



spwla today

SPWLA 67th Annual Symposium
May 16–20, 2026
Lake Conroe, TX, USA

Abstracts Submission Deadline:
Sept 30, 2025
OpenWater Login



NEWSLETTER

Petrophysics Journal

PAPERS

- PAPERS ACCEPTED FOR REVIEW THROUGHOUT THE YEAR
- SPWLA CONFERENCE PROCEEDINGS ARE ELIGIBLE FOR SUBMISSION
- PUBLISHED PAPERS AVAILABLE ON SPWLA AND ONEPETRO DIGITAL LIBRARIES



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INFORMATION
ON SPWLA.ORG



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The Society of Petrophysicists and Well Log Analysts
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President
Robert "Bob" Gales
Halliburton
Houston, TX USA
President@spwla.org



President-Elect
Javier Miranda
Katy, TX, USA
President-Elect@spwla.org



VP Communications
Chicheng Xu
OpenPetro AI
Houston, TX, USA
vp-communications@spwla.org



VP Education
Matt Blyth
Houston, TX USA
VP-Education@spwla.org



**VP Finance, Secretary,
and Administration**
Jing Li
Oxy
Houston, TX USA
VP-Finance@spwla.org



VP Information Technology
Peter Barrett
Halliburton
Houston, TX, USA
VP-InfoTech@spwla.org



VP Publications
S. Mark Ma
Saudi Aramco
Dhahran, Saudi Arabia
VP-Publications@spwla.org



VP Technology
Robin Slocombe
AWS Energy
Houston, TX, USA
VP-Technology@spwla.org



VP Technology-Elect
Artur Posenato Garcia
Chevron
Houston, TX, USA
VP-Technology-Elect@spwla.org

The Society of Petrophysicists and Well Log Analysts
REGIONAL DIRECTORS
2025–2026



Asia Pacific
Ryan Banas
PetroRes Consulting
Wattana, Bangkok, Thailand
Director-Asiapacific@spwla.org



Europe
Pascal Debec
TOTAL SA
Pau Cedex, France
Director-Europe@spwla.org



Latin America
Marta Inés D'Angiola
Weatherford
Buenos Aires, Argentina
Director-LA@spwla.org



Middle East/Africa
Elsa Maalouf
American University of Beirut
Beirut, Lebanon
Director-ME@spwla.org



North America 1
Amer Hanif
Baker Hughes
Houston, TX, USA
Director-NA1@spwla.org



North America 2
Andrew Anderson
ConocoPhillips
Bakersfield, CA, USA
Director-NA2@spwla.org



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



Managing Editor
Elizabeth Naggari
(+1) 713-444-3495
editor@spwla.org

Publication Manager
Anna Tarlton
InkSpot Printing
(+1) 713-472-1100
orders@inkspotprinting.com

Graphic Designer
Edgar Morales
InkSpot Printing
(+1) 713-472-1100
orders@inkspotprinting.com

CALENDAR OF EVENTS

September 11–12, 2025

2025 Topical Conference SPWLA East China Chapter
Topic: AI-Empowered Well-Logging Technology: Innovative Practices, Equipment Development, and Future Challenges
Xinxiang, Henan Province, China
www.spwla.org

September 16–17, 2025

Casedhole Formation Evaluation
Instructor: James Hemingway
Online Training Webinar
www.spwla.org

October 23–24, 2025

NMR SIG Conference 2025
Topic: Reaching Full Polarization in a 2025 NMR Conference
Houston, TX USA
www.spwla.org

November 17–19, 2025

International Geomechanics Conference
Al Khobar, Saudi Arabia
<https://www.igsevent.org>

November 18–20, 2025

EAGE/FESM Conference Petrophysics Meets Geoscience: "Unlocking Reservoir Potential in a Dynamic Energy Landscape"
Kuala Lumpur, Malaysia
www.spwla.org

March 23–25, 2026

SPWLA Topical Conference Ultra Deep Azimuthal Resistivity (UDAR)
Geological Society,
London, United Kingdom
www.spwla.org

May 16–20, 2026

SPWLA 67th Annual Logging Symposium
Margaritaville Resort
Lake Conroe, TX USA
www.spwla.org

About the Cover

We are pleased to announce that the SPWLA 67th Annual Symposium will take place in Lake Conroe, Texas, USA, on May 16–20, 2026. Abstract submissions are due by September 30, 2025.

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.

Call for Abstracts

The SPWLA Board of Directors invites you to join us in **Lake Conroe, Texas, USA, May 16–20, 2026**, to showcase your case studies, new technologies, and innovations at the **SPWLA 67th Annual Symposium**.

We will continue the dual technical track and poster session format as in the previous symposiums to showcase the maximum number of contributions.

For SPWLA 2026, we will use the new OpenWater abstract submission portal. The information contained in your abstract is the basis for the acceptance of your paper into the technical program. Abstracts should be a maximum of 600 words divided into four sections: Introduction, Procedure, Results/Observation, and Conclusions, with a maximum of 150 words each. You must include a figure that captures the essence of the work. The Technology Committee has proposed 20 subject areas as a framework for the symposium. Please select the area in which you work most closely corresponds. This selection will have no influence on your chances of selection but is intended to try to match subject matter experts in the Technology Committee to abstracts in their field to help ensure the best technical work is selected. The Technology Committee members rate the work based on technical and innovative content related to petrophysics and formation evaluation.

Your submitted abstract must match your final submitted paper. By submitting an abstract, you are agreeing to all deadlines defined on the abstract submission page. All abstracts and final manuscripts must be in English. Submission details are included in the online "**Instructions to Authors**."

Abstracts must be submitted no later than **11:59 pm Central Time on Tuesday, 30 September 2025**, online at <https://spwla.secure-platform.com/site/solicitations/102008/home>.

Notification of **acceptance** of either oral or poster papers will be made on **1 December 2025**. If selected, your **abstract will be published** online on the Symposium's website in **January 2026**.

Draft manuscripts are due by Monday, 2 March 2026
Final manuscripts are due by Wednesday, 1 April 2026.

Any paper not submitted in finalized format by the deadline shall be removed from the symposium program. After submission, at least two members of the Technology Committee will review and provide feedback on the manuscript to ensure clarity and to avoid overly commercial content. For questions, please contact Stephanie Turner at SPWLA either by phone (+1) 713-947-8727 or by email at stephanie@spwla.org.

We look forward to reviewing your abstracts!

Best regards,



Robin Slocombe
2025–2026 Vice President Technology



Artur Posenato-Garcia
2025–2026 Vice President Technology-Elect

Assisted by: Stephanie Turner, SPWLA



Call for Abstracts

Please read these instructions carefully. When done, print and save a copy, then return to the online portal and select “New Submission” to begin the submission process.

Submission Information

Before submitting a paper proposal, please gather the following information:

- a. Abstract/Manuscript Title
- a. Submission Topic selected from the drop-down lists
- a. Author Information: First and Last Name, affiliation, and email address. A maximum of six (6) authors is permitted for an abstract/manuscript.
- a. Text of abstract in 4 sections:
Introduction - describe the problem that motivated the paper proposal. (75 words minimum and 150 words maximum)
Procedure - describe the approach to the problem solution with particular emphasis on innovative procedures that differentiate the methods. (75 words minimum and 150 words maximum)
Results / Observations - describe significant results and major technical contributions (75 words minimum and 150 words maximum)
Conclusion – describe lessons learned from the study, application of the findings, and opportunities to further deploy methods. (75 words minimum and 150 words maximum)
- a. Graph/Figure summarizing the methodology or main result of the contribution; this **must not** include company or author names
- a. Publication Information (if the manuscript has been published before)
- a. Keyword(s) (associated with submission)

Abstract/Manuscript Title

The abstract title should be ALL CAPS.

1. Do not underline any portion of your title
2. Do not use bold or italics in your title

Abstract Requirements and Format

1. All abstracts must be a minimum of 300 words, with a 600-word maximum as determined by the Technology Committee and specified on the online submission form.
2. Identify the primary Topic area from the list provided to which the abstract is best suited. Abstracts are reviewed by the Technology Committee reviewers and assigned to sessions according to the topic preference selected by the author.
3. SPWLA has a stated policy against the use of commercial trade names, company logos, or text that is commercial in tone in the paper title, text, or slides. Use of such terms will result in scrutiny by the Technology Committee in evaluating abstracts, and the presence of commercialism in the paper may result in it being withdrawn from the program.
4. The substance of the abstract should not have been presented or published before in any other conference or publication venue.
5. The abstract should stand on its own and not refer to another work unless associated with current work.
6. Do not include the title, company names, or author names in the body of the abstract or on the embedded figure. The title and author information will be requested separately through the submission system.

Submission Deadline

All submissions must be received electronically by the stated deadline. Submissions received after the deadline will not be considered. No exceptions will be made.

Confirmation of Submission

An email confirmation is sent to the submitting author upon finalizing your electronic submission. Follow the prompt and enter the email addresses for confirmation. You can also view and print a copy of your submission through the online system once you're finished. Please note your control number and use it in any future correspondence regarding your submission.

Program Committee Review Process

All abstract submissions are reviewed by the Technology Committee. Specific selection and rating criteria are listed under submission requirements.

Call for Abstracts

Author Notifications

Author notifications will be sent to the *Presenting Author* regarding the status of their submission. The notification will provide a link to the appropriate status letter (which can be printed as often as necessary). Notification letters are addressed to the *Presenting Author* only. It is then the responsibility of the *Presenting Author* to share all pertinent information with all Co-Authors. Please note: Highly sensitive anti-spam software may block this notification since it is emailed by a third party. **If you do not receive this email by the notification date, contact the SPWLA immediately.** Confirm that you have provided your correct and complete email address to ensure receiving this notification in a timely manner.

Changes, Cancellations, and Withdrawals

SPWLA and the Technology Committee consider a submitted abstract a commitment to present. If extenuating circumstances prevent the author from making the presentation, it is that author's obligation to find an alternate presenter and notify the SPWLA office, VP Technology, and their session chair(s) (if applicable) one (1) week prior to the annual symposium. Withdrawals must be made in writing (email) to the SPWLA office as soon as possible **but no later than three (3) weeks** prior to the symposium when the Symposium Brochure will go to publication. We understand there may be visa issues beyond our control and encourage presenters to apply early if required. This allows notification to the SPWLA office prior to publication and adjustments for an orderly symposium. Papers that cannot be presented in person will not be included in the symposium transactions.

Under no circumstances can a submitted abstract be changed once it has been submitted. **Cancellations, particularly after the abstract has been accepted and publicized, are viewed by the Technology Committee as highly unprofessional.**

Speaker Registration/Funding

No funding is available for Presenting Authors or Speakers. All technical session speakers **must** register for the Symposium. Speakers attending the Symposium for the day of presentation must register at the prevailing one-day rate.

Audio Visual (AV) Support

All slide presentations must be computer-generated. Most software packages are acceptable. **No speaker may use his or her personal laptop to give a presentation.** If you have a question, please contact the SPWLA staff before submitting. Specific guidelines and the suggested template, along with instructions, will be included in the Author Kit.

Technical Support

If you encounter any technical problems with the system, please contact the SPWLA. **Please note that when entering the authors, you will need to identify the Presenting Author (by default, the submitter). The Presenting Author will become the main point of contact and will receive ALL correspondence regarding the submission. It is then the responsibility of the Presenting Author to share all pertinent information with their Co-Authors. If you are submitting an abstract for someone else, you will need to remove yourself from the submission form AFTER adding at least one Co-Author.**

Other Relevant Details

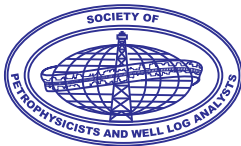
Recommended Browsers

For Windows users, we recommend Edge and Chrome. For Macintosh users, we recommend Safari and Chrome.

Attention IE 8 Users

If you are using Internet Explorer 8.0, you **MUST** display the website using the Compatibility View before you begin your submission. Please visit [IE8](#) for more information.

Please note that you must also have **JavaScript** and **Cookies** enabled in your browser preferences for the system to function properly.

EAGEEUROPEAN
ASSOCIATION OF
GEOSCIENTISTS &
ENGINEERS**OUR
TOPICS**

First EAGE Workshop on Surface Logging

12-14 NOVEMBER 2025 • PARIS, FRANCE

FUNDAMENTALS OF SURFACE LOGGING

Fundamental mudlogging techniques emphasize the extensive use of instrumentation and essential technologies, playing a crucial role in modern drilling operations and providing preliminary formation evaluation data. Studies should demonstrate the value of basic mudlogging technologies across various scenarios and environments, while also addressing the limitations that advanced surface logging services aim to overcome

DRILLING PERFORMANCE

Techniques for evaluating drilling efficiency, detecting formation changes, and identifying lithological variations through surface data, with a focus on optimizing drilling performance and operational effectiveness.

MUD LOGGING PRACTICES

Techniques and new technologies for formation evaluation, identifying, detecting, and measuring fluids and lithology with the various basic and advanced technologies, highlighting the growing relevance in various environments from conventional to unconventional in different scenarios (O&G and new energy). How surface logging can mitigate or solve operational risks and costs, increasing the reliability and predictability of the characterization of rocks and reservoir fluids.

INTEGRATION OF SURFACE LOGGING WITH SUBSURFACE DATA

Integrating surface logging data with downhole measurements, either to enable real-time decision-making during critical drilling operations, or to increasing subsurface understanding post well.

APPLICATIONS IN RESERVOIR EVALUATION & GEOCHEMISTRY

Leveraging surface logging to estimate key reservoir properties such as porosity, permeability, and fluid content, improving the precision of reservoir characterization and development strategies.

OPERATIONAL SAFETY AND HAZARD IDENTIFICATION

Examining the role of surface logging in the early detection of well control issues, abnormal pressure zones, and loss circulation. By improving safety measures, surface logging mitigates operational risks and enhances overall safety.

DIGITAL TRANSFORMATION IN SURFACE LOGGING: AUTOMATION, AI, AND MACHINE LEARNING APPLICATIONS

Examining the role of surface logging in the early detection of well control issues, abnormal pressure zones, and loss circulation. By improving safety measures, surface logging mitigates operational risks and enhances overall safety.

ENERGY TRANSITION

Exploring surface logging's growing relevance as the industry pivots toward more sustainable and diverse energy sources. Research and case studies on the use of traditional surface logging tools and methodologies of the oil & gas industry oriented to a different purpose, along with the development of new technologies tailored for energy transition scenarios with the common baseline of dealing with surface samples and data.

CASE STUDIES

Showcasing real-world applications of surface logging across diverse environments, including unconventional reservoirs, high-pressure high-temperature (HPHT) wells, deepwater drilling, geothermal exploration, and special gas exploration (hydrogen and helium).



Register now!

Early registration: 20 September 2025

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From the Chief Editor



S. Mark Ma
2024–2026
Vice President Publications

Dear SPWLA community,

I recently participated in a regional virtual meeting for the Middle East and Africa, organized by Dr. Elsa Maalouf, SPWLA Regional Director and professor at the American University of Beirut. The meeting covered various topics, with a focus on improving communications and strengthening our society in the region. One of the key discussions was on encouraging members to publish technical works in our flagship journal, *Petrophysics*, for the purpose of knowledge sharing. A recent example is the August 2025 publication on well integrity. As the journal's chief editor, I have a strong interest in this topic.

As we look to the future, we are considering the impact of open-source publication, which has increased access to knowledge, and AI writing, which raises questions about professionalism, business ethics, and the role of human experts in traditional publishing models. It is essential to acknowledge these changes and work together to shape the future of our journal. I invite you to join a brainstorming effort to explore ways to enhance the quality and impact of our journal publications, and I would appreciate hearing your thoughts.

Some questions to consider:

- What role can AI writing play in enhancing our publishing process while ensuring professionalism and business ethics?
- How can we promote awareness of AI-generated content and maintain reader confidence?
- What new formats or innovations can we introduce to enhance the reader experience?
- What lessons can we learn from open-source publication to improve our current practices?

We value your input and look forward to hearing your thoughts. Your contributions will help us navigate the changing publishing landscape and ensure our journal remains a leading source of trusted information.

Join the conversation:

Email: vp-publications@spwla.org

Social media: <https://www.linkedin.com/groups/14455086>

Thank you for your support. I look forward to hearing your thoughts on the future of our journal.

Sincerely,

S. Mark Ma

SPWLA VP Publication

Chief Editor, *Petrophysics* journal

From the President



Robert H. (Bob) Gales
2025–2026 President

Fall is almost here, and students are heading back to school. The successful 2025 SPWLA 66th Annual Symposium is officially closed, and work is progressing for the 67th Annual Symposium at the Margaritaville Lake Resort in Conroe, Texas, May 16–20, 2026 (just north of The Woodlands).

The Best Papers and Global Distinguished Speakers have been selected, and notifications have been sent. To date, it looks like we have acceptance from all.

The 67th Symposium is open for abstracts with a closing deadline of September 30. Robin and Artur are already discussing Workshops. Submit your ideas to Artur at VP-Technology-Elect@spwla.org.

The first published Topical Conference on UDAR has closed for abstracts and is in review. This will be a great workshop at the Geological House in London, March 23–25, 2025. It is being held in conjunction with LPS (London Petrophysical Society). We are open to similar events with other chapters.

We have many local chapters and SIGs with upcoming events—The LPS One-Day Petrophysics 101, East China Chapter, JFES and EAGE/FESM annual conferences, NMR SIG Conference, etc. There is also an online Casedhole Formation Evaluation Class being taught by Jim Hemingway on September 16–17. Please update Sharon and Stephanie when you have an event planned. These can be posted on SPWLA.org, our social media sites, and included in the weekly update of SPWLA activities. Sharing your activities and talks provides ideas for other chapters and opportunities to work together.

The board held its first meeting and subsequent special meeting to vote on new student chapters. Thank you to Marta D'Angiola, Latin America Director, and Ryan Banas, Asia Pacific Director, for their efforts to help create these new chapters. Congratulations! We welcome two new student chapters to SPWLA:

- Universidade Federal do Rio De Janeiro
- Southwest Petroleum University of China

Other Areas of Discussion:

Would there be member interest in having access to a petrophysics-driven LLM based on the 50+ years of SPWLA publications, either through your SPWLA membership or as a subscription? The board has discussed this over the past 2 years, but today we have several opportunities to make it a reality. Please forward me your thoughts at President@spwla.org.

In our continued push for transparency, we are formalizing a matrix for evaluating Best Local and Student Chapters. Javier Miranda, President-Elect, is leading this initiative and welcomes your thoughts at President-Elect@spwla.org.

Similarly, we are updating procedures for the identification of the Best Papers and Posters from the Annual Symposium that leads to the *Petrophysics* journal's "Best of Symposium" issue and Global Distinguished Speakers. This will be published in the near future.

I would like to commend Mark Ma, VP Publications, and Elizabeth Naggar, our managing editor, for continuing to complete and publish the expanded *Petrophysics* journal. This takes lots of work not only from authors, but also from editors and domain expert reviewers. We count on our family of volunteers to make this happen. We can always use additional expert reviewers and people willing to be editors. The SIGs are a great resource to help provide that expertise.

Please reach out to your local directors or any of the Board of Directors with any questions or suggestions to improve your SPWLA family. I look forward to seeing you all in Conroe next May.

Regards,
Robert H (Bob) Gales
President



Javier Miranda
2025–2026
President-Elect

I will begin this column by letting you know that planning for the 2026 annual conference is progressing as expected. As you might know, it is never too early to plan our most important event of the year, and we usually start even before the previous conference has occurred. Having a conference in May 2026 in the USA is appealing for those soccer (or football as it is known everywhere but the United States of America) fans. However, it creates a challenge to secure an excellent venue available for a full week right before the World Cup kicks off. Let us be honest, we are the coolest professional society, but even we cannot compete with FIFA and its billions of fans worldwide. Having said that, I am pleased we will return to Margaritaville in Lake Conroe, a location familiar to me from my time as conference chairperson in 2023. This place offers unique advantages for the conference as it is close to the Houston metro area, where most energy operators, service companies, consulting firms, and universities are located, either with their headquarters or a central office. If we expand the ratio, then we can include nearby cities such as Austin, San Antonio, and Dallas, where some other companies and universities are flourishing. That gives us tremendous potential to organize a Texas-sized event with several of our members participating

and many companies in the exhibition. However, it is not close enough to all the cities I mentioned for people to go back and forth every day or to be “called back to the office for a quick meeting,” as it might occur if you are attending a conference in the Houston George Brown Convention Center and work in downtown Houston. Hotel prices were competitive back in 2023, and I would expect comparable prices next year. In conclusion, I expect nothing but the best for the 2026 annual symposium, and I am confident that the organizing committee, led by Veronica Montoya, will deliver an outstanding conference with leading technical content prepared by our Technology Committee, led by Robin Slocombe (VP Technology) and Artur Posenato Garcia (VP Technology-Elect).

The technical committee has been formed, but the organizing committee is still putting its pieces together. There are always volunteer opportunities, so reach out to the names I have mentioned above or me if you are interested in serving in any available position. You never know where that exciting path might take you. I started printing banners and posting signs for the annual conference in 2007, and look where I am now. In addition to the fantastic opportunities, it has brought me a great network of colleagues, mentors, mentees, teammates, and friends, some of whom are like family to me. Most of the great volunteers in the SPWLA bring not only technical expertise but also an incredible desire to serve, and that desire is just as important as the technical skills.

“An empowered organization is one in which individuals have the knowledge, skill, desire, and opportunity to personally succeed in a way that leads to collective organizational success.” ~Stephen R. Covey

Most of us on the current and past international boards started as volunteers in local professional and/or student chapters, various committees, and other groups, such as SIGs. Volunteering is a fantastic opportunity to give back, develop or enhance your technical and leadership skills, and work alongside some of the brightest minds in petrophysics while meeting cool people. Furthermore, in the Society of Petrophysicists and Well Log Analysts (SPWLA), you will be involved in state-of-the-art projects and will be able to see the impact of what you do instantly. Let us keep in mind that our professional society is run with only two full-time staff; however, we can still meet all of our objectives thanks to a great group of volunteers all around the world! Please check the open opportunities and JOIN US:

<https://spwla.org/SPWLAArchived/SPWLA/Volunteer/VolunteerOpportunities.aspx>

The President-Elect of the SPWLA holds a critical leadership position that serves as a bridge between the current President and future leadership. This role involves strategic planning, organizational oversight, and active contribution to the society’s mission of advancing petrophysics, formation evaluation, and well-logging disciplines. The President-Elect plays a preparatory, collaborative, and representational role, ensuring a smooth transition into the presidency and fostering continuity in SPWLA’s operations and goals. As a voting member of the SPWLA Board of Directors, the President-Elect collaborates closely with the

Up Next

President and the board, supporting current initiatives while preparing to take on the presidency in the next term. One of the initiatives for the 2025–2026 cycle is to develop a matrix for selecting the best chapters that will be used by the Awards committee. I am pleased to announce that the first draft has been prepared, and it is being discussed by the international board before its approval. All board members are providing feedback, especially the regional directors and several key people in local chapters, on what should be considered the “best chapter.”

Our special interest groups (SIGs), an especially critical component of our professional society, are advancing on several fronts with new boards, online meetings, and conferences already announced, such as the 2025 NMR SIG Conference to be hosted in Houston in October. Please make plans to attend this important conference and other events as they are announced. The table below shows the SPWLA Special Interest Groups leaders (2025–2026) I will be working with. I expect to have a meeting with all of them in early fall, when most people are back from family vacations, managed moves in their companies, and other personal commitments. In addition to being their voice on the international board, I would like to connect SIGs and SMEs in these groups with local chapters and, with assistance from regional directors, share their expertise through regional talks and other informative lectures.

Finally, I offer my sincere congratulations to Dr. Carlos Torres-Verdín from The University of Texas at Austin and his entire team of graduate students, research staff, and administrative personnel on their 25th anniversary. In addition to being a past international board member as VP Technology, VP Publications, and *Petrophysics* Editor, Carlos is a recipient of the SPWLA Gold Medal. The Joint Industry Research Consortium on Formation Evaluation celebrated its 25th anniversary on August 18–19, 2025. As mentioned by Carlos himself, this is the longest-standing research consortium within both the Hildebrand Department of Petroleum and Geosystems Engineering and the Cockrell School of Engineering at The University of Texas at Austin, and hands-down the most successful by the numbers. It has also been recognized as the TOP academic research unit worldwide on formation evaluation. This important event was commemorated in Longhorn Land with excellent technical presentations, software demonstrations, and an alumni reunion. I was fortunate to participate in these activities after being absent for some years.

The University of Texas at Austin Research Consortium has achieved incredible milestones and made countless contributions to petrophysics and professional societies, including our own SPWLA, where I serve as President-Elect alongside other notable Longhorns who are currently on the international board or have previously served as President and in other key positions. Reaching 25 years of technical contributions and educating excellent professionals takes not only talent and passion but also teamwork—and this consortium has all that and more. Here’s to many more years of technical achievements and outstanding professionals!

Significant challenges are in front of us, but also several opportunities to make SPWLA better for future generations. A better society starts with all of us, and volunteering is the best way to pay back a little bit of the incredible experiences we have enjoyed.

Let us work hard together to achieve great results for SPWLA in the 2025–2026 cycle!

As usual, ideas and recommendations are always welcome. You know where I am and how to reach out. As my friend Iulian Hulea says, if you want something to improve, bring your ideas and volunteer to make those changes, and we will work together to make them happen.

Stay in touch!
Javier Miranda
SPWLA President Elect
President-Elect@spwla.org



Javier Miranda (SPWLA President-Elect) during a quick photo with the FIFA countdown at the Houston Bush Intercontinental Airport.

Chapter Name	First Name	Last Name	Company	Position in Chapter
Acoustics SIG	Gennady	Koscheev	Halliburton	Communications
Acoustics SIG	Jennifer	Market	Well ID	Chairman
Alternative Subsurface/Energy Transition	Gerold	Tischler		Chairman
Borehole Imaging - BHI SIG	Christian	Rambousek	NiMBUC Geoscience	Chairman
Education SIG	Ahmed	Badruzzaman		Chairman
Formation Testing SIG	Gibran	Hashmi	Halliburton	Chairman
HAHZ	Chapter Officer			Chairman
HAHZ	Meretta	Qleibo		Chairman
Hydrocarbon Reserves	Philip	Gibbons	Gaffney Cline	Chairman
Hydrocarbon Reserves	Brett	Gray	Ryder Scott	Vice Chairman
NMR SIG	Ron	Bonnie		Chairman
NMR SIG	Radu	Coman	Baker Hughes	Chairman Elect
NMR SIG	Nate	Bachman	Schlumberger	Past Chairman
Nuclear SIG	Ahmed	Badruzzaman		Chairman
PDDA	Hyungjoo	Lee	Helmerich & Payne	Chairman
The Resistivity Modeling SIG	Dean	Homan	SLB	Chairman

Current SPWLA Special Interest Groups leaders (2025–2026)

The 25th Anniversary of the University of Texas at Austin Joint Industry Research Consortium on Formation Evaluation.



Robin Slocombe
2025–2026 VP Technology



Artur Posenato-Garcia
2025–2026 VP
Technology-Elect

Dear SPWLA members,

I hope this message finds you well. I'm now based in Houston as I begin my new role as global account manager at AWS Energy. Earlier this month, I had the pleasure of meeting in person with our VP Technology-Elect, Artur Posenato-Garcia, for a productive and inspiring discussion about the planning of our upcoming SPWLA Annual Symposium.



Robin Slocombe and Artur Posenato-Garcia – Planning Meeting in Houston.

We hope you're as excited as we are for this event and are already preparing your abstracts. A friendly reminder: the deadline for abstract submission is September 30, 2025. Detailed instructions, including guidelines and formatting, are available here:

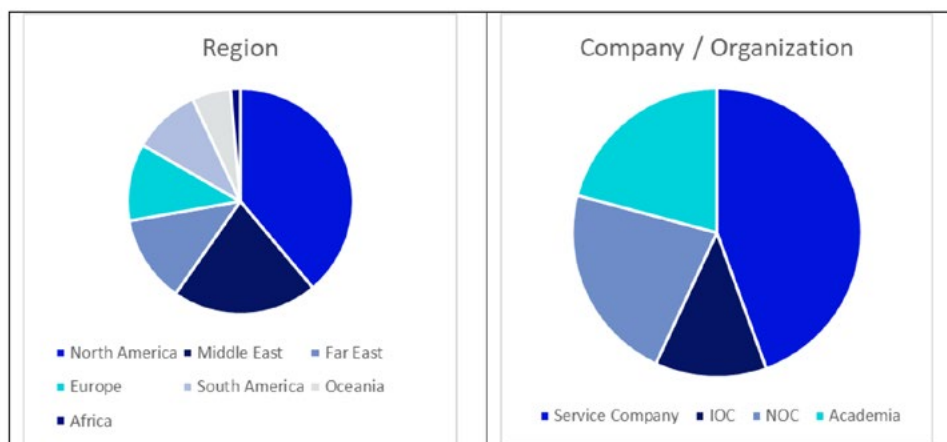
[Abstract Submission Instructions](#)

Abstract Categories for 2026

This year's program will include 20 categories covering a broad spectrum of petrophysical science and technology. These are distributed across five main focus areas:

- **Digital and Data-Driven Petrophysics** – including AI, machine learning, automation, and digital rock physics.
- **Advanced Formation Evaluation Technologies** – spanning logging, imaging, nuclear magnetic resonance, borehole acoustics, and more.
- **Reservoir Characterization and Management** – from core-log integration to carbonate evaluation and uncertainty analysis.
- **Energy Transition and Emerging Applications** – such as CCUS and geothermal.
- **Specialized Measurement and Interpretation Techniques** – advancing tools and methods across diverse reservoir types.
- **Technical Committee Update**

We are proud to announce that the Technical Committee for the 2026 Symposium is now confirmed, with over 70 experts representing energy and technology companies, as well as academia, from all regions of the world.



Your contributions as reviewers and technical leaders are deeply appreciated—this committee’s work will shape the quality, depth, and innovation of our technical program. Thank you to each member for volunteering your time and expertise.

If you are not part of this year’s committee but are interested in future opportunities, please reach out to Artur or me—we would be delighted to connect with you.

Workshops – Coming Soon

We’re preparing an online platform for workshop proposal submissions. Once live, we’ll share the link and deadlines with the SPWLA community. In the meantime, if you’d like early information or wish to start preparing a proposal, please contact us directly.

A typical proposal should include:

- Title
- Organizer(s) and contact information
- Duration (Two-day, Full-day, or Half-day)
- Location (SPWLA 2026, Lake Conroe)
- Abstract (max. 100 words)
- Objectives, Target Audience, Outline, Teaching Methods, Prerequisites, Expected Outcomes
- Instructor Biographies (including photo)

Best Papers – SPWLA 66th Annual Symposium (Dubai, UAE, May 17–21, 2025)

We are delighted to recognize the authors of the Best Papers from the 2025 Annual Symposium. These outstanding contributions were selected based on evaluations from session chairs, the Technical Committee, and attendee feedback.

- **SPWLA-2025-0009** – *Petrophysical Characterization of Secondary Organic Matter and Hydrocarbons in the Early Jurassic Formation Using Laboratory NMR Techniques* – Abdul Mohsen Al Mershed, Asmaa Al Hammadi, Hawraa Baqer, Mihira Narayan Acharya (Kuwait Oil Company); Z. Harry Xie, Phil Hawley, Christie Woodroof (Core Laboratories); Sean Dolan, Matthias Appel (Shell)
- **SPWLA-2025-0011** – *Discrete Inversion Method for Nuclear Magnetic Resonance Data Processing and Its Applications to Fluid Typing and Quantification* – Jun Gao, Hyung Kwak, Gabor Hursan (Saudi Aramco); Stacey Althaus (Aramco Americas)
- **SPWLA-2025-0013** – *Tortuosity Assessment for Reliable Permeability Quantification Using Integration of Hydraulic and Electric Current Flow in Complex Carbonates* – Dalma Arrieta, Zulkuf Azizoglu, Pallavi Sahu, Zoya Heidari (The University of Texas at Austin); Plinio Cândia (Petrobras)
- **SPWLA-2025-0016** – *New Insights Into the Understanding of Sand Injectite Complexes, Using Advanced Log Data, Ultradeep Resistivity Inversions and Outcrop Field Observations* – Sayyid Ahmad, Gianbattista Tosi, Nigel Clegg (Halliburton); Joanna Mouatt, Fanny Dominique Marcy (Aker BP)
- **SPWLA-2025-0044** – *Advanced Logging Techniques for Characterizing a Complex Turbidite Reservoir in the Norwegian Sea* – Wesam Ben Mansour, Andrew Mburu (Harbour Energy); Harish Datir (SLB)

- **SPWLA-2025-0049** – *Universal Data-Driven Permeability Estimation by Connecting MICP Analytics With Big Data* – Oriyomi Raheem, Misael M. Morales, Wardana Saputra, Carlos Torres-Verdín (The University of Texas at Austin); Craig Phillips (Crested Butte Petrophysical Consultants); Chicheng Xu (OpenPetro AI)
- **SPWLA-2025-0078** – *Dynamic Depth Alignment Between Well Logs for Enhanced Petrophysical and Rock Physics Interpretation* – Kjetil Westeng, Peder Aursand, Frida Viset, Yann Van Crombrugge (Aker BP ASA)
- **SPWLA-2025-0086** – *Identifying the Presence of Water Finger and Assessing Influence of WBM Filtrate Invasion in a Fractured Zone of Brazilian Presalt Carbonates* – Filipe Ramos de Albuquerque, Eduardo Barreto Oliveira, Thiago Moura da Silva Rosado, Pamella Paiva Fernandes, Jorge Freitas Maciel Garcia de Carvalho, Gabriel Luiz Pérez-Vieira, João Paulo Teixeira da Fonseca, Rodrigo Skinner (Petrobras)
- **SPWLA-2025-0089** – *A Novel Type Curve for Sandstone Rock Typing Using a Pore-Geometry-Structure Approach* – Junita Trivianty Musu (LEMIGAS); Muhammad Nur Ali Akbar (Prores AS); Pudji Permadi (ITB); Bambang Widarsono (BRIN)
- **SPWLA-2025-0100** – *Beyond Gas Bubbles in Norwegian Oil Fields: An Integrated Technique to Understand Reservoir Fluid Distribution* – Maria Cecilia Bravo, Silvia Roblero Nunez, Sandrine Donnadieu, Frode Ungar, Gulnar Yerkinzy, Tao Yang, Paal Fristad (Equinor)
- **SPWLA-2025-0102** – *Recent Developments and Verifications for the Multi-Dimensional and Data-Adaptive Interpretation of Borehole UDAR Measurements* – Wardana Saputra, Carlos Torres-Verdín, Joaquin Ambia, Bruce G. Klappauf, Weichen Zhan (The University of Texas at Austin); Nazanin Jahani (NORCE); Jörn Zimmerling (Uppsala University); Vladimir Druskin, Sofia Davydycheva, Ivan Davydychev (3D EM Modeling & Inversion JIP); Egil Romsås Fjeldberg (Aker BP)
- **SPWLA-2025-0104** – *A Robust Joint Inversion for Improved Structural Mapping in UDAR Applications Using Multiple Measurement Sensitivities and Uncertainties* – Hsu-Hsiang (Mark) Wu, Dagang Wu, Ting Yan, Jin Ma, Yijing Fan, Clint Lozinsky, Michael Bittar (Halliburton)
- **SPWLA-2025-0125** – *Case Study of Active Resistivity Ranging With Ultradeep Azimuthal Resistivity Measurements While Drilling* – Diogo Salim, Yong-Hua Chen, Lin Liang, Jean-Michel Denichou, Martine Wenang, Motaz Zeidan, Umut Ercan (SLB); Antonio Mainieri da Cunha, Silas Alexandre da Rocha Roberto (Petrobras)
- **SPWLA-2025-0126** – *UDAR Horizontal Look Ahead Mapping Technology Identifies Fault Ahead of the Bit* – Jin Ma, Nigel Clegg, Arthur Walmsley, Nelson Suarez Arcano (Halliburton); Frank Antonsen, Kåre Røsvik Jensen, Andrew McGill (Equinor)
- **SPWLA-2025-0131** – *Effect of CO₂ Sequestration on Carbonate Formation Integrity* – Mohammed Al-Hamad, Olivier Sindt, Wael Abdallah (SLB); Shouxiang Mark Ma (Saudi Aramco)
- **SPWLA-2025-0136** – *Advanced Reservoir Characterization Using Drill-Cuttings-Based Advanced Image Analysis, Elemental Analysis, and AI Algorithms: A Case Study of the Orgánico Inferior and Cocina Members, Vaca Muerta Formation, Neuquén Basin, Argentina* – Agustin Kriscoutzky, Guy M. Oliver, Cesar Lugo (Geolog); Denis Marchal, Claudio Naidés (Pampa Energía S.A.)
- **SPWLA-2025-0140** – *Real-Time Monitoring of Carbon Dioxide Injection Through Fiber Optics: Physics-Based Modeling of Distributed Temperature Sensing Data for Time-Lapse Fluid Typing, Pressure Inference, and Phase Transition Assessment* – Marco Pirrone (Eni S.p.A.); Tommaso Mantegazza (EniProgetti S.p.A.)

Congratulations to all the authors for their innovative work and valuable contributions to the advancement of petrophysics!

Innovation at the 2026 Symposium

We are planning to bring cutting-edge technologies that address today's most pressing challenges: enhancing exploration and production, accelerating renewable energy interconnection, increasing power grid flexibility, reducing emissions, and maximizing safety. More details will follow in the coming months.

Best wishes,

Robin Slocombe
VP Technology

Artur Posenato-Garcia
VP Technology-Elect



Peter Barrett
2025–2027 VP Information
Technology

I hope everyone has had an enjoyable summer so far. Not surprisingly, I fettle with our home network and sometimes play with some of the hardware relics of our industry. I have a 9-track drive for the odd old tape that comes along, and to show my children how we used to transfer “large” volumes of data before the internet became so prevalent. Watching these machines load is still as enjoyable today as it was when I started out more than 2⁵ years ago. Do not worry. I do not always think in binary, after all, there are 10 types of people, those who think in binary and those who do not.

Back to the SPWLA... The new abstract system is up and running, and anyone submitting abstracts for the UDAR Topical Conference or next year’s symposium will have used it. So far, it has been mainly smooth sailing, but I have probably jinxed that now. Abstracts do require a picture, so I am thinking a Salvador Dali clock may be a good abstract picture for my next submission.

The SPWLA has acquired the web address www.imagelogs.com for use by the BHI SIG, and a lot of content will start to appear soon. There is going to be another push for standardization in borehole imaging workflows, more ambitious than the dip export format previously published. Details will follow soon. If you are interested, keep an eye on that space.

Tegwyn is still providing IT support. I think he is a proud father of the IT systems we use, and rightly so.

I will end with an IT tip. Here in Houston, power cuts are not unusual. What is the first warning sign of a power cut? For me, it is “Dad, the internet is out,” normally within .5 ms of a power cut. For this reason, I have a UPS dedicated to my internet router, and it has been a great purchase. If you would like a recommendation for a suitable UPS, then please feel free to email me.

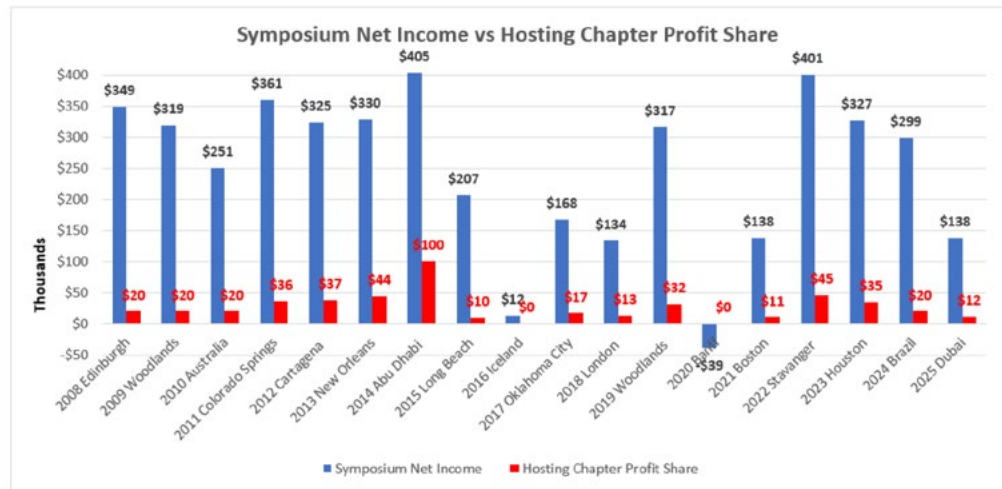
Peter Barrett
VP Information Technology
vp-infotech@spwla.org



Jing Li
2025–2027 VP Finance,
Secretary, and
Administration

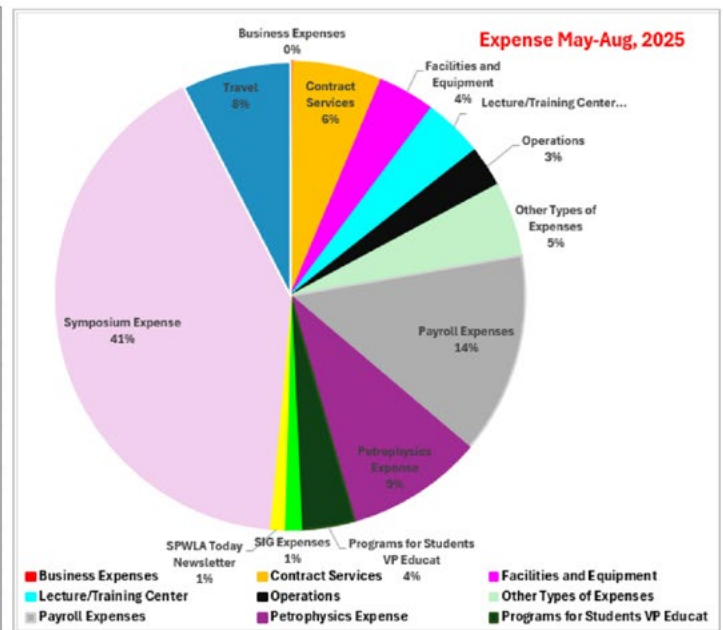
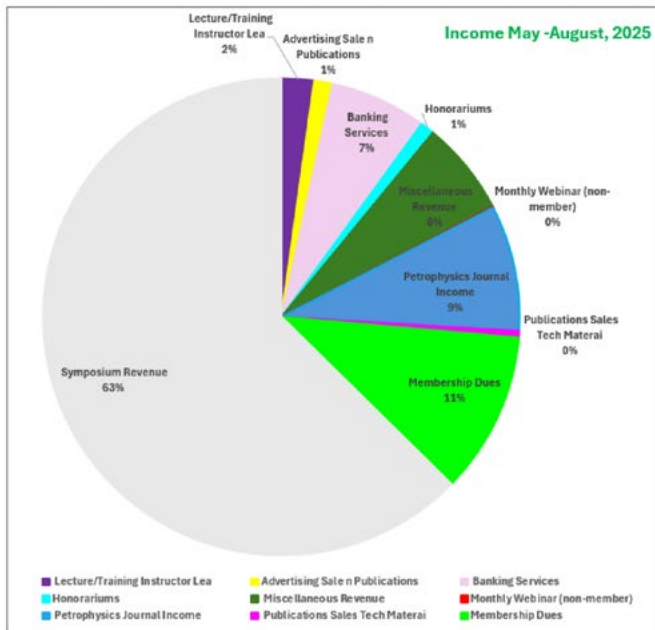
2025 Dubai Annual Symposium – Financials

- Total income: \$595,809.01.
- Total expense for the event was \$457,363.81 (~\$861 per attendee).
- Net income of \$138,445.20.
- The bar chart shows the symposium’s net income since 2008.



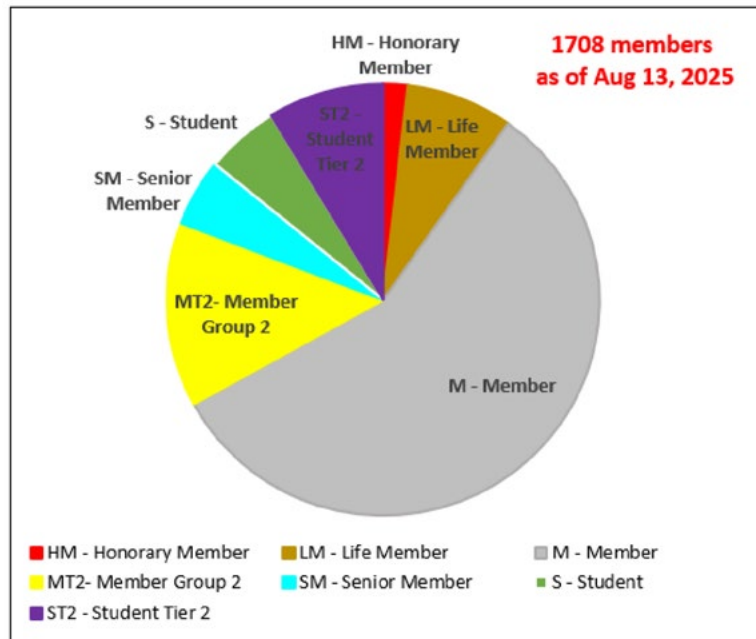
May – August 2025 – Financial Overview

SPWLA continues to demonstrate steady and strong financial growth. The pie charts below visually summarize the distribution of revenue and expenses from May to August 2025. The total revenue and expenses are reasonable, and the net profit remains healthy. The annual symposium and membership dues remain key revenue sources.



Membership (as of August 13, 2025)

SPWLA has sold 26 copies of the printed *Petrophysics* journal and has reached a total of 1,708 members. We appreciate everyone who has joined or renewed—your support is vital to our community. If you haven't yet renewed your membership, we kindly encourage you to do so. Membership dues continue to be a key source of income, enabling us to deliver value through publications, events, and member services. A breakdown of current membership by percentage is provided below.



We have completed the calculation of actual expenses for the Board of Directors for the 2024–2025 fiscal year, and they amount to approximately 82% of the budget. Over the past few years, budget utilization has remained stable, fluctuating between 82 to 83%. The budget for 2025–2026 has been finalized and is approximately \$44,000 less than last year, primarily due to significant savings in IT.

Get Involved

We value your feedback and welcome suggestions, especially regarding new revenue opportunities or ways to enhance member value. Your ongoing engagement is essential to SPWLA's continued success.

Thank you for being a part of our community. Together, we're building a stronger, more connected future.

Sincerely,

Jing Li
VP Finance, Secretary, and Administration



Matt Blyth
2024–2026
VP Education

Dear SPWLA community,

Hello! Here we are at the start of another busy SPWLA webinar season. I am excited to announce our new 2025–2026 Global Distinguished Speakers, chosen from the top ranked presentations and papers at the Dubai conference! By the time you read this, we will have published all the details on our website about the 2025–2026 Global Distinguished Speakers list and will be on the hunt for our Regional Distinguished Speakers for the year. We will be kicking off our GDS webinar series in September, and we are also holding our first short course of the year, taught by Jim Hemingway!

Our new Global Distinguished Speakers are:

- Chicheng Xu, *Open Petro AI*
- Maria Bravo and Silvia Roblero, *Equinor*
- Agustin Kriscautzky, *Geolog*
- Mohammed Al-Hamad, *SLB*
- Marco Pirone, *Eni*
- Sayyid S. Ahmad, *Halliburton*
- Diogo Salim, *SLB*
- Sean Dolan, *Shell*
- Andrew Mburu, *Harbour Energy*
- Hyung Kwak, *Saudi Aramco*

We will be continuing our webinar series throughout the whole year, and I also hope to continue with the “Best of” and “Special Edition” series webinars that we started last year as well. We have also recently posted our first “Nugget of Wisdom” in quite some time. These recorded talks are showcases for some of the experts in our industry to present topics dear to their hearts. Our latest talk is presented by Roland Chemali, who discusses the history of borehole resistivity measurements, from the very first tools and up to the UDAR tools of today. It can be found on the SPWLA YouTube channel!

As is traditional, at the start of the year, I need to put out a call for volunteers. All the educational activities of the SPWLA rely on volunteers, and we are always looking for people to deliver webinars, teach classes, record talks, review abstracts, judge the student paper competition, and many other things. Some of the most important things we need help with are:

- Short Courses: We are in need of people willing to teach short courses on any relevant topics. These courses can be as long or as short as needed, and are usually taught online, with half days each day, to allow attendees to balance work and training – and we share the course revenue with the instructors, so you get paid to teach!
- On-demand Training Classes: These courses are available over an extended period, with attendees being able to access prerecorded training modules online and then attend scheduled Q&A sessions with the course instructor. This is a great opportunity to deliver a training course that is perhaps too long to do in a single week.
- Nuggets of Wisdom: This is a series of online talks by industry experts on particular topics that interest them most.

So, if you have a passion for a particular subject and like to teach a course, class, or just record your thoughts as an online information archive, then please contact me at VP-Education@spwla.org!

Take care!
Matt Blyth
VP Education



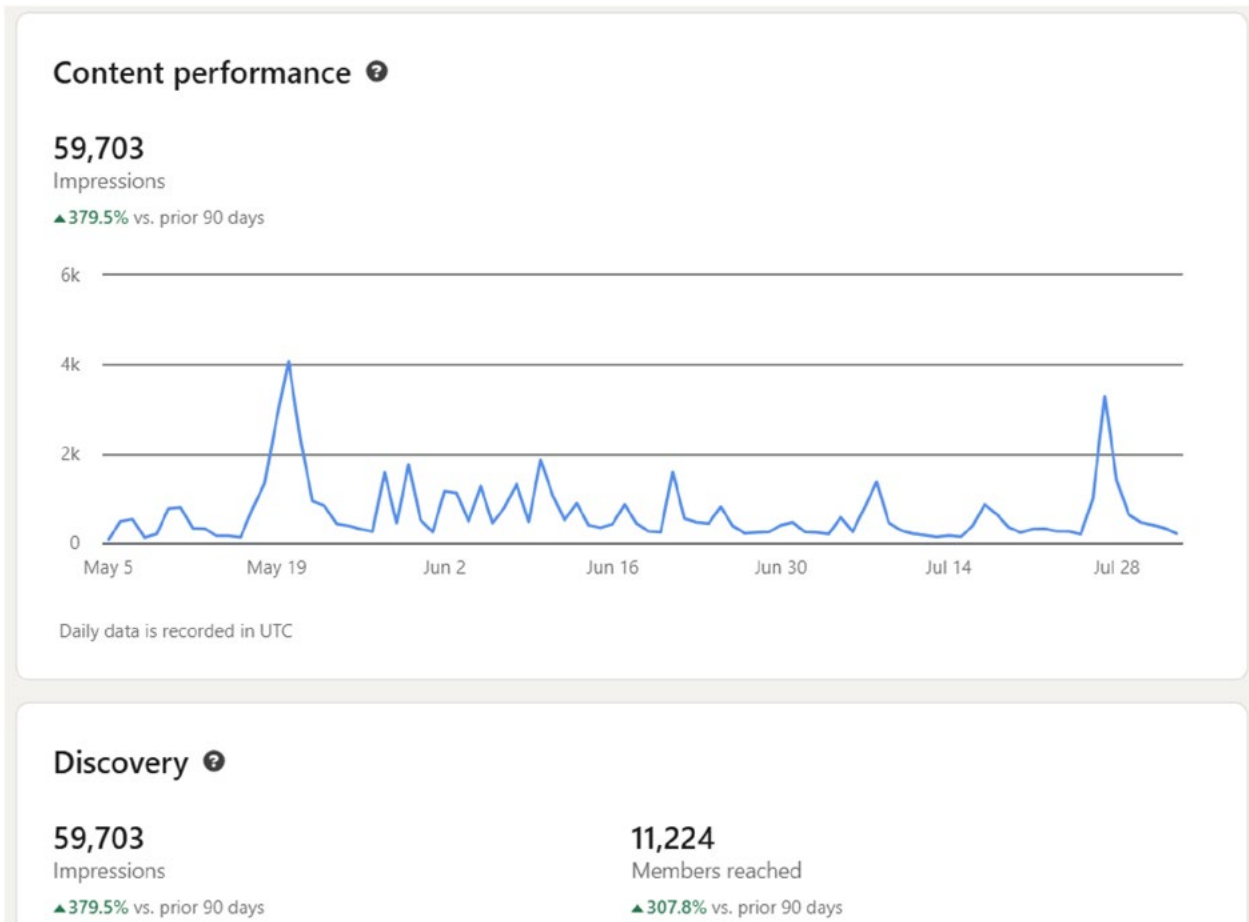
Chicheng Xu
2025–2027
VP Communications

Over the past quarter, SPWLA’s social media presence has continued to grow steadily, expanding our reach and engagement within the formation evaluation and petrophysics community. Here are the key highlights from May through August 2025:

- **Follower Growth:** We’ve surpassed **5,000 followers** on LinkedIn—an encouraging milestone reflecting our growing global visibility.
- **Content Reach:** Our posts generated nearly **60,000 impressions**, showcasing strong interest in our technical content, event announcements, and professional highlights.
- **Member Engagement:** We reached more than **11,000 SPWLA members**, fostering stronger connections across chapters, SIGs, and technical disciplines.

Thank you to all contributors who have helped make our social media channels dynamic and impactful. As always, we welcome your content, updates, and photos to share with the broader community. Let’s keep the momentum going!

Chicheng Xu
VP Communications



Regional Understandings—North America 1



Amer Hanif
2024-2026 NA1 Regional
Director

Dear SPWLA members,

This will be a brief write-up as we went past the seasonal slowdown over the summer. We are happy to have the **SPWLA 2026 Annual Symposium** return to Lake Conroe, Texas, which is just a few miles north of Houston. Our region looks forward to welcoming you next year with Texas-sized hospitality. A special reminder to those who will travel to the USA—plan for extra days to enjoy the Soccer World Cup festivities in the city.

The **Houston Chapter** has picked back up with three technical luncheons in late July and August, two in the Northside and the third in the Westside section. The topics have ranged from shaly sand analysis to NMR in organic-rich rocks and complex fluid distributions in deepwater GoM reservoirs. Another bit of good news is the announcement of the Houston Technology Show to be held in the first week of December. As always, we plan for this to be a great event, providing a cordial space to both exhibit and learn about the latest in formation evaluation technology and software. Houston is also a host and a beneficiary of SPWLA SIG activities, connecting members with a discipline-specific focus. The **Resistivity SIG** conference was held in June, with some great talks on advancements in

ultradeep azimuthal resistivity (UDAR). The **NMR SIG** meeting is to follow in October and is currently accepting abstracts. Both events have been generously sponsored by Halliburton.

The **Dallas Chapter** is set to start off the new year with invitations to speakers/researchers from academia. We are also discussing the formation of a new student chapter in Dallas by combining student membership over more than one school.

By the time you read this column, most of our student chapters will have reconvened to map out activities for the upcoming months. Industry tours are sought after, as the weather cools down, with **Texas A&M University-Kingsville**, the **University of Houston**, and the **University of Louisiana at Lafayette** all planning trips to local industry providers. SLB and Baker Hughes are kind supporters and are popular choices for their facilities and labs, offering opportunities to learn about wireline and LWD logging systems and rock and fluid analyses. The **University of Texas at Austin** has exciting faculty and student member additions to its board, with an aim to enhance the content of the chapter. Please visit their student chapter column in this month's Chapter News.

On a final note, I want to share with you an interesting campaign, named "Oil is Good," initiated by Kansas Strong® (https://oilisgood.com/?utm_source=substack&utm_medium=email), which is reaching out to the younger generation in Kansas to highlight the quiet but deep influence of the oil industry in our lives. Very well managed and possibly the first of its kind, this is a great effort to redefine the narrative around our industry.



SPWLA Houston Northside July Technical Luncheon. (Left) Dave Kennedy gave us a deeper understanding of the two most well-recognized shaly sand

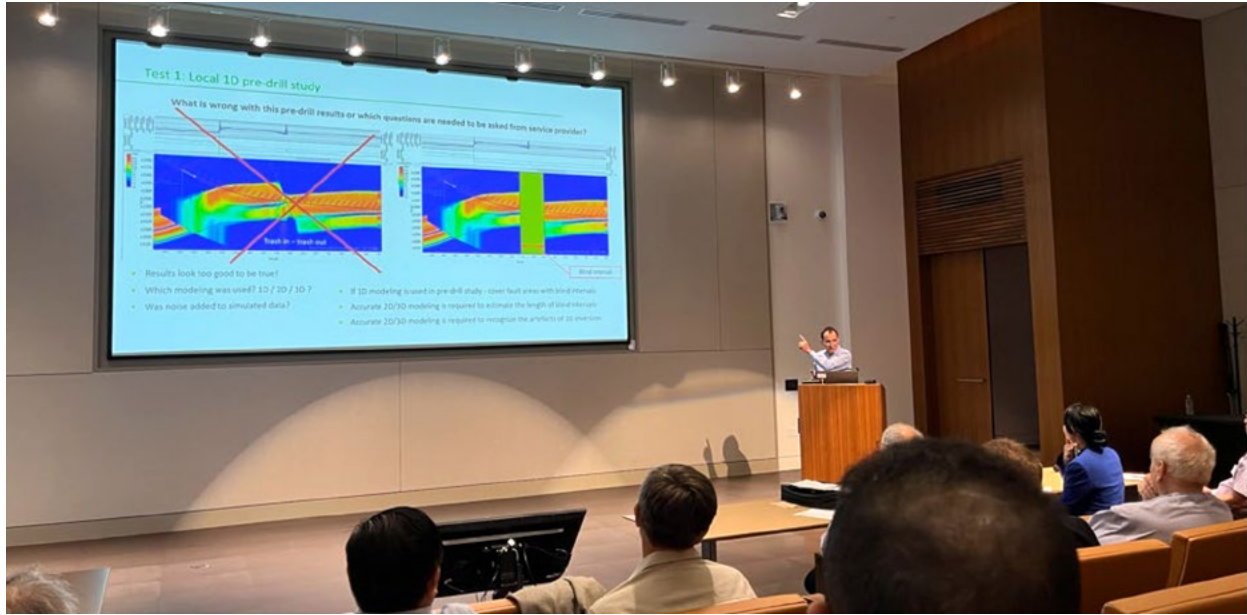
Regional Understandings–North America 1



models, Waxman and Smits and the Dual-Water Model. (Right) VP Northside Ali Eghbali thanked Dave on behalf of SPWLA Houston with a speaker's gift. SPWLA Houston Westside August Technical Luncheon. (Left) Tarek Mohamed explained puzzling fluid distributions in deepwater GoM by innovative modeling of fluid dynamic processes over geologic time. (Right) Receiving a well-deserved gift from Chapter President Ron Bonnie.

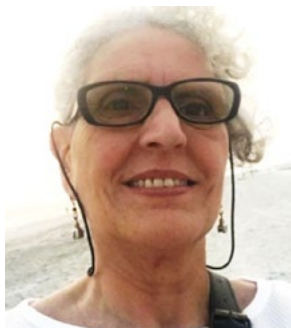


Houston Chapter June Social sponsored by Lumina Geophysical, which also gave us insights into the technical solutions, enhancements, and interpretation of subsurface data they provide to our industry.



SPWLA Resistivity SIG meeting, in Houston, Texas, in June. Michael Rabinovich opened the technical program with an engaging talk on UDAR technology readiness for a 3D environment. The event was sponsored by Halliburton, which opened its beautiful Life Center Auditorium to host the sessions.

Amer Hanif
NA1 Regional Director



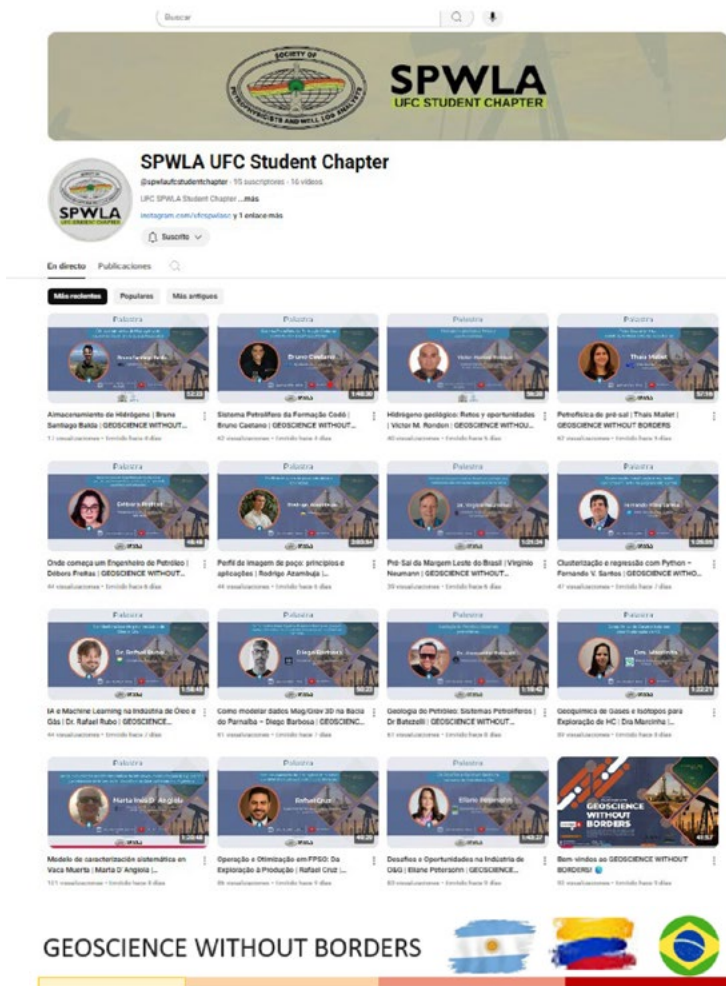
Marta Inés D'Angiola
2024–2026 Latin America
Regional Director

Dear colleagues,

Student chapter activities in Latin America always bring great surprises—full of energy that transforms into meaningful actions. These initiatives reflect the spirit of collaboration and solidarity that continues to grow within our geoscience community.

Federal University of Ceará (UFC), Brazil

From July 22 to 26, the UFC Student Chapter, in collaboration with the AAPG Student Chapter at UNLP (Argentina), organized a live-streamed event on YouTube titled “Geosciences Without Borders.” The event featured numerous speakers who covered a wide range of geoscience-related topics.



New Student Chapter in Progress

A new student chapter is in the process of being established at the **Federal Rural University of Rio de Janeiro**. We are currently awaiting final approval from the Board.



Regional Understandings–Latin America

Argentina Student Chapter

The Argentina Student Chapter continues to stand out with its heartwarming and impactful volunteer initiatives. Recently, they organized a **raffle** to raise funds for **Magis Puente de Fierro**, a youth volunteer group supporting **Children’s Day** activities. The raffle prize includes **two scholarships** for the course, “Geologist 4.0: Smart Operations with Advanced Software,” taught by **Eng. Gustavo Barrios**.

AVANZADO

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50	51	52	53	54	55	56	57	58	59

Well Section (aterrizaje y segmentación).
Correlación y Mapas.
Intersection Windows (aterrizaje y sección lateral).
Geonavegación de pozos horizontales.
Casos prácticos y más.

Modalidad: Online (Zoom)
Duración: 10 horas (5 sesiones)
Inicio: 02/08/2025 al 10/08/2025
Incluye: Clases totalmente prácticas con el uso de software especializado y certificación.

Buy your lucky number now!

Let us remember the power of three simple yet magical words that I will share in my own language: *Por favor, perdón, y gracias!*

Warm regards!
Marta Inés D’Angiola
Latin America Regional Director



Ryan Banas
2025–2027 Asia Pacific
Regional Director

Dear SPWLA members,

As we enter the remainder of 2025, the Asia Pacific region remains active with numerous meetings and conferences. Here are some updates and activities:

- **Bangkok Chapter – Technical Meeting (August 28)**
Focus: *Data Processing for Machine Learning and Petrophysics*
This talk will be presented by two recent Chiang Mai University graduates (Pimpakarn Konkaew and Chayanut Deelom) currently interning at PetroRes.
- **Formation Evaluation Society of Australia (FESAus)**
The Perth-based chapter is active once again and holding regular meetings.
- **Formation Evaluation Society of Malaysia (FESM) & EAGE – Joint Conference (November 18–20, Kuala Lumpur)**
Theme: *Petrophysics Meets Geoscience: Unlocking Reservoir Potential in a Dynamic Energy Landscape*
Topics will include integrated reservoir characterization, rock physics, geomechanics, sustainability, and energy transition. Abstract submissions are now closed.
- **Japan Formation Evaluation Society (JFES) – 30th Annual Symposium (October 8–10, Chiba)**
Venue: JOGMEC Technology & Research Center
Includes a Geomodeling Workshop on October 8, followed by 2 days of technical sessions covering reservoir characterization, geophysics, geomechanics, CO₂ storage, and new tool technologies.
- **SPWLA East China Chapter – Topical Conference (September 10–12, Xinxiang, Henan)**
Theme: *AI-Empowered Well-Logging Technology*
Topics include intelligent logging data acquisition, advanced processing software, deep/unconventional reservoir evaluation, and applications in CCUS, CBM, hydrogen, and helium.
- **8th International Workshop on Rock Physics (February 23–27, 2026, Auckland)**
Organized by the International Association of Rock Physicists, this workshop will cover the latest in rock physics theory, experiments, and applications. **The call for abstracts is open until September 20, 2025.**
- **New Student Chapter (Southwest Petroleum University, Chengdu, China)**
A new student chapter is in the process of being added, pending board approval.

Ryan Banas
Asia Pacific Regional Director
Director-Asiapacific@spwla.org

Join the Steering Committee of *The Bridge*!

Are you a young professional in petrophysics who's excited to share your ideas and experiences?

The Bridge, our newsletter section, is looking for volunteers to help shape content and keep the conversation going in our field.

Why Volunteer?

- **Share What You Know:** Writing for *The Bridge* gives you a chance to share your thoughts and expertise with others in the industry. It's a great way to contribute while making your voice heard.
- **Connect with Others:** Being on the Steering Committee means you'll meet and work with other young professionals, building valuable connections along the way.
- **Make a Difference:** You can help shape the direction of the petrophysics community by sharing stories and insights that resonate with others and inspire them.
- **Enhance Your Resume:** Volunteering as a content creator or editor showcases your leadership, commitment to the field, and ability to contribute to industry-wide dialogue—traits highly valued by employers.

If you're passionate about petrophysics and want to help build a bridge to the future, we'd love to have you on board!

To express your interest or learn more,
please contact SPWLAYP@spwla.org.

September 2025

2025 Steering
Committee

Editors

Issa Haddad

Javier Miranda

Clara Palencia

Senior Editor

Nelson Suarez Arcano

SPWLAYP@SPWLA.ORG

In this edition:

*What's the Future of
the Oil and Energy
Industry? Is It Human or
Technology?*
by Javier Miranda

*SPWLA Papers of
the Quarter Series*

What's the Future of the Oil and Energy Industry? Is It Human or Technology?



Nelson Suarez Arcano

Dear Young Professionals,

In this edition of "The Bridge," we have a subject that is on the tongue of every geoscientist and young professional (YP) around the globe: "What's the future of the oil and energy industry, and is it human or technology?"

To tell us more about this hot topic on the future of energy, Javier Miranda, our very own **SPWLA President-Elect**, sat down with industry expert **Nelson Suarez Arcano**, better known in the industry as "**NSA**," to discuss the future of energy. In this conversation, **NSA** shares a powerful perspective on how to navigate the energy transition into what he calls the "Industry Metamorphosis" by combining our uniquely human skills with transformative technology.

NSA holds an MSc degree in petroleum engineering from Heriot-Watt University, a BSc degree, also in petroleum engineering, from the Universidad de Oriente (UDO), and certificates in Business Analytics, Economics, and Financial Accounting from Harvard Business School and Shaping Business Strategy by the California Institute of Technology. **NSA** is well known for contributions to petrophysics, pioneering work in geosteering and offshore unconventional development, and advancing the integration of geoscience and reservoir characterization. With more than 14 publications, **NSA** brings experience across multiple operators, consulting roles, and multinational service companies. Also, he is the current SPWLA "The Bridge" Senior Editor, twice SPWLA past Regional Director for Middle East/Africa and Latin America, and founding President of the SPWLA Dubai Chapter.

Javier Miranda: NSA, thanks for sharing your insight with us. Your perspective on the future of our oil and gas energy industry is one that many YPs are eager to hear. In the past months, we have seen numerous publications in your LinkedIn account addressing this topic. What was the personal motivation behind it?

NSA: It really stems from watching my friends and talented colleagues navigate the past year's layoffs, and even a decade ago, since 2014. The pandemic and industry cycles were a turning point moment for many, me included. But what I saw was not defeat; it was incredible resilience. Let me give you some examples: a group of colleagues started their own consulting firms, others found exciting new roles across the globe, and many leveraged old partnerships to build something new. Witnessing that adaptation and creation inspired me to think deeply about what makes professionals in our field so valuable, which led me to the core idea I wanted to share.

Javier Miranda: That idea is your central theme: "The future of energy is human and technology." Could you break that down for us, starting with the "human" factor?

NSA: Absolutely, we have seen companies like NVIDIA as key accelerators of AI. It's easy to think our value is just in mastering software, but that's wrong. Our job is not to click some buttons in commercial petrophysical or geomodeling software to make a beautiful 1D/2D/3D reservoir model. We should see technology as a partner, not the spark. You are the spark. The irreplaceable human element is our curiosity and critical thinking. It is the petrophysicist who sees beyond a wireline or LWD log curve to the depositional environment it represents. Technology can process data at an immense scale, which is

What's the Future of the Oil and Energy Industry? Is It Human or Technology?

called “big data,” and it does not ask “why.” My mind just jumped to Simon Sinek’s concept of the “Golden Circle,” which looks at three questions: what you do, how you do it, and why you do it. His key insight is that people are most inspired by your *why*—your purpose or belief—more than by the product or service itself, or even the way you deliver it.

Technology does not have the resilience to learn from failure and try again. As an example for our young professionals, here is a history lesson. How do you think the Permian Basin in the USA has arrived at its magnificent production of more than 6 MMBOPD/Day? It came from failure—mostly from failed completions and logistics—and from subsurface professionals such as petrophysicists, reservoir engineers, and geologists who had the resilience to convince managers, drillers, completion engineers, and stakeholders to try again, and again, as many times as necessary. Remember, you are the spark. Your ability to challenge each other in multidisciplinary teams, ask insightful questions, and interpret uncertain data is our most future-proof asset.



Javier Miranda: In your LinkedIn post, we noticed your personal motto: “No matter how small your business or your work is or has been, always be proud of what you’ve built.” How does that connect to the human side of our industry’s future?

NSA: That motto is the foundation. For a young professional, the skills, projects, and understanding of the subsurface you are developing are what you are building. In times of uncertainty, it is easy to question the value of that foundation. But being proud of it—recognizing its intrinsic worth—is an act of resilience; it anchors you. It reminds you, every day, that your expertise has value, and that you have the capacity to apply it to new challenges in the energy transition, no matter what the future holds. Like many have said, the energy transition is not a goal. It is a “transition” we all must navigate. By all, I mean people, processes, and technology.

Javier Miranda: Let us pivot to the other half of your theme. How should YPs view the “technology” factor of the equation, especially with fears of AI making some analytical roles obsolete?

NSA: To answer this, I like to quote one of my recent mentors, a renowned technology innovator that I had the pleasure to work and learn from during my past time at Halliburton. I mean Dr. Michael Bittar, who has a 2024 SPWLA Medal of Honor for Career Service. Dr. Mike says that “*Technology is a great enabler and unifier. You use it as a building block towards a mean, not a replacement of such a mean.*”

What I want to say is, the future is not about choosing between geoscience and data science; it’s about using data science to unlock new geological insights. The professional who can write a Python script, or master Agentic AI to analyze a log and subsurface imperfect data, and then use their geological knowledge to understand the *meaning of the results*, is the one who will lead the way...

Javier Miranda: This is a crucial point for the SPWLA community. Can you give us concrete examples of how traditional oil and gas skills are being unified with new energy sectors through technology?

NSA: This is where it gets exciting, because I’m sure you—as the next SPWLA President and recent past Presidents—also know that our core skills are becoming “energy agnostic,” even if some others may not yet realize it. The subsurface doesn’t care what we’re looking for. For example:

- The **petrophysics** we use to find oil and gas is the exact same skill set needed to characterize reservoirs and caprock for **carbon capture and storage (CCS)** or to evaluate rock properties for **geothermal energy**.
- The **subsurface modeling** techniques for hydrocarbon migration are fundamental for modeling the containment of **stored hydrogen** in salt caverns.
- The **seabed characterization** we do to de-risk drilling is now critical for finding stable foundations for **offshore wind** turbines.



In the SPWLA, we have the Petrophysical Skill Set Guidelines (PSSG), which is available online at www.spwla.org and was updated by Zach Liu and S. Mark Ma, among many other SPWLA member contributors. Over time, what I am seeing is that our toolkit is not shrinking; its area of application is exploding.

Javier Miranda: That is a powerful way to frame it. So, what practical advice would you give a young professional today who wants to thrive in this integrated energy future?

NSA: I would suggest focusing on four things:

1. **Build Your Foundation:** Double down on your core technical skills and competencies.
2. **Build Your Bridges:** Learn the language of other disciplines like data science, AI, engineering, and geoscience.
3. **Build Your Toolkit:** Embrace technology as your essential partner.
4. Finally, **Build Your Network:** Do this beyond your immediate circle of work or academia by engaging with professionals in geothermal, CCS, hydrogen, nuclear waste, etc. The SPWLA is a perfect platform for that.

Javier Miranda: Wonderful advice! To close, what is your ultimate message to the next generation of energy experts reading this?

NSA: My message is one of excitement and empowerment. I personally agree with a concept promoted a few years ago by Dr. Sultan Al Jaber, the CEO of ADNOC. He said, "Maximum energy, minimum emissions." It is a short but powerful statement that implies that the world's need for energy—smarter, cleaner, and more efficient—is one of the greatest challenges of our time.

If anyone has doubts about the future need of energy, just listen to Jensen Huang, NVIDIA's CEO when he stated in Q1 2025 that data centers will need more power than expected. Agentic AI in 2025 needs 100% more computational power than what they thought in 2024, and that in the future, every factory will have two factories, one for what they build and another for the data/mathematics AI. You run the numbers. It's something to consider when making your estimates about the energy demand in the upcoming decades.

In conclusion, this is not an oil and gas problem or a renewables problem; it's an energy systems problem. And our community of subsurface experts is uniquely positioned to solve it. So, be proud of the foundational knowledge you are building. It is the launchpad for the future that will be powered by the incredible constructive collaboration of your ingenuity and the amazing technology now at our fingertips.

“The Petrophysics toolkit isn't shrinking; its area of application is exploding.”
NSA, 2025

The SPWLA Papers of the Quarter Series highlights relevant and impactful papers published by the SPWLA. We encourage readers to nominate any papers they have enjoyed and would like to see summarized in the next issue. Nominations should be sent to SPWLAYP@spwla.org.

Title: Monetizing Hydrocarbon Reserves in A Non-Uniform Pressure-Depleted and Structurally Complex Reservoirs Through Strategic Hydrocarbon Mapping at Multiple Scales

Author: Siti Zulkipli

Summary: This paper presents four case studies on optimizing horizontal well placement and production wells by integrating petrophysical models, hydrocarbon fluid mapping, and reservoir characterization. The approach guides proactive geosteering to avoid uncertainty in gas-oil ratio (GOR), gas-oil contact (GOC), oil-water contact (OWC), and underlying water aquifers in complex structures.

Key Points:

1. **Case Study One**

Uncertainty in GOC due to steeper structure dipping and gas cap movement is addressed by pilot hole drilling with extensive downhole fluid characterization to delineate the fluid contact and type along the wellbore. As a result of the fluid characterization, the horizontal well was sidetracked further downdip to chase the oil leg using real-time geosteering and azimuthal resistivity tools to stay in the low-resistivity pay oil zone and avoid the high-resistivity gas zone.

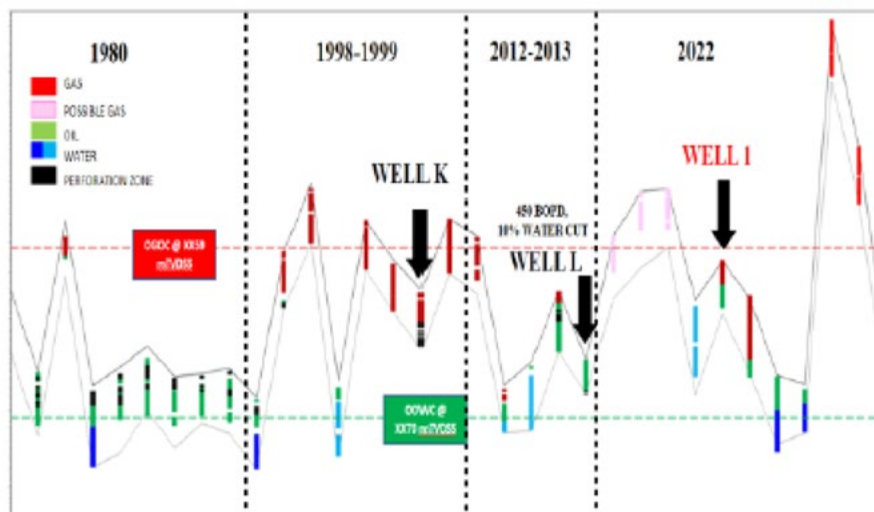


Fig. 1—Fluid contact summary of Reservoir X.

2. **Case Study Two**

Drilling and logging a pilot well in the same field, then integrating the petrophysical model with fluid characterization, revealed a water discrepancy: logs indicated oil, while downhole fluid samples showed water above the oil. Further analysis confirmed the water reading, and the horizontal well was sidetracked updip to chase the oil column.

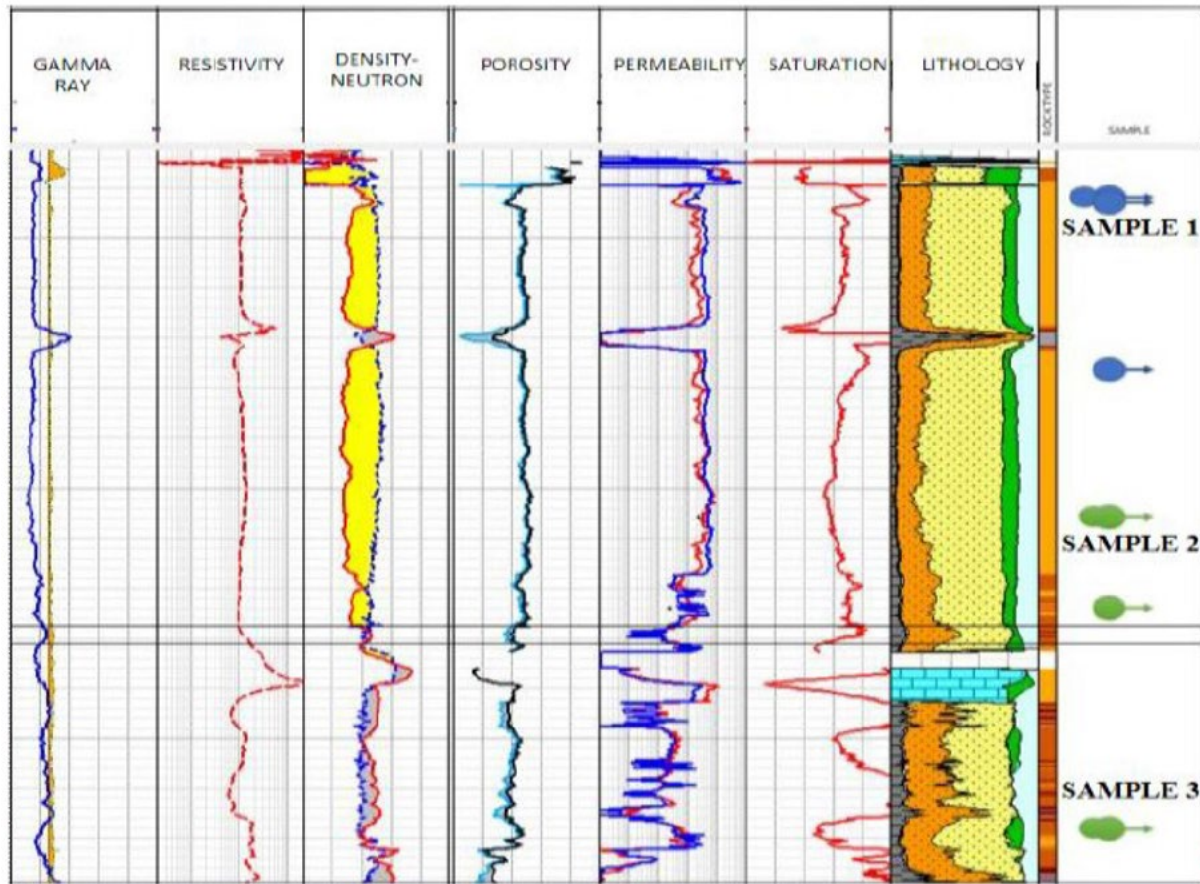


Fig. 2—Pumpout station and log integration shows water on top of oil.

3. Case Study Three

A similar approach was presented in Case Study Three to avoid the oil-water transition zone and place a horizontal well in favorable rock properties using hydrocarbon fluid mapping and geosteering.

4. Case Study Four

In the last case study, infill oil well drilling was optimized by fluid mapping to determine GOC and OWC since they were not fully understood due to partial penetration from the current wells from a different reservoir in the same mature field. Fluid characterization stations helped understand GOC, OWC, Oil mobility, and productivity. Based on the enhanced fluid mapping and understanding, azimuthal resistivity geosteering was done to achieve the best horizontal well placement.

5. Conclusion

The four case studies presented highlight the importance of downhole fluid characterization, proactive geosteering, and petrophysical model integration to avoid moving GOC, oil-water transition zone, and reduce risk in horizontal well placement to achieve optimum oil production.

Reference

Zulkipli, S.N.F., 2023, Monetizing Hydrocarbon Reserves in a Non-Uniform Pressure-Depleted and Structurally Complex Reservoirs Through Strategic Hydrocarbon Mapping at Multiple Scales, Paper SPWLA-JFES-2023-M presented at the SPWLA 28th Formation Evaluation Symposium of Japan, Chiba, Japan, 13–14 September.

SPWLA BOARD OF DIRECTORS MEETING
REMOTE
July 11, 2025

President Robert “Bob” Gales called the meeting to order at 7:02 am CST. In attendance, President-Elect, Javier Miranda, Vice President Technology, Robin Slocombe, Vice President Technology-Elect, Artur Posenato-Garcia, Vice President Education, Matt Blyth, Vice President Finance, and Admin, Jing Li, Vice President Publications, S. Mark Ma, Vice President Information Technology, Peter Barrett, Vice President Communications, Chicheng Xu, Regional Director Middle East/Africa, Elsa Maalouf, Regional Director N. America 2, Andrew Anderson, Regional Director Asia Pacific/Australia, Ryan Banas, Regional Director Latin America, Marta D’Angiola, Regional Director N. America 1, Amer Hanif, and Executive Director, Sharon Johnson
Absent, Regional Director Europe, Pascal Debec

Motions:

1. **Waiver of Minutes Reading**

A motion was made by Vice President Education, Matt Blyth, to waive the reading of the minutes from the May 20, 2025 meeting. The motion was seconded by Vice President Technology, Robin Slocombe.

Motion passed by majority vote.

2. **Approval of 2025–26 Annual Budget**

A motion was made by President-Elect, Javier Miranda, to accept the 2025–26 annual budget as presented to the Board by Vice President Finance, Secretary, and Admin, Jing Li. The motion was seconded by Regional Director North America 2, Andrew Anderson.

Motion passed by majority vote.

3. **Approval of Letter of Authority for Executive Director**

A motion was made by Regional Director North America 2, Andrew Anderson, supporting the Letter of Authority for the Executive Director, Sharon Johnson, to act on behalf of the Society in carrying out day-to-day business operations, including the authority to make financial decisions within the approved annual budget, enter into contracts and agreements necessary for the conduct of the Society’s activities, and represent the Society in legal and administrative matters, subject to oversight by the Board. The motion was seconded by Vice President Information Technology, Peter Barrett.

Motion passed by majority vote.

Action Items:

- **Executive Director, Sharon Johnson** to gather updated materials from Board members for inclusion in the Directors Manual.
- **All Board Members** to review the annual CPA finance report for a vote at the next scheduled meeting.
- **President Robert “Bob” Gales** to follow up with the Saudi Chapter to continue the discussion on future symposia and conference opportunities.
- **Vice President Technology-Elect, Artur Posenato-Garcia** and **Regional Director North America 1, Amer Hanif** to collaborate on polling students regarding how SPWLA can better attract and support student membership.

Adjournment:

A motion to adjourn the meeting was made by Vice President Information Technology, Peter Barrett, and seconded by Vice President Publications, S. Mark Ma.

Meeting adjourned at 10:44 AM.

Respectively Submitted by
Sharon Johnson
Executive Director

NEXT MEETING: September 12, 2025

**SPWLA BOARD OF DIRECTORS SPECIAL MEETING
REMOTE
August 15, 2025**

President Robert “Bob” Gales called the meeting to order at 7:04 am CST. In attendance, President-Elect, Javier Miranda, Vice President Technology, Robin Slocombe, Vice President Technology-Elect, Artur Posenato-Garcia, Vice President Education, Matt Blyth, Vice President Finance and Admin, Jing Li, Vice President Information Technology, Peter Barrett, Vice President Communications, Chicheng Xu, Regional Director N. America 2, Andrew Anderson, Regional Director Asia Pacific/Australia, Ryan Banas, Regional Director Latin America, Marta D’Angiola, Regional Director N. America 1, Amer Hanif, and Executive Director, Sharon Johnson
Absent, Regional Director Europe, Pascal Debec, Vice President Publications, S. Mark Ma, and Regional Director Middle East/Africa, Elsa Maalouf

Agenda & Discussions

1) New Student Chapters

- (a) The motion made by President-Elect Javier Miranda, seconded by Regional Director Marta D’Angiola, to accept the UFRuralRJ SPWLA Student Chapter in Brazil.
- (b) The motion made by President-Elect Javier Miranda, seconded by Regional Director Marta D’Angiola, to accept the Southwest Petroleum University Student Chapter in China.

The motions passed by majority vote.

Action Item: Regional Director Marta D’Angiola, to notify the UFRuralRJ SPWLA Student Chapter of the results.

Action Item: Regional Director Ryan Banas, to notify the Southwest Petroleum University Student Chapter of the results.

2) Outstanding Chapter Evaluation Matrix

Discussion/Results: President-Elect Javier Miranda presented progress on the Outstanding Chapter evaluation matrix. With additional Board input, the matrix will be ready for distribution to chapters via Regional Directors by year-end 2025.

3) Payment to the Dubai Chapter — Concerns

Discussion: The Board discussed concerns related to the payment to the Dubai Chapter based on legal requirements in the region.

Action Item: President Bob Gales to convene a meeting with the Dubai Chapter Board. Attendees from the Parent Board to include: Treasurer Jing Li, Regional Director Elsa Maalouf, President-Elect Javier Miranda, and Executive Director Sharon Johnson.

4) Leveraging SPWLA’s Technical Database

Discussion: The Board discussed strategies to better leverage SPWLA’s technical database, including exploring applications of AI to SPWLA’s archive of technical papers.

Action Item: Establish a working group to brainstorm and develop recommendations. Lead: VP Communications Chicheng Xu and VP IT Peter Barrett.

5) 2026 Symposium Progress

Report: Executive Director Sharon Johnson reported that (a) the venue contract is secured; (b) committee positions are being filled, and (c) the exhibition floor plan and brochure are in the final stages for marketing launch.

Action Item: Executive Director Sharon Johnson to coordinate a meeting schedule with the conference committee.

6) 2026 Planning — SEG Seismic Petrophysics Conference (Joint Planning)

Discussion: The Board discussed partnering again with SEG for the Seismic Petrophysics conference.

Action Item: Executive Director Sharon Johnson to request a Memorandum of Understanding (MOU) from SEG for the SPWLA Board to review for consideration.

Respectively Submitted by
Sharon Johnson
Executive Director

NEXT MEETING: September 12, 2025

Chapter News

ARGENTINA CHAPTER

General News

During this quarter, the SPWLA Argentina Chapter organized a technical outreach activity focused on the application of artificial intelligence in petrophysics, reaffirming its commitment to professional development and knowledge sharing among industry specialists. The event was open and free of charge, encouraging participation from professionals across various segments of the energy sector.

Recent Events

Event Title: Artificial Intelligence in Petrophysics: Evolution and Applications

Date: Wednesday, July 2, 2025

Time: 12:00–13:00 (Argentina time, UTC-3)

Format: Virtual – Microsoft Teams platform

Speaker: Juan Carlos Porras, director of Inter Rock C.A.

Summary of Content

The speaker provided a historical overview of artificial intelligence in petrophysics, from its early stages to current trends, highlighting advancements and limitations in formation evaluation applications. The session covered the fundamentals of the most widely used AI methods, illustrated with real case studies, and included reflections on the future role of AI in the industry.

Attendance

The event was widely promoted through social media and an online registration platform (LinkedIn Events). Participants actively engaged with questions and technical discussions at the end of the presentation.



Upcoming Events

12 September 2025—Joint Event Between the Student Chapter and Professional Chapter

Time: 9:00 am to 1:00 pm

Venue: To be confirmed (possible location: YPF facilities)

Details: Three presentations from the student chapter and three from the professional chapter. We are awaiting confirmation from some student chapter participants and will secure speakers and the venue shortly. If progress is made, an organizational meeting will be scheduled in the coming days.

17 September 2025—Presentation

Topic: Artificial Intelligence Applied to the Energy Sector

Status: Confirmed

November 2025—Webinar organized

Topic: Potential session focused on ChatGPT applications in geology

Date: To be determined

November 2025—Course by Gabriel Gallardo

Topic: Fundamentals of Geomechanics

Format: 3–4 non-consecutive days, 1 hour per day

Status: To be confirmed.

ARGENTINE STUDENT CHAPTER

General News

Our student chapter has continued to consolidate itself as an active and committed community of young professionals and students in the geosciences. Over the past months, we have expanded our network, strengthened collaborations with other Latin American chapters, and created joint initiatives that allow our members to broaden their technical knowledge while connecting with industry leaders. We remain committed to fostering a community of learning, collaboration, and innovation, and we invite all students interested in petrophysics, geology, and the energy sector to join our upcoming activities.

Recent Events

07 May 2025—In line with our commitment to social responsibility, our student chapter organized a solidarity raffle to support **Magis Puente de Fierro**, a grassroots organization in La Plata, Argentina. This organization works to improve the quality of life for families in vulnerable situations through educational programs, nutritional

support, and community development projects. The prize for the raffle consisted of two full scholarships for the course “Geólogo 4.0: Operaciones inteligentes con software Avanzado.” With this initiative, we have raised important funds to support the organization’s programs.

GEOLOGO 4.0:
Operaciones inteligentes con software avanzado

CONTENIDOS:
Proyecto pozo.
Well Section (aterriaje y segmentación).
Correlación y Mapas.
Intersection Windows (aterriaje y sección lateral).
Geonavegación de pozos horizontales.
Casos prácticos y más.

Modalidad: Online (Zoom).
Duración: 10 horas (5 sesiones de 2 h c/u).
Inicio: 02/08/2025 al 10/08/2025.
Incluye: Clases totalmente prácticas, Material, software especializado y certificado de asistencia.

Instructor: Ing. Geólogo Gustavo Barrios especialista con más de 10 años de experiencia en Geonavegación de pozos horizontales.

This is the flyer for our raffle.



Our president and treasurer met with Ignacio, a volunteer from Magis Puento de Fierro.



This photo shows the three coordinators from Magis Puento de Fierro: Araceli Varela, Rocio Lopez Iafolla, and Damián Inghilterra.

11 July 2025—We hosted a highly informative webinar led by Juan Manuel Otero (geonavigator at Rogii, Argentina) and Gustavo José Barrios González (geological engineer, Venezuela). The session offered a detailed overview of geonavigation, combining theoretical foundations with practical case studies and the latest tools used in the field. Attendees learned about innovative strategies to optimize well placement and improve reservoir characterization, gaining valuable insights into real-world applications.

GEONAVEGACIÓN
PRECISIÓN EN LA PERFORACIÓN

GUSTAVO JOSÉ BARRIOS GONZÁLEZ

Ingeniero Geólogo venezolano especializado en geonavegación y optimización de perforación, con más de 10 años en la Faja Petrolífera del Orinoco. Experto en pozos horizontales, monitoreo en tiempo real y software avanzado.

FECHA: 11 de Julio
HORARIO: 20Hs (ARG)

Se entregarán certificados

Inscríbete a través del QR o desde el link de nuestra biografía

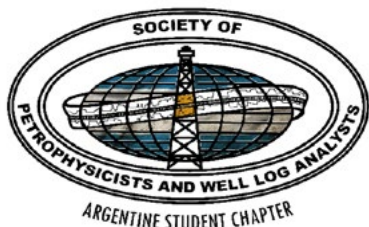
This is the flyer for Gustavo's part of the webinar.

an opportunity to engage with leading companies, discover the latest technological advancements, and take part in an in-person meeting organized by our chapter to promote networking and professional development.

In collaboration with the student chapters of Peru, Venezuela, Argentina, and Chile, we are preparing an international conference cycle. This program will feature distinguished speakers from academia and industry, addressing key topics such as reservoir characterization, data integration, and digital transformation in geosciences. Dates, topics, and registration details will be announced soon.

To learn more about us:

- * Mail: spwla.arg.sc@gmail.com
- * LinkedIn: www.linkedin.com/in/spwla-argentine-student-chapter
- * Instagram: <https://www.instagram.com/spwlaarg/>



BANGKOK CHAPTER

General News

The Bangkok Chapter of SPWLA holds meetings most months. The meetings are held on the 4th Thursday of each month, starting at 5 pm with a networking session with food and drinks, followed by a technical presentation at 6:15 pm. There is no charge to attend, but we do ask that you register in advance so that we can tell the hotel how many people are expected.

2025 Bangkok Chapter Committee Members are:

- Chapter President:** Andrew Cox
- Technical Coordinator:** Ryan Banas
- Sponsorship:** Marvin Rourke
- Secretary:** Ronald Ford
- Treasurer:** Nipista Pongpanit
- Web Coordinator:** Alex Beviss
- Corporate Liaison:** Rinlita Lertkornteeranan
- Student Liaison:** OPEN

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

Recent Events

17 June 2025—Our June 2025 meeting was a joint session for both SPE Thailand and SPWLA Bangkok Chapter. We were fortunate to have Dr. Kyaw Moe (principal researcher, JAMSTEC), who provided a very interesting presentation: “Ultradeep Scientific Drilling: 65 Years of Challenges and Next Target.” **Dr. Moe** presented an overview of the challenges spanning 65 years in ultradeep scientific projects, and the ambitious future super-deep projects to set world records were introduced. Beginning in 1961, these challenging scientific drilling projects have fundamentally transformed our understanding of the planet.



Dr. Kyaw Moe.

28 July 2025—“Optimizing Multiwell Petrophysical Interpretation: The Role of Log Alignment and Normalization in an ML-Driven Data Preparation Pipeline” was presented by **Chayanut Deelom** and **Pimpakarn Konkaew** (petrophysics interns with PetroRes Consulting). Chayanut Deelom and Pimpakarn Konkaew provided a two-part presentation demonstrating how a semi-automated, ML-driven pipeline can efficiently generate reliable and calibrated petrophysical inputs across multiple wells.

1. The impact of depth shifting with a quantitative assessment of error in reservoir evaluation.
2. The importance of normalizing log data and its impact on calculations, biases caused by logging vendors, tool calibrations, and borehole conditions through a comparative analysis of normalized versus unnormalized log data.

The examples highlighted the importance of both depth shifting (correction) and data normalization, and the impact this can have on reservoir evaluation.



Chayanut Deelom



Pimpakarn Konkaew

Please check our local website for the latest information on events and activities for the Bangkok Chapter on the SPWLA main page: https://www.spwla.org/SPWLA/Chapters_SIGs/Chapters/Asia/Bangkok/Bangkok.aspx or visit us on LinkedIn (SPWLA Bangkok Chapter).

BOREHOLE IMAGING (BHI) SIG

General News

The BHI SIG has significantly grown in size and now has over 500 members.

Upcoming Events

We would like to conduct an online workshop in autumn/fall, following on from our recent workshops on imaging and geomechanics. The topic and the date of the event will be released soon.

BRAZIL CHAPTER

General News

Our monthly meetings are being held online, predominantly every third Tuesday of the month, at 4 pm BRT (UTC-03), through our **YouTube channel** (<https://www.youtube.com/@spwlabrazil>). Please consider subscribing to the channel and turning on notifications to stay updated on our latest videos. Anyone wishing to participate is welcome. 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 welcome!

Please consider subscribing to our **LinkedIn page** (SPWLA Brazil Chapter – <https://www.linkedin.com/company/spwlabrazil/>), where we post chapter updates and meeting links.

For further information about the chapter, please contact our secretary, David Xavier (dx@equinor.com).

Membership in our chapter is free and can be claimed by filling out the form available at <https://lnkd.in/g4KQjYf>.

We're excited to announce that we have launched our monthly meetings dashboard! Visit and check the statistics of all registered monthly meetings delivered by our chapter at <https://SPWLABRChapterdashboard>.

Recent Events

17 June 2025—We had **David Vasconcelos** (assistant professor at Federal University of Campina Grande), who presented “Deformation Bands: Implications for Hydrocarbon Reservoirs and CO₂ Storage.” During the webinar, David addressed how a fault zone with deformation bands can affect the petrophysical properties of the host rock and the implications of these structures for hydrocarbon reservoirs and CO₂ storage.

15 July 2025—We had **Vitória Flores** (<https://www.linkedin.com/in/vitoriagpflores/>) (operation geologist for Eneva), who presented “Optimizing the Use of Mud-Logging Data for Water Saturation and Porosity Prediction in the Cabeças Formation, Parnaíba Basin, Brazil.” Vitória presented the use of an adaptation of Archie’s equation, incorporating normalized methane gas data, drillability index, and a gas-water baseline, to estimate water saturation and reservoir quality from mud-logging data. The approach estimates porosity and was successfully applied to the Cabeças Formation, Parnaíba Basin, showing good correlation with conventional petrophysical analysis and aiding early identification of the gas-water contact.

19 August 2025—We hosted **Mathieu Ducros** (<https://www.linkedin.com/in/mathieuducros/>), who presented “Cloud-Native Automated Multiwell and Multilog Correlation Using Dynamic Time Warping and Machine Learning – Application to Brazilian Basins,” discussing how to overcome traditional manual approaches for stratigraphic correlation of well logs using a cloud-native, automated solution combining dynamic time warping (DTW) for sequence alignment and machine learning for data preprocessing.

Upcoming Events

1–5 September 2025—The Brazil Chapter will offer the **2nd edition of the Core Analysis Course**, led by MSc **Felipe Moreira Eller** (<https://www.linkedin.com/in/felipeeler/>) (researcher at Advanced Oil Recovery Laboratory (LRAP - Laboratório de Recuperação Avançada de Petróleo) – COPPE/UFRJ). The course will be held at LRAP, located in the Cidade Universitária, Rio de Janeiro – RJ. Over the 4 days, participants explored key topics such as core analysis fundamentals and laboratory measurement.

The SPWLA Brazil Chapter is planning the remaining 2025 courses and presentations calendar, so stay tuned to our LinkedIn page and YouTube channel to stay up to date with our schedule.

FORMATION TESTING SIG

General News

Officers meet biweekly to plan and discuss events. Multiple events had been planned for this year, with the first half already passed. The team is focused on the events for the next half.

Upcoming Events

- Multiple webinars are planned as the FT SIG continues its webinar series.
- THE FT SIG Annual Meeting and Technical Conference will be held later in the year in Houston, Texas. Look out for announcements on the SPWLA website and on our media channels.

If you have questions on any of our events, you can contact us at formation.testing.sig@spwla.org.

FRANCE CHAPTER

General News

The chapter has officially expressed its interest to the SPWLA Board of Directors in hosting the 2027 SPWLA Annual Symposium in Pau, France. We believe this would be a great opportunity to welcome the global SPWLA community back to France, 32 years after the 1995 Symposium in Paris. The final decision will be announced in January 2026.

Recent Events

11 July 2025—SPWLA France organized an online webinar to transition between two quarterly themes: from petrophysical digital tools (Q2 2025) to core petrophysics (Q3 2025). Oriyomi Raheem (The University of Texas at Austin) presented his 2025 SPWLA paper from the Dubai Symposium entitled “Universal Data-Driven Permeability Estimation by Connecting MICP Analytics With Big Data.” The webinar attracted a wide audience of professionals, including petrophysicists, data scientists, and physicists. The presentation was followed by an engaging 30-minute discussion on machine-learning applications, database and data bias, saturation modeling, and permeability prediction. Chicheng Xu from OpenPetro AI (coauthor of the paper) also joined and shared his perspective on the advancement of AI in petrophysics.

Q3 2025—The chapter focused on advancing knowledge in core analysis and showcasing the latest research by inviting presenters from the 38th Society of Core Analysis (SCA) Annual Symposium, held in Hannover, Germany, in August 2025.

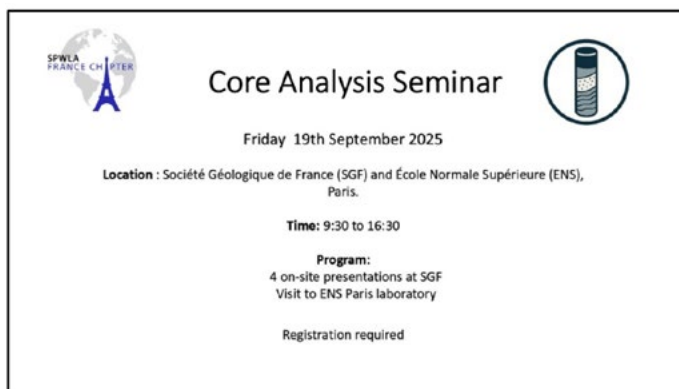
Upcoming Events

SPWLA France is pleased to announce a special two-day event in September 2025, featuring a joint networking evening and a dedicated seminar on core analysis.

18 September 2025—Networking Evening and Featured Talk: Organized jointly with SPE France and EAGE Paris Chapters, this event will be an excellent opportunity to connect with fellow professionals in a relaxed setting. The evening will begin with introductions from the society, followed by a featured talk, “The Historic Origins of Oil Production,” presented by Martin G. Luling, physics advisor. A group dinner will follow.



19 September 2025—Core Analysis Seminar: Hosted at Société Géologique de France (SGF) in Paris, the seminar will feature presentations of the best papers from the 38th SCA Annual Symposium. The day will conclude with a guided visit to the geology laboratory at ENS (École Normale Supérieure), Paris.



For more information and to register for the events, please visit:

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

Website: <https://spwla-france.fr/events/>

HOUSTON CHAPTER

Houston Chapter Officers 2024–2026

President: Ron J.M. Bonnie,
president@spwla-houston.org

Vice President – Northside: Ali Eghbali, Baker Hughes,
vpnorthside@spwla-houston.org

Vice President – Westside: QinShan “Shan” Yang, GOWell,
vpwestside@spwla-houston.org

Secretary: Ronke Olutola, Woodside,
secretary@spwla-houston.org

Treasurer: Zeyad J. Ramadan, SLB,
treasurer@spwla-houston.org

Editor: Muhammad Noman Khan, University of Houston,
editor@spwla-houston.org

Webmaster: Tianmin Jiang, ConocoPhillips,
webmaster@spwla-houston.org

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The Leading Light in Energy

Recent News

26 June 2025—SPWLA Houston Chapter Networking Event:

Our monthly networking event on Thursday, June 26, was generously sponsored by Lumina Geophysical; a special thanks to Cesar Bolivar, who made this happen. Given that this was in the middle of the holiday season, we had a great turnout, and a good time was had by all. There was great and spirited conversation on a variety of topics. The banner/poster that Lumina had brought was a great discussion starter. Once more, thank you, Lumina Geophysical. Anyone can join us for an evening of networking, conversations, and community! Whether you're a petrophysicist, geologist, geophysicist, engineer, or manager, this is a fantastic opportunity to connect with fellow professionals in a relaxed setting. No RSVP needed—just show up and mingle at your leisure. Expect to see familiar faces, including current and past SPWLA international board members and other well-recognized names from our industry. This partly outdoor event offers a casual and welcoming environment to catch up, share ideas, and build lasting connections.

Meet us on the last Thursday of each month from 5 to 8 pm at Cedar Creek Bar & Grill, 1034 West 20th Street, Houston, TX 77008!



SPWLA Houston Chapter Networking Event – June 26, 2025.

Recent Events

31 July 2025—Northside Technical Talk/Luncheon Meeting

Decoding the “Shaly Sand” Seminal Papers

By: David Kennedy

Abstract

Many attempts have been made to interpret the log responses of the clay-bearing sandstones that are called “shaly sands.” Two of the most frequently encountered models are those of Waxman and Smits (WS) and the Clavier, Coates, and Dumanoir (CCD) dual-water model. In this article, I review both these seminal papers, supplying the background material not present in the original papers, making them more understandable to interested readers. I also point out some logical errors that represent impenetrable walls to understanding unless they are exposed as errors, and the outputs derived by the authors do not follow from the inputs. I show that contrary to its author’s claim, the Waxman-Smits (“Uni-Water”, UW) model is not a parallel conductivity model, whereas the Clavier-Coates-Dumanoir Dual-Water (DW) model is a parallel conductivity model. We also show that for the CCD model, the definitions of its parameters can be made more logically than the choices made by its authors, and that some modifications to its method of interpretation produce more realistic results at low formation brine salinity concentrations.

Biography

Dave needs little introduction; he has been a member of SPWLA since 1975 and was the VP Publications, first editor of *Petrophysics*, VP Technology, and President.

As a young adult, Dave was an infantry platoon leader in the Vietnam War. Back to civilian life, Dave finished his physics degree at Georgia Tech in 1972. He ended up at Schlumberger, where he was introduced to formation evaluation. Skeptical of much he saw, Dave felt petrophysics and formation evaluation might be a field where he could make significant contributions.

Dave's name is on six patents as an inventor or coinventor and about 60 papers as an author or coauthor on a variety of topics covering induction instrument responses and forward modeling, conductivity anisotropy, the theoretical petrophysics of conductivity in reservoir rocks, and, most recently, shaly sand models.

Throughout his career, Dave worked for operators and service companies and had various roles and assignments with Schlumberger, Arco, Sohio, Lockheed, Mobil, Exxon, Baker Hughes, Pathfinder, and Southwestern Energy.



14 August 2025—Westside Technical Talk/Luncheon Meeting
 “Asphaltene Clustering in A Black Oil Column Driven by Gas Addition, Explained via History Matching of Reservoir Charge”
 By: Tarek S. Mohamed (SLB)

Abstract

A tilted-sheet, well-connected reservoir in the deepwater Gulf of Mexico/America exhibits bimodal and complex fluid distributions. The acquired measurements of methane isotope, asphaltene concentration, and solution gas-oil ratio (GOR) indicate a diffusional gradient of solution gas and lack of equilibrium in the top half of the oil column, whereas the bottom half of the oil column shows quasi-equilibrium and well-mixed oil. This startling distribution gives rise to an asphaltene clustering trend in the bottom half of the oil column, leading to large oil viscosity and asphaltene gradients toward the base of the oil column. Our objective is to model

the fluid mixing dynamics, over geologic time, of separate gas and oil charges and the impact of a significant GOR increase on asphaltene spatial distributions. For the first time, we simultaneously model the development and dynamics of both asphaltene and GOR distributions over geologic time, leading to present-day, bimodal measured fluid realizations. Geochemical evaluation of acquired fluid samples shows a significant amount of biogenic gas throughout the entire oil column, where methane isotopes indicate that 50% of the solution gas in the bottom half of the oil column is biogenic, and where the biogenic gas fraction increases at the top half of the column. Furthermore, GOR measurements indicate significant variations in solution gas at the top half of the column, increasing by 6,000 scf/bbl over 130 ft of height. This gradient is successfully matched with the diffusion equation. On the other hand, the lower half of the column shows a small GOR gradient that is matched locally with the cubic equation of state (EoS). Asphaltene concentrations respond to the high GOR in the top half of the column as asphaltenes are expelled with great efficiency toward the bottom half of the column, forming asphaltene clusters. Asphaltene clusters remain due to both increased asphaltene concentration and increased solution gas. This process gives rise to a light-oil gradient of the asphaltenes in the top half, and a heavy-oil clustering gradient of asphaltenes in the bottom half of the column. Both gradients are not expected in a black-oil reservoir and are matched with the corresponding models of the Flory-Huggins-Zuo equation of state (FHZ EoS). The puzzling fluid distributions are explained and replicated by forward modeling of fluid mixing dynamic processes over geologic time: history matching of reservoir charge. Compositional reservoir simulation is used to model the addition of methane through a point source into an oil-saturated reservoir, resulting in the development of present-day GOR and asphaltene measurements.

Biography

Tarek S. Mohamed (SLB) is an interpretation development engineer and an interdisciplinary subsurface scientist at SLB, working on various projects spanning reservoir engineering, petrophysics, and geophysics. He co-leads the development of the new direction of forward modeling reservoir fluid geodynamics (RFG) processes over geologic time using reservoir simulation and history-matching reservoir charge as a new way to predict fluid spatial compositional distributions in untapped regions. Dr. Mohamed coauthored over 20 technical papers accepted by several organizations, including SPWLA, SPE, SEG, AAPG, and ACS, and published in peer-reviewed journals or presented at major energy conferences. His expertise includes reservoir numerical modeling and

simulation, petrophysics and formation evaluation, data science and machine learning, reservoir characterization, and well-test analysis. He holds a PhD in petroleum engineering from The University of Texas at Austin, an MS degree in petroleum engineering and a Graduate Certificate in data science and analytics from the University of Oklahoma, and a BS degree in petroleum engineering from Suez University. He received several technical awards and recognitions, including the 2025 SPWLA Young Professional Technical Achievement Award, as well as being selected as an SPWLA Global Distinguished Speaker for 2023–2024 and an SPWLA Regional Distinguished Speaker for North America for 2024–2025.



28 August 2025—Northside Technical Talk/Luncheon Meeting

“NMR Study of Permeability and Kerogen in Organic-Rich Chalk”

By: Dr. Philip Singer (Rice University)

Abstract

Many NMR relaxation and diffusion techniques are exceptional for studying the petrophysics of unconventional formations. In this talk, I present some unique petrophysical insights into Type II-S (i.e., marine origin with high organic-sulfur content) organic-rich chalk, including:

- a. Micro/macropore size and tortuosity anisotropy from restricted diffusion obtained from D - T_2 maps at 2.3 MHz, permeability and permeability anisotropy from the Carman-Kozeny model, and insights into paleo-deposition cycles in the late Cretaceous.
- b. Quantification of solids (kerogen, bitumen, clay hydroxyls) and liquids (pore fluids, fluids dissolved in kerogen, clay-bound water) using T_1 - T_2 maps with solid-echo at 20 MHz, integration with RockEval data, H/C ratio of kerogen, kerogen swelling ratio, and kerogen nanopore size, all as a function of thermal maturity (i.e., depth).

Biography

Dr. Philip Singer is an assistant research professor at the Department of Chemical and Biomolecular Engineering, Rice University in Houston, Texas. He joined Rice University in 2015 as a research scientist in the Hirasaki group, then became a faculty member in 2021. He received his master’s degree in physics from the University of Oxford in 1997 and earned his doctorate in physics from the Massachusetts Institute of Technology in 2003. He completed his post-doctoral research at the Université Paris-Sud in 2005, after which he worked for 10 years as a research scientist at Schlumberger. His areas of interest are NMR in porous media, hydrogen geostorage, carbon dioxide utilization/geostorage, MD simulations, MRI contrast agents, and NMR in quantum materials.

Upcoming Events

11 September 2025—Westside Technical Talk/Luncheon Meeting

“Automated Anomaly Detection of Multimetallic Tubulars in Well Integrity Logs Using Signal Mode Decomposition and Physics-Informed Decision Making

By: Ze Wang (GOWell)

Abstract

Anomaly detection using well integrity logs is crucial for multimetallic tubular wells, as it helps save operators from costly repairs and potential well abandonment. However, features such as collars and artifacts often obscure the signals of outer pipes, making anomaly interpretation particularly challenging. To address this issue, an automated anomaly detection method has been developed that effectively separates collars and corrosion signals from complex log results. This approach significantly enhances analysis accuracy and efficiency in wells with multiple tubulars, up to five layers. The anomaly detection method utilizes casedhole logging images obtained from a pulsed-eddy current electromagnetic tool as input. It outputs the location information of collars and anomalies, respectively. The method comprises two steps: signal mode decomposition and the decision-making process. A novel approach, hierarchical multiresolution variational mode decomposition (HMVMD), is introduced to extract both anomaly-related and collar-related signals by decomposing the input into a set of frequency-based modes. The decision-making phase employs a decision tree design based on Bayes’ theorem, with the process simplified by Markovian modeling. Prior knowledge of casedhole completion is incorporated into the design to further refine results. Field trials in operational wells have been conducted to evaluate the proposed method.

By distinguishing the thickness-related signal from raw data, previously obscured anomalies became interpretable. The method excels at denoising the data, effectively reducing noise interference by enhancing the signal-to-noise ratio (SNR) up to 29 dB. It saves 90% of the time that log analysts spend manually differentiating collars, traditionally requiring several hours, thereby significantly optimizing the interpretation efficiency. In a five-pipe scenario, the results demonstrate detection accuracy rates of approximately 99% for the inner three pipes. It maintains accuracy rates over 90% and 75% on the fourth and fifth pipes, respectively, where the SNR is low, and the outer-pipe signal is masked by the inner layers. In addition, it maintains high accuracy under complex well scenarios, such as those involving completion equipment and eccentricity. This new approach offers interpretation specialists an efficient and accurate anomaly analysis tool for multimetallurgical tubulars.

Biography

Ze Wang is a research scientist at GOWell, specializing in casedhole well integrity and production logging. His research interests include algorithm development, data-driven solutions, signal processing, and numerical simulation for oil and gas applications. He also has research experience in unconventional reservoirs and carbon utilization and storage. Dr. Wang previously worked as a post-doctoral scholar at the Missouri University of Science and Technology, USA. He holds a PhD and MS degrees in petroleum engineering from Missouri University of Science and Technology, and a BS degree in petroleum engineering from China University of Petroleum, China.

5 December 2025—The 2025 SPWLA Houston Technology

Show: We are in the early planning stages of the Annual SPWLA Houston Technology Show. There's still a lot to be decided, such as venue, but the date has been set. Your patronage over the years has been critical to the success of this event, and we want to invite you to join us and participate again this year. The frontrunner location options are Halliburton's Main Campus and the University of Houston (downtown), but we are still considering alternatives. Please let us know if you know of suitable alternatives or, better yet, if your company is willing to host this event. As always, we invite companies to our Technology Show to showcase their advances in formation evaluation technologies and interpretation software to a great representation of the oil and gas industry. The 2025 SPWLA Houston Technology Show

will again include a keynote speech, technical talks, a sumptuous lunch, plenty of time for attendees to interact with exhibitors, and a happy hour social to close the day. We hope to welcome you as an exhibitor at the 2025 SPWLA Houston Technology Show and look forward to receiving your confirmation of participation at your earliest convenience.

JAPAN CHAPTER (Japanese Formation Evaluation Society)

Recent Events

18 July 2025—2025 JFES Distinguished Lecture – 127th Chapter Meeting: We welcomed more than 15 in-person attendees and 20 online participants.

Presentations

- 1. Leveraging Generative AI for the Energy Industry – Insights From SLB Tokyo and Value Creation Through SLB Digital Solution**
Speakers: Tomomi Ninomiya (senior geologist, SLB Digital & Integration) and Takashi Asano (geoscience/digital manager, SLB Digital & Integration)
- 2. Revolutionizing Drilling Operations: The Integration of DrillOps™ Solutions for Enhanced Quality, Automation, and Efficiency**
Speaker: Chao Chen (digital drilling business development manager, SLB Digital & Integration)
- 3. Digital Advancements in Reservoir and Production Engineering**
Speaker: Hirotatsu Yamabe (petroleum engineering/geomechanics manager, SLB Digital & Integration)

Upcoming Events

8–10 October 2025—30th JFES Annual Symposium: We are organizing the 30th JFES Annual Symposium. **Registration link:** <https://forms.office.com/r/eS14m8Yt3u>.

8 October 2025—The Geomodeling Workshop is to be held ahead of the 30th JFES Annual Symposium. The JFES Geomodeling workshop brings together industry and academic experts. This event is the perfect platform to:

- Develop insights into the reservoir modeling in the Japanese scene
- Understand current reservoir modeling challenges faced by the main Japanese energy companies
- Connect with the Japan-based reservoir modeling community

- Have rich technical discussions and collaborate with your peers to contribute to the future of reservoir modeling in Japan

9–10 October 2025—The Annual Symposium will be held at the same venue as the Geomodeling Workshop, Japan Organization for Metals and Energy Security Technology & Research Center (JOGMEC-TRC), Chiba, Japan. The symposium committees are soliciting papers on the following:

- Formation evaluation of conventional and unconventional reservoirs
- New technology/advanced logging and sampling
- New technology in subsurface (geophysical, geological, petrophysical, and reservoir)
- Case Studies from oil, gas, geothermal, new energy, CCUS, geo-engineering, and scientific drilling

We set “Advanced Sampling Analysis at Surface” as a special session theme in this symposium, and the latest innovations and experiences will be shared with the JFES symposium participants. The invited presentations in person and online will be organized by the symposium committee by inviting the industry leaders from global universities, research institutes, and energy companies.

- Mud logging
- Fluid sampling and analysis
- Automation of the description and analysis of the cut and the cores
- Digital rock or cores

Further information is available from the link below:

<https://www.spwla-jfes.org/ja/the-30th-formation-evaluation-symposium-of-japan/>

Registration is now open! <https://forms.office.com/r/eS14m8Yt3u>

Registration Fees

Important: Early bird pricing is available until **19 September 2025**.

- **Student** – JPY 1,000
- **Early Bird (JFES Member)** – JPY 8,000
- **Early Bird (Non-Member)** – JPY 10,000
- **Regular (JFES Member)** – JPY 11,000
- **Regular (Non-Member)** – JPY 13,000
- **Geomodeling Workshop Only** (*for those not attending the symposium*) – JPY 8,000

LONDON PETROPHYSICAL SOCIETY (LPS)

General News

The London Petrophysical Society (LPS) has continued to engage its members in 2025. We first would like to extend our sincere gratitude to our sponsors for their continued generosity and support. These contributions are essential in enabling us to fulfil our mission of advancing the field of petrophysics and fostering a strong professional community in London and beyond. Below are our current sponsors:



Recent Events

17 July 2025—The LPS recently hosted an engaging online lecture by SPWLA Distinguished Lecturer Dale Fitz, who presented “Evolution of Casedhole Nuclear Surveillance Logging Through Time.” A good number of attendees listened to the talk, which highlighted the advancements in casedhole logging technologies and their growing importance in well integrity, production monitoring, and reservoir surveillance.

Upcoming Events

Looking ahead, the LPS is excited to host a one-day seminar titled “Petrophysics 101 – Core Concepts in Petrophysics” this September. Aimed at early-career professionals and those seeking a refresher, the seminar will cover foundational principles with practical insights from industry experts.

The event will take place at The Geological Society, Burlington House. See below for a list of upcoming LPS events, with some topics still to be confirmed.

Event	Date
September One Day Seminar	4 September 2025
October Evening Lecture	9 October 2025
New Technology Seminar & AGM	6 November 2025
One Day Seminar – Topic TBD Followed by the President’s Evening	11 December 2025
SPWLA 2026 UDAR Conference	23–25 March 2026

Additionally, the LPS is proud to support the upcoming SPWLA UDAR Topical Conference, which will explore emerging applications and challenges in geosteering and reservoir mapping with UDAR technology

For more information and registration details, visit: www.lps.org.uk/lps-events.

NUCLEAR LOGGING SIG

Recent News

18 May 2025—Casedhole Workshop in Dubai, UAE: SIG Members, Ahmed Badruzzaman and Dale Fitz, organized the workshop, held on the Sunday before the Symposium. The workshop had the highest registration among all workshops at the Symposium. It was a timely workshop as pulsed-neutron techniques have evolved from determining remaining hydrocarbons to applications in several low-carbon energy generation systems, such as monitoring injected CO₂ in CCS projects. The workshop covered the basics of the techniques, their applications in Middle East fields, a novel low-carbon application, and recent tool advances, followed by a “friendly” quiz. The specific topics covered and instructors are noted in **Appendix A**. Each registered attendee was awarded a Certificate of Completion.



Class photo from the Casedhole Workshop in Dubai.

Appendix A

SPWLA Casedhole Nuclear Logging Workshop: Basics, Advances, and Novel Applications, Dubai, UAE, May 18, 2025:

Broad Topic	Presentations	Presenter*
Pulsed-Neutron Techniques:	Casedhole Fluid Saturation Monitoring-PN Techniques: Basics to Multiple-Detector Tools	Ahmed Badruzzaman (PCE)
	Pulsed-Neutron Approaches to Production Logging	Dale Fitz-Consultant (Pre-recorded)
A Novel Application	Pulsed-Neutron Logs for CCS	Robert Laronga-SLB
Application in Middle East Fields-Examples	Pulsed Neutron, a Key Catalyst for Mature Reservoir Management	Amr Serry-ADNOC
	Toward Quantitative Remaining Oil Saturation: Challenges, Technologies, & Applications	Mark Ma-Saudi Aramco*
PN Tool Advances	IntelliSat-New 1-11/16 PN Tool	Weijun Guo-Halliburton
	Latest Casedhole Pulsed-Neutron Advances in SLB	David Rose-SLB
Exercise and a “Friendly” Quiz		Ahmed Badruzzaman

*Most presenters are members of the Nuclear SIG.

*Mark could not attend but sent slides to be shared; they were briefly displayed.

Workshop Organizers*

Dr. Ahmed Badruzzaman: Over 35 years of experience in nuclear logging techniques, 20 of them as a corporate casedhole SME at Chevron. Currently, a PetroSkills instructor, Full Casedhole Formation Evaluation Course; SME consultant, US Department of Energy; professional faculty, University of California, Berkeley.

Dr. Dale Fitz: Thirty-four years studying openhole shaly sand techniques, casedhole formation fluid contact monitoring techniques, and practicing production logging at various ExxonMobil affiliates. Currently, an instructor, Full PetroSkills Production Logging Course.

*PetroSkills is thanked for allowing the use of materials at the SPWLA Workshop.

SIG Member Wins Awards at the Symposium: Dr. Ahmed Badruzzaman was recognized with the SPWLA Gold Medal for Lifetime Technical Achievement, the Society’s highest technical recognition. He is the 43rd recipient of this award in 60 years. In his speech, Ahmed thanked his colleagues from across organizations for their support and knowledge sharing, and his wife, Leena, for being there with him all the way. He urged the petrophysics community to stay focused on the science in their work and continue to critically assess all ideas and not get caught up in the hype and geopolitics of energy. Ahmed was also one of the three winners of the Best Paper in 2024 in the *Petrophysics* journal for his paper, Nuclear Logging in Geological Probing for a Low-Carbon Energy Future – A New Frontier?, *Petrophysics*, 65(3), 274–301. DOI: 10.30632/PJV65N3-2024a1.¹



Ahmed Badruzzaman with wife, Leena, and Dr. Jennifer Market, Chair of the 2025 Awards Committee.

¹The other two winners were: Rasmus et al., The Fundamental Flaws of the Waxman-Smits and Dual Water Formulations, Attempted Remedies, and New Revelations From Historical Laboratory Complex Conductivity Measurements, *Petrophysics*, 65(1), 5–31. DOI: 10.30632/PJV65N1-2024a; Valstar et al., Importance of Well Integrity Measurements Throughout the CCS Project Life Cycle, *Petrophysics*, 65(6), 896–912. DOI: 10.30632/PJV65N6-2024a4.

Logging Source Replacement: This topic has been on the back burner for some time, but two items have arisen recently. These are:

- (i) **A New Study:** A team of scientists from the Oak Ridge National Lab (ORNL) in the US has been tasked by the US Department of Energy (USDOE) to revisit the topic. The ORNL group has reached out to Ahmed Badruzzaman to supply them with points of contact within the industry on this issue so that they can connect with them directly. This is a follow-up of the study Ahmed led 10 years earlier on the topic under the sponsorship of the US Department of Energy, with input from the industry.² Ahmed will assist the ORNL team in the new study.

Note: Cs-137-based density tools and Am-Be-based neutron porosity tools are critically important to our industry, but they pose security and safety risks. Openhole tools based on machine source of radiation have been tested with some success, especially for spectroscopy, but much more remains to be done for these to be of replacement quality. However, regulators remain anxious, and a premature removal of source-based tools will be problematic.

Some SIG members have already connected with the ORNL, at Ahmed's pointer. Please contact (ahmed.badruzzaman@gmail.com or ahmed.badruzzaman@berkeley.edu) if you want to give input to the ORNL team. They are eager to talk to the industry.

- (ii) **A Special Session on Source Alternatives:** This has been proposed for the 2026 SPWLA Annual Symposium. The Technology Committee is considering it. A meeting is planned with regulators and USDOE scientists following such a session.

Nuclear Logging Student Award: The Nuclear SIG established this award at the 2023 Symposium and funded it through the SPWLA Foundation. The SPWLA VPs of Technology and Education have been approached to facilitate an announcement of it in the Call for Papers for the 2026 Symposium. *We urge all SPWLA members to encourage educational institutions and students they work with to submit papers for consideration for the award.*

Nuclear SIG Organizational Issues. A number of related items are on the table for the SIG. These include (i) a SIG Technical Meeting in October, (ii) a new SIG survey as a follow-up of the 2020/2021 survey, and (iii) volunteers for the SIG Executive Committee.

SAUDI ARABIA CHAPTER

Recent News

7–8 May 2025—SPWLA Saudi Arabia Chapter successfully conducted its 16th Technical Workshop titled “Shaping Sustainability: Exploring and Producing Transition Minerals” at the Kempinski Al Othman Hotel in Al Khobar, Saudi Arabia. Opened by Mr Khalid Zainabedin (director of Reservoir Description & Simulation Department, Saudi Aramco), the two-day event was well attended by more than 120 professionals, academics, researchers, and industry leaders from across the region and internationally. The workshop provided a dynamic platform for discussing the strategic importance of transition minerals in enabling the global energy transition. It featured 14 oral and eight poster presentations, covering a wide range of topics including innovative technologies, case studies, HSE, and field applications relevant to critical mineral exploration and extraction. We extend our sincere appreciation to the technical and organizing committees as well as our sponsors—Exlog, Geolog, GOWell, NESR, TGT, and Weatherford—for their instrumental commitment to fostering innovation and collaboration in the petrophysics community. The event also facilitated active networking, knowledge sharing, and cross-disciplinary dialogue among attendees.

Stay tuned for more engaging future SPWLA Saudi Arabia Chapter events, as we continue to advance technical excellence and industry dialogue in energy and geoscience.



SPWLA SAC 16th Topical Workshop.

² “Scoping Study on Developing Alternatives to Radionuclide-Based Logging Technologies,” LLNL-TR-679101. <https://doi.org/10.2172/1432961>

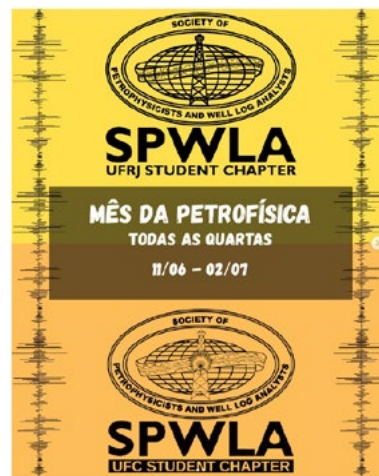
20 May 2025—In the last SPWLA event—the 66th Annual Symposium held in Dubai—our Saudi Arabia Chapter (SAC) board member, Ahmed Hafez, was honored with the Meritorious Service Award, recognizing his outstanding efforts that reflect the spirit of teamwork within the SPWLA Saudi Arabia Chapter (SAC).



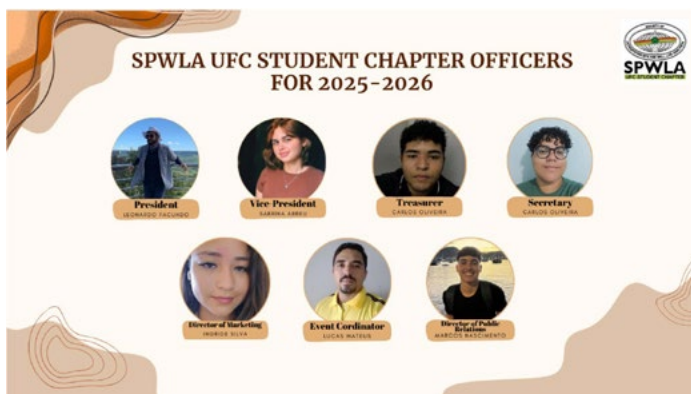
SPWLA Saudi team with Saudi Aramco management.

Recent Events

June 2025—Together with the SPWLA UFRJ Student Chapter, we organized **Petrophysics Month**, a focused series of four lectures covering critical topics such as acoustic image logging and nuclear magnetic resonance. These sessions provided attendees with in-depth knowledge of advanced petrophysical methodologies.



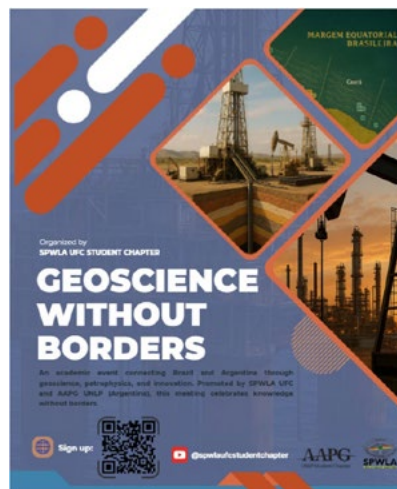
UFC STUDENT CHAPTER — BRAZIL



General News

- During the month of June, calls for applications were held to recruit students from all universities in Brazil’s Northeast region, expanding our membership to welcome diverse participation.
- On August 13, 2025, we officially appointed a new Board of Directors to lead and support the activities of the SPWLA UFC Student Chapter.

July 2025—We proudly hosted **Geoscience Without Borders**, an international week-long event featuring lectures by distinguished professionals across geology and geophysics. With support from the AAPG UNLP Student Chapter, we brought together over 15 speakers, facilitating global knowledge sharing and collaboration.



SPWLA UFC – Social Networks

- LinkedIn:** <https://www.linkedin.com/company/ufc-spwla-student-chapter/>
- Instagram:** <https://www.instagram.com/ufcspwlasoc/>
- YouTube:** <https://www.youtube.com/@spwlaufcstudentchapter>

UNIVERSITY OF HOUSTON STUDENT CHAPTER

General News

The First General Meeting is held early in the term to welcome new members and share the goals of the chapter over the semester and opportunities available for students.

Recent Events

Field trip to Baker Hughes: We had our field trip to Baker Hughes Education Center in Tomball as part of the SPWLA University of Houston Student Chapter field trip. This visit facilitated firsthand exposure to cutting-edge oilfield technology, including a rig tour, logging unit demonstrations, HSE and facility insights, and a lab walkthrough.



Field trip to Baker Hughes Education Center.

Thanks to Mr. Amer Hanif for his guidance throughout the visit, sharing his expertise, and making the experience both educational and engaging!

Student Symposium

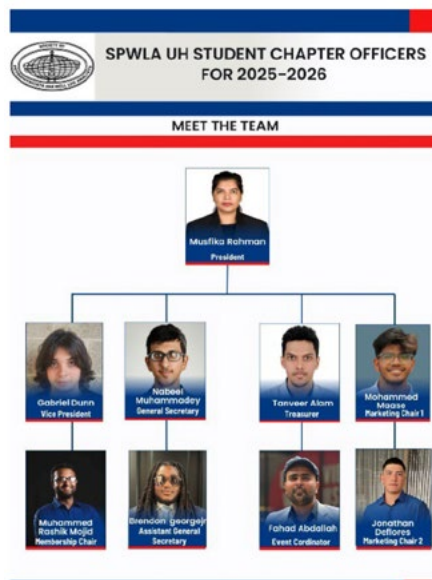
SPWLA University of Houston Student Chapter hosted a Student Symposium, which provided an opportunity for students to learn about the evolving role of petrophysics in driving the energy transition and connect with professionals in the field.



SPWLA-UH Student Chapter Symposium.

Officer Team 2025–2026 Elected

The SPWLA University of Houston Student Chapter held elections for Committee Chairs for 2025–2026. Serving on the board is a great opportunity for students to take an active role in supporting petrophysics and well-log analysis and take petrophysics forward!



UH Student Chapter officers.

Upcoming Events

We plan on arranging a Student Paper Contest to allow students to share their work and get feedback from industry professionals. In addition, we hope to provide a visit to one of the petrophysical labs of an oil and gas firm (SLB last term), which will give students an industry-level lab tour and an opportunity to see how the industry works.

THE UNIVERSITY OF TEXAS AT AUSTIN STUDENT CHAPTER

General News

On behalf of the SPWLA University of Texas at Austin Student Chapter, we are pleased to share updates from June to August 2025. While in August, many students were away for internships, our chapter focused on reorganizing the board for the 2025–2026 academic year.

We are excited to introduce our new faculty advisor, Professor Masa Prodanovic, an expert in digital petrophysics. With this addition, we aim to strengthen our chapter content by vertically integrating petrophysics knowledge from the

pore scale to the core scale and field scale. For the first time, we have included undergraduate representatives on our board to improve accessibility and engagement with the undergraduate community at UT Austin.

Recent Events

August 2025—Our chapter finalized the new SPWLA UT Austin board for the 2025–2026 term. The updated board composition is as follows:

Name	Role
Carlos Torres-Verdin	Faculty Advisor
Masa Prodanovic	Faculty Advisor
Zoya Heidari	Faculty Advisor
Matheos Giakoumi	President
Alejandro Lopez	Vice-President
Mariella El Khoury	Secretary
Dalma Cerro	Treasurer
Jamil El Masry	Public Relations
Pallavi Sahu	Speaker Relations
Feiyue Xia	Design Coordinator
Cinar Turhan	Design Coordinator
Julio Villarrol	Social Media Manager
Shanny Oh	Undergraduate Representative
Nadia Mouedden	Volunteer
David Dadzie	Volunteer
Rafaa Alamoudi	Volunteer
Zainab Abualsaud	Volunteer
Zainab Alshaikh	Volunteer

Carlos Torres-Verdin
Faculty Advisor
Professor at UT Austin.
Hobby: jogging.

Masa Prodanovic
Faculty Advisor
Professor at UT Austin.
Hobby: Hiking, swimming, baking.

Zoya Heidari
Faculty Advisor
Professor at UT Austin.
Hobby: jogging and preparing pastries.

Matheos Giakoumi
President
Graduate research assistant specializing in pore-scale particulate flow in porous/fractured media.
Hobby: Basketball, running, cooking, fermenting kefir.

Alejandro Lopez
Vice-President
Graduate research assistant specializing in advancing formation evaluation techniques for the new energy era.
Hobby: Cooking, running, and playing tennis or pickleball.

Dalma Cerro Arrieta
Treasurer
Graduate research assistant working with electromagnetic measurements, focused on NMR.
Hobby: Read history, foodie, and meet new cities running on their streets.

Mariella El Khoury
Secretary
Graduate research assistant working with electrical measurements to improve water saturation estimation.
Hobby: Cooking, swimming, and learning about health.

Feiyue Xia
Design Coordinator
Graduate research assistant passionate about developing well logging solutions in oil&gas industry.
Hobby: Basketball, Working out, Beerbox.

Julio Villarrol
Social Media Account Manager
Graduate Research Assistant working towards his PhD in Lithium Reservoir Engineering.
Hobby: Plays Rugby for UT Austin, and Austin Huns Rugby Club, dog dad to a Corgi and also ferments kefir.

Jamil El Masry
Public Relations
Graduate research assistant involved in EOR, thermal energy storage, and CCUS.
Hobby: Cooking, working out, and maintaining a healthy lifestyle.

Cinar Turhan
Design Coordinator
Graduate research assistant developing mineralogy and geometric characterization using Dual Energy CT.
Hobby: Reading, traveling.

Pallavi Sahu
Speaker Relations
Graduate research assistant working with multi-scale image data for enhanced formation evaluation.
Hobby: I enjoy cooking and playing Ping-Pong.

Shanny Oh
Undergraduate Representative
Undergraduate research assistant exploring the possibility of using conductive polymer in place of mercury for MICP experiment.
Hobby: playing piano, cooking, trying food places, travel, badminton, historical fiction.

Nadia Mouedden
Volunteer
Graduate research assistant.
Hobby:

David Dadzie
Volunteer
Graduate research assistant reservoir characterization using the Capacitance Resistance Model (CRM).
Hobby: Sim racing.

Rafaa Alamoudi
Volunteer
Undergraduate research assistant working on pore network models (PNMs).
Hobby: Swimming, travelling, photography, arts and crafts, and cycling.

Zainab Abualsaud
Volunteer
Undergraduate research assistant working on pore network models (PNMs).
Hobby: Art, going to museum, calligraphy, photography, traveling, and reading.

Zainab Alshaikh
Volunteer
Undergraduate research assistant working on pore network models (PNMs).
Hobby: Cooking, flower arranging, traveling, photo journaling, and yoga.

Upcoming Events

September 2025—Potluck competition featuring dishes inspired by petrophysics assignments.

Welcome New Members – June 11, 2025–August 15, 2025

Agbanavor, John, Ghana National Petroleum Corp, Tema, Ghana

Ahmad, Ateeq, Shell India Market Pvt Ltd, Rampur, Uttar Pradesh, India

Aljedawi, Raed, DarkVision Technologies Inc., Dammam, Saudi Arabia

Allahverdiyev, Janbulat, BP, BAKU, Azerbaijan

Asaam, William, Ghana National Petroleum Corp., Tema, Ghana

Auchmeb, Karizitus, University of Aberdeen, Grootfontein, Namibia

Augusto Da Silva, Vitor, Universidade Federal Rural Do Rio De Janeiro, Itaguaí, Rio de Janeiro, Brazil

Barboza, Luísa, UFRRJ, Rio De Janeiro, Brazil

Bruscagin, Gian Lucca, Federal Rural University of Rio De Janeiro, Duque De Caxias, Brazil

Burks, Christopher, Core Labs, Houston, TX, United States

Cardola, Paola, ENI, San Donato Milanese, Milano, Italy

Carter, Jake, University of Tennessee, Oak Ridge, TN, United States

Chang, Jiahui, Southwest Petroleum University, Chengdu, China

Climent, Helene, Weatherford, Houston, TX, United States

Cronin, Louis, Imperial College London, Wells, Somerset, United Kingdom

Da Silva, Gabrielly, Universidade Federal Rural Do Rio De Janeiro, Rio De Janeiro, Brazil

Danicic, Lobel, Math2Market GmbH, Kaiserslautern, Germany

Davis, Doug, Davis Geological Services, Pearland, TX, United States

Davor, Thomas, Ghana National Petroleum Corp, Tema, Ghana

De Almeida, Bernardo, Universidade Federal Rural Do Rio De Janeiro, Niteroi, Rio de Janeiro, Brazil

Enger, Amberlee, University of Houston, Houston, TX, United States

Faathir, Muhammad, SPWLA Universitas Pertamina Student Chapter, Bekasi, Indonesia

Fazulullah, Saad, Shell, Vellore, India

Gouda, Adarsh, SLB, Fulshear, TX, United States

Gumaraes, Suze, Federal Rural University of Rio De Janeiro, Rio De Janeiro, Brazil

Gundersen, Sven S., AkerBP, Stavanger, Norway

Ke, Chien-Chung, Sinotech Engineering Consultants, Inc., Taipei City, Taiwan

Ku, Yueh Ping, Opicoil, Houston, TX, United States

Lapani, Krutik, Shell, Surat City, India

Li, Yong, SouthWest Petroleum University, Chengdu, China

Li, Huina, Surge Energy, Houston, TX, United States

Liang, JiaYin, Southwest Petroleum University, Chengdu, China

Lifasi, Ambicious, UGES, Windhoek, Namibia, Namibia

Maciel, Karen, Universidade Federal Rural Do Rio De Janeiro, Seropédica, Rio de Janeiro, Brazil

Mahachi, Mudiwa, Student, Musina, Limpopo, South Africa

Mochia, Bernard, Ghana National Petroleum Corp, Tema, Ghana

Murad, Ehsan, TGT Diagnostics, Al Khobar, Eastern Province, Saudi Arabia

Nagarajan, Muthazhaki, Shell Centre Chennai, Chennai, India

Panetto, Liliane, UFRURALRJ, Seropédica, Brazil

Petchdee, Patcharaporn, PTTEP, Bangkok, Thailand

Porath, Felipe, Universidade Federal Rural Do Rio De Janeiro, Copacabana, Rio de Janeiro, Brazil

Raghoenath, Vinita, Staatsolie Maatschappij Suriname, Paramari, Suriname

Ribeiro Lima Gabry, Ana Karoline, Universidade Federal Rural Do Rio De Janeiro, Rio de Janeiro, Brazil

Ruzieqna, Fiha, Petrostrat Limited, Bangor, Gwynedd, United Kingdom

Silva, Bianca, Universidade Federal Rural Do Rio De Janeiro, Seropédica, Brazil

Singha Roy, Satadal, Shell India Markets Private Limited, Chennai, India

Sitinjak, Eri, Baker Hughes, East Ahmadi, Kuwait

Sorathiya, Kapil, Shell, Junagadh, India

Totlani, Komal, Shell, Chennai, India

Vilela, Enry, UFRRJ, Rio De Janeiro, Brazil

Wan, Tianhao, Southwest Petroleum University, ChengDu, China

Wang, Ze, GOWell International, Houston, TX, United States

Xiao, Hong, Southwest Petroleum University, Chengdu, China

Zeng, Yunxin, Southwest Petroleum University, Chengdu, China

