SPWLA UIS SPWLA UIS its third event entitled “Geothermal as a Strategy in the Energy Transition From the Perspective of Training Assessment” by MBA César Patiño (Global Chair of the Enhanced Recovery Technology Collaboration Board of the International Energy Agency). The event was held via Zoom.

Upcoming Events

SPWLA Colombia will attend an upcoming meeting with the new Latin American Regional Director, Nelson Suarez.

The team will also hold an event entitled “How Relevant Is Rock Typing in Formation Evaluation?” with speaker Juan Porras (specialist in petrophysics and subsurface data integration – president of Inter Rock company).

César Patiño

"ENERGÍA GEOTÉRMICA COMO ESTRATEGIA EN LA TRANSICIÓN ENERGÉTICA DESDE LA PERSPECTIVA DE LA EVALUACIÓN DE FORMACIONES"

Junio 16, 2022
5:00PM (GTM- 5)

"DEL ANÁLISIS DE NÚCLEOS A LA ENERGÍA GEOTÉRMICA"

MBA César Patiño quien cuenta con + 24 años de experiencia en la industria petrolera y ha estado en posiciones como presidente mundial de la mesa de colaboración tecnológica en recobro mejorado en la agencia internacional de Energías, es líder a nivel latino américa y caribe en SPE GAIA y actualmente forma parte de la gerencia técnica de la ingeniería de yacimientos para Ecopetrol.

ORGANIZADO POR:

Follow us on our social networks

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

DUBAI CHAPTER

General News

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

Recent Events

16 February 2022—The first presentation of 2022 had very good attendance, and a very interesting topic was presented by Dr. Yang. It was a consistent and well-explained presentation where he explained the reasons for casing deformation and tubing eccentricity and how to evaluate it efficiently.

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

'THROUGH-TUBING CASING DEFORMATION AND TUBING ECCENTRICITY IMAGE TOOL FOR WELL INTEGRITY MONITORING AND PLUG-ABANDONMENT'
Speaker: Dr. Qinshan Yang

Please join us for this SPWLA Microsoft Teams-Webinar
Date : Wednesday, 16th February 2022
Time : 5:00pm Dubai-UAE Time
Registration for the technical session event in the link below:
[Registration link](#)

SPWLA Dubai Chapter Sponsor
GOWELL

29 June 2022—The second presentation of 2022 was presented by Dr. Ihsan Gok, entitled “An Overview of Production Logging Tools (PLT) for Horizontal Wells.”

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

'An Overview of Production Logging Tools (PLT) for Horizontal Wells'
Speaker: Dr. Ihsan Gok

Please join us for this SPWLA Microsoft Teams-Webinar
Date : Wednesday, 29th June 2022
Time : 5:00pm Dubai-UAE Time
Registration for the technical session event in the link below:
[Link](#)

SPWLA Dubai Chapter Sponsor
GOWELL

Dubai SPWLA Chapter would like to thank GOWell for the generous sponsorship.



FORMATION EVALUATION SOCIETY OF MALAYSIA (FESM)

General News

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

Recent Events

19 May 2022—FESM hosted its third virtual event by Michel Claverie, a petrophysics advisor, now lecturing at the MSc Petroleum Engineering course at the Imperial College London. He delivered a presentation on the topic “Evaluation of Single Well Petrophysical Uncertainty as a Path Towards Improved Reservoir Geomodel Accuracy.” The presentation is based on the one-day course given at the SPWLA 2021 Symposium that described simple methods to illustrate and quantify the uncertainty of porosity and water saturation estimates from single well petrophysics and highlighted often ignored pitfalls in openhole (primary evaluation) and casedhole (reservoir monitoring) conditions.

23 June 2022—FESM hosted the fourth virtual event by Brian Stambaugh, a consultant from NMR Petrophysics LLC. In this presentation, Brian reviewed the use of NMR logs for fluid identification. There are five basic methods of fluid identification from NMR, and this talk provides an overview and examples of each, providing a good overview for geologists, engineers, and petrophysicists.

FORMATION TESTING SIG

General News

The FT SIG held board elections for the 2022–2023 year in April. The new board takes over for the outgoing board of **Chair:** Wilson Pineda, **Secretary:** Anup Hunnur, and **Treasurer:** Soraya Betancourt. The new board wishes to convey their sincere appreciation and gratitude to the outgoing board for all their work in advancing the FT community during their tenure and especially through the COVID pandemic!

New Board Members

Chair: Steve Smith

Vice-Chair: Gibran Hashmi

Secretary: Camilo Gelvez

Treasurer: Scotty Paul



New 2022–2023 FT SIG Board Members.

HOUSTON CHAPTER

General News

The Houston Chapter was awarded the organization of the SPWLA Annual Symposium in 2023! This will be in Lake Conroe, Texas, from June 10–14, so mark your calendars to attend a Texas-sized conference and exhibition. We are hopeful about hosting our main event next year. Our main focus as a chapter will be to plan an excellent conference in the upcoming months. Please look at our promotional video in the link below if you have not done.

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

Follow us on LinkedIn: <https://www.linkedin.com/company/spwla-formation-testing-sig/>

International Participation: We are excited by the level of international involvement and participation in the SIG. If you have an interest in formation testing, regardless of your location, we encourage you to join and get involved with the FT SIG! Your participation is valuable, and we would like to help connect regional participants in order to facilitate discussion on regional challenges for the advancement of FT solutions.

Recent Events

11 June 2022—A Formation Testing Workshop was held as part of the 63rd Annual Symposium. The workshop was well received by 10 attendees, and there was lively interaction with a focus on practicality. A big thanks to Thomas Pheiffer and Adriaan Gisolf for coordinating and facilitating.

Upcoming Events

Webinar Series: After a handover meeting, the new board has started planning out events for the year ahead. We plan to start the webinar series again after the northern-hemisphere summer. If you have topics or ideas for the webinar series, please let us know! (Formation.Testing.SIG@spwla.org)

In-Person Event: We are really excited to get back to in-person events this year! Watch for more details...

The Houston Chapter continues to organize and support many interesting and fun activities for its members. We recently organized three technical seminars with **Igor Kuraev** (ROGII), the 2014–2015 SPWLA President **David Kennedy** (QED Petrophysics LLC.), and the 2021–2022 SPWLA Global Distinguished Speaker **Haijing Wang**. We would like to sincerely thank the speakers for their great talks. Additionally, the Houston Chapter supported the Charity Golf Tournament that was organized by Geolog. The event was fun, and it was a great opportunity to meet professionals in a healthy and slightly competitive environment.

Furthermore, we would like to thank all the attendees and participants for making these events successful and Q&A sessions lively and dynamic. We work diligently to bring the best speakers for you, and we are looking forward to seeing you again at our upcoming events and activities. Furthermore, a huge thanks to **ROGII** and **Geolog International** for sponsoring our seminars and providing great venues.

SPWLA Houston successfully organized its board elections. We would like to congratulate the newly elected 2022–2024 board members and thank and honor our outgoing board members. More details about the 2022–2024 board will follow below. We also had two members of our board recognized in the international symposium in Stavanger. The Houston Chapter has planned many interesting events for the incoming cycle. On June 23, we hosted a virtual seminar titled “Bridging the Gap Between Reservoir and Sample; Reducing Asset Development Risk by Using Downhole Mercury Trapping and Non-Reactive Sampler for Trace Component Sampling” presented by **Bjørn Dybdahl** (Expro). We would like to invite you to attend our last in-person social networking event with the current chapter board and the first with the upcoming board. **This networking event will take place on July 14 (5:30 to 8:30 pm) at the King’s BierHaus (2044 E. TC Jester Blvd Houston, TX 77008).**

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

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

Recent Events

SPWLA Houston Chapter April Lunch Seminar

27 April 2022—SPWLA Houston Chapter recently organized a lunch seminar with **Igor Kuvaev (ROGII)** titled “Proactive Geosteering With Resistivity: Propagation, Deep and Ultradeep Tools, Case Studies From Offshore and Onshore Fields.” We would like to thank Scott for presenting his work to our chapter members and other attendees who were interested in the topic. Moreover, a huge thanks to **ROGII** for providing the venue and sponsoring this event.

Charity Golf Tournament

10 May 2022—The Houston Chapter supported the Charity Golf Tournament that was organized by Geolog. This charity event took place at the BlackHorse Golf Club. Proceeds were donated to science programs for school districts in Houston and the surrounding metropolitan areas. Participants had a joyful day at a beautiful location in nice weather. Additionally, the SPWLA Houston Chapter donated prizes for door raffles.



SPWLA Houston Chapter May Lunch Seminar

11 May 2022—The Houston Chapter of SPWLA would like to express its gratitude to the 2014–2015 SPWLA President **David Kennedy** (QED Petrophysics LLC.) for presenting his insightful work titled “Generalizing the Geometrical Factor Theory.” This seminar was well attended, and we had a lively and very informative Q&A session.

SPWLA Houston Chapter June Lunch Seminar

9 June 2022—SPWLA Houston Chapter recently organized a lunch seminar with the 2021–2022 SPWLA Global Distinguished Speaker **Haijing Wang** (Chevron) titled “Improving Dielectric Interpretation by Calibrating Matrix Permittivity and Solving Dielectric Mixing Laws With a New Graphical Method.” This seminar was well attended by in-person and virtual participants. We would like to thank Haijing for presenting his work to our chapter members and other attendees who were interested in the topic. Moreover, a huge thanks to **Geolog International** for providing the venue and sponsoring this event.

SPWLA Annual Symposium in Stavanger, Norway

11–15 June 2022—Several of our local members traveled to Norway to participate in the annual symposium. The conference had a strong technical program as well as several preconference workshops and activities for members and spouses. We also had two members of our board recognized in the international symposium in Stavanger: VP Westside 2020–22 Bernd Ruehlicke (Eriksfiord) as SPWLA Distinguished Speaker and Editor 2020–22 Artur Posenato Garcia (Chevron) with the Young Professional Technical Award. In addition, President 2020–22 Javier Miranda (DeGolyer and MacNaughton) and Bernd Ruehlicke organized with others the following two workshops respectively: “The Importance of Petrophysics in Resources and Reserves Estimation” and “Introduction to Borehole Image Analysis.” Other local members and past officers were recognized for their contributions to our society during this event. Please check other sections of this issue for more information.

23 June 2022—A Virtual Seminar, “Bridging the Gap Between Reservoir and Sample; Reducing Asset Development Risk by Using Downhole Mercury Trapping and Non-Reactive Sampler for Trace Component Sampling,” was presented by Bjørn Dybdahl (Expro).

2022–2024 SPWLA Houston Chapter Election Results

SPWLA Houston would like to congratulate the newly elected 2022–2024 board members. We look forward to a great year ahead of us, especially with the 2023 Annual Symposium being hosted by our chapter! The 2022–2024 board will be as follow:

- President:** Bernd Ruehlicke, Eriksfiord
(Note: VP Westside of 2020–2022 board)
- VP Downtown:** Artur Posenato Garcia, Chevron
(Note: Editor of 2020–2022 board)
- VP Northside:** Amer Hanif, Baker Hughes
- VP Westside:** Neal Cameron, Geolog International
- Treasurer:** Ronke Olutola, BHP
(Note: Treasurer of 2020–2022 board)
- Secretary:** Hans Wong, Halliburton
(Note: Secretary of 2020–2022 board)
- Editor:** QinShan “Shan” Yang, GOWell
- Webmaster:** Tianmin Jiang, ConocoPhillips
(Note: Webmaster of 2020–2022 board)

SPWLA Houston also would like to take a moment to thank and honor our outgoing board members. You have made a difference through your dedication and continued support of SPWLA Houston activities.

- President:** Javier Miranda, DeGolyer and MacNaughton
- VP Downtown:** Hyungjoo Lee, Helmerich & Payne
- VP Northside:** Jeffrey Crawford, Halliburton

Upcoming Events

SPWLA Houston Chapter Networking Event and Introduction to 2022–2024 Local Board

14 July 2022—The Houston Chapter would like to invite you to attend our last in-person social networking event with the current chapter board and the first with the incoming board from 5:30 to 8:30 pm. The entire SPWLA community is invited; no need to RSVP and come at your own leisure. Come and mingle with fellow petrophysics enthusiasts. Our social events are well attended by petrophysicists, geologists, geophysicists, engineers, and managers. We expect to have also current and past SPWLA International board members and well as recognized names in our industry! We encourage you to follow CDC rules and self-check before attending. This will be an outdoor event so dress appropriately for Houston’s early July weather!

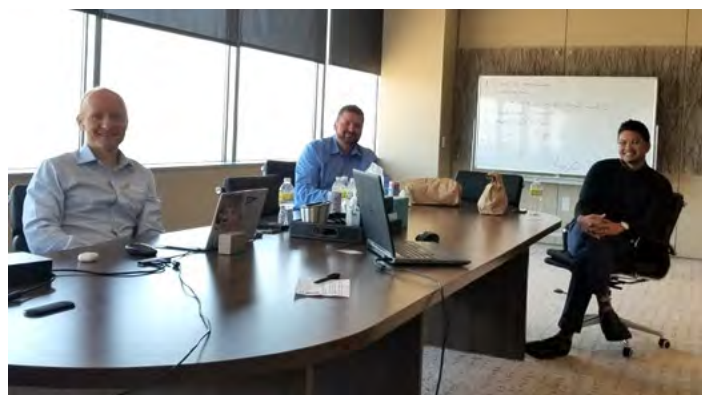
Location:
King’s BierHaus
2044 E. TC Jester Blvd
Houston, TX 77008

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/>

Always stay tuned!



The incoming SPWLA Houston Chapter President Bernd Ruehlicke thanking Igor Kuvaev (ROGII) for his great technical seminar.



Igor Kuvaev (ROGII) chatting with attendees after his technical seminar.



SPWLA Houston Chapter President Javier Miranda introducing our guest speaker, the 2014–2015 SPWLA President David Kennedy.



SPWLA Houston Chapter President Javier Miranda delivering an appreciation gift to the speaker David Kennedy.



David Kennedy kicking off his very insightful technical talk by going through the first principles behind the conductivity of rocks.



The Houston Chapter supported the Charity Golf Tournament that was organized by Geolog.



SPWLA Houston Chapter President Javier Miranda shaking hands with our guest speaker, the 2014–2015 SPWLA President David Kennedy, after a great talk.



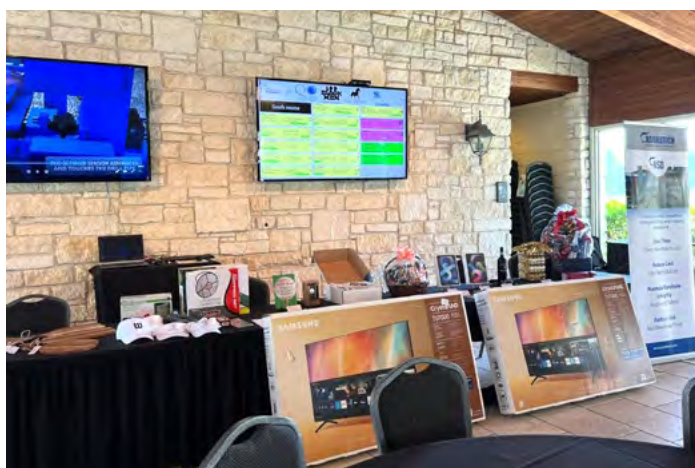
SPWLA Houston Chapter President Javier Miranda teaching some golf techniques to the 2018–2019 SPWLA President Zhipeng “Z” Liu.



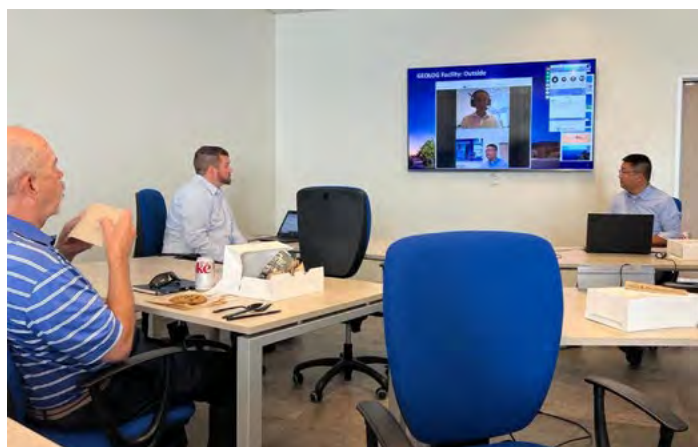
After a full day of fun activities, the attendees of the Charity Golf Tournament were pretty thirsty.



SPWLA Houston Chapter President Javier Miranda might have gotten a ticket to an Astros game.



There were many awesome raffle prizes at the Charity Golf Tournament.



The 2021–2022 SPWLA Global Distinguished Speaker Hajing Wang (Chevron) giving a talk on the interpretation of dielectric measurements.











The 2018–2019 SPWLA President Zhipeng “Z” Liu got himself a very nice BBQ cutting board.



The SPWLA Houston Chapter Vice-President Downtown Hyungjoo Lee delivering an appreciation gift to Hajing Wang for his superb talk

SPWLA Houston Chapter Board for 2020–2022

 <p>Javier Miranda PRESIDENT president@spwla-houston.org</p>	 <p>Jeff Crawford VICE-PRESIDENT NORTH SIDE vpnorthside@spwla-houston.org</p>
 <p>Hyungjoo Lee VICE-PRESIDENT DOWNTOWN vpdowntown@spwla-houston.org</p>	 <p>Bernd Ruehlicke VICE-PRESIDENT WESTSIDE vpwestside@spwla-houston.org</p>
 <p>Ronke Olutola TREASURER treasurer@spwla-houston.org</p>	 <p>Hans Wong SECRETARY secretary@spwla-houston.org</p>
 <p>Artur Posenato Garcia EDITOR editor@spwla-houston.org</p>	 <p>Tianmin Jiang WEBMASTER webmaster@spwla-houston.org</p>

Thanks for your support over the last couple of years, and we invite you to continue supporting our new board 2022–2024!

HYDROCARBON RESERVES SIG

General News

The SPWLA Hydrocarbon Reserves SIG Board continued to respond to comments and feedback related to the SIG's contribution to the upcoming update of the "Guidelines for

Application of the Petroleum Resources Management System" (PRMS Application Guidelines). As has been previously noted, the SIG has been actively working on the designated petrophysics chapter (Chapter 5) of the PRMS Application Guidelines along with the Oil and Gas Reserves Committee (OGRC).

In addition, the SIG prepared for and held the Norway SPWLA 2022 Workshop on "The Importance of Petrophysics in Resources and Reserves Estimation."

Recent News

In May, the SIG had a change of its board members as some of the founding board members took on additional roles in SPWLA. The SIG is very grateful to the SIG's founding President, Luis Quintero, and Vice President, Javier Miranda, for starting the SIG and steering the SIG through the COVID 19 period. They remain very active advisors to the SIG. Below are the new SIG board members:

President:	Joshua Oletu (GaffneyCline)
Vice President:	Cecilia Flores (Ryder Scott)
Secretary:	Philip Gibbons (GaffneyCline)
Advisor:	Luis Quintero (Halliburton)
Advisor:	Javier Miranda (DeGolyer and MacNaughton)

3 May 2022—The SIG recently participated in a social event during the OTC (Offshore Technology Conference) to connect with some of our professionals attending the conference from outside the US. The picture below shows the board members who were able to attend the event.

12 June 2022—Furthermore, the SIG successfully held the SPWLA Symposium Workshop #6: "The Importance of Petrophysics in Resources and Reserves Estimation" in Stavanger. The workshop was hosted and facilitated by Luis Quintero and Philip Gibbons.

Upcoming Events

The SIG is planning a virtual general meeting in the third quarter (date and time to be communicated) to welcome new SIG members and plan activities for the coming year. Furthermore, we are soliciting new members to join the SIG, given the importance of resources and reserves estimation in our industry.

SIG contact email: reserves_sig@spwla.org



Board members that attended the OTC Social Event in Houston. (From left to right) Javier Miranda (HyRes SIG ex-Vice-President), Joshua Oletu (HyRes SIG new President), Luis Quintero (HyRes SIG ex-President), and Cecilia Flores (HyRes SIG new Vice President).

SPWLA Symposium Workshop #6: “The Importance of Petrophysics in Resources and Reserves Estimation” in Stavanger, Norway



Luis Quintero (HyRes SIG President 2020–22) facilitating a session during the SIG first workshop and exemplifying the interaction of instructors and attendees



Our first workshop went well, with some good discussions throughout the day. It also motivated more SPWLA members to join HyRes SIG (both workshop attendees and others!).



Phil Gibbons (HyRes SIG Secretary) hosting sessions at the Workshop (Picture taken by Luis Quintero).



Instructors and attendees (from left to right): Subhadeep Sarkar, Phil Gibbons, Clement Aina, Luis Quintero, Bengt Pedersen, Sanchita Ganguly, Stefan Calvert, and Mirza Baig.

IGUP STUDENT CHAPTER-PAKISTAN

General News

SPWLA IGUP Student Chapter-Pakistan is preparing for the next year’s targets and engaging the different universities in Pakistan to address the problems faced by the students in the field of research.

Boards of Directors (2021–22)

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

Dr. Muhammad Armaghan Faisal Miraj Faculty Advisor
armghan.geo@pu.edu.pk

Mr. Muhammad Bilal Malik President
bilalmalik00791@gmail.com

Miss Pal Washa Shahzad Rathore Vice-President
palwashashahzad97@gmail.com

Mr. Rana Faizan Saleem Secretary
ranafaizan7737@gmail.com

Mr. Sher Afgan Treasurer
sherafgan1994@gmail.com

Miss Maha Ali Haider International Relations Chairperson
mahaalihaider26@gmail.com

Miss Irza Akhtar Membership Chairperson
irzaakhtar1999@gmail.com

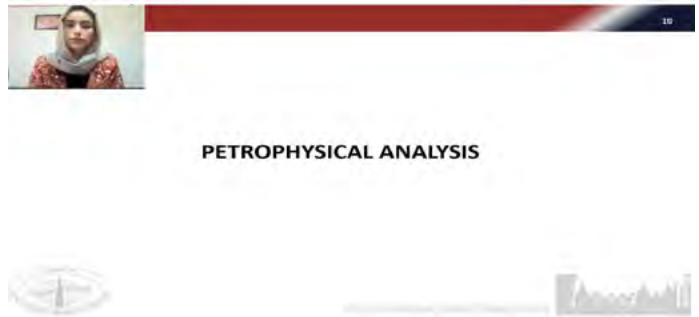
Mr. Shan Shahzad Event Manager
shan.mphil.geo@pu.edu.pk



Board of Directors of SPWLA IGUP Student Chapter-Pakistan (2021–22).

Recent Events

12 June 2022—SPWLA IGUP Student Chapter-Pakistan helped the presenters of IGUP to prepare their work in an efficient way for the SPWLA ISPC (International Student Paper Contest). Two presenters were selected from the SPWLA IGUP for the paper contest; one of them is Mr. Muhammad Talha, and the other one is Miss Bushra Mohsin. Out of which, Miss Bushra Mohsin was awarded third place in the ISPC-22 (Undergraduates Category). The topic of the research entitled “Structural and Petrophysical Analysis of the Jabo Field, Lower Indus Basin, Pakistan.” IGUP Chapter congratulates Miss Bushra Mohsin for her great achievement.



Miss Bushra Mohsin presenting her research work in the ISPC-22 competition.



Winners of the SPWLA ISPC competition (Undergraduates Category), in which presenter (Miss Bushra Mohsin from the IGUP chapter) got third place.

Upcoming Events

SPWLA IGUP Student Chapter-Pakistan is planning to organize a webinar for students in the next month.

More details about the upcoming events and updates can be seen on our social pages:

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

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

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

INDIA CHAPTER

Recent Events

January–March 2022 Talks

- Value Addition Through Enhanced Microresistivity Imaging in Oil-Based Mud
- Real-Time Fracture Characterization Using LWD Microresistivity Imaging Gives a Fillip to Devise Optimal Completion Strategy Using Inflow Control Devices (ICD) in Horizontal Drain Holes
- Quantifying Uncertainty Through AI-ML-Driven Advanced Lithology Interpretation

Read in full detail: http://spwlaindia.org/wp-content/uploads/2022/04/SPWLA_Q4_Bulletin.pdf.

OU STUDENT CHAPTER

General News

After having a successful election, here are the new OU Chapter executives for the 2022–2023 academic year.

- President:** Daniel Ferreira (daniel.ferreira@ou.edu)
Vice President: Yuan Fang (yuan.fang@ou.edu)
Secretary: Rishabh Pandey (rishabh.pandey@ou.edu)
Treasurer: Blessed Amoah (blessedamoah@ou.edu)

SWPLA Executives 2022/2023



Daniel Ferreira, President
PE Sophomore



Yuan Fang, Vice President
PE Master's Student



Rishabh Pandey, Secretary
PE Master's Student



Blessed Amoah, Treasurer
PE Master's Student

PDDA SIG

General News

The SPWLA PDDA SIG had a committee change recently: Chair: Hyungjoo Lee, senior research scientist at Helmerich & Payne; Vice-Chair: Lei Fu, data scientist at Aramco Americas; Chief Event Officer: Wen Pan, AI resident at Shell; Secretary, Treasurer: Jaehyuk Lee, lead engineer at Baker Hughes; Advisors: Yanxiang Yu, AI resident at Shell and Michael Ashby, petrophysical advisor at Devon Energy.

With the new committee being formed, PDDA SIG will continue serving the community by hosting machine-learning competitions, promoting technical publications, and hosting technical conferences on the topic of machine-learning applications in petrophysics.

Recent Events

November 2021 to March 2022—PDDA hosted its second machine-learning competition on the topic of reservoir property estimation. Over 100 teams

globally registered for the competition, and over 1,000 submissions were made to the platform. The competition results and winning solutions have been published on the Github page: <https://github.com/pddasig/Machine-Learning-Competition-2021>. A paper that summarizes the competition and the winning solutions is in progress.

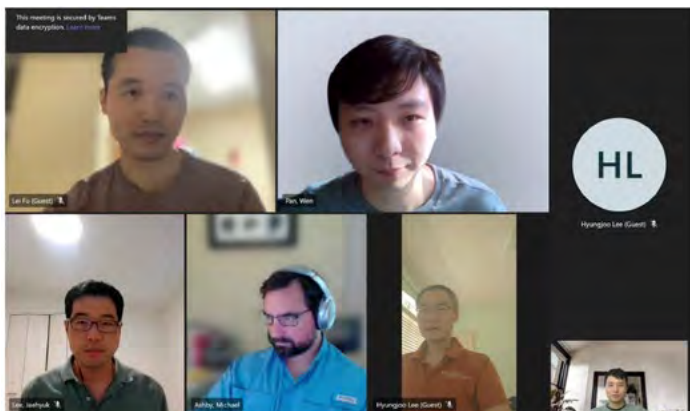
23–24 March 2022—PDDA SIG led the organizing of the SPWLA Spring Topical Conference on the topic of Petrophysical Machine Learning. The conference featured 20 excellent presentations and one panel discussion. Over 60 participants have attended the event in person (Halliburton North Belt Campus) or virtually. We received high praise from the attendees and the SPWLA board regarding the organizing and quality of presentations.

10 June 2022—The new committee just hosted its first meeting. We have summarized the events and activities in the past year and plans for the new year.

Upcoming Events

Lei Fu will lead a publication to summarize the competition and the winning solutions.

Wen Pan will be the guest editor for the *Petrophysics* AI/ML special issue, which includes papers from the Spring Topical Conference.



UFRJA STUDENT CHAPTER

General News

Our chapter maintains normal activities with 13 active members organized below:

Board Members:

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

Executive Members:

Bruno Valle
Teresa Mourão
Rodrigo Azambuja

Marketing Members:

Gabriel Ferraz
Nicole Ávila
Renan Camilo

Logistic Members:

Alexandre Nobre
Enzo Borges
Guilherme Lontra

Recent News

April 2022—Our members still get together at least once per month to discuss our marketing strategy and organize future events. As a result of the selection process opened in April, four new members joined the team recently: Enzo Borges, Guilherme Nobre, Nicole Ávila, and Renan Camilo. With the addition of new members, it was possible to place leaders for each area to strengthen them, namely Alexandre Nobre (Logistics leader) and Gabriel Ferraz (Marketing leader). We finished a series of posts on Instagram about Brazilian sedimentary basins, talking about our five main basins: Campos, Santos, Potiguar, Recôncavo, and Espírito Santo.

11–15 June—The SPWLA Annual Symposium occurred, where our members Sarah Aleixo and Teresa Mourão participated in the Internal Student Paper Contest, with the project called “Machine Learning Applied to Facies Classification Using Well Logs From Santos Basin.” They were awarded second place.



Our members, Sarah and Teresa, receiving the second-place award in the Internal Student Paper Contest.

Upcoming Events

We are preparing a series of posts about the Internal Student Paper Contest, explaining how it happened, and sharing videos and photos. In addition, we will be posting information on petrophysics and geology again with our series called “O que é?”

Besides that, our chapter and other UFRJ Student Chapters are working together to make some geology-related courses for college freshmen.

Finally, we will keep sharing through our social media posts some trivia and concepts about well logging and petrophysics. We intend to explore new ways to share our content, such as videos, Stories, Reels, and IGTVs, aiming to reach a wider audience. We recognize the current importance of being active on social media nowadays.

UIS STUDENT CHAPTER – COLOMBIA



Board of Directors

- President:** Luis Alberto Chinomes G. (presidencia@spwlauiis.com)
- Vice President:** Carlos José Medina L. (vicepresidencia.spwlauiis@gmail.com)
- Fiscal:** Karen Ivonne Triana P. (fiscal.spwlauiis@gmail.com)
- Secretary:** Karen Julieth Rojas O. (secretaria.spwlauiis@gmail.com)
- Treasurer:** Tanya Mercedes Garavito L. (contador.spwlauiis@gmail.com)

Recent Events

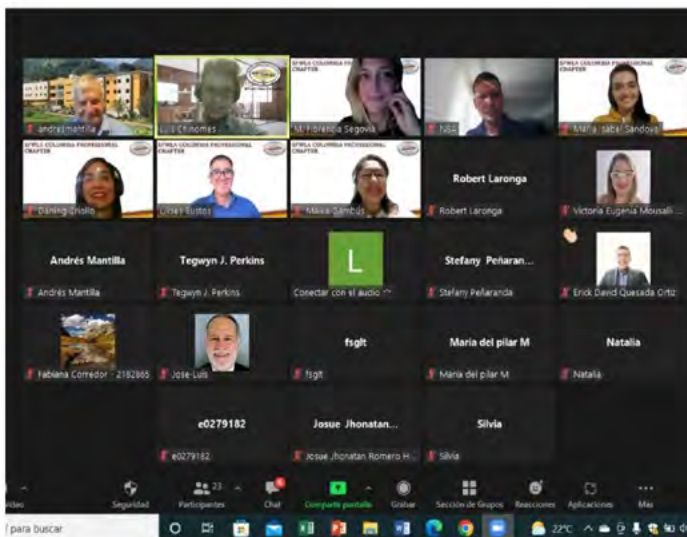
12 May 2022—The SPWLA UIS Student Chapter and SPWLA Colombia organized the event entitled “How Does Formation Evaluation Fit in the Energy Transition?” with senior members from different oil companies such as Schlumberger, Halliburton, and ICP-Ecopetrol. The event was held via Zoom.

TECHNICAL AGENDA
May 12th, 2022

- 5.00pm - 5.05pm: SPWLA Colombia Opening
- 5.05pm - 5.15pm: Andrés Mantilla (Former CEO ICP, Ecopetrol) "Energy Transition: Present and Future Visions for Colombia".
- 5.15pm - 5.20pm: Q&A Section
- 5.20pm - 5.30pm: Mike Simmons (Technology Fellow for Geoscience and the Energy Transition - Landmark Software & Services Halliburton) "Digital Geoscience Technology and Screening for Carbon Storage".
- 5.30pm - 5.35pm: Q&A Section
- 5.35pm - 5.45pm: Robert Laronga (Petrophysics Domain, Principal Geologist, & Unconventional Domain Team Lead at Schlumberger) "Petrophysics Applications for CCS"
- 5.45pm - 5.50pm: Q&A Section
- 5.50pm - 6.00pm: Kristy Kirkman (Project Manager (CEC) for RCA, SCAL, EOR Digital Rocks (CoreFlow), and Petrology) "Role of Core and Cuttings in CCUS Evaluation"
- 6.00pm - 6.05pm: Q&A Section

FREE

ORGANIZED BY:



The SPWLA UIS team participated in an event with the Colombian Geological Service and the ANH (National Agency of Hydrocarbons) in the national lithotech, where there was a presentation about new advances in the Sinu San Jacinto

Basin in our country and a technical visit to the installations to learn more about petrophysics, formation evaluation, and geology.



"ENERGÍA GEOTÉRMICA COMO ESTRATEGIA EN LA TRANSICIÓN ENERGÉTICA DESDE LA PERSPECTIVA DE LA EVALUACIÓN DE FORMACIONES"

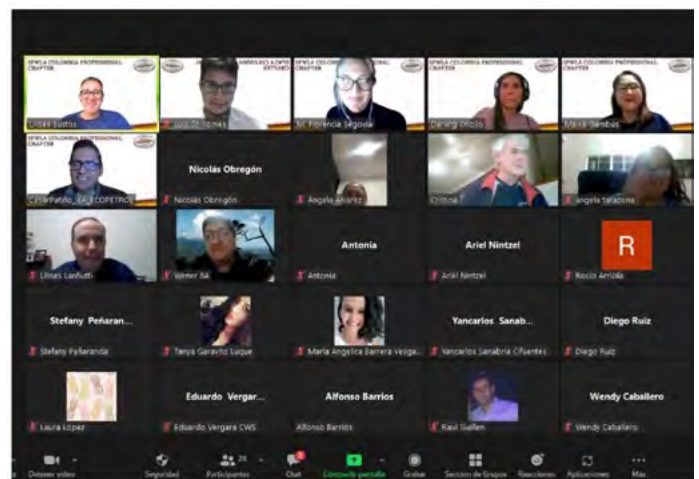
César Patiño

Junio 16, 2022
5:00PM (GTM- 5)

"DEL ANÁLISIS DE NÚCLEOS A LA ENERGÍA GEOTÉRMICA"

MBA César Patiño quien cuenta con + 24 años de experiencia en la industria petrolera y ha estado en posiciones como presidente mundial de la mesa de colaboración tecnológica en recobro mejorado en la agencia internacional de Energías, es líder a nivel latino américa y caribe en SPE GAIA y actualmente forma parte de la gerencia técnica de la ingeniería de yacimientos para Ecopetrol.

ORGANIZADO POR:



16 June 2022—SPWLA UIS and SPWLA Colombia held an event entitled “Geothermal Energy as a Strategy in the Energy Transition From the Perspective of Formation Evaluation” by MBA César Patiño (Global Chair of the Enhanced Recovery Technologies Collaborative Board of the International Energy Agency). The event was held via Zoom.

From Colombia, two research topics were selected to participate in the International Student Paper Contest 2022 in Stavanger, Norway, with students (Karen Triana and Simon Calderon) and recent graduate (Sarai Badillo) from the Universidad Industrial de Santander (UIS). Finally, the judges determined the winners in the following order at the international level:



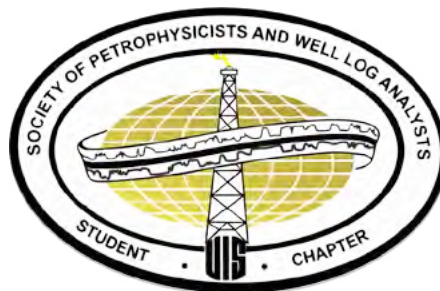
The SPWLA UIS team won for the second time in a row the “Outstanding Student Chapter Award,” in this case for the period 2021–2022. We are grateful to the entire international community, the team, the professionals, and everyone who participated in this great achievement.



June 2022—SPWLA UIS team renewed the board of directors’ positions to start the new administration.

Upcoming Events

July 2022—SPWLA UIS team will launch a new podcast episode.



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/>

Alternative Subsurface and Energy Transition (ASET) SIG

Hello, all Alternative Subsurface and Energy Transition fans!



The ASET SIG is coming off a big win in Stavanger at the SPWLA Annual Symposium after hosting our first workshop. The Store Away ForEver (SAFE) workshop on Nuclear Storage and Carbon Capture was a huge hit. It was mentioned several times over the course of the week by Mathias Horstmann during his opening address and the SPWLA Board during their luncheon discussions. We are so glad we had a great lineup of speakers to present on such a great topic. We had 24 attendees at the workshop, which was the second-

highest enrollment of the symposium. The speaker lineup below was very informative from both the nuclear storage and CCS industry, as well as showing the expansion of the petrophysical expertise in these other domains.

Opening/Introduction to workshop	Kelly Skuce/Tom Bradley	Core Petrophysical / Baker Hughes
Introduction to disposal of radioactive waste	Piet Zuidema	EURAD / Zuidema Consult
Nuclear Waste Repositories in crystalline formations	Johan Andersson	Jabia AB
Sediments and operations	Rodney Garrard & Jean Desroches	Nagra
Repository Experience & Salt & Plans	Joachim Strobel & Frank Meier	BGE
Use of boreholes	John Midgley	Deep Isolation
Digital twin modeling	István Szoke	Institute for Energy Technology
Introduction to CCS and select Case Studies	Neeraj Gupta	Battelle
Detailed Core Analysis for CCS	Katy Larson	Battelle
Data Needs for CO ₂ Storage Project Surveillance	Philip Ringrose	Equinor/NTNU
Aquastore MMV learnings / Public Perception	Erik Nickel	Petroleum Technology Resource Center

From the discussion which followed the presentations, there is a great desire to expand the knowledge of petrophysics outside of its main domain of oil and gas into these new areas. Petrophysics and log analysis have long been done in these new areas, but they haven't been the focus of the symposium and the petrophysical community at large. The speakers showed how much has been done, and it isn't much different from what we have already been doing.

There will be new articles in *SPWLA Today* forthcoming from the speakers in the various domains. Rodney Garrard (Nagra) will be first up and will discuss log analysis and petrophysics from the aspect of the nuclear storage industry. Let us know at aset_sig@spwla.org if you know of other speakers outside the oil and gas domain who might want to be highlighted in our column.

There is also a push for keeping the nuclear storage conversation going after starting in Stavanger. A Fall or Spring Topical Conference in Europe (the hotbed for this domain) for two days on this topic is being planned.



Welcome New Members: April 20, 2022–June 10, 2022

Agrawal, Rozy, ONGC LTD, Ankleshwar, Gujarat, India

Al Hajri, Salim, BP, Muscat, Oman

Amiel, Jean-Paul, Gowell Oilfield Technologies FZE, Dubai, United Arab Emirates

Baig, Mirza Hassan, Vår Energi, Tananger, Rogaland, Norway

Barbosa De Araujo, Alexandre Magno, Petrobras, Rio De Janeiro, Brazil

Birkeland, Sarah, Equinor, Sandnes, Rogaland, Norway

Candido, Ary, Petrobras, Rio De Janeiro, Brazil

Cavalcanti De Castro Laier, Ana, Petrobras, Rio De Janeiro, Brazil

Chandra, Rajesh, ONGC LTD, Vadodara, Gujarat, India

Chauhan, Kundan, ONGC LTD, Gujarat, India

Cuevas, Nestor, Schlumberger, Tananger, Norway

Daoudi, Imene, Baker Hughes, London, United Kingdom

Denichou, Jean Michel, Schlumberger, Stavanger, Rogaland, Norway

Desroches, Aaron, NWMO, Toronto, ON, Canada

Fajt, Michal, AGH - UST, Cracow, Lesser Poland, Poland

Fan, Jilin, China University of Petroleum (East China), Qingdao, China

Francoise, Allioli, Schlumberger, Clamart, France

Galdal, Embla, ConocoPhillips, Stavanger, Norway

Guimaraes, Margareth, Petrobras, Rio De Janeiro, Brazil

Gundersen, Sven, Repsol, Stavanger, Rogaland, Norway

Harms, Kent, Schlumberger, Richmond, TX, United States

Karampuri, Ajay, ONGC LTD, Gujarat, India

Klaudi, Karl, DarkVision Technologies, Seacrest, FL, United States

Klein, Andrew, NuTech Energy, Houston, TX, United States

Kostinovsky, Aygul, Chevron, Houston, TX, United States

Kumar, Jayant, ONGC LTD, Ankleshwar, Bharuch, India

Kumar, Niranjan, ONGC LTD, Vadodara, Gujarat, India

Kumar, Pradeep, ONGC LTD, Bharuch, India

Kumar, Vivek, ONGC LTD, Ankleshwar, Bharuch, India

Lakshatanov, Dmitry, BP Exploration Operating Company Ltd, Middlesex, United Kingdom

Li, Shanjun, Geoprance, LLC, Katy, TX, United States

Liu, Zhiyuan, China University of Petroleum, Qingdao, China

Lukmanov, Rinat, Petroleum Development Oman, Muscat, Oman

McCann, Chris, DarkVision Technologies, Cypress, TX, United States

McMahon, Simon, Shell, Milltimber, Aberdeenshire, United Kingdom

Mishra, Prashant, ONGC LTD, Ankleshwar, Gujarat, India

Monteihet, Luc, ConocoPhillips, Tananger, Norway

Morales Chavez, Sinai, Instituto Mexicano Del Petroleo, Mexico City, Mexico

Nakamura Junior, Wilson, Petrobras, Batatais, São Paulo, Brazil

Nemushchenko, Danil, ROGII, Istanbul, Turkey

Niemann, Martin, Equinor, Hosle, Viken, Norway

Ninomiya, Tomomi, Schlumberger, Taito-ku, Tokyo, Japan

Oliveira, Eduardo, Petrobras, Macaé, Rio de Janeiro, Brazil

Omma, Jenny, Rocktype, Oxford, Oxfordshire, United Kingdom

Palmer, Richard, Saudi Aramco, Dhahran, Saudi Arabia

Pellegrini, Isabelle, Ziebel, Sandnes, Rogaland, Norway

Raimondi Cominesi, Nicola, Vår Energi, Stavanger, Rogaland, Norway

Rasheva, Svitlana, Equinor, Stavanger, Rogaland, Norway

Rodriguez, Simon Ernesto, Universidad Industrial De Santander, Bucaramanga, Santatnder, Colombia

Rubio, Eduardo, Rubio Romero Rivero CA., Maracaibo, Venezuela

Sarkar, Somnath, ONGC LTD, Ankleshwar, Bharuch, India

Smith, Adam, Quantum Energy Partners, Houston, TX, United States

Solfjell, Elin, PGNIG Upstream Norway, Stavanger, Rogaland, Norway

Tiwari, Vindhreshvari, ONGC LTD, Ankleshwar, Gujarat, India

Van De Bilt, Greg, PanTerra Geoconsultants BV BV, Leiderdorp, Netherlands

Williamson, David, Stephens Production, Spring, TX, United States

Zong, Chang, Lanzhou University, Lanzhou Gansu, China

CROSSWORD PUZZLE SOLUTION

