



# spwla today



NEWSLETTER

# Did you know?

Scotland is the birthplace of many world-changing creations, such as the television.



Do you know what else was created in Scotland?



Interactive  
Petrophysics

Created in Scotland, changing  
the world of petrophysics forever.



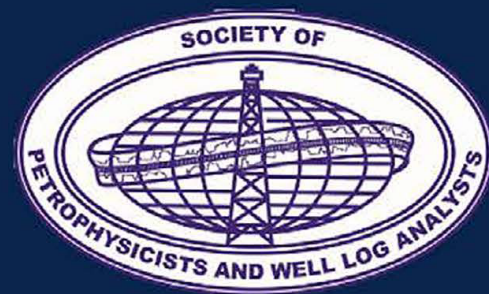
# *Petrophysics Journal*

# PAPERS

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



MORE  
INFORMATION  
ON SPWLA.ORG



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# NMR Applications for Carbon Storage

GeoSpec

Improve  
confidence in  
carbon storage  
predictions

Capillary  
Force  
Trapping

Porosity

CO<sub>2</sub>  
Relative  
Permeability

Real-Time  
Core  
Flooding

Pore Size  
Distributions

Fluid  
Displacement

CO<sub>2</sub>  
Fluid-Rock  
Reactions

Fluid  
Migration

CO<sub>2</sub>  
Wettability

Capillary  
Pressure

Investigate  
suitability of  
rock structures  
for carbon  
storage



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Green Imaging

OXFORD  
INSTRUMENTS

The Society of Petrophysicists and Well Log Analysts  
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2024–2025



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REGIONAL DIRECTORS  
2024–2025



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CALENDAR OF EVENTS

**September 3–5, 2024**

*Reservoir Fluid Geodynamics (RFG) and Reservoir Evaluation*  
Dr. Oliver C. Mullins – Instructor-Led Course  
Webinar – Online  
[www.spwla.org](http://www.spwla.org)

**September 9–11, 2024**

*2024 Topical Conference SPWLA East China Chapter*  
Hangzhou, China  
[www.spwla.org](http://www.spwla.org)

**September 12–13, 2024**

*The 29th Formation Evaluation Symposium of Japan*  
JOGMEC-TRC  
Chiba, Japan  
[www.spwla-jfes.org](http://www.spwla-jfes.org)

**September 19, 2024**

*SPWLA Formation Testing SIG 2024 Conference*  
Houston, TX, USA  
[www.spwla.org](http://www.spwla.org)

**October 6–10, 2024**

*SPWLA - Asia Pacific Regional Conference*  
Theme: "Traditional and Transitional Petrophysics—  
Enhancing and Integrating Petrophysics Into the  
Challenges of Today and Tomorrow"  
Bangkok, Thailand  
[www.spwla.org](http://www.spwla.org)

**May 17–21, 2025**

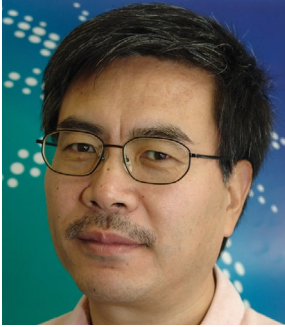
*SPWLA 66th Annual Symposium*  
Dubai, UAE  
[www.spwla.org](http://www.spwla.org)

About the Cover

Save the date for the SPWLA 66th Annual Symposium to be held in Dubai, UAE on May 17–21, 2025! Abstracts are currently being accepted.

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

## From the Chief Editor



**S. Mark Ma**  
2024–2026  
Vice President Publications

Dear SPWLA community,

It is almost the end of the summer/winter, and I hope you all have had nice summer/winter breaks! With the August 2024 issue of *Petrophysics* having published last month, I trust you have caught up on the latest developments in mud logging for efficient drilling operations, enhanced geological descriptions, and the use of mud gas for exploration and field development. Additionally, the cover picture from Equinor and APT is not only beautiful, but, more importantly, innovative, illustrating a technique that is capable for crude oil typing from mud logging. As they say, today's technology breakthrough was yesterday's impossible!

To help you better grasp technology developments at a glance, a sponsored New Technology Column (NTC) was launched in the August 2024 issue, where featured technologies are highlighted with brief descriptions of how the technology works and the results or outcomes of the new technology. It is believed that when we understand how a technology works, we tend to test it and deploy it fit for purpose in our operations—a win for SPWLA's mission of knowledge sharing and dissemination and also a win for technology developers that their innovative technologies are promoted effectively.

There are two NTC articles highlighted in the August 2024 issue of *Petrophysics*: one is "Maximizing Reservoir Fluid Insights From Mud Gas and Drill Cuttings" from Equinor, and the other is "AdriTech Non-Stop Drilling Technologies: Continuous Circulation System All the Way to TD" from Geolog International and AdriTech. Please check them out. They can be downloaded free from [spwla.org](http://spwla.org).

At the same time, look out for the October issue of *Petrophysics* to be published next month.

Best wishes,  
S. Mark Ma  
VP Publications





**Robert H (Bob) Gales**  
**2024–2025**  
**President-Elect**

It was great to see many of you at the Rio Symposium, and I look forward to seeing you at the SPWLA 66th Annual Symposium in Dubai next May. Harry Xie, VP Technology, and Robin Slocombe, VP Technology-Elect, have the planning well underway for the 66th Annual Symposium. Abstracts are open, so submit your abstracts. Let's beat last year's 417!

I finished my duties as VP Technology by compiling all the reviews and providing the "Best of Symposium" Paper and Poster. Congratulations to:

**Best Oral Presentation:** Giuseppe Galli, Eni, S.p.A., "From Leak Path Detection to Quantitative Flow Profiling: The Exciting Journey of the Noise" for Best Oral Presentation

**Best Poster Presentation:** Allen Britten, Core Laboratories, "An Image-Based Artificial Intelligence Approach for the Determination of Analog Petrophysical Rock Properties From Drill Cuttings."

As with selecting abstracts, it was very competitive for the Best Presentation and Poster. (For consistency and transparency, we have used the same evaluation format for the past 3 years. We look forward to building on the online rating rolled out this year to speed up the process.) The top 12 papers and 2 posters will be published in the December *Petrophysics*. Congratulations to all the authors.

One of the responsibilities of the President-Elect is to engage with the SPWLA Special Interest Groups (SIGs) and be their voice on the board. SPWLA was the first society to adopt SIGs, and they have become a vital part of our organization, focusing on specific areas of interest. They conduct focused workshops and topical conferences. I will conduct routine meetings with the SIGs to determine how we can better leverage their knowledge with the broader SPWLA community.

Another task I have been asked to work on with the Regional Directors is how do we encourage membership and continue the growth of student chapters. I look forward to working with the directors and chapters, sharing ideas on what has been successful and how we can leverage the society to help their societies.

All this would not be possible without the commitment of our members, the Board, Sharon, and Stephanie. Thank you for a successful 65th Annual Symposium. I look forward to working with the SIGs and chapters supporting your board's initiatives over the next year and visiting with you in Dubai.

Regards,  
Robert H (Bob) Gales  
SPWLA President-Elect



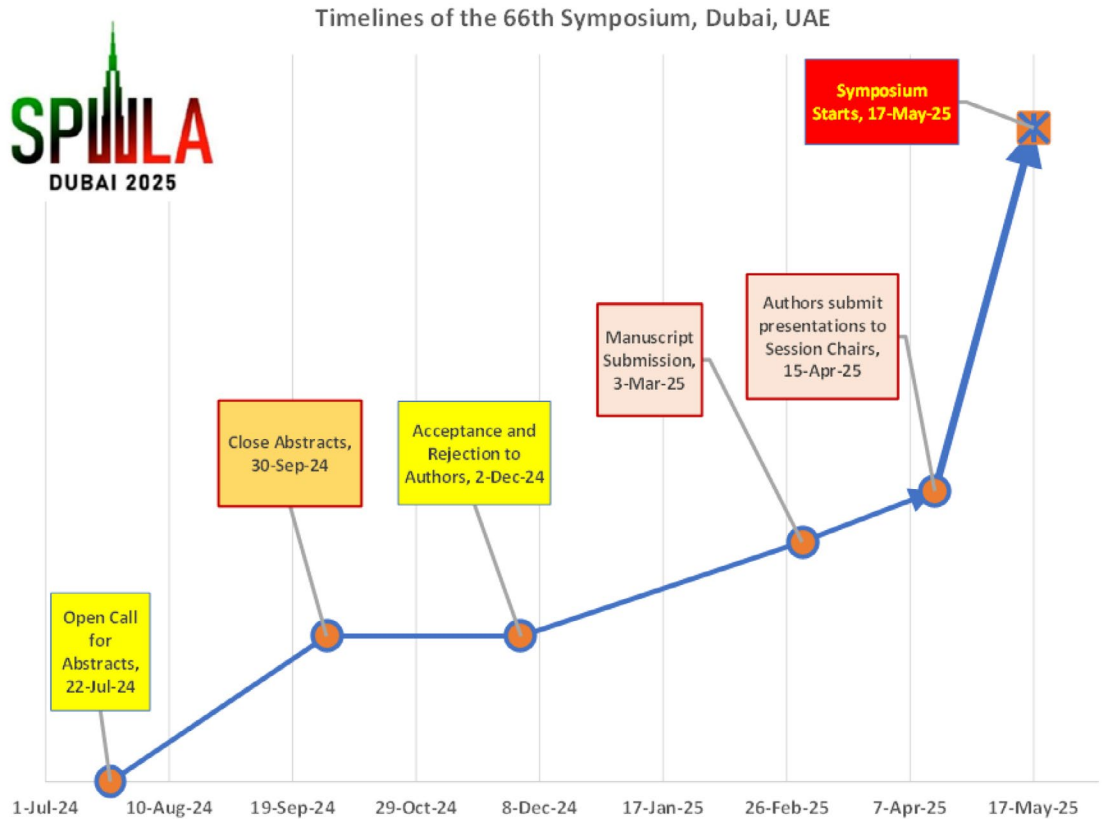
**Robin Slocombe**  
2024–2025 VP  
Technology-Elect



**Harry Xie**  
2024–2025 Vice President  
Technology

While you read this, your competitors are preparing their abstracts (so I'll keep it brief)! The deadline for submission to the 2025 symposium is Monday, 30 September 2024, Midnight (Central Time; GMT-6:00)

Thanks in advance to the Technical Committee members whose job it will be to review and select the final presenters. The submission and review timeline is shown below. As you can see, it is tight, so there is no time for extensions. Please get your abstract in as soon as possible.



And remember, the submission requires the attachment of a graphical representation from the work. You cannot upload without it.

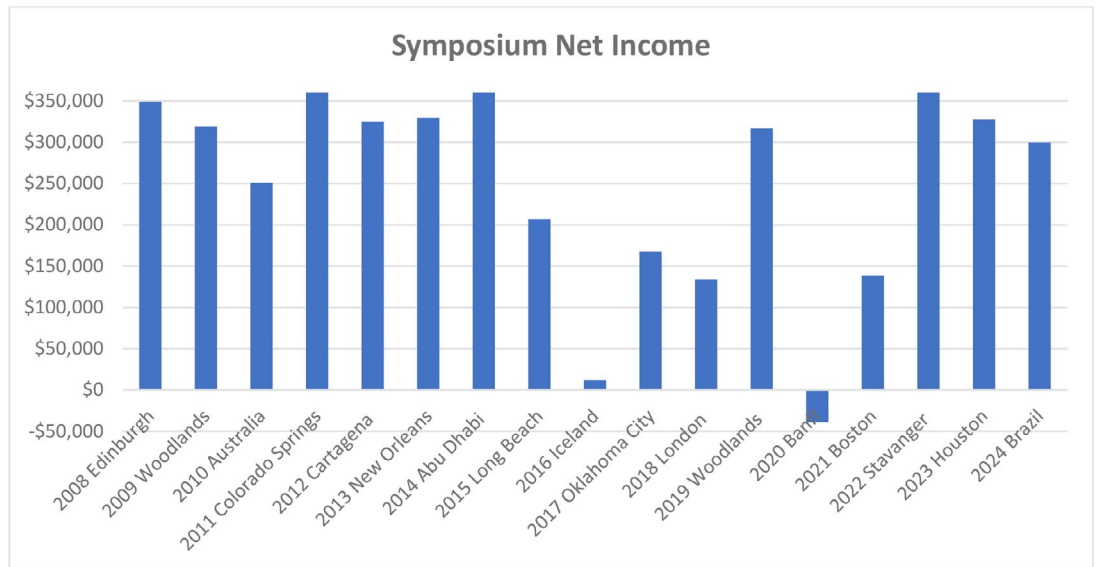
Best regards,  
Robin Slocombe and Harry Xie  
VP-Technology Elect and VP-Technology



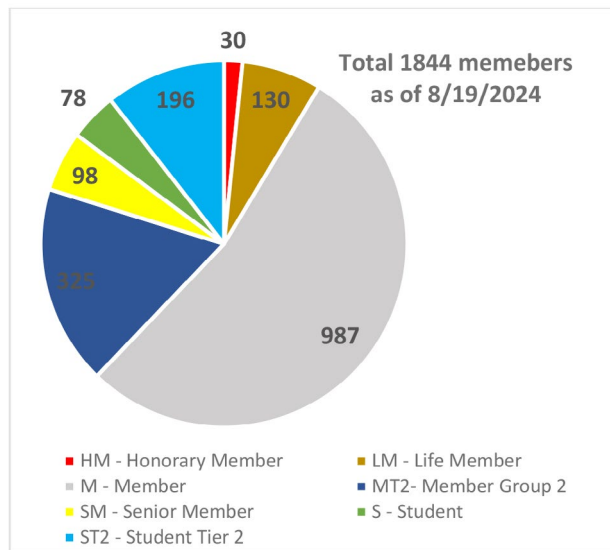
**Jing Li**  
2023–2025 VP Finance,  
Secretary, and  
Administration

Dear SPWLA colleagues,

First, I would like to provide an overview of the finances of the 2024 Annual Symposium. The financial status of the SPWLA is showing steady and healthy growth. For the 2024 Annual Symposium, there were 489 attendees, generating a total income of \$658,154.40. The total expense for the event was \$358,693, which translates to \$733.5 per attendee. This resulted in a net income of \$299,461.40. The bar chart shows the symposium’s net income since 2008.



As of August 19, 2024, 35 copies of printed *Petrophysics* journals had been sold, and the society had 1,844 members. Below are the percentages for different member categories.

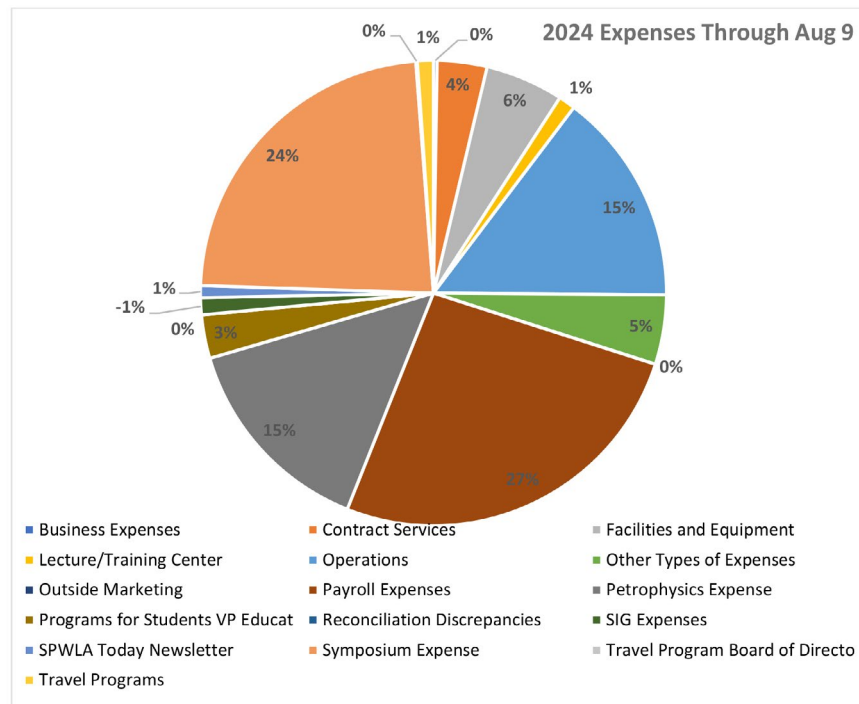
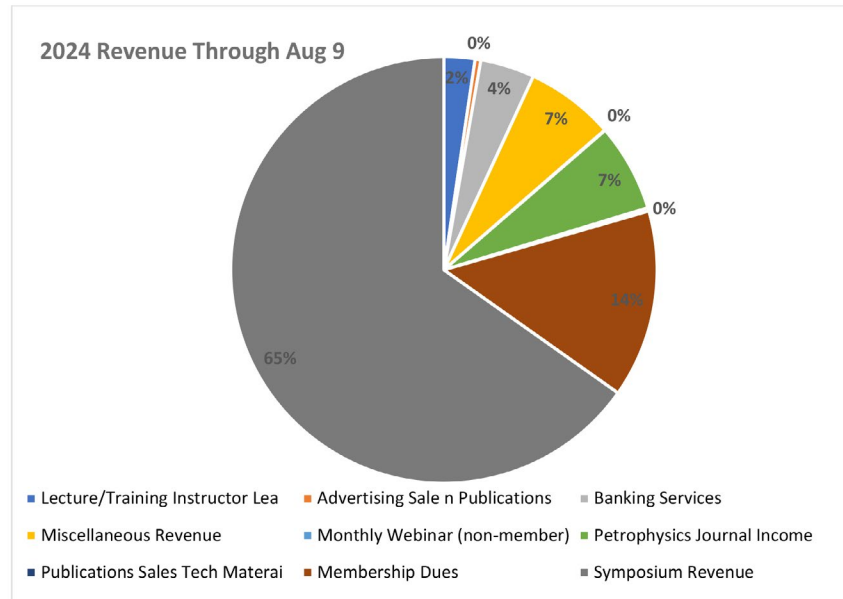


We have finalized the budget for 2024–2025, which is approximately 10% higher than previous years, mainly due to the potential increased expense in publications and IT. The actual spending remained about 82% of the budget for the past 2 years. We aim to continue this trend for the upcoming year.



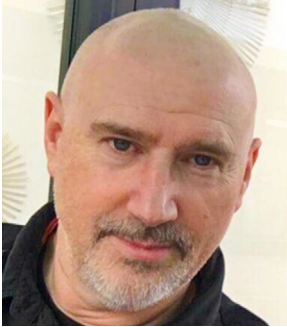
# Financial Times

Below are the pie charts in percentages showing the percentages of revenue and expenses for 2024 through August 9. The total revenue and expenses are reasonable, and the net profit remains healthy.



We encourage everyone to continue supporting our various workshops, tropical conferences, annual symposiums, and other SPWLA initiatives. If you have ideas for new sources of revenue for the society, please feel free to share your thoughts. Thank you for your ongoing support.

Sincerely,  
 Jing Li  
 VP Finance, Secretary, and Administration



**Tegwyn JP Perkins**  
2024–2025 VP Information  
Technology

If you're interested in joining the IT Committee, please keep reading until the end of this article...

Have you visited the new website? As of now, we're in the soft launch phase. The site is live, but we haven't officially announced it since we're updating old content and adding new features. The upgrade was necessary because the previous site was built on outdated technology, making it increasingly difficult to maintain.

Special thanks to Stephanie and Sharon for their diligent work in validating every page. In other news, the SPWLA board has approved the purchase of a new abstract submission software called OpenWater. Unlike our current system, this one will be integrated into our main website, and the best part is that it supports Single Sign-On (SSO), so no more juggling multiple login credentials.

Unfortunately, this new system won't be ready in time for the Call for Abstracts for Dubai 2025. It requires significant customization and testing, so we'll be sticking with our current system for now. Hopefully, 2025 will be the last time we need to use a separate website for symposium abstract submissions.

The new software also has robust form-building capabilities, and we plan to use it to replace several forms on our secondary site (like the Award Nomination and Scholarship and Grants forms). However, how quickly this happens will depend on you. Migrating these forms will be a significant effort—last year, converting the Scholarship and Grants forms from paper to digital took me several weeks.

We're looking for a few tech-savvy members who are passionate about contributing to SPWLA's success by joining the IT Committee. You'll assist in maintaining and developing the site, including building forms, updating content, and creating new components like subdomains for specific features such as SIG groups, chapters, or events.

If you're interested, please reach out to me. Members with experience in iMIS or OpenWater would be ideal, but anyone with an understanding of website management would be appreciated.

Dr. Tegwyn JP Perkins  
SPWLA 64th President  
2024–2025 VP Information Technology  
vp-infotech@spwla.org



**Chelsea Newgord**  
2023–2025  
VP Communications

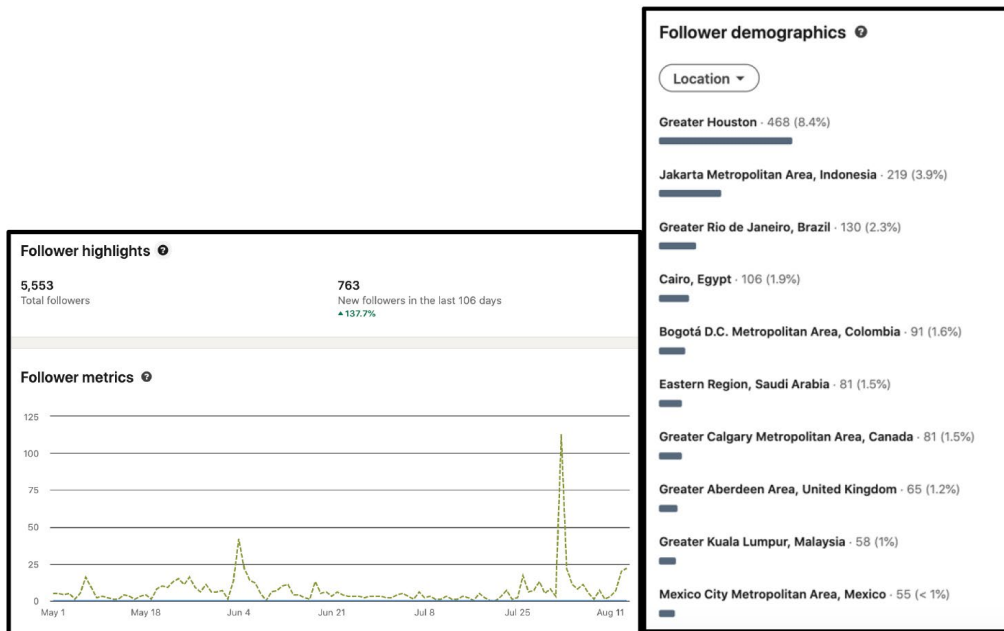
Hello SPWLA colleagues,

In the last few months, we wrapped up the 65th Annual Symposium and are now preparing for the 66th Annual Symposium in Dubai. Information on the symposium, abstracts, registration, and more will be shared through email, the website, and social media posts.

Follow the LinkedIn, Facebook, Instagram, and X accounts for the upcoming 2024–2025 Distinguished Speakers, webinars, trainings, SIG events, regional symposiums, and other events.

We recently had **Ildus Islamgulov** volunteer to help me create posts! I’m excited to have someone help out and share their designs. There is room for another volunteer or two. If you are interested in making digital content to publish and share, reach out to me.

Be sure to connect with SPWLA Social Media on LinkedIn and also follow the Society of Petrophysicists and Well Log Analysts on LinkedIn. Did you know we have over 5,000 followers on this page? Since the previous symposium, we’ve had an additional 700+ followers. The majority are from Houston, with a growing presence in SE Asia and Brazil.



SPWLA LinkedIn page follower metrics and their location from May until mid-August 2024.

~Chelsea Newgord  
VP Communications  
[VP-Communications@spwla.org](mailto:VP-Communications@spwla.org)





# Regional Understandings–Latin America



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

Dear SPLWA members,

I wanted to share with all the SPWLA members the experience of getting closer to the different chapters of the Latin American region, both professional and student chapters. I met one by one with the presidents and boards of Argentina, Colombia, and Brazil to catch up with their news and understand their needs.

In the case of the Argentina Professional Chapter, I am very happy about the great effort that was made to return to the in-person Formation Evaluation Workshops. The latest one occurred on August 15 in the Jacarandá Room of the YPF building of Puerto Madero, Buenos Aires City. The topics developed by the speakers were AI and petrophysics, new energies, and unconventional reservoirs. It was a challenging experience, and more than 60 in-person attendees were present. The workshop lasted half a day, and the event had the sponsorship of Panamerican Energy, who

provided us with the coffee break, and YPF, who provided the room and logistical stuff.

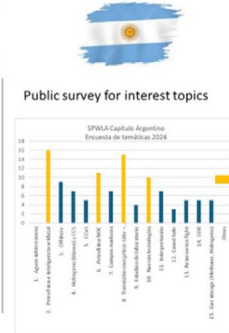
On the other hand, the Argentina Student Chapter organized a series of virtual talks, including geomechanics, borehole images, CO<sub>2</sub> reservoirs, and other topics of interest for the community, which took place virtually during August. The students are very committed to these training and informational activities.

The Argentina Student Chapter board also plans to participate in the AOG (Argentina Oil and Gas) Patagonia next October. The SPWLA Education division has sponsored them, and they will use this financial assistance to purchase air tickets to Neuquén City, where they will participate in talks and different activities dedicated to young professionals in the industry.



New Local board members, updated 30th April 2024

FUNCTION	NAME	COMPANY
President	Adna Vasconcelos	SLB
Secretary	M. Lorena Cavaglia	Pan American Energy
Technology	Marta D'Angiola	Weatherford Arg.
	M. Lorena Cavaglia	Pan American Energy
	Diana Massiero	YPF Tecnología
	Carolina Juan Suardano	Practia Global
	Pablo Aica	SLB
Events	Jorge de los Rios	LINCOMA
	Nicolás Carrizo	YPF S.A.
	Paola Debatista	YPF S.A.
Media	Camila Juan Suardano	Consultant
	Marta D'Angiola	Weatherford Arg.
	Fabiola Bodan	CGC S.A.
	Luciana Salsali	CAPSA
Education	Fabiola Bodan	CGC S.A.
	Jorge Barboza	YPF S.A.
	Paola Debatista	YPF S.A.
	Belen Palacio	YPF S.A.



Public survey for interest topics



- IG Live interviews
  - Mr. Carlos Ollier, one of the founders of the first professional chapter in Argentina
  - Mr. Mario Schiumma, Sr petrophysics

Student chapter social network

Upcoming events

- Talk Victoria Ferreyra (SLB) about Promote the development of women's professional careers
- Talk of José Sales (SLB) about Microseismic
- Talk of Marta D'Angiola (WFT) about Interpretation of borehole images
- Challenge for October: To be present in the AOG Patagonian (Neuquén, attending YOP activities!!!)
- Visits SLB base and Hal base in Neuquen

Recent Events

Constructive skills and perspectives for the professional world

The Brazil Professional Chapter actively participated in organizing the SPWLA 65th Annual Symposium in Rio de Janeiro. Adna Vasconcelos leads the actual local board of directors, and the rest of the names are summarized in the table below.

In addition, the Student Chapter of Ceará, in Brazil (UFC), was created in July. Its members are eager to begin their official activities. The other UFRJ Student Chapter, based in Rio de Janeiro, promotes and advertises via monthly posting on their social networks to increase their visibility. They also adopted a new system or selective process to encourage the growth of their community, hoping to enroll more and more students as members. This chapter organized a Petrophysics

Function	Responsible party		
	Name	email	company
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Vice-president	Pedro Lifter	<a href="mailto:pedrolifterrodrigues_prandi@halliburton.com">pedrolifterrodrigues_prandi@halliburton.com</a>	Halliburton
Secretary	David Xavier	<a href="mailto:dx@equinor.com">dx@equinor.com</a>	Equinor
Treasurer	Lucas Blanes	<a href="mailto:lucas.oliveira@petrobras.com.br">lucas.oliveira@petrobras.com.br</a>	Petrobras
Communications	Leonardo Gonçalves	<a href="mailto:leonardo.g@petrobras.com">leonardo.g@petrobras.com</a>	Petrobras
External relationships	Pablo Moreira	<a href="mailto:pmoreira@geologix.com">pmoreira@geologix.com</a>	Geologix



# Regional Understandings–Latin America

School led by Luis Rojas, senior petrophysicist (Eneva). This event occurred in person on August 25 at the University Federative of Rio de Janeiro.

The Colombia Professional Chapter has been led by María Florencia Segovia since 2023. They are in the process of transitioning to a new board of directors. They recently organized an in-person event about white hydrogen held at the University of America in Bogotá. The talk was presented by Cesar Patiño (Ecopetrol).

Regarding Colombia student chapters, new contacts are being made with the student chapters in that area. The UIS Student Chapter, which is super active as always, showed me several activities planned for its members. We are also in contact with the SPWLA IUSCO Student Chapter, and I will inform you of the news and needs shortly.

**Board members:**

- President: Vittor Cambria
- Vice president: Renan Camillo
- Treasurer: Marina Alfradique
- Secretary: Gabriel Ferraz
- Professor Advisor: Jorge Pican

**Executive members:**

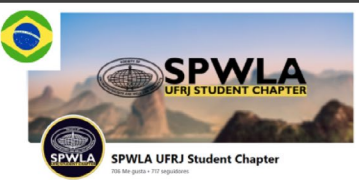
- Rodrigo Azambuja
- Iago da Costa
- Sarah Alessi

**Marketing members:**

- Gabriel Ferraz
- Luis Henrique Tranon
- Marina Alfradique

**Logistic members:**

- Alexandre Nobre
- Guilherme Lontra



- Promote and publicize the student chapter posting monthly on the Instagram page to increase visibility
- Open our selective process to make our team grow even more, waiting for new students to enroll



Upcoming Events:

Event	April	May	June	July
Change of treasury position				
Update post of Instagram page				
Selective process				
Webinar tria - External member				
Patrol mini-course				
Preparation of the student chapter for new students				

■ Stage completed  
■ Stage in process  
■ Future stage

**NEEDS: Petrophysics training**


**Board of Directors**

Membro	Cargo SPWLA	Empresa
María Florencia Segovia	President	Ecopetrol
Uriana Bustos	Vicepresident	Schlumberger
Daniela Córdoba	Secretary	Halliburton
Maria Isabel Sandoval	Treasurer	UIS
Malka Gamba Ordaz	Vocal1	UIS
Victoria Mosalini	Vocal2	UIS

In short, upcoming transition of the Board of Directors

Recent events

- "WHITE HYDROGEN; A VALUABLE GEOLOGICAL RESOURCE FOR ENERGY TRANSITION" by our speaker César Patiño from Ecopetrol. The event was held at the University of America in Bogotá Colombia.




[LinkedIn:](https://www.linkedin.com/company/spwla-uis-student-chapter/)  
[Instagram:](https://www.instagram.com/spwlauis/7h1ies-la)  
[YouTube:](https://www.youtube.com/c/SPWLAUIS)  
[Facebook:](https://en-la.facebook.com/SPWLAUIS/)  
[SPWLA UIS official page](https://en-la.facebook.com/SPWLAUIS/)  
<https://sites.google.com/view/spwlauis/inicio>

**NEWS:**

- Member of the SPWLA UIS student chapter wins first place in the international Student paper Contest
- Student Oil Newspaper
- SPWLA UIS 2024 Petrophysics Week (May 06 – 09)





Upcoming events:

- Laminated Shaly Sand Analysis
- Facimage, cluster analysis and log prediction
- Saturation Height Modeling
- Quantitative Image and Texture Analysis
- Uncertainty Analysis

For Specialized Groups

- NMR processing and interpretation
- Full Waveform Sonic
- PPP and Geomechanics workflows



**Board of Directors**

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- Vice president: Julian David Anaya F. - Email: [vicepresidencia.spwlaui@gmail.com](mailto:vicepresidencia.spwlaui@gmail.com)
- Fiscal: Stefany Gabriela Peñaranda G. - Email: [fiscal.spwlaui@gmail.com](mailto:fiscal.spwlaui@gmail.com)
- Secretary: Anny Daniela Román O. - Email: [secretaria.spwlaui@gmail.com](mailto:secretaria.spwlaui@gmail.com)
- Treasurer: Lizeth Vanessa Blanco D. - Email: [contador.spwlaui@gmail.com](mailto:contador.spwlaui@gmail.com)

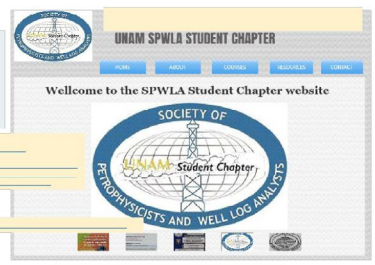

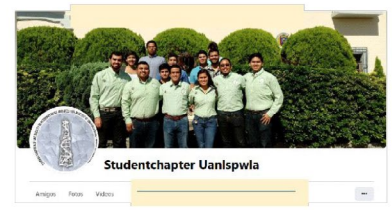
Finally, I am trying to contact inactive student chapters. UNAM Student Chapter MX – Universidad Nacional Autónoma de México (last post 2017); IPN Student Chapter – Instituto Politécnico Nacional de México (last post 2019; contacted by email); UANL Student Chapter (Universidad Autónoma de Nuevo León, MX (last post 2017), and SPWLA UNI Student Chapter <https://www.linkedin.com/in/spwlaunisc/> (Perú). Unfortunately, this task is quite difficult for two reasons. On the one hand, if no professional chapter in these countries acts as a reference, students graduate and leave the school, losing interest in supporting and participating in the respective student chapter. So, as an enormous challenge, it is to try first to create or activate the corresponding professional chapters in the mentioned countries.

I hope this update on the status of the different chapters of our beloved Latin America has interested you. And that all the rest of the world can enjoy our activities and news that may be useful to the rest of the SPWLA community. I'll wait for you in the next column!

Regards!  
 Marta D'Angiola  
 LAM Regional Director

**Mexico:**

- UNAM Student Chapter
- IPN Student Chapter
- Universidad Autónoma de Nuevo León (UANL)



**Yuki Maehara**  
2023–2025 Asia Pacific  
Regional Director

Dear SPWLA members,

As the warm summer sun graced us with its presence, I extend my heartfelt greetings to each of you. It is an honor to connect with our vibrant community across the Asia Pacific region during this splendid season. Summer was a time of growth and renewal, perfectly mirroring some exciting developments within our society.

I am delighted to share that we are making significant strides in expanding our reach and fostering a deeper sense of community. One of our primary goals this year has been to establish new chapters and student chapters throughout the Asia Pacific region. These new chapters will serve as vital platforms for professional development, knowledge sharing, and collaborative innovation. We aim to create thriving hubs of excellence in petrophysics and well-log analysis by bringing together industry experts, academics, and young professionals. Furthermore, we are placing a strong emphasis on nurturing the next generation of petrophysicists by encouraging the formation of student chapters at universities and academic institutions. These student chapters will provide invaluable opportunities for aspiring professionals to engage with industry leaders,

participate in technical training, and contribute to cutting-edge research.

Our efforts have already borne fruit, with the recent establishment of the Vietnam Chapter, which stands as a testament to our collective dedication and hard work (see more info in the Announcements section of this newsletter). We are currently working on launching additional chapters for both students and professionals in other key locations, such as China, India, and Taiwan. Hopefully, I can make another announcement about a new chapter in the next *SPWLA Today*.

As we continue to grow and evolve, I urge each of you to actively participate in our initiatives and support the creation of new chapters. Your involvement is crucial to our success, and together, we can achieve remarkable milestones. I hope you had a productive and enjoyable summer. If anything, please feel free to reach out to me.

Warm regards,

Yuki Maehara  
Asia Pacific Regional Director  
[Director-Asiapacific@spwla.org](mailto:Director-Asiapacific@spwla.org)

### Upcoming Events in Asia-Pacific

Event	Location	Date
<a href="#">2024 Topical Conference SPWLA East China Chapter</a>	Hangzhou	9–11 September, 2024
<a href="#">The 29th Formation Evaluation Symposium of Japan</a>	Chiba	12–13 September, 2024
<a href="#">Asia Pacific Regional Conf 2024</a>	Bangkok	6–9 October, 2024
<a href="#">FESM Topical Conference 2024</a>	Kuala Lumpur	12 November, 2024



September 2024

2024 Steering  
Committee

Editors

Ishank Gupta

Issa Haddad

Javier Miranda

Clara Palencia

Senior Editor

Nelson Suarez Arcano

SPWLAYP@SPWLA.ORG

In this edition:

SPWLA Paper of  
the Quarter Series

## SPWLA Paper of the Quarter Series

The SPWLA Paper 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](mailto:SPWLAYP@spwla.org).

**Title:** Reservoir Fluid Typing From Standard Mud Gas – A Machine-Learning Approach

**Authors:** Alexandra Cely, Artur Siedlecki, Cuthbert Shang Wui Ng, Artur Liashenko, Sandrine Donnadieu, and Tao Wang

**Summary:** The paper presents a novel method for predicting reservoir fluid types (oil or gas) using standard mud gas data combined with machine-learning techniques. This approach is significant because it leverages data that are readily available during drilling but have traditionally been underutilized due to their low prediction accuracy.

### Key Points:

#### 1. Background:

- Traditionally, reservoir fluid typing during drilling is done using logging-while-drilling (LWD) tools, which can be expensive and complex.
- Standard mud gas data, although widely available, have not been used effectively for fluid typing due to its poor accuracy.

#### 2. Methodology:

- The authors developed a machine-learning model that improves the accuracy of fluid typing from standard mud gas data from 50 to 60% to around 80%.
- The model incorporates methane, ethane, and propane gas compositions, petrophysical logs, and a large reservoir fluid database. Geospatial data from nearby wells also significantly enhance prediction accuracy. Figure 1 shows the correlation of  $C_1/C_2$  with the gas-oil ratio (GOR). Typically, higher GOR is correlated to lighter fluid compositions. Machine learning can effectively leverage such relationships between different mud gas components to accurately identify reservoir fluid type.
- The model uses random forest as its primary algorithm, which was found to perform better than other machine-learning models tested.

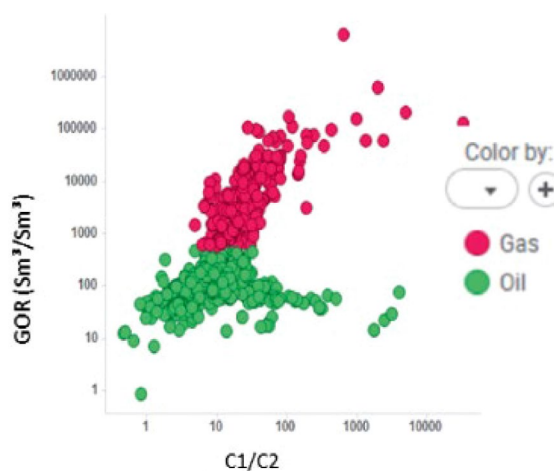


Fig. 1—GOR vs.  $C_1/C_2$ .



**3. Data Handling:**

- The input data include standard mud gas, petrophysical logs, and reservoir fluid data from Norwegian wells drilled with water-based muds (WBM).
- A large data set from 557 wells was used, and the data were split temporally into training, validation, and test sets to simulate real-world scenarios and avoid data leakage.

**4. Results:**

- The random forest model showed high accuracy and AUC (area under the curve) scores, indicating robust performance.
- The model was particularly successful in predicting the oil class, though its performance was slightly less for gas.

**5. Conclusions:**

- This machine-learning approach provides a significant improvement in real-time fluid typing during drilling, which can enhance decision making related to well placement, completion, and other critical operations.
- While effective in areas with existing well data, the approach is less applicable in frontier exploration regions with limited data.

The study highlights how integrating machine learning with traditional data sources can unlock new capabilities in reservoir management, providing more accurate and timely information for decision making during drilling operations.

# 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](mailto:SPWLAYP@spwla.org).

**SPWLA FIRST BOARD OF DIRECTORS MEETING**  
**REMOTE**  
**July 12, 2024**

President Iulian Hulea called the meeting to order at 7:04 am CST. In attendance, President-Elect, Robert “Bob” Gales, Vice President Education, Matt Blyth, Vice President Finance, Secretary, and Admin, Jing Li, Vice President Communications, Chelsea Newgord, Vice President Technology, Harry Xie, Regional Director Middle East/Africa, Elsa Maalouf, Regional Director N. America 2, Clara Palencia, Regional Director Asia Pacific/Australia, Yuki Maehara, Vice President, Publications, S. Mark Ma, Vice President Information Technology, Tegwyn Perkins, Regional Director Latin America, Marta D’Angiola, and Executive Director, Sharon Johnson.

Absent: Vice President Technology-Elect, Robin Slocombe, Regional Director Europe, Mathias Horstmann, Regional Director N. America 1, James Hawkins.

**A motion made by** Regional Director N. America 2, Clara Palencia, to waive the reading of the minutes from the June E-BOD meeting was seconded by Vice President Technology, Harry Xie. This motion passed by majority vote.

**A motion made by** President-Elect, Robert “Bob” Gales, to accept the 2024–25 annual budget, as presented to the board by Vice President Finance, Secretary and Admin, Jing Li, was seconded by President Information Technology, Tegwyn Perkins. This motion passed by majority vote.

**A motion made by** Regional Director Latin America, Marta D’Angiola, to accept the UFC SPWLA Student Chapter Bylaws, Universidade Federal Do Ceara Brazil, was seconded by Vice President Communications, Chelsea Newgord. This motion passed by majority vote.

**Action Item:** Executive Director, Sharon Johnson, to send Vice President Communications, Chelsea Newgord, an outlined description of the New Technology Column Articles.

**Action Item:** Vice President Communications, Chelsea Newgord, to create a flyer for the New Technology Column Articles to use for marketing.

**Action Item:** President Iulian Hulea to reach out to Michael O’Keefe for clarity on the heritage program.

**A motion made by** Vice President Technology, Harry Xie, to adjourn the meeting was seconded by Vice President Information Technology, Tegwyn Perkins. 9:54 am.

Respectively Submitted by  
Sharon Johnson  
Executive Director

**NEXT MEETING: September 6, 2024**

## Chapter News

### ARGENTINA CHAPTER

#### General News

The 2024 Formation Evaluation Workshop was successfully held on August 15, 2024, on the 27th floor of YPF. YPF and Pan American Energy (PAE) sponsored the event, the latter providing coffee and croissants for the break. This workshop was an excellent opportunity to update knowledge and share experiences on key topics in formation evaluation, with the participation of leading experts in the field. A total of 60 people attended the event in person.

#### Recent Events

The “2024 Formation Evaluation Workshop” began with a warm welcome to the participants, followed by technical presentations covering a wide range of topics related to petrophysics and energy transition:

- **Paola Delgado** presented on “AI Applied to Petrophysics and Fluid Prediction From Mud Gas.” Paola’s presentation highlighted the latest advancements in artificial intelligence techniques and how they can be applied to enhance the interpretation and prediction of petrophysical properties, particularly in the context of fluid prediction from mud gas data. The talk emphasized the potential of AI to transform traditional methods, providing more accurate and efficient analyses.
- **Claudio Naidés** discussed “DRA in Unconventionals.” Claudio’s presentation focused on the application of data-driven reservoir analysis (DRA) in unconventional reservoirs. He explored the challenges and opportunities that arise when applying DRA techniques to these complex reservoirs, highlighting case studies and practical examples from recent projects.
- **Agostina Martínez** presented on “Lithium and Geothermal Energy.” Agostina’s talk delved into the transition towards renewable energy, specifically focusing on lithium extraction. She provided insights into the geological aspects of lithium-rich formations, making the case for their importance in the global energy transition.

After the break, the workshop continued with:

- **Lisandro Millo** explored the “CCS potential in Cerro Dragón, Golfo San Jorge Basin, Argentina.” Lisandro’s presentation covered the assessment of carbon capture and storage (CCS) potential in the Cerro Dragón area. He discussed the geological suitability of this portion of the basin for CO<sub>2</sub> storage and the

implications for Argentina’s energy sector, particularly in reducing carbon emissions.

- **Juan Manuel Soria** presented on “Laboratory Studies for NOC.” Juan Manuel provided an in-depth overview of the latest laboratory techniques used for analyzing core samples in unconventional reservoirs. His presentation included detailed case studies from the NOC (Y-TEC) laboratories, showcasing how these studies contribute to better reservoir characterization and enhanced recovery strategies.
- **José Capitillo** discussed the “Use of RTA (Rate Transient Analysis) to Determine Flow Regimes and In-Situ Volumes.” José’s presentation focused on the application of RTA in understanding reservoir dynamics, particularly in unconventional plays. He demonstrated how RTA can be used to accurately determine flow regimes and in-situ volumes, leading to more informed decision making in reservoir management.

The event was well received, with a strong attendance of industry professionals, and concluded with the awarding of certificates to the speakers.

#### Upcoming Events

The chapter will continue with its series of workshops and conferences, with upcoming events focusing on emerging technologies and their applications in formation evaluation. All upcoming events for the rest of 2024 will be held online. This shift to virtual events is designed to accommodate participants from a wider geographic area and to continue fostering knowledge exchange despite any potential travel restrictions. All members are encouraged to stay active and participate in these learning and networking opportunities.



Paola Delgado and Alberto Ortiz presenting on “AI Applied to Petrophysics” and “Fluid Prediction From Mud Gas.”



**ARGENTINA STUDENT CHAPTER**

**General News**

We have a new working team that will lead the direction of the Student Chapter for 2024–2025. The Board of Directors has been divided into two subgroups: the Administrative Group and the Social Media Group.



Board of Directors 2024–2025.

We congratulate Marta D’Angiola, our faculty advisor, who took on the role of SPWLA Regional Director LATAM. She has been a great support for us. Always willing to help students and young professionals. She is a great asset to SPWLA LATAM.

**Recent Events**

**29 May 2024**—Juan Manuel Prat spoke on “Constructive Skills and Perspectives for the Professional World.” The course was completed in one day. Participants learned what soft skills are necessary for this competitive world



Event Flyer: “Constructive Skills and Perspectives for the Professional World.”



Marta D’Angiola – SPWLA Regional Director LATAM.



Event Flyer: “Geomodeling.”

**12 June 2024**—Ivan Urdaneta spoke on geomodeling with “Introduction to Integrated Studies of Hydrocarbon Reservoirs and Applied Methodology for the Construction of a 3D Static Model.”

**6 August 2024**—Jose Andres Sales spoke on microseismic with “Wellbore Geophysics-Drilling Service (DDE).” In this talk, topics on well geophysics and DDE drilling services were addressed.

lodging expenses of the members of our chapter’s board of directors.

**For more information on our chapter:**

Mail: [spwla.arg.sc@gmail.com](mailto:spwla.arg.sc@gmail.com)

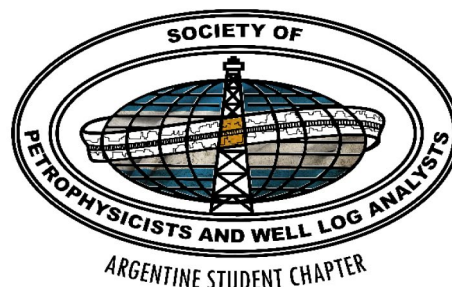
LinkedIn:

[www.linkedin.com/in/spwla-argentine-student-chapter](http://www.linkedin.com/in/spwla-argentine-student-chapter)

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



Event Flyer: “Microseismic.”



Alberto Ortiz (Chapter President) and Lisandro Millo exploring “CCS Potential in Cerro Dragón, Golfo San Jorge Basin, Argentina.”

**Upcoming Event**

We are planning to give more speeches on formation evaluation in the next few months. We are also planning a virtual meeting with our SPWLA UIS Student Chapter colleagues. In October, we will attend Expo Oil & Gas Patagonia (Neuquén, Argentina), the summit meeting of hydrocarbons in the region. Since its first edition, it has positioned itself as the showcase in which to exhibit all the latest products, technologies, and ventures associated with the sector. The event is organized by the Instituto Argentino del Petróleo y del Gas and is held every 2 years in the Argentine Patagonia; in the last edition, more than 250 exhibitors and 11,000 visitors attended. For this year’s edition 2024, the venue will be the province of Neuquén, which has an important productive basin. Therefore, we are raising funds to cover the travel and



Picture of the event (Juan Manuel Soria is presenting).



BANGKOK CHAPTER



Juan Manuel Soria and Alberto Ortiz.

Recent Events

**15 August 2024—Joint SPWLA/SPE Meeting:** “Before You Inject! – Investigating Root Causes of PWRI Injectivity Loss” presented by Dr. Rick Lemanczyk, associate principal petroleum engineer (THREE60 Energy). Dr. Rick Lemanczyk presented case studies from injection wells in Malaysia, where the causes of the loss of injectivity were investigated. The examples illustrated the benefits of advance analysis of potential issues to reduce the need for costly interventions later in the life of the injector well. Our sincere thanks to Dr. Lemanczyk for taking the time to attend and present, as well as to everyone who attended. Thanks also to SPE for acting as host for the event.

SPECIAL ANNOUNCEMENT

**6–9 October 2024—Asia Pacific Regional Conference:** SPWLA Bangkok Chapter will be hosting the Asia Pacific Regional Conference. Delegate registration is now open. Please check our website or Facebook page for updates. Details are also found on the SPWLA website or email us at [ap2024@spwla.org](mailto:ap2024@spwla.org).



(From left to right) Martin Foes (President Student Chapter), Florencia Chiappetta (Student Chapter), Alberto Ortiz (Argentina Chapter President), Marta D. Angiola, Fabiola Bodan, Camila Suriano, Lorena Caviglia, Paula Bedini, Jorge Barboza, and Paola de Batista, all members of the SPWLA Argentina Chapter organization team. (Nicolas Carrizo is not pictured, but he was a part of the organization team that worked hard to carry out this event.)

**SPWLA Asia Pacific  
Regional Conference 2024**  
*Centara Grand Ladprao - Bangkok Thailand*

**“Traditional and Transitional Petrophysics”**  
*Enhancing and Integrating Petrophysics into the challenges of  
Today and Tomorrow”*

**Registration is now open!!**

<p><b>2024 Sponsors</b></p> <p><b>Co Hosted by</b></p> <p><b>Conference Banquet</b></p> <p><b>Posters</b></p> <p><b>Field Trip</b></p> <p><b>Students</b></p>	<p><b>2024 Sponsors</b></p>
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General picture of the event. Jose Capitillo is presenting.



Dr. Rick Lemanczyk – Associate Principal Petroleum Engineer  
(THREE60 Energy)



Special thanks to our Corporate Sponsors.

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

or visit us on LinkedIn (SPWLA Bangkok Chapter)

## BATANGAS STATE UNIVERSITY STUDENT CHAPTER

### General News

The SPWLA Batangas State University Student Chapter was recently awarded by its mother organization as the Outstanding Student Chapter of Academic Year 2023–2024 this July. To honor this award, the new set of officers of the Batangas State University Student Chapter for Academic Year 2024–2025 has since been busy collaborating and delegating

tasks, maximizing the remaining days of school break to prepare for launching in the first semester.

To efficiently manage the organization's funds, SPWLA BatStateU SC opened their bank account on July 18, 2024, with Niel Allen Delos Reyes and John Kenneth Navarro, Treasurer and President, respectively, as signatories. The administration has also approved the Plan of Activities for this academic year, and it is ready for curation.

### Recent Events

**2 August 2024—Introducing and Promoting SPWLA to the Freshmen of Batangas State University:** Batangas State University annually curates a gathering of freshmen students on the first day of classes and introduces both Program and Student Chapter organizations via video promotions. SPWLA BatStateU SC has submitted a video presentation containing their previous activities.

**5 and 10 August 2024—Approval of the Set of Planned Activities:** The roadmap for this year's activities was approved by the administration last August 5, 2024. On August 10, 2024, a meeting was held, delegating officers to their tasks in the list of planned activities for the semester.

**14 August 2024—Rebranding:** Before launching the new set of activities of SPWLA for A.Y. 2024–2025, the student chapter has revamped its official page with the general theme "Be One of Us," a bold statement encouraging more enthusiastic students from engineering programs that dabble with petrophysics to be part of the legacy.

### Upcoming Events

**September 2024—SPWLA General Assembly IV – Logged In: Empowering Petrophysicists and Well-Log Analysts for a Dynamic Energy Future:** This will be a face-to-face convocation welcoming and introducing the new members to SPWLA. The SPWLA BatStateU SC is a non-profit organization whose mission is to heighten awareness about petrophysics, formation evaluation, and well-logging practices in the oil and gas industry. It also promotes education and advancements in the field of petrophysical sciences by engaging its members in various activities relevant to the field through collaboration with some experts from the field. The event will be held face-to-face, which will be the first face-to-face general assembly of the organization since it was founded. It will be held in the last week of September 2024.

**23 October 2024—Data Deep Dive: Unlocking Deep Subsurface Secrets:** Data analytics plays a vital role in the current trend of the oil and gas industry. This event aims



to educate young professionals on the fundamentals and advanced concepts in the context of petrophysics and well logging, which is the major mission of this organization, engaging its members in the field of petrophysics and well logging. Professionals whose area of expertise is data logging will be invited. The event will be held online via Zoom meeting.

**13 November 2024—Futureleum:** This is a collaborative event of the SPWLA BatStateU SC and Society of Petroleum Engineers BatStateU SC, which aims to widen member’s knowledge on the technological aspects of their career field. The workshop will focus on software simulation to show the students a particular piece of software being used in the industry and facilitate a comprehensive understanding of the upstream sector’s complexities and intricacies. It serves as the bridge between theoretical knowledge and practical application, enabling participants to evolve from novices to adept professionals in the oil and gas industry.

**November 2024—Watts Up: Uniting Sustainable Energy: Collaborative Policies for a Brighter Future:** In this modern era, continuous challenges arise from the issue of finding a sufficient, affordable, and accessible source of energy. This event aims to support the advocacy of the Center for Energy Research & Policy by engaging future researchers and professionals in the combat against the energy crisis. This event will be held online/face-to-face in the last week of November.



**BOREHOLE IMAGING (BHI) SIG**

**General News**

The number of members of the BHI SIG increased from 172 to 182 within the last month.

**Recent Events**

We had a meeting with the BHI SIG Board to discuss and plan future events, with a special focus on the upcoming BHI SIG workshop in October.

**Upcoming Events**

**15 October 2024**—We are currently preparing the next BHI SIG workshop, which will be held on October 15, 8:00 am Central Time (online). The workshop will focus on the geomechanical applications of image logs. The call for abstracts and registration is already online: [SPWLA Borehole Imaging SIG Workshop – AFES](#)

**BRAZIL CHAPTER**

**General News**

Our monthly meetings are being held online, predominantly every third Tuesday of the month, at 4 pm BRT (UTC-03), throughout 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 welcomed!

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](mailto:dx@equinor.com)).

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

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

## Student Chapters

Since December 2023, students from the Geology Department of the Federal University of Ceará (UFC) in Northeast Brazil have been working together to launch a new student chapter. During its journey, the students received support from the UFRJ student chapter and from D.Sc. Ana Clara Braga de Souza (<https://www.linkedin.com/in/ana-clara-souza-6b75481a9/>), the Faculty Advisor. The student chapter was launched in July, and the current board is:

- **President:** Francisco Leonardo Soares Facundo (<https://www.linkedin.com/in/leonardofacundo/>)
- **VP:** Maria Sabrina Barros de Abreu
- **Secretary:** Lucas Mateus dos Santos Evangelista
- **Treasurer:** Kássia Kelly Alves Viana

The student chapter is the second in Brazil and already comprises nine members from the Geology and Petroleum Engineer Departments.



### First Meeting of UFC Student Chapter Board

Follow the UFC SC page: <https://www.instagram.com/ufcspwlas> to meet the other members and stay updated.

### Recent Events

**26 June 2024**—We had Anngy Daniela Roman Ortega (<https://www.linkedin.com/in/anngyroman/>), who presented her winning work of the International Student Paper Contest, entitled “Evaluation of Petrophysical and Geomechanical Properties of the Illinois Basin Decatur Project Reservoir for Safe CO<sub>2</sub> Storage.” Anngy received first place in the Undergrad/Masters category, and she certainly inspired Brazilian students to get involved in SPWLA activities while disseminating knowledge in CCUS. The webinar has already more than 100 views and is available on our YouTube channel (<https://www.youtube.com/@spwlabrazil>).

**16 July 2024**—We had Artur Posenato Garcia (<https://www.linkedin.com/in/artur-posenato-garcia/>), who presented “A New Workflow for Assessment of Fluid Components and Pore Volumes From 2D NMR Measurements in Formations With Complex Mineralogy and Pore Structure.” Artur has been honored three times as a Distinguished Speaker by SPWLA (2017–2018, 2018–2019, and 2023–2024). The webinar was a live event and, unfortunately, is not available on our YouTube channel.

**27 August 2024**—Rodrigo Surmas (<https://www.linkedin.com/in/rodrigo-surmas-603868b7/>) presented “Digital Rock Physics Applications,” covering an overview of real applications in the field, aiming to discuss what works well today in this area and what doesn’t, in order to situate it in rock characterization workflows.

The SPWLA Brazil Chapter is still confirming the next presentation’s calendar, so stay tuned to our LinkedIn page and YouTube channel to stay up to date with our schedule.

## EAST CHINA CHAPTER

### Recent Events

**29–30 June 2024**—The SPWLA East China Chapter successfully held the Academic Exchange Meeting on Well-Logging Technical Challenges and Professional Development, at which the experts, scholars, teachers, and students had cordial and friendly communication. This meeting featured Yufeng Shi, deputy manager (Tarim Branch of China Petroleum Logging Co., Ltd.), Songtao Bai, deputy director (Geological Institute of China Petroleum Logging Co., Ltd.), Jingqi Lin, deputy manager (Xinjiang Branch of China Petroleum Logging Co., Ltd.), and Zhuang Qi, deputy manager (Daqing Branch of China Petroleum Logging Co., Ltd.), who gave special reports.



Yufeng Shi gave a keynote report.

Yufeng Shi gave an academic report entitled “Focusing on Super Depth, Innovative Ecosystem, Pursuing Dream Logging” for teachers and students. At the presentation, he introduced the development of deep-ultradeep well oil and gas exploration technology in China and the world in recent years, focusing on the key position of ultradeep wells in national energy security and national development strategy. And summarized the challenges faced by ultradeep wells in the high-temperature and high-pressure environments.



Songtao Bai gave a keynote report

Songtao Bai gave an academic report entitled “Enhancing Professional Confidence and Developing Well Logging Interpretation” to teachers and students. During the report, he discussed the significance of logging interpretation evaluation and clarified the similarities and differences between four professional terms: analysis, interpretation, evaluation, and application. President Bai also introduced the direction and research importance of logging interpretation and evaluation using the framework of “one core, two tasks, three levels, and four steps.” He summarized the technical achievements, major works, and development models in well-logging interpretation both domestically and internationally. With the phrase, “Logging officers must remain vigilant and ensure their work is solid,” President Bai expressed his high hopes for students who are just stepping into the field, encouraging them to be brave in carrying out their mission and to live up to expectations.



Jingqi Lin gave a keynote report.

On June 30, 2024, Jingqi Lin made a report on “Demonstrating the Function of Logging, Ensuring Energy Security and Realizing the Value of Life,” explaining the mission and responsibility of logging from three aspects: the future of the oil and gas industry, the future of logging profession, and the development road of logging personnel. He said that oil and gas are vital to national energy security and economic, social, and people’s livelihood. There are no small majors, only big disciplines. As logging people, we must always bear in mind the fundamental problem of “what logging is and what to do.”



Zhuang Qi gave a keynote report.

Zhuang Qi presented a report titled “Pursuing Dreams with Insight and Deep Knowledge,” discussing the development of China Petroleum Logging Co., Ltd., the history of the logging discipline and technology, as well as talent training and demand in the energy industry. He noted that after more than 20 years of development, China Petroleum Logging Co., Ltd. has established a service technology system centered on CLog, along with a range of interpretation and evaluation application technologies built around CIFLog-Lead industrial software. Zhuang encouraged young students to adopt an open and pragmatic attitude in their studies to adapt to the advent of new technologies, such as artificial intelligence.

More than 120 technicians, teachers, and students from China Petroleum Logging Co., Ltd. and China University of Petroleum (East China) attended the symposium, where they discussed deep-layer oil and gas logging technology, as well as logging interpretation and application.

**Upcoming Events**

**9–12 September 2024—SPWLA East China Chapter Topic Conference and The 15th UPC International Symposium**



on Well-Logging Technology will be held in Hangzhou, Zhejiang Province, China.

### MALAYSIA (FESM) CHAPTER

FESM, a local chapter of the Formation Evaluation Society of Malaysia, is based in Kuala Lumpur. Technical meetings are held monthly. For meeting information, please visit our chapter website at [www.fesmkl.com](http://www.fesmkl.com).

#### General News

FESM held multiple discussions online to discuss the recent updates on the society, including sponsorship, the upcoming topical conference, and the way forward in this year's events.

#### Recent Events

The FESM committee is actively working to promote the 2024 FESM Topical Conference event, coming on November 2024. The event has been advertised through LinkedIn, WhatsApp, and the official website. The committee also has communicated directly to any FESM members with exceptional industrial experience to share their knowledge by submitting the abstract.

FESM has received around 25 abstract submissions and is now in the process of ranking the papers and selecting the best abstracts to be presented during the conference. Assessment criteria have been established by the committee, and FESM has received help from external parties to assess the submitted abstract. FESM has received abstracts from many companies, including Shell, Baker Hughes, ExxonMobil, PetroChina, and Halliburton. On top of that, university students from overseas, such as China and SPWLA Indonesia, have also contributed to the abstract submission.

#### Upcoming Events

The Committee is expected to finish ranking the abstracts in August and will soon notify the writers regarding abstract selection. The Committee is to receive the final presentation pack on **13 September 2024**. Within the same month, the committee will discuss the agenda of the conference further and finalize the invitation.

**2024 FESM TOPICAL CONFERENCE**  
Petrophysical Insights:  
Key to Unleashing Potential in Mature & Marginal Fields

Mandarin Oriental,  
Kuala Lumpur, Malaysia

**KNOWLEDGE SHARING  
PLATFORM FOR EXPERTS**

FESM Topical Conference will be conducted as an "off-the-record" forum with no publication of any material presented. We encourage the presenters and participants to share case studies, conceptual innovations, new methodologies and latest technologies. Commercialisms during presentation is not permitted.

**CALL FOR ABSTRACTS IS NOW OPEN!**

- DEADLINE FOR ABSTRACT SUBMISSION (250 WORDS) : **30TH JUNE 2024**
- THE CONFERENCE IS OPEN TO ALL SPWLA, AFFILIATED AND NON-SPWLA MEMBERS

**12 November 2024**  
Start From 9:00AM - 4:00PM

**4 MAIN TOPICS**

- Role of Petrophysics in CCUS & New Energy Space**
- Core to Model:** Integration of Data into Robust Reservoir Model
- Unlocking Opportunities in Mature & Marginal Fields**
- New Technologies in Data Acquisitions to Reduce Subsurface Uncertainty**

More info  
<http://www.fesmkl.com>

Reach Us  
[secretariat@fesmkl.com](mailto:secretariat@fesmkl.com)

The poster for the 2024 FESM Topical Conference.

### FORMATION TESTING SIG

#### Recent Events

Executive Committee Lunch and Handover Discussion (picture below).





**28 August 2024**—The FT SIG Webinar Series continued with a presentation titled “A Review of Recent Formation Testing Activities From South China Sea, the Success, Challenge, and Future,” delivered by Guowen Lei (Baker Hughes).

### Upcoming Events

**19 September 2024**—The FT SIG Annual Meeting and Technical Conference will be held in Houston. Register for the event on the [SPWLA website](#). A photo of the last year’s event is given below.



Attendees at the FT SIG Annual Meeting 2023.

If you have questions about any of our events, you can contact us at [formation.testing.sig@spwla.org](mailto:formation.testing.sig@spwla.org).

## FRANCE CHAPTER

### Recent Events

**14 May 2024**—The second quarter of 2024 was dedicated to geothermal energy. The sequence started with an introductory webinar titled “Next Generation Geothermal Systems,” presented by Benoît Deville, SLB Geothermal Technology director. We learned about the different kinds of geothermal projects, their economic rationales, and geological settings.

**28 June 2024**—The sequence of geothermal energy was closed before the summer break with a one-day in-person session in Clamart at SRPC-SLB with an inspiring agenda. The day started with three presentations about the challenge of aquifer seismic imaging and horizontal drain optimization in a geothermal context. Leon Dalhaus (SLB) started with “New Insights in Geothermal Reservoir Using 3D Far-Field Sonic Imaging” and explained a novel 3D far-field sonic imaging technique for acoustic and bedding information, which revealed unexpected findings of the aquifer geometry along the drain. This aspect was further detailed with Hadrien Thomas (Cambridge Carbonates) who presented “Oblique Reflections in Dogger Aquifer Below GGR5 Well” [co-

authored with Benoit Vincent (Cambridge Carbonates), Nobuyasu Hirabayashi (SLB), Jeroen Jocker (SLB), Youri Hamon (IFPEN), Arnaud Loirat (Elyteq), Erik Wielemaker (SLB), Leon Dahlhaus (SLB), Rajeev Kumar (SLB) and Charles Naville (IFPEN)]. What might have previously appeared as reflection “noise” is now attributed to a continuous succession of oblique reflectors located all along and below the 800-m-long horizontal drain. Then, the morning was concluded with Pierre Ungemach and Miklos Antics from GPC IP/GEOFLUID, who presented the “Development of Geothermal Energy in Areas With Low Transmissivity and/or in Areas With a High Density of Operations” and discussed the optimal well architectures to maximize heat extraction. After reviewing aquifer geothermal technologies in the morning, the afternoon opened with site visits and showcased two other geothermal business activities: one in the Celsius Shallow Geothermal System (visit run by Omblin Le Maréchal, SLB) used to heat and cool one SRPC building all along the year, in parallel with a logging tool demo by Nadège Bize-Forest (SLB) of thurbit imager technologies used to characterize fractured formations in high-temperature geothermal facilities. The modeling of geothermal sites was then covered by Giovanni Sosio (SLB) with the presentation “Integrated Modeling of an Enhanced Geothermal Sites, From Concept to Production: The Case of Utah FORGE” [co-authored with Sri Mulyani, Lesly Gutierrez-Sosa, Abdul Muqtadir Khan (SLB)]. A series of two presentations about new VSP applications to geothermal wells were presented: Charles Naville (IFPEN) talked about “High-Frequency/High-Resolution VSP in Geothermal GGR5 Well” [co-authored with James Bailey (VSPROWESS), Mary Humphries (VSPROWESS), Joséphine Vicelli (CDPconsulting), Frank Hanot (CDPconsulting), Sebastien Soulas (ASL)], and Christophe Barnes (CYU) presented the full-wave inversion results for offset VSP data in geothermal GGR5 well. The day was concluded with a general overview of the Integrated Workflow Over the Entire Geothermal Value Chain presented by Stavros Arsenikos (Beicip-Franlab) [co-authored by Ghislain de Joussineau (Compagnie Française de Géothermie (CFG)) and Eric Lasne (Orleans)].

A big thanks to our presenters for their valuable insights and expertise. The discussions were engaging and highly informative, providing attendees with a deeper understanding of the potential and advancements in geothermal energy. We are also grateful to all the participants for their active participation, which made the event truly special.



Picture of the attendees and presenters of the SPWLA France “Geothermal Energy” day organized at SRPC – SLB in Clamart (France) on June 28.



Attendees during the visit to the surface structure of Celsius in Clamart. Charles Naville (IFP) on the left-hand side of the picture (green striped shirt) passionately talking about VSP during his birthday!



The second group of attendees visited the Celsius surface structure in Clamart. Eminent SPWLA France members on the right-hand side of the picture with Jim Hemingway and Michel Krief!

**Upcoming Events**

After closing the chapter on renewable energies, SPWLA France prepares for the fall season with a new series of events. Stay tuned and be ready, as the French board will get renewed by the end of 2024!

**HOUSTON CHAPTER**

**General News**

We are pleased to introduce the new board of the SPWLA Houston Chapter, as listed below. Our chapter hosts a variety of events and meetings each month to foster networking and professional development:

- **Monthly Social Networking Event:** Held on the last Thursday of every month, this event provides an opportunity for members to connect, share ideas, and build relationships in a relaxed setting.
- **Monthly Meetings:** In addition to the social networking event, we conduct two formal meetings each month. These meetings are designed to discuss industry trends, share technical knowledge, and address chapter business.
- **Seminars and Workshops:** Each month, we organize different seminars and workshops on relevant topics to support continuous learning and professional growth within the industry.

We look forward to your participation and engagement in these events.

**SPWLA HOUSTON CHAPTER OFFICERS (2024–2026)**



Ron J.M. Bonnie  
President



Amer Hanif  
V. President Northside



Artur Posenato Garcia  
V. President Downtown



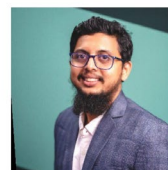
QinShan “Shan” Yang  
V. President Westside



Shikha Prasad  
Treasurer



Ronke Olutola  
Secretary



Muhammad Noman  
Editor



Tianmin Jiang  
Webmaster



## Recent Events

**27 June 2024—SPWLA HOUSTON CHAPTER NETWORKING EVENT****Date:** Thursday, June 27, 2024**Time:** 5:00–8:00 pm (US CDT)**Location:** Cedar Creek Bar & Grill, 1034 West 20th St, 77008

Networking event and gathering for SPWLA members and board officers during Thursday Happy Hours.

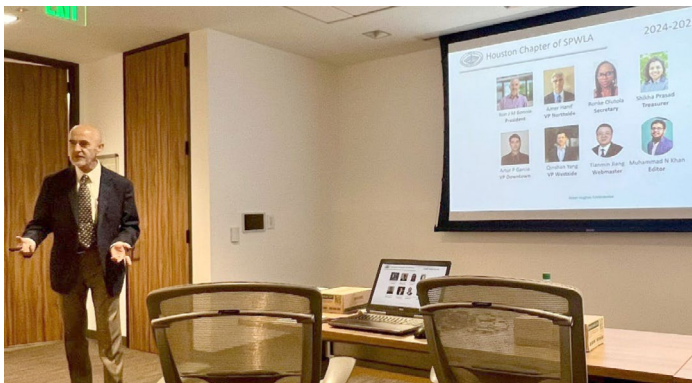
**24 July 2024: Lunch Seminar****Speaker:** Chicheng Xu (Aramco Houston Research Center)**Co-Author:** Iulian N. Hulea (Shell Global Solutions BV, The Netherlands)**Date:** Wednesday, July 24, 2024**Time:** 11:30 am–1:00 pm (US CDT)**Venue:** Baker Hughes, 2001 Rankin Rd, Houston, TX 77073**ABSTRACT:**

Data and algorithms play pivotal roles in driving digital innovations within the petrophysics domain. On the one hand, a wealth of high-quality petrophysics field data is accessible from public databases (such as the Utah FOEGE Geothermal project and the Kansas Geological Survey) or company releases (like Equinor Volve). On the other hand, innovative digital solutions continually emerge as open-source code contributions from research institutes, SPWLA machine-learning competitions, and individual enthusiasts on GitHub. We propose the creation of a cloud-based platform, Open Petrophysics Data & Utilities (OPDU) to enhance public data management, increase knowledge sharing and analog use, and promote technology utilization across the SPWLA global community. This platform adopts the Open Subsurface Data Universe (OSDU) concept and exemplifies seamless data integration within an organization. Its purpose is to bridge the gap between public data sources and open-source petrophysics solutions, creating value for the energy industry. During our presentation, the authors discussed proposed architectural solutions and, more importantly, engage with the audience to chart the course for a digitally empowered SPWLA community.

**BIOGRAPHY:**

**Chicheng Xu** joined Aramco Houston Research Center in 2017 and is working as a research petrophysicist in the Artificial Intelligence Technology Group. His research focuses on petrophysics intelligence and automation using advanced computational techniques and data analytics for interpretation, classification, and modeling based on multiscale subsurface data integration. He earned his PhD degree at the Petroleum and Geosystems Engineering Department of UT Austin in 2013 and worked as a petrophysicist/rock physicist for BP America and BHP Billiton from 2013 to 2017. He co-founded and chaired the SPWLA PDDA SIG and initialized a student scholarship for PDDA-related graduate research. He has also served as an associate editor for several international scholastic journals, including *SPWLA Petrophysics*, *SEG Interpretation*, and *SPE Reservoir Evaluation & Engineering*. He was selected to receive the SPE Regional Formation Evaluation Technical Award by SPE – Gulf Coast in 2018, the SPWLA Meritorious Service Award in 2019, the SPE Outstanding Associate Editor Award in 2020, the SPWLA Meritorious Technical Award in 2021, and the SPE regional Data Science and Engineering Analytics Technical Award by SPE – Gulf Coast in 2022. Chicheng is dedicated to SPWLA's publication and digitalization efforts and is currently leading a special task force for SPWLA PDDA SIG to build up the OPDU platform.

**Julian N. Hulea** is a senior petrophysicist working for Shell Global Solutions BV, Projects, and Technology in the Netherlands, currently working on global reservoir studies. In parallel, he serves for the 2024–2025 term as SPWLA President.



Chicheng Xu presented a topic on “Bridging Data and Algorithms in the Petrophysics Domain: Introducing the Open Petrophysics Data & Utilities (OPDU) Platform” at the SPWLA Houston Chapter seminar.

## 21 August 2024—Lunch Seminar on Wettability Quantification in Rock Components

**Date:** August 21, 2024

**Time:** 12:00–1:00 pm (US CDT)

**Location:** Downtown Houston

Join us for an insightful presentation by Isa Silveira de Araujo, a PhD candidate at The University of Texas at Austin’s Hildebrand Department of Petroleum and Geosystems Engineering. Isa will dive into the intricacies of wettability quantification in rock components through water adsorption isotherms.

### ABSTRACT:

Multiple conventional experimental methods are available to estimate wettability, such as contact-angle measurements and imbibition tests on core samples. Although commonly used, the inconsistency in wettability assessment from these methods challenges the wettability quantification in mixed-wet rocks. Moreover, new reliable methods for wettability assessment in both homogeneous and heterogeneous surfaces, as well as core samples that have a variable range of wetting states, are still needed. The concept of adsorption is fundamental to understanding fine-scale interactions between solids and fluids and potentially can be used for wettability assessment. For the first time, in this paper, we aim to conduct a systematic study on the relation between water adsorption and wettability. We experimentally compute water adsorption isotherms and perform sensitivity analysis on the impacts of (i) wettability levels, (ii) types of rock components, and (iii) concentrations of mineral constituents on water adsorption capacity. We synthetically change the wettability of pure quartz powder to obtain samples with variable wettability levels. Subsequently, we used some of the chemically treated powders to create pellets and measure contact angle. On the remaining portion of the treated powders, adsorption isotherms are measured using a Dynamic Vapor Sorption Analyzer (DVS). We also obtain water adsorption isotherms on several types of pure minerals and organic components, including diverse clay types, quartz, calcite, and kerogen. Finally, different minerals are mixed at distinct concentrations to evaluate the effect of composition on adsorption capacity. Results demonstrated that Ca-montmorillonite exhibits more water adsorption than the other minerals, reaching adsorption of 0.23 grams of water per gram of Ca-montmorillonite at 90% relative humidity. We also measured the water contact angle on the pure minerals and found that on these samples, the water droplet completely spreads, demonstrating a  $0^\circ$  contact angle. After chemically changing the wettability of quartz, a contact angle of  $120^\circ$  was obtained. The adsorption isotherms show that the change in wettability of quartz



resulted in a decrease of approximately 40% in the amount of water adsorbed at 80% relative humidity. A comparison of the water contact angle with adsorption isotherm measurements suggests that the isotherms are more sensitive to variations in wettability than contact angle. Water adsorption on immature kerogen is found to be larger compared to most of the evaluated minerals. Results also suggested that the structure of kerogen is flexible and capable of large water uptake. Adsorption isotherms estimated on mixtures of minerals also proved that these measurements are extremely sensitive to small variations in the mineral composition. We proved that the fine-scale solid-fluid interfacial interactions can be quantified with adsorption isotherms and upscaled to wettability. The outcomes of this work also demonstrate the affinity of individual rock components to water. These results can potentially be used for further development of new methods for wettability assessment of mixed-wet rocks and rocks with complex mineral composition.

#### BIOGRAPHY:

**Isa Silveira de Araujo** is a PhD candidate in the Hildebrand Department of Petroleum and Geosystems Engineering at The University of Texas at Austin. She earned her BS degree in chemical engineering from Universidade Federal dos Vales do Jequitinhonha e Mucuri (UFVJM), Brazil, and her MS degree in chemical engineering from the University of Campinas (Unicamp), Brazil. She is one of the recipients of the 2022 SPWLA Distinguished Speaker Award. She is also the recipient of the Osmar, Mercedes, and Roberto Abib Memorial Endowed Presidential Scholarship in Petroleum Engineering from the Cockrell School of Engineering. Her research interests focus on the petrophysics of unconventional reservoirs and rock-fluid interactions.

#### 28 August 2024—Lunch Seminar

**Topic:** Monitoring of CCUS Operations for Containment Validation Using Electromagnetic Methods

**Speaker:** Trevor Pugh

**Date:** August 28, 2024

**Location:** Baker Hughes, 2001 Rankin Rd, Houston, TX 77073

An exclusive seminar was hosted by the SPWLA Houston Chapter, featuring Trevor Pugh, a distinguished expert in the field, who presented groundbreaking insights into how electromagnetic methods are transforming the monitoring of carbon capture, utilization, and storage (CCUS) operations. This seminar will focus on innovative techniques for validating containment and ensuring the integrity of CCUS projects.

#### Key Takeaways:

- Advanced electromagnetic techniques for CCUS monitoring
- Strategies for effective containment validation

#### Why Attend?

- Enhance your knowledge of cutting-edge monitoring technologies
- Network with industry professionals and experts
- Gain practical insights that can be applied to your projects

We are proud to acknowledge GOWell as the sponsor of this seminar.

#### ABSTRACT:

Our team at ESG Solutions has provided long-term seismicity monitoring for CCUS projects throughout the US and Canada. The team uses the microseismic data to update geomechanical models. The various projects have also demonstrated the importance of continuous monitoring during injection operations to ensure storage control and permanence. In addition, it was noted that the types of data recorded will vary over time in order to provide a consistent and cost-effective solution. The projects have demonstrated that basement seismicity increases in event density, size, and distance over time. Several passive microseismic approaches have been used to record these changes, in a downhole analog geophone array and a network of surface geophones with a sparse layout. While understanding the microseismic activity is a critical part of containment monitoring for CCUS operations, an additional piece of information that reinforces this data set is knowing the extent of the CO<sub>2</sub> plume in the long term. Knowledge of the plume extent will be important to establish the long-term viability of a storage facility and the expected long-term storage permanence of the in-place CO<sub>2</sub>. This paper will present a combined, cost-effective solution through the additional use of surface-based streaming potential and scatter field-controlled source electromagnetics (S2CSEM). The S2CSEM method can be periodically deployed throughout the life of the storage facility to image the plumes' horizontal extent. The scatter field method can also detect streaming potential changes over shorter periods of time by changing the CO<sub>2</sub> injection rate over a 24- to 48-hour period. Using both microseismic and CSEM to delineate the CO<sub>2</sub> placement allows operators to understand what seismic activity is related to induced stress from CO<sub>2</sub> injection and natural stress for the area. The combination of these methods will also provide an understanding of capacity limitations and storage permanence at a facility. This knowledge will further help with governmental acceptance of the proposed CCUS solutions provided by the industry.

**BIOGRAPHY:**

**Trevor Pugh** is a serial entrepreneur with 40 years of experience in the O&G industry. His background is in physics and R&D startups that provide innovative products for the industry. He has started and successfully exited several companies. His present project is Deep Imaging Technologies, which recently purchased ESG Solutions, a company created to provide subsurface monitoring services by combining multiple measurement systems for the O&G industry. Trevor has authored numerous patents and white papers dealing with many facets of the industry.

Trevor is an experienced rock climber, glider pilot, and scuba diver who also enjoys skiing and hiking in the mountains. He is married to Angie and has two sons.

**INDIA CHAPTER****General News**

SPWLA India Chapter has undergone Elections for Executive Committee (EC) Board Members for the term 2024–26 in August 2024. Please find below the list of newly Elected Board Members of the SPWLA India Chapter. We thank our previous Board members who served our community.

Sno	Position	First Name	Company
1	PRESIDENT	S K SINGHAL	ONGC
2	VICE PRESIDENT (MEMBERSHIP)	PRAMOD KUMAR	ONGC
3	VICE PRESIDENT (RESEARCH)	K V SARMA	ONGC
4	VICE PRESIDENT (TECHNOLOGY)	KANCHAN PRASAD	SLB
5	VICE PRESIDENT (TECH EVALUATION)	KUMAR SAURABH	BAKER HUGHES
6	VICE PRESIDENT (EDUCATION)	SANJAY VOHRA	PREMIER AGENCIES
7	VICE PRESIDENT (PUBLICATIONS)	SOMA CHATTERJEE	ONGC
8	SECRETARY	SUNIL GARG	ONGC
9	TREASURER	SATEESH KUMAR TAMMINANA	ONGC
10	JOINT SECRETARY (MEMBERSHIP)	PATI RAJ PATEL	OIL
11	JOINT SECRETARY (MEMBERSHIP)	DINESH MUKATI	ONGC
12	JOINT SECRETARY (TECHNOLOGY)	JOJY ABRAHAM	ONGC
13	JOINT SECRETARY (TECHNOLOGY)	TUSHAR KANTI MAHATO	ONGC
14	JOINT SECRETARY (EDUCATION)	RANDHIR KUMAR SHAH	SLB
15	JOINT SECRETARY (EDUCATION)	KULDEEP SINGH CHIB	HLSA
16	JOINT SECRETARY (PUBLICATIONS)	NAMAN WADHWA	BAKER-LWD
17	JOINT SECRETARY (PUBLICATIONS)	JADHAV VIRESH KUMAR	ONGC

**Recent Events**

**26 July 2024—Technical Session conducted in Mumbai, India:** SPWLA India Chapter organized a technical session covering two presentations in Mumbai. The first presentation on “Integrated Reservoir Characterization of Complex Panna Formation: An Insight From Heera Field, Western Offshore Basin,” was presented by Dr. Sagar Singh, senior geophysicist (wells) (ONGC Ahmedabad). The second presentation, “Unveiling the Acoustic Spectrum: Beyond Slowness,” was presented by Ms. Kanchan Prasad, analysis and interpretation manager (SLB India). The Vice President (Research) of the chapter welcomed the gathering and gave opening remarks. The session was marked by a high level of engagement, with attendees actively participating in discussions. It was attended by 60+ petrophysicists and logging engineers.



Dr. Sagar Singh during presentation and felicitating of a memento by Vice President (Research), SPWLA India Chapter.



Ms. Kanchan Prasad during the presentation and felicitations of a memento by the Vice President (Membership) and Vice President (Research), SPWLA India Chapter.



SPWLA India members attending the Technical Session.

### JAPAN FORMATION EVALUATION SOCIETY (JFES)

#### Recent Events

**9 May 2024—2024 Distinguished Lecture:** We welcomed more than 40 online attendees.

#### Presentation

**<Title>** “Salinity Effect on CO<sub>2</sub> Solubility in Live Formation Water Under Reservoir Conditions”

**<Speaker>** Jie Wang (Intertek Westport Technology Center/University of Houston) and Christine Ehlig-Economides (University of Houston)

**18 July 2024—124th JFES Chapter Meeting:** We welcomed 10 in-person and more than 30 online attendees.

#### Presentation 1

**<Title>** “Introduction of a Line Shaft Pump to the Minami-Kayabe Geothermal Power Plant”

**<Speaker>** Satoshi Ujo (GERD)

#### Presentation 2

**<Title>** “Overview of the EGS Project at the Okuaizu Geothermal Field”

**<Speaker>** Masashi Kato (GERD)



GERD’s presentation on geothermal energy captivated the audience with its in-depth analysis and compelling arguments.



## Upcoming Events

### 12–13 September 2024—The 29th Formation Evaluation

**Symposium of Japan:** All persons involved in oil, gas, new energy, geo-engineering industry, and scientific drillings are invited to showcase their case studies, new technologies, and innovations. We are also celebrating our 30th anniversary since the establishment of JFES in 1993.

**Date:** 12–13 September 2024

**Venue:** Japan Organization for Metals and Energy Security – Technology & Research Center (JOGMEC-TRC), Chiba, 1-2-2 Hamada, Mihama-ku, Chiba-city, Chiba 261-0025 Japan

**Sponsor:** SPWLA Japan Chapter (Japan Formation Evaluation Society: JFES)

**Co-Sponsor:** Japan Organization for Metals and Energy Security (JOGMEC)

**General Themes:** The symposium committees are soliciting papers on the following topics:

- Reservoir Characterization of Conventional/Unconventional Reservoirs
- Automated Methods of Formation Evaluation
- Specialized Measurement Techniques and Interpretation Methods
- Core and Well-Log Integration
- Case Studies

**Special Themes:** We set “DX (Digital Transformation)” as a special session theme in this symposium, and recent innovations and experiences will be shared with the participants in the JFES symposium. The invited talks, in person and online, will be arranged by the symposium committee, which will invite industry leaders from global universities, research institutes, and energy companies. In this special session, JFES will provide petrophysicists, geologists, geophysicists, and engineers with an opportunity to share their expertise and case studies for geothermal energy development.

- Machine Learning, AI for Geoscience
- DX Applications and Utilization
- Formation Evaluation/Reservoir Characterization of the Analysis Technology and Evaluation
- Geological/Geomechanical Modeling and Dynamic Simulation
- Reservoir Monitoring Technology

**Best Student Awards:** The outstanding presentation will be given the best student awards. The presentation would be nominated for the International Student Paper Contest in the annual SPWLA symposium.

We are excited to announce that registration is now open, and we look forward to your participation.

<https://forms.office.com/r/ABtnxAqfZT>

<https://www.spwla-jfes.org/> Email: [info@spwla-jfes.org](mailto:info@spwla-jfes.org)

## PDDA SIG

### Our 4th Annual Machine-Learning Competition From SPWLA PDDA SIG

#### Attention SPWLA Members!

Get ready for an exciting challenge! The PDDA SIG is thrilled to announce the 4th Annual **\*\*Machine Learning Competition\*\***! This year, we’re diving into the siliciclastic reservoirs of Alberta, Canada, where you’ll be tasked with detecting fractures from resistivity image logs.

#### What’s in Store?

- Training Data: You’ll receive comprehensive data sets, including resistivity image logs, basic logs, and labeled fractures.
- Challenge: Use the training data to develop models that can accurately detect fractures in blind test wells.
- Resources: We’ll provide a tutorial Jupyter notebook to help you get started. All data will be accessible via our GitHub repository.

#### Timeline:

- Start Date: Coming soon (tentatively September 2024)
- Duration: The competition will run for several weeks, so stay tuned for the official start date.

#### Why Participate?

- Showcase your ML skills in a real-world geoscience application.
- Winners will be recognized and celebrated at our Topical ML Conference later this year.
- Join a community of innovators pushing the boundaries of geoscience and machine learning.

**Get Ready:** Data release and detailed competition guidelines will be announced soon. Make sure you’re prepared to hit the ground running!



Don't miss out on this unique opportunity to challenge yourself and contribute to the field. Stay tuned for more details, and let's make this year's competition the best one yet!

**Committee Members:**

Hyungjoo Lee, Chicheng Xu, Lei Fu, Wen Pan, Jaehyuk Lee, and Michael Ashby

#SPWLA #PDDA #MachineLearning #DataAnalytics #FractureDetection #MLCompetition2024

**Sponsorship Opportunities:**

There are multiple interesting sponsorship opportunities announced there. Contact our board if you have an interesting data set or a presentation you would like to share or if you would like to become a sponsor for the PDDA SIG or annual machine-learning competition.

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



More details are available on the PDDA SIG website:  
[https://www.spwla.org/SPWLA/Chapters\\_SIGs/SIGs/PDDA/PDDA.aspx](https://www.spwla.org/SPWLA/Chapters_SIGs/SIGs/PDDA/PDDA.aspx)  
and the PDDA SIG LinkedIn profile:  
<https://www.linkedin.com/groups/13605420>  
Stay tuned!

**PERMIAN BASIN CHAPTER**

**General News**

Our last technical talk was on May 28, 2024, with Stonnie Pollock Fasken on "Challenges and Questions in Log Analysis of Permian Basin Reservoirs." We had a great attendance, which was our largest crowd yet.



**Board:**

- Veronica Montoya (Axiom Petrophysics LLC), President
- Christopher Smith (Advanced Hydrocarbon Stratigraphy), Vice President
- Kate La Fleur (NuTech), Social Media Communications
- Sebastian Ramiro-Ramirez (Diamondback Energy), Treasurer
- Kate La Fleur (NuTech), Social Media Communications
- Jennifer Reeves (RhomTek), Secretary

**Recent Events**

Date	Speakers	Title
May 28, 2024	Stonnie Pollock	Fasken

**Upcoming Events**

Break for the summer. Will be back in September.

**UFRJ STUDENT CHAPTER**

**General News**

Our chapter maintains normal activities, now with 18 active members including a Professor Advisor, organized below:

**Board Members**

- President: Vittor Cambria
- Vice President: Renan Camillo
- Secretary and Treasurer: Marina Alfradique
- Professor Advisor: Jorge Picanço

**Advisor Members**

- Rodrigo Azambuja
- Sarah Aleixo
- Sophia d’orsi
- Amanda Bezerra

**Marketing Members**

- Gabriel Ferraz
- Luís Henrique Trianon
- Ântonia Barbosa
- Iago da Costa

**Logistic Members**

- Alexandre Nobre
- Pedro Van Boekel
- Manuela Braga
- Gabriel Amon’s

**HR (Human Resources)**

- Julianna Machado
- Lívia Isabor
- Luciano Barros

**Recent News**

Now, the chapter is directed by President Vittor Cambria and Vice President Renan Camilo. Additionally, Marina Alfradique now occupies the position of Treasurer and Secretary, replacing a former member. In the last month, we created a new position for the old members, called “Advisor Member.” This new position means the possibility of staying in the chapter but without participating in the projects or any decisions.

Recently, we created the Human Resources (HR) division. This new division helps us organize the arrival of new members and the division of tasks for each sector.

In the chapter, we opened a communication channel with **Marta D’Angiola**, who was very helpful in putting us in touch with other professionals for possible courses and lectures. In addition, we took an introductory course in petrophysics with a professional from our university, Gilberto Raitz, who was open to new ideas.



Certificate of the mini-course offered by MSc Geologist Gilberto Raitz, who works as a petrophysicist at Lagsed.



Some participants of the course. In total, there were 15 members.

Upcoming Events

Goals	July	August	September
Update post of Instagram page			
Webinar one – Professor Advisor: or internal other member UFRJ			
Webinar two – External member			
Well-log analyses with Lagsed			
Mini-Course of Petrophysics Introduction			

Stage completed  
 Stage in process  
 Future stage

As a way to promote and publicize the student chapter, we had the idea of posting monthly on the Instagram page so that new students could become interested and also increase the visibility of our chapter within the university.

For the webinars, we had the idea of holding one webinar per month, the first of which was with Professor Advisor Jorge Picanço on the topic of reservoirs and the application of sequence stratigraphy. For the second webinar, we would like to count on the presence of other professionals in the field of petrophysics.

For this, we have two names as possibilities. The first possibility is Professor Maira da Costa de Oliveira Lima Santo, PhD (COPPE/UFRJ), who works in civil engineering in the area of petroleum systems. She developed her doctoral research at LRAP (Advanced Petroleum Recovery Laboratory) and today works mainly using MICP, NMR, and X-ray microtomography techniques. The second name is Bruno Valle, master in petrophysics (UFRJ), who currently works in 3R Petroleum.

The group members understood the need to learn about introductory petrophysical concepts, so we are getting with Gilberto Raitz about offering a mini-course for the chapter members. We had good feedback from all members.

UIS STUDENT CHAPTER

**SPWLA UIS**  
**STUDENT CHAPTER**  
**COLOMBIA**

Social Networks:  
 @SPWLAUIS  
 Instagram/ YouTube/ LinkedIn/ Facebook

Board of Directors

- **President:** Ana Karina Barrozo N
- **Vice President:** Kevin Yesid Lozano S.
- **Fiscal:** Iván Danilo Amado P
- **Secretary:** Valentina Parra H.
- **Treasurer:** Stefany Gabriela Peñaranda G.

Recent Events

**26 July 2024—Change in the Board of Directors:** The recent change of the board of directors in the SWPLA UIS Student Chapter marks a new chapter in the organization, with a renewed team full of enthusiasm to continue the legacy of their predecessors. The previous board of directors, led by Karen Rojas as President, Julian Anaya as Vice President, Stefany Peñaranda as Fiscal, Angy Roman as Secretary, and Lizeth Blanco as Treasurer, played a crucial role in the growth and consolidation of the chapter, achieving important advances in the planning of activities, events, and collaborations. Now, under the leadership of Ana Barrozo as the new President, the incoming board of directors seeks to continue and expand on the achievements made. Kevin Lozano assumes the position of Vice President, Ivan Amado as Fiscal, Valentina Parra as Secretary, and Stefany Peñaranda, who continues her service to the organization, is now Treasurer. This new team is committed to propelling the chapter to new heights with fresh ideas and a renewed focus on the professional and personal growth of its members. The SWPLA UIS community is looking forward to the new projects and opportunities that this board will bring, and they are confident that they will continue to strengthen the spirit of collaboration and excellence that characterizes the chapter.

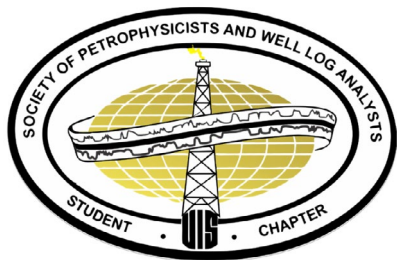
Upcoming Events

**9–13 September 2024—International Week of Underground Energy Resources:** During the International Week of Underground Energy Resources, the SPWLA UIS Student Chapter will participate and strengthen its presence and awareness among the academic community. Through a series of booths and interactive activities, chapter members will engage students, encouraging them to learn more about the chapter’s mission and initiatives. The booths will be designed to showcase the different areas of interest covered by SPWLA UIS, including petrophysical interpretation, reservoir characterization, and advanced technologies for subsurface analysis. We will carry out dynamic activities that encourage active participation of attendees, allowing them to experience first-hand the relevance and impact of the work being done by the chapter.



The agenda of the event:

AGENDA <small>Sujeto a cambios o modificaciones</small>				
LUNES 9 de septiembre	MARTES 10 de septiembre	MIÉRCOLES 11 de septiembre	JUEVES 12 de septiembre	VIERNES 13 de septiembre
Curso para profesionales Cursos para estudiantes (8:00 am - 5:00 pm)	Conferencia magistral (2:00 pm - 4:00 pm)	VIII Simposio de investigación en Hidrocarburos (Panorama, Conferencia magistral) (8:00 am - 12:00 m)	VIII Simposio de investigación en Hidrocarburos (Panorama, Conferencia magistral) (8:00 am - 12:00 m)	EIP insights (Experiencias de egresados EIP) (9:00 am - 10:30 am)
	Acto de inauguración - Celebración 70 años EIP (5:00 pm - 7:00 pm)	Talleres HV y Jornadas de reclutamiento empresarial (2:00pm - 5:00 pm)	Foro (Academia - industria - estado) (3:00pm - 5:00 pm)	Retirerito
		Muestra Académica y de Investigación (4:00 pm - 6:00pm)	Comemoración Universidades Petroleras (Magistral) (5:00pm - 6:00 pm)	Emprendedores EIP El Reto (Promoción) (10:30 am - 12:00 pm)
			Open LAB Capexión petrofísica Petrofísica (8:00 am - 2:00 pm)	Almuerzo egresados
				Reconocimiento a egresados y empresas (4:00 pm - 6:00 pm)
				Celebración 70 años EIP (7:00 pm - 1:00 am)



SPWLA UIS/ Social Networks.

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

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

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

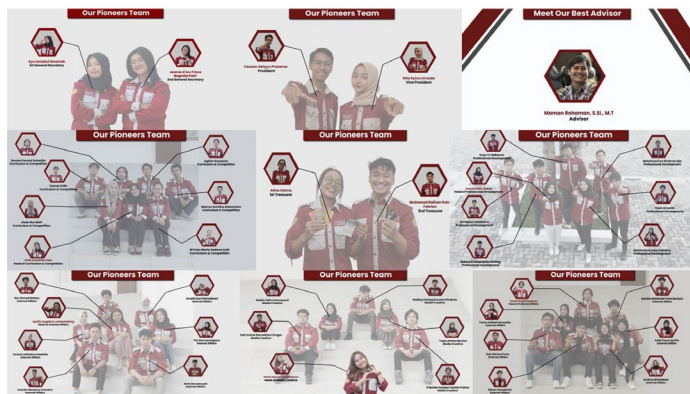
Facebook: <https://es-la.facebook.com/SPWLAUIS/>

**UPN “VETERAN” YOGYAKARTA STUDENT CHAPTER**

**General News**

January 1, 2024, marks the official launch of the SPWLA UPN “Veteran” Yogyakarta Student Chapter. Under the leadership of President Fauzan Abiyyu Pratama and Vice President Dita Syiva Urnada, SPWLA UPN SC introduced its first cabinet consisting of 41 administrators from the Geophysical Engineering, Petroleum Engineering, and Geological Engineering Departments. We are committed to being a dynamic and collaborative self-development platform that will prepare future leaders in the fields of well logging, petrophysics, and geosciences, with a focus on scientific synergy and professionalism. We have six departments of SPWLA UPNVY SC. They include an executive committee consisting of an Advisor, President, Vice President, General

Secretary, and Treasurer. Other departments are Internal Affairs, External Affairs, Professional Development, Curriculum & Competition, and Media Creative.



New Officer and Department of SPWLA UPN “Veteran” Yogyakarta SC.

**Recent Events  
Sharing Session Vol. 1**



Sharing Session with Mr. Syukron Ady Purnawiranto (Halliburton).

**27 April 2024**—At the Nyi Ageng Serang Building, UPN “Veteran” Yogyakarta Campus, we were proud to hold Sharing Session Vol. 1 with the theme “The Critical Role of Petrophysics in Oil and Gas.” This event featured Mr. Syukron Ady Purnawiranto (performance development coordinator at Halliburton and Vice President of SPWLA Indonesia) as the main speaker. In this session, Mr. Syukron shared in-depth insights about the role of petrophysics in the oil and gas industry, presented innovative ideas, and offered valuable experiences from the perspective of a seasoned professional. Participants had the opportunity to delve into challenges and opportunities in the field, as well as practical ways to overcome problems in petrophysical analysis.



Short Courses Vol. 1



Short Courses Vol. 1 with Mrs. Rr. Desi Kumala Isnani, ST, M.Eng.

**28 April 2024**—We were proud to host Short Courses Vol. 1 at the Nyi Ageng Serang Building, UPN “Veteran” Yogyakarta Campus, with the theme “Fundamentals of Petrophysics.” This event featured Mrs. Rr. Desi Kumala Isnani, ST, M.Eng., a lecturer in the field of petrophysics, as the main speaker. The program was designed to deepen participants’ understanding and skills in a short period of time, providing valuable insights from an expert. We learn about the fundamentals of gamma ray, density-neutron, resistivity, sonic, and caliper logging.

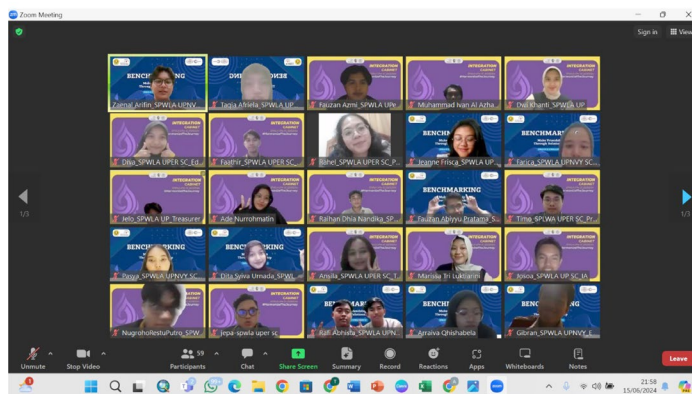
Petrophysics Week

Petrophysics Week with expertise from various companies.

Petrophysics Week was a series of events designed to deepen understanding of petrophysics in the petroleum industry, with the overarching theme “Numerical Insights Into Subsurface Mysteries: Exploring Petrophysics.” Over 3 inspiring days, we presented a series of sessions that explored important aspects of petrophysics.

- 24 May 2024**—We featured the theme “Basic Carbonate Petrophysics: Unraveling the Subsurface Mysteries” with Mr. Julianta Panjaitan, senior petrophysicist (PT) (Medco Energy International, Tbk), as the speaker. In this session, Mr. Julianta provided in-depth insights into carbonate petrophysics and analytical techniques to understand the characteristics of underground formations.
- 30 May 2024**—The second day focused on the theme “Exploring the Fundamentals: An Introduction to Petrophysics in the Oil and Gas Industry,” presented by Mr. Faisal Farizi, geologist (Pertamina Hulu Sanga-Sanga). Mr. Faisal introduced the basics of petrophysics and its application in the oil and gas industry, providing practical guidance for participants who wanted to understand the foundations of this science.
- 31 May 2024**—The final session was on “Fundamental Petrophysics for Reservoir Characterization,” led by Mr. Didit Kusuma, senior petrophysicist (ADNOC Offshore). This session explored how petrophysics is applied in reservoir characterization, presenting techniques and methods essential for effective reservoir evaluation.

Benchmarking

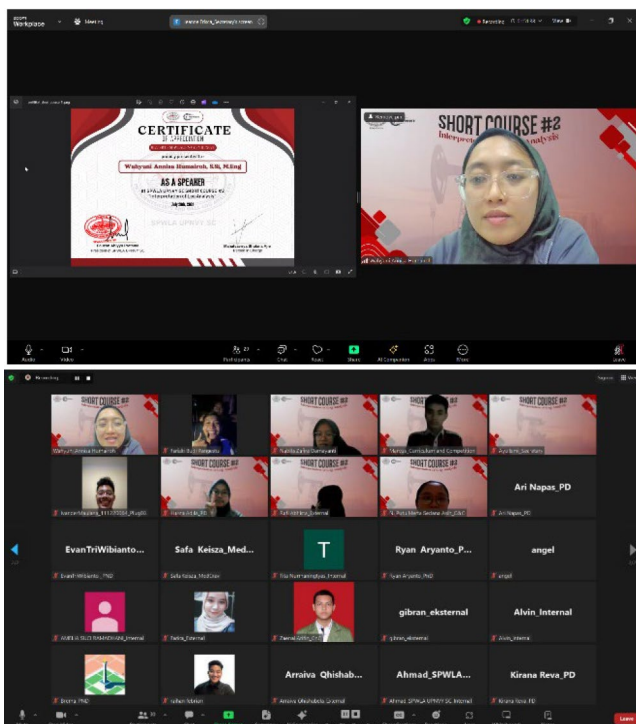


Benchmarking SPWLA UPN “Veteran” Yogyakarta SC with SPWLA Pertamina University SC.

**15 June 2024**—We were happy to hold benchmarking activities with the SPWLA Pertamina University Student Chapter via the Zoom platform. This event was a valuable opportunity to share experiences, best practices, and

management strategies between the two chapters that supported and learned from each other. In this session, we discussed various important aspects, from program development and implementing activities to innovations in increasing member involvement. We also gained valuable insights into how to enhance effectiveness and collaboration between chapters.

## Short Courses Vol. 2



Short Courses Vol. 2 with Mrs. Wahyuni Annisa Humairoh, S.Si., M.Eng.

**29 July 2024**—To deepen our understanding of log interpretation and analysis, we were enthusiastic about organizing Short Course Vol. 2 with the theme “Interpretation of Log Analysis.” This event was conducted virtually via Zoom, giving participants the flexibility to join from anywhere. We were very fortunate to present Mrs. Wahyuni Annisa Humairoh, S.Si., M.Eng., an experienced lecturer in geological engineering at UPN “Veteran” Yogyakarta, as the main speaker. This session was designed to provide in-depth insights and practical skills in geophysical log analysis. The speaker shared valuable knowledge about log interpretation techniques and the challenges faced in practice. Participants had a rare opportunity to learn directly from an expert, enriching their analytical and interpretive skills in petrophysics

## Upcoming Events

### October 2024—Visit Company – Pertamina Hulu Energy:

Visit Company is a visiting activity to leading companies in the oil and gas sector. This event will be a collaboration between SPWLA UPN SC and SEG UPN SC, who will conduct a company visit to Pertamina Hulu Energi in mid-October. Participants will get a rare opportunity to learn directly about various critical aspects of the oil and gas industry through in-depth sessions. These will include a basic understanding of processes and technologies in oil and gas resource development, techniques and methods in core description and well-log analysis to evaluate reservoirs effectively, and seismic interpretation techniques to identify underground structures and reservoir potential. These visits will be designed to provide practical insights and valuable knowledge, allowing students to connect the theory learned in the classroom with real-world applications in the field.

## THE UNIVERSITY OF TEXAS AT AUSTIN STUDENT CHAPTER

### General News

The SPWLA UT Austin Student Chapter held multiple events during July–August 2024. The board also prepared many creative event ideas for the upcoming academic new year.

### Recent Events

- 1 August 2024—Collaboration With Jackson School of Geoscience:** To strengthen interdisciplinary collaboration, the SPWLA Student Chapter at UT Austin partnered with Jackson School of Geosciences. Taufic Al Amin, representing geologists and geoscientists, joined the team.
- 15 August 2024—Petroleum and Geosystems Engineering (PGE) Students Orientation:** The orientation for new PGE students featured an engaging introduction to SPWLA by Dalma Cerro (President), Mariella El Khoury (Vice President), and Abraham Mantes (Volunteer). Their presentation received positive feedback, leading to the enrollment of 15 new SPWLA members.
- 15 August 2024—Gone to Engineering:** UT SPWLA collaborated with the Cockrell School of Engineering at UT Austin to introduce SPWLA to engineering students outside PGE. Dalma Cerro and Mariella El Khoury presented an introduction about SPWLA to students from various engineering fields.

Upcoming Events

19 September 2024—First general meeting with Chevron as a workforce initiative partner with UT PGE.



Dalma Cerro and Abraham Montes presented during the PGE orientation session.



New students in attendance at the SPWLA presentation at the PGE orientation session.





# SPWLA ANNOUNCEMENTS

SEPTEMBER 2024

## New Technology Column (NTC) Announced for *Petrophysics* Journal

We are thrilled to introduce the New Technology Column (NTC) in the *Petrophysics* journal, which aims to serve as a vibrant platform for showcasing cutting-edge technologies that will benefit the entire petrophysics community. Our primary objective is to bridge the gap between technology developers and petrophysicists. Through the NTC, we seek to provide a stage for technology developers to present their innovations to a broad audience, both within and outside the industry. Additionally, we want to educate our readers about the latest technologies, their functionalities, and how they can address various business challenges.

Each NTC article will emphasize several key components to ensure they are informative and engaging. An NTC will clearly define the objectives of the technology, explain its working mechanism to foster knowledge sharing, encourage practitioners to test and implement it, and provide practical examples that demonstrate its application in real-world scenarios. Furthermore, an NTC will include references for readers interested in exploring the technology in greater depth.

Check out the NTCs from Equinor and Geolog/DrillTech from the August issue of *Petrophysics* to get an idea of how an NTC might work for your technology: <https://www.spwla.org/SPWLA/Publications/New-Technology/New-Technology.aspx>

Do you want to include an NTC in the next issue of the *Petrophysics* journal, or do you have questions? Contact S. Mark Ma, VP Publications and Chief Editor of *Petrophysics*, for more information at [vp-publications@spwla.org](mailto:vp-publications@spwla.org).

## SPE Recognizes SPWLA VP Publications and Chief Editor of *Petrophysics* Journal With Its Formation Evaluation Award

The Society of Petroleum Engineers (SPE) recently announced the winners of this year's International Award recipients, to be recognized during the Annual Awards Banquet at the 2024 SPE Annual Technical Conference and Exhibition in New Orleans in September 2024.

The SPE International Awards honor individuals who have made significant technical and professional contributions to the petroleum engineering profession and the worldwide oil and gas industry.

SPWLA VP Publications and Chief Editor of the *Petrophysics* journal, Dr. S. Mark Ma, has been recognized with the SPE International Formation Evaluation Award—the highest technical honor that SPE presents to a Petrophysicist, to recognize his outstanding achievement and contributions to the advancement of petroleum engineering in the area of formation evaluation.

***Congratulations, Mark, on this outstanding achievement!***



# SPWLA ANNOUNCEMENTS

## SEPTEMBER 2024

### New Chapter Announced in Vietnam

Dear Members and Friends of the SPWLA,

We are thrilled to announce the establishment of a new chapter of SPWLA in Vietnam (VNFES). This marks a significant milestone in our ongoing mission to advance the science of petrophysics and well-log analysis across the globe. The creation of the Vietnam Chapter not only extends our reach but also fosters a spirit of collaboration, innovation, and professional development within Vietnam's vibrant and growing energy sector.

Vietnam's strategic importance in the global energy landscape cannot be overstated, with its rich natural resources, burgeoning oil and gas/CCS/CCUS industry, and a community of highly skilled professionals. The new SPWLA Vietnam Chapter will serve as a hub for knowledge sharing, technical training, and networking opportunities, enabling members to stay at the forefront of industry advancements and best practices.

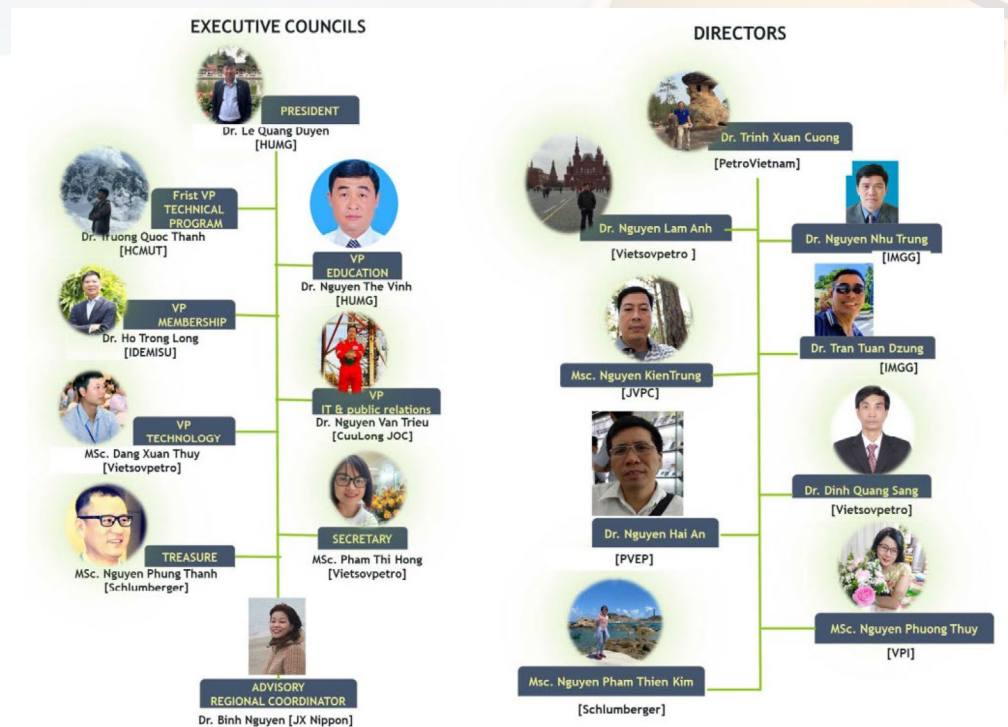
We are confident that VNFES will play a pivotal role in promoting research, education, and technical excellence. By bringing together experts, academics, and industry leaders, VNFES will facilitate invaluable exchanges of ideas and experiences. It will also provide a platform for young professionals and students to engage with seasoned practitioners, fostering the next generation of petrophysicists and well-log analysts.

We extend our heartfelt congratulations to the founding members and board members of the SPWLA Vietnam Chapter. Also, special thanks go to Dr. Binh Nguyen for her initiative to create the chapter. Your dedication and hard work have made this vision a reality. As we embark on this exciting journey together, we look forward to your active participation and support in building a dynamic and impactful community.

Welcome to the SPWLA family, Vietnam! Together, we will continue to push the boundaries of petrophysical science and contribute to the sustainable development of our industry.

Facebook: <https://www.facebook.com/share/izzgATChDXtdUxbh/?mibextid=qj2Omg>

Email: [Spwla.vnfes@gmail.com](mailto:Spwla.vnfes@gmail.com)



## Welcome New Members – June 13, 2024 – August 19, 2024

**Akinyemi, Oluwaseun**, University of Houston, Houston, TX, United States

**Alimahomed, Farhan**, FarFrac LLC, Midland, TX, United States

**AlTawash, Feras**, Bapco Upstream, Janabiya, Saar, Bahrain

**Athanasiades, Athanasios**, Baker Hughes, Houston, TX, United States

**Bate, Boris**, Addax Petroleum Cameroon Company, DOUALA, Littoral, Cameroon

**Bush, Brandon**, ExxonMobil, Spring, TX, United States

**Cheng, Min**, Stratum Reservoir, Houston, TX, United States

**Colacelli, Santiago**, SLB, Houston, TX, United States

**Diwakar, Kumar**, SLB, Aberdeen, United Kingdom

**Dutta, Debabrata**, Haldia Petrochemicals Limited, Kolkata, India

**Hinz, Christian**, Math2Market GmbH, Kaiserslautern, RLP, Germany

**Jackson, Adam**, Baytex Energy, Katy, TX, United States

**Jee, Jassica**, ConocoPhillips, Kuala Lumpur, Malaysia,

**Kraakvik, Setyati Rini**, Oil and Gas, Stjoerdal, Troendelag, Norway

**Powell, Garrett**, Galvanic Energy, Yukon, OK, United States

**Prashant, Ajeet**, SLB, Sceaux, France

**Reynolds, Amanda**, Tallgrass Energy, Houston, TX, United States

**Sandunil, Kushan**, Curtin University, Miri, Sarawak, Malaysia

**Shaheen, Ahmed**, University of Texas at Austin, Riyadh, Saudi Arabia

**Soulas, Sebastien**, Avalon Sciences Ltd, Langport, Somerset, United Kingdom

**Suleiman Khel, Naveed**, Antonoil Services, Islamabad, Pakistan

**Van Der Loop, Mary**, University of Houston, Flatonia, TX, United States

**Wu, Hung-Yu**, National Cheng Kung University, Tainan, Taiwan

**Yu, Huiyuan**, Baker Hughes, Beijing, China



