SOCIETY OF PETROPHYSICISTS AND WELL LOG ANALYSTS

66TH ANNUAL SYMPOSIUM

SPWLA

DUBAI 2025

DUBAI, UNITED ARAB EMIRATES | **MAY 17-21, 2025**

2025 Symposium Organizing Committee

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Invitation for SPWLA-2025, Dubai, 17-21 May 2025

Dear SPWLA and Oil-Gas-Energy Industry Colleagues,

On behalf of the Dubai host committee SPWLA-2025 and Chapter of the Society of Petrophysicists and Well Log Analysts (SPWLA), it gives me great pleasure to invite you to participate in the 66th SPWLA International Symposium, which will take place from 17th to 21st May 2025 in Dubai, United Arab Emirates. It will be under the theme of **"Technology, Integration and Innovation for Future Energy Era",** the Dubai event will mark the interesting time that the International SPWLA Symposium will be held in a region that sits on over 56% of the world's reserves of oil.

The conference will consist of three days of technical sessions focusing on formation evaluation of conventional and unconventional reservoirs, new technology/advanced of logging, new technology in subsurface (geophysical, geological, petrophysical and reservoir), artificial intelligent (AI), carbon capture utilization and storage (CCUS), high angle well evaluation, real-time decision-making, cased-hole, production logging, reservoir surveillances, Integrated reservoir characterization, enhanced oil recovery (EOR) and sandstone/carbonate reservoirs case studies from exploration, appraisal to development stages.
Pre-conference workshops and field trips will also be organized to create more focused and interactive educational opportunities.

An industry exhibition will run in parallel with the conference, providing an excellent platform for organizations to showcase their products and services to provide petrophysicists, well log analysts, subsurface/reservoir engineer that will convey the messages in Dubai symposium from all over the world.

Value-driven sponsorship packages are also available, designed to provide maximum exposure to our partners. We are committed to deliver an exceptional event in the long history of SPWLA to provide all our industry partners with maximum return on their investment.

We look forward to your support and participation

Thanks & Regards
Muhammad A Gibrata, PhD
Chairman of SPWLA-Dubai & Host Annual SPWLA-2025 Symposium

SYMPOSIUM HIGHLIGHTS

All functions will be held at Hilton Habtoor Hotel, Dubai, UAE unless otherwise indicated. Please confirm exact location and timing prior to event from information provided at registration.

Saturday, May 17 – 8:00am – 4:30pm

Registration
Field Trip: Jebel Hafeet Mountain (Dubai-Al Ain & Mercury: 6.30AM-4.30 PM, led by Hasan & Magdy.
Workshop 1: Fundamentals of Formation Testing – Acquisition, Data and Analysis
Workshop 2: Introduction to Borehole Image Log Data Analysis
Workshop 3: New Advances in NMR Techniques and Applications
Workshop 5: Petrophysics in the Energy Transition

Sunday, May 18 – 8:00am – 4:30pm

Registration
Workshop 4: Uncertainty and Petrophysics
Workshop 7: Cased-hole Nuclear Logging- Basics, Advances, and Novel Applications
Workshop 9: Petrophysics Intelligence and Automation with Python, Machine Learning, and Gen AI
Workshop10: The Importance of Petrophysics in Resources, Reserves and Storage Estimation and Overview of PRMS and SRMS
Student Paper Competition (ISPC)
Speaker Preparation Center
Technology Committee Meeting
Icebreaker Reception

Monday, May 19 – 7:00am – 5:25pm

Speaker Meeting with VP Technology and Session Chairs
Speaker Preparation Room
Registration
Exhibition
Opening Remarks and Keynote Address
Spouse/Partner Tour: Dubai Tour
Dual Technical Sessions AM
Annual Business Meeting and Lunch
Dual Technical Sessions PM
Poster Session Area
Monday Evening Social Event 6:30pm – 9:30pm

SYMPOSIUM HIGHLIGHTS

Tuesday, May 20 – 7:00am – 5:15pm
Speaker Meeting with VP Technology and Session Chairs
Speaker Preparation Room
Registration
Exhibition
Spouse/Partner Tour: Abu Dhabi Tour
Dual Technical Sessions AM
Awards Ceremony Luncheon
Dual Technical Sessions PM
Poster Session Area
Tuesday Evening Social Event 6:30pm – 9:30pm

Wednesday, May 21 – 7:00am – 4:40pm
Speaker Meeting with VP Technology and Session Chairs
Speaker Preparation Room
Registration
Exhibition: 8:30am – 3:00pm
Spouse/Partner Tour: Sharjah Tour
Dual Technical Sessions AM
Leadership Luncheon
Dual Technical Sessions PM
Closing Remarks and Door Prize Drawing

Thursday, May 22 – 8:00am – 5:00pm (Post Symposium)
SPWLA China Chapter Conference

GENERAL INFORMATION

Note: All events will take place at Hilton Habtoor Hotel, Dubai, UAE unless indicated otherwise.

REGISTRATION
Registration for all attendees, spouses and guests will be located in the Hilton Habtoor Hotel (Lobby)

DATE AND TIME:

Saturday, May 17	7:00 a.m. - 5:00 p.m.
Sunday, May 18	7:00 a.m. - 5:00 p.m.
Monday, May 19	7:00 a.m. - 5:00 p.m.
Tuesday, May 20	7:30 a.m. - 5:00 p.m.
Wednesday, May 21	7:30 a.m. - 12:00 noon

STUDENT PAPER COMPETITION
Sunday, May 18. 8:00 a.m. – 5:00 p.m.
Papers will be judged and cash prizes will be awarded to the winners at the end of the competition. Students are encouraged to attend the Tuesday luncheon to be recognized during the Annual Awards Ceremony.

EXHIBITION
Hilton Habtoor Hotel Foyer
Exhibit hours are:

Monday	8:30 a.m. - 5:00 p.m.
Tuesday	8:30 a.m. - 5:00 p.m.
Wednesday	8:30 a.m. – 3:00 pm.

Please note: For safety consideration, no one under the age of 13 will be allowed in the exhibit hall.

OPENING SESSION AND KEYNOTE ADDRESS
Monday, May 19, 8:00 a.m.
Join us as General Chair, Muhammad A, Gibrata delivers the SPWLA 66th Annual Logging Symposium opening remarks and the introduction of Keynote Speaker. Immediately following the address, SPWLA Vice President of Technology, Harry Xie will officially open the technical sessions.

GENERAL INFORMATION

SPEAKER MEETING WITH VP TECHNOLOGY AND SESSION CHAIRS
Pre-conference meeting for All Speakers and Session Co-Chairpersons on the morning of your presentation. The Committee will have a Q&A session, test the equipment, and explain the program procedures.
Monday through Wednesday, 7:00 a.m. – 8:00 a.m.

SPEAKER PREPARATION CENTER
All speakers are encouraged to view their presentation in the Preparation Center and have their file checked by the projectionist at their earliest convenience. The Preparation Center will provide a computer for speakers to load their PowerPoint® presentations onto the symposium's computer network and verify compatibility and consistency with the system. The Preparation Center is open Sunday 9:00 a.m. to 5:00 p.m., Monday through Wednesday, 7:00 a.m. to 5:00 p.m.

POSTER PRESENTATIONS
Posters are on display Monday and Tuesday with a dedicated session each day.

EXHIBITORS


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EXHIBITOR LOCATION

Organization Name	Booth Assigned Number
Baker Hughes	A12
Beijing Limecho Technology Co	B8
China Oilfield Services	A3
EPSLOG	B4
Eriksfiord	B3
Gaia Earth Group	A6
Geoactive Limited	B1
Geolog	A10
GOWell	B7
Halliburton	A13
KAPPA Engineering	A1
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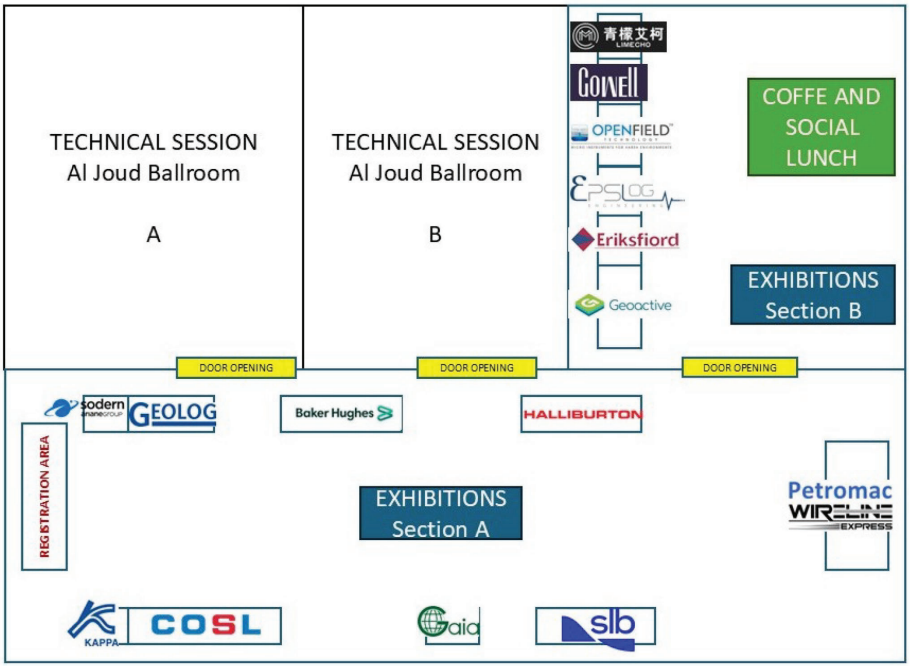
SODERN	A9



SPONSORS

We would like to express our heartfelt gratitude to our generous sponsors, whose unwavering support plays a crucial role in making our event a true success. Their contributions have helped bring our vision to life, and we are deeply grateful for their partnerships.

PLATINUM

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TECHNICAL PROGRAM

May 17-21, 2025

NOTE: All technical sessions will be held at the **Hilton Hotel and Conference Center, Dubai Al Habtoor City.** *Photography and video/audio recording of any kind are strictly prohibited in all areas, including technical sessions, workshops, and exhibition hall.*

MONDAY – May 19th

8:00am **Opening Remarks -** Chairman - Muhammad A. Gibrata, Dragon Oil
8:15am **Keynote Speaker**
9:00am **Introduction of Technical Sessions –** Vice President of Technology – Z. Harry Xie
9:15am ***Break (10 mins)***

Session 1 (Al Joud Ballroom A)
New Technologies and Applications
Chairpersons: **Sharon Finlay (North Oil Company Qatar) and Matthew Blyth (SLB)**
Sponsored by: **SLB**

9:25am **SPWLA-2025-0001 Enhancing Mud Pulse Telemetry Performance in Deep Drilling Using Advanced Signal Processing and Deep Learning Techniques**
Songwei Zhang and Jie Shang, China Oilfield Services Limited; Wei Chen, University of Electronic Science and Technology of China; Zhiming Wang, China Oilfield Services Limited

9:45am **SPWLA-2025-0002 An Underground Reservoir Resistivity Monitoring System for CO2 Reservoir Characterization**
Shanjun Li and Weishan Han, Geoprance LLC

10:05am **SPWLA-2025-0003 Enhancing Electrofacies Prediction With Fuzzy Logic: A Pathway to Improved Subsurface Characterization**
Luis Miguel Rojas, Manuella Yebra, Lilian S. Souza, ENEVA S.A.; Frederico S. De Miranda, ENEVA S.A. and ABGP; José Roberto Barbosa Corrêa and Vinicius Veríssimo Nobrega de Oliveira, ENEVA S.A.

10:25am **SPWLA-2025-0004 A Novel Correction of Array Induction Logging Data for Horizontal Wells in Tight Sandstone Reservoirs**
Ping Qiao and Lei Wang, China University of Petroleum (East China); Yingming Liu, PetroChina; Xiaokai Xu and Xiyong Yuan, Sinopec Matrix Corporation; Fuhua Cao, China University of Petroleum (East China)

Session 2 (Al Joud Ballroom B)
Formation Evaluation of Unconventional Reservoirs (I)
Chairpersons: **Guangzhi Liao (China University of Petroleum (Beijing)) and Kris Farmer (Core Laboratories)**

TECHNICAL PROGRAM

9:25am **SPWLA-2025-0005 Quantification of Mechanical Integrity of Clay Minerals in Clay-Rich Rocks Under CO2 Geological Storage**
Jamil El-Masry, Ibrahim Gomaa, and Zoya Heidari, The University of Texas at Austin; Elsa Maalouf, American University of Beirut

9:45am **SPWLA-2025-0006 Quantifying the Impacts of Spatial Distribution and Petrophysical Properties of Clay Minerals on the Multifrequency Complex Dielectric Permittivity of Shaly Sandstones**
Mariella Khoury, Zulkuf Azizoglu, and Zoya Heidari, The University of Texas at Austin

10:05am **SPWLA-2025-0007 Complex Permittivity of Shale and Brine: Core Analysis Results and Interpretation**
Sean Dolan, Nishank Saxena, and Ronny Hofmann, Shell; Matthew Josh, CSIRO

10:25am **SPWLA-2025-0008 Dual Independent Oval Pads (DIOP) Platform for Testing Wide Range of Complex Reservoirs**
Moutaz Abdein, Gibran Hashmi, Carlos Eduardo, Tony van Zuilekom, Robert H. Gales, M S Iyer, and Sarvagya Parashar, Halliburton

10:45am ***Break (10 mins)***

Session 3 (Al Joud Ballroom A)
NMR Technology and Applications - High or Low Fields, Pores and Fluids (I)
Chairpersons: **Radu Coman (Baker Hughes) and Christoph Arns (University of New South Wales)**
Sponsored by: **Baker Hughes**

10:55am **SPWLA-2025-0009 Petrophysical Characterization of Secondary Organic Matter and Hydrocarbons in the Early Jurassic Formation Using Laboratory NMR Techniques**
Abdul Mohsen Al Mershed, Asmaa Al Hammadi, Hawraa Baqer, and Mihira Narayan Acharya, Kuwait Oil Company; Z. Harry Xie, Phil Hawley, and Christie Woodroof, Core Laboratories; Sean Dolan and Matthias Appel, Shell

11:15am **SPWLA-2025-0010 Real Time Data Inversion Uncertainty Estimation of NMR Logs**
Wei Shao and Songhua Chen, Halliburton; Gabor Hursan and Shouxiang Mark Ma, Saudi Aramco

11:35am **SPWLA-2025-0011 Discrete Inversion Method for Nuclear Magnetic Resonance Data Processing and Its Applications to Fluid Typing and Quantification**
Jun Gao, Hyung Kwak, and Gabor Hursan, Saudi Aramco; Stacey Althaus, Aramco Americas

11:55am **SPWLA-2025-0012 Study of Rock Physical Properties Characterization Methods in Porous Media Using Ultrashor Relaxation MRI**
Zhenshuo Ma, Yan Zhang, and Lizhi Xiao, China University of Petroleum

TECHNICAL PROGRAM

Session 4 (Al Joud Ballroom B)

Integrated Open Hole Formation Evaluation

Chairpersons: **Atef Abdelaal Bekhiet (ADNOC) and Nate Bachman (SLB)**

Sponsored by: **COSL**

10:55am **SPWLA-2025-0013 Tortuosity Assessment for Reliable Permeability Quantification Using Integration of Hydraulic and Electric Current Flow in Complex Carbonates**
Dalma Arrieta, Zulkuf Azizoglu, Pallavi Sahu, and Zoya Heidari, The University of Texas at Austin; Plinio Câncio, Petrobras

11:15am **SPWLA-2025-0014 Synergy of Intelligent Wireline Formation Testing Platform Together With Drill Stem Testing to Unlock Hydrocarbon Potential in Asia Greenfield**
Dennis Ling, Saifon Daungkaew, Morten Kristensen, Chiara Cavalleri, Hugo Espinosa, Adriaan Gisolf, Anup Thorat, and Mahmut Sarili, SLB; Shae Nee Cheng, Choon Ling Chua, Ahmad Nuzley Azwa, Muhammad Ashraf Abu Talib, and Eghbal Motaei, PETRONAS Carigali Sdn

11:35am **SPWLA-2025-0015 Integration of Artificial Intelligence Into EFDT Formation Testers**
Qiang Yu, Xiaodong Chu, Kong Sun, Yang Shen, Minggao Zhou, Xiaofei Qin, Yanmin Zhou, Zhongli Bao, and Youxiang Zuo, China Oilfield Services Ltd. (COSL)

11:55am **SPWLA-2025-0016 New Insights Into the Understanding of Sand Injectite Complexes, Using Advanced Log Data, Ultradeep Resistivity Inversions and Outcrop Field Observations**
Sayyid Ahmad, Halliburton; Joanna Mouatt, Aker BP; Gianbattista Tosi, Halliburton; Fanny Dominique Marcy, Aker BP; Nigel Clegg, Halliburton

12:15 – 1:40pm **LUNCH (Annual Business Meeting) – (Amazing Room)**

1:45pm ***Break (5 mins)***

Session 5 (Al Joud Ballroom A)

Novel Applications of Data Analytics, Machine Learning, and AI

Chairpersons: **Lizhi Xiao (China University of Petroleum (Beijing)) and Jackie Kechichian (Shell)**

1:50pm **SPWLA-2025-0017 Assessment of Textural Heterogeneity Tensor Using 3D Micro-CT-Scan Images**
Pallavi Sahu, Dalma Arrieta, and Zoya Heidari, The University of Texas at Austin; Plinio Cancio Rocha da Silva, Petrobras

2:10pm **SPWLA-2025-0018 Data-Driven Methodologies for Enhancing Efficiency and Accuracy in Wireline Formation Testing**
Marcelo Abbehusen Magalhães and Lucas Abreu Blanes de Oliveira, Petrobras - Petróleo Brasileiro S.A.; Marcos Kalinowski, PUC-Rio - Pontifícia Universidade Católica do Rio de Janeiro

TECHNICAL PROGRAM

2:30pm **SPWLA-2025-0019 A Method of Perforation Depth Investigation Using Borehole Acoustic Logging**
Li Zhang, Wen Chen,and Yue Liu, China National Logging Corporation (CNLC) CNPC; Chao Zhang, Harbin Institute of Technology; Xuekai Sun, Kun Shao, Xiqiang Li, Siyi Li, Hao Sun, Ran Zhang, and Qi Zhang, China National Logging Corporation (CNLC) CNPC

2:50pm **SPWLA-2025-0020 A Missing Well-Logs Generation Method Based on Generative Adversarial Networks Models**
Junxia Shi and Guangzhi Liao, and Lizhi Xiao, China University of Petroleum (Beijing); Jun Zhou, Juan Zhang, and Yubo Liu, China National Logging Corporation; Haishan Liu, China Oilfield Services Limited

3:10pm **SPWLA-2025-0030 Pore Network Characterization Utilizing LWD Acoustic Pore Aspect Ratio and NMR Rock Typing for Enhanced Well Placement**
Endurance Ighodalo and Shouxiang Mark Ma, Saudi Aramco; Marie Van Steene, SLB

Session 6 (Al Joud Ballroom B)
Energy Transition: New Technology and Applications
Chairpersons: **Min Cheng (Stratum Reservoir) and Amr Mohamed Serry (ADNOC)**
Sponsored by**: Halliburton**

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1:50pm **SPWLA-2025-0022 Impact of CO_2 Cooling on Fluid Mobility in Shale: A T2 Tomography Study**
Dong Xu and Jing Lu, State Key Laboratory of Shale Oil and Gas Enrichment Mechanisms and Effective Development; Bo Liu and Jiahui Zhang, Northeast Petroleum University; Junlei Su and Kun Liu, State Key Laboratory of Shale Oil and Gas Enrichment Mechanisms

2:10pm **SPWLA-2025-0023 Measuring Ultrasonic Velocities and Attenuation of H2 and CO2-Saturated Sands for Deep Saline Reservoirs**
Gabriel C. Unomah, Mohammed S. El-Tayeb, Michael T. Myers, and Lori Hathon, University of Houston; David M. Myers, Metarock Laboratories

2:30pm **SPWLA-2025-0024 Comparative Study of Oilfield Chemicals, Polymers, and Nanoparticles for Hydrogen Gas Foam Formation in Subsurface Storage Applications**
Shruti Joshi and Eziulo Ibe, Baker Hughes; Krishna Raghav Chaturvedi and Tushar Sharma, Rajiv Gandhi Institute Of Petroleum Technology

2:50pm **SPWLA-2025-0025 Impact of CO_2 Storage Time on the Physicochemical and Mechanical Properties of Sandstone Formations: Insights for Long-Term CCS Applications**
Musa E. M. Ahmed and Deniz M. Paker, University of Houston; Joe Ramoin and Stephen Drylie, Core Laboratories; Birol Dindoruk, University of Houston

TECHNICAL PROGRAM

3:10pm **SPWLA-2025-0026 Assessing Magnetic Methods for Estimating Mineral Content of Rocks in Northern Alberta**
Elena Y. Temnikova and David K. Potter, University of Alberta; Arfan Ali, Saudi Armaco

3:30pm ***Break (5 mins)***

Session 7 (Dahlia Room)
Poster Session 1 (3:35pm – 4:05pm)
Chairpersons: **Bo Liu (Northeast Petroleum University), Thanapala Singam Murugesu (Petronas) and Hyung Tae Kwak (Saudi Aramco)**
Sponsored by: **ADNOC**

3:35pm **SPWLA-2025-0027 Production Estimation With Advanced Logging While Drilling Data in High Temperature Offshore Metamorphic Condensate Gas Reservoir**
Fangfang Wu, SLB; Peichun Wang, Lei Xiong, and Renfeng Zhang, CNOOC Limited; Shenzhuan Li, Xiao Gu, Jinlong Wu, Xin Zhou, Changwei Qu, and Chandramani Shrivastava, SLB

3:35pm **SPWLA-2025-0028 Real-Time Mud Gas Analysis: Optimizing Well Completion, Fluid Composition Predications, and Comparison With PVT Data in Tight Carbonate Reservoir – West Kuwait**
Ahmad Shoebi, GEOLOG International; Meshael Jumah, Nami Al-Mutairi, and Meshal Abdul Hameed Al-Wadi, Kuwait Oil Company; Justin Fernandes and Oswaldo Klinger, GEOLOG International

3:35pm **SPWLA-2025-0029 Application of Effective Permeability Calculation Method Based on Time-Dependent Inversion of Resistivity While Drilling in Tight Formations in the East China Sea**
Zhang Hongwei, China Oilfield Services Ltd.; He Yuchun and Zhang Guodong, CNOOC Limited; Zhang Zhongqing, Hangzhou Sumay Technology Corp.; Lu Fawei, CNOOC Limited; Wei Jierui and Yin Lu, China Oilfield Services Ltd.; Xiong Anjie, CNOOC Energy Development

3:35pm **SPWLA-2025-0030 Pore Network Characterization Utilizing LWD Acoustic Pore Aspect Ratio and NMR Rock Typing for Enhanced Well Placement**
Endurance Ighodalo and Shouxiang Mark Ma, Saudi Aramco; Marie Van Steene, SLB

3:35pm **SPWLA-2025-0031 Novel Three-Dimensional Integrated Approach for Distal and Near-Wellbore Reservoir Characterization**
Omar A. Almulhim, Alawi A. Tarouti, Olusegun M. Akinyose, and Sharif M. Shalaby, Saudi Aramco; Amro Abdel-Halim, Sherif Ghadiry, and Mustafa Al Mubarak, SLB

3:35pm **SPWLA-2025-0032 Water Saturation Conundrum: Getting It Right Through the Recommended Best Practices in Dean-Stark Analysis**
Siti Najmi Farhan Zulkipli and Jamari M. Shah, PETRONAS Carigali Sdn Bhd

3:35pm **SPWLA-2025-0033 Utilization of a Cuttings-Based Advanced AI, Image, and Elemental Analysis Workflow to Improve Subsurface Knowledge and Regional Geological Definition: An Example From the Devonian Section, Awali Field, Onshore Bahrain**
Ezdeen Ibrahim, Bapco Upstream; Guy M. Oliver and Milton Sanclemente, Geolog

3:35pm **SPWLA-2025-0034 Unveiling Reservoir Potential With World's First 360° Wireline Microresistivity Imaging in Oil-Based Mud for 12.25-Inch Borehole**
Harish B. Datir, SLB; Joern Schuenemann, Harbour Energy Norge AS; Anup Thorat and Peter Schlicht, SLB; Iver Kjørsvik, Harbour Energy Norge AS; Stefan Lubeseder, Independent Consultant

3:35pm **SPWLA-2025-0035 3D Petrophysics: Applying Calibrated Anisotropic Rock Physics Model to the Acoustic Impedance and Vp Vs Ratio From Seismic Inversion to Estimate Porosity and Permeability**
Sergey Vorobiev, THREE60 Energy Asia; Mehdi Ghaneezabadi and Abdul Rahim Roslinawati, RocOil

3:35pm **SPWLA-2025-0036 A Pseudo-Extraction Efficiency Correction Method for Standard Mud Gas Data**
Cuthbert Shang Wui Ng, Equinor ASA; Wei Yan, Technical University of Denmark; Tao Yang, Equinor ASA

3:35pm **SPWLA-2025-0038 Guided Wave Propagation in a Double-Pipe System: Theory and Method**
Ruijia Wang, Yao Ge, Brenno Cabella, Frederico Heloui de Araujo, and Xiang Wu, Halliburton

3:35pm **SPWLA-2025-0090 Pushing the Limits of Ultrasonic Cement Evaluation in Very Large and Heavy-Wall-Thickness Casings**
Alhadi Zahmuwl, SLB; Michael Taplin, Ola Balbaa, Mohamed Helmi, and Luca Pavesi, BP; Robert Loov, SLB

Session 8 (Al Joud Ballroom B)
Carbonates Evaluation and Special Applied Technologies
Chairpersons: **Jackie Kechichian (Shell) and Katrina Cox (Core Laboratories)**

4:05pm **SPWLA-2025-0039 High-Resolution Petrophysics Through the Integration of NMR Logs and Acoustic Image Logs**
Lucas Abreu Blanes de Oliveira, Gabriel do Nascimento Freitas, Leonardo Gonçalves, and Erica Kato Pacheco Ferraz, Petrobras - Petróleo Brasileiro S.A.

4:25pm **SPWLA-2025-0040 Evaluation of Resistivity and Saturation of Bitumen-Bearing Fracture-Caved Carbonate Reservoir Based on Digital Core Technology**

Zongpeng Lin, Jun Zhao, and Zhenguan Wu, Southwest Petroleum University; Qiang Lai, PetroChina Southwest Oil & Gasfield Company; Shixiang Jiao and Xuan He, Southwest Petroleum University

4:45pm **SPWLA-2025-0041 New Approach to Connect the Sedimentary and Diagenetic Features of Complex Carbonate Reservoir for Better Rock Grouping and Permeability Prediction Through Pore Geometry Structure Rock Typing: A Case Study From Offshore UAE**
Didit Putra Kusuma, Umer Farooq, Hiroki Montani, Jiahong Li, Jawaher Alsabeai, Latifa Al Shamsi, Suad Alshamsi, Lu Lu, and Nozomu Yoshida, ADNOC Offshore; Muhammad Nur Ali Akbar, Prores AS

5:05pm **SPWLA-2025-0042 Integrated Approach With Maximum Usage of Surface Logging, XRD/XRF, Coriolis, Advanced Gas, and Cavings Check Data in Conjunction With Detailed Geological Analysis to Optimize Wells Drilling in Challenging Middle Marrat and Najmah Reservoirs of North Kuwa**
Saad Al Ajmi, Kuwait Oil Company; Oswaldo Klinger, GEOLOG International B.V.; Andrey Gryaznov, Baker Hughes; Ahmad Shoeibi and Majid Moazami, GEOLOG International B.V.; Chinmaya Pattnaik, Kuwait Oil Company

Session 9 (Al Joud Ballroom A)

Core and Well-Log Integration

Chairpersons: **Russell Farmer (ADNOC) and Sharon Finlay (North Oil Company Qatar)**
Sponsored by: **Dragon Oil**

Dragon Oil

4:05pm **SPWLA-2025-0043 Integration of Digital Rocks, MICP, Petrography, and Petrophysical Logs to Understand the Rationale Behind a Productive Low-Resistivity-Pay Carbonate Reservoir**
Arfan Ali, Mohamed Abdou, Ammar Balilah, and Andrei Kazak, Saudi Aramco

4:25pm **SPWLA-2025-0044 Advanced Logging Techniques for Characterizing a Complex Turbidite Reservoir in the Norwegian Sea**
Wesam Ben Mansour, Harbour Energy; Harish Datir, SLB; Andrew Mburu, Harbour Energy

4:45pm **SPWLA-2025-0045 An Integrated Core Reservoir Characterization and PVT for Hybrid Enhanced Oil Recovery in Mature Sandstone Reservoir**
Muhammad A. Gibrata, Dragon Oil

5:05pm **SPWLA-2025-0046 Hydrocarbon Saturation Evaluation of Volcanic Reservoirs Using MICP Experiments, Petroleum Migration and Accumulation Dynamics, and NMR Logging**
Xinlei Shi, Huanran Li, Jiansheng Zhang, Xin Cheng, Wei Zhang, and Qi Li CNOOC

5:25pm ***End of 1st Day -Adjourn***

TECHNICAL PROGRAM

Tuesday – May 20th

Session 10 (Al Joud Ballroom A)

Automated Methods of Formation Evaluation

Chairpersons: **Jennifer Duarte (Geoactive Limited) and Nader Gerges (ADNOC)**

Sponsored by: **ADNOC**

8:00am **SPWLA-2025-0047 Machine-Learning-Driven Permeability Prediction & Improved Reservoir Characterization in Heterogeneous Sandstone Formation of KG Basin**
Mohammad Anees, B. Amitha, and Amit Kumar, ONGC

8:20am **SPWLA-2025-0048 Automated Depth Alignment of Well Logs Using Siamese Neural Networks**
Sushil Acharya and Karl Fabian, Norwegian University of Science and Technology; Anis Yazidi, Oslomet University;
Kjetil Westeng, Aker BP ASA

8:40am **SPWLA-2025-0049 Universal Data-Driven Permeability Estimation by Connecting MICP Analytics With Big Data**
Oriyomi Raheem, Misael M. Morales, Wardana Saputra, and Carlos Torres-Verdín, The University of Texas at Austin; Craig Phillips, Crested Butte Petrophysical Consultants; Chicheng Xu, OpenPetro AI

9:00am **SPWLA-2025-0050 A Monitoring and Analysis Platform for Real Time and Autonomous Formation Evaluation and Machine Learning Deployment of Multiple Concurrent Assets**
Lautaro Rayo, Laila Alshammasi, Yacine Meridji, and Majed Kanfar, Saudi Aramco

9:20am **SPWLA-2025-0051 Revolutionizing Well Integrity: Temporal Deep Learning for Precise and Continuous Axial Groove Detection**
Ahmad Ahmad, Ana Escobar, and Gurami Keretchashvili, SLB

Session 11 (Al Joud Ballroom B)

SoS: Buried Hill Reservoir Description and Fluid Monitoring Method

Chairpersons: **Jilin Fan (China National Logging Corporation) and Olivier Sindt (SLB)**

Sponsored by: **COSL**

8:00am **SPWLA-2025-0052 Assessment of Cement Density via Through-Casing X-Ray Logging Technique**
Jilin Fan, China National Logging Corporation and University of Electronic Science and Technology of China; Qiong Zhang, University of Electronic Science

and Technology of China; Wenhui Chen, Aizhong Yue and Shusheng Wang, China National Logging Corporation

8:20am **SPWLA-2025-0053 A Novel Multi-Physics Interpretation Method for Quantifying Mineral Using a Pulsed Neutron Element Logging Tool**
Ya Jin, Quanwen Zhang, Lu Yin, Wenbo Qu, and Zhiyuan Liu, China Oilfield Services Limited; Yi Ge and Qiong Zhang, University of Electronic Science and Technology of China

8:40am **SPWLA-2025-0054 A Method for Formation Elemental Concentration Determination Based on the Macroscopic Capture Cross-Section Constraint**
Guofeng Yang, Wenzheng Peng, Hongfa Ye, Zhengyan Wang, Meng Chen, and Xiangjun Liu, Southwest Petroleum University

9:00am **SPWLA-2025-0055 A Method on the Application of Pulsed Neutron Logging for Gas Reservoirs Identification of Buried Hills in the Bohai Sea**
Zhenyang Li and Qiong Zhang, University of Electronic Science and Technology of China; Jiling Li, Zhang Zhang, and Zhenyong Hou, China Oilfield Services Limited; Quanying Zhang, Yangtze University

9:20am **SPWLA-2025-0056 Understanding the Heterogeneous Fractured Carbonate Reservoir by the Integration of Advanced Logging Techniques and Core Measurements, Case Study From Beibu Gulf Basin, China**
Chen Ming, China University of Petroleum East China and CNOOC Ltd.; Gao Yong De, CNOOC Ltd.; Qu Chang Wei, SLB; Yang Fu Lin, Sun Dian Qiang, and Wu Jin Bo, CNOOC Ltd.; Su Yuan Da, China University of Petroleum East China; Li Shen Zhuan, Wu Jin Long, and Yu Dai Guo, SLB

9:40am ***Break (15 mins)***

Session 12 (Al Joud Ballroom A)
Acoustics Technology and Applications

Chairpersons: **Lu Yin (CNOOC) and Hua Wang (University of Electronic Science and Technology of China)**

9:55am **SPWLA-2025-0057 Multiscale Evaluation of Hydraulic Fracturing Effects via Borehole Acoustics**
Yujiang Shi, Chunhao Yu, Xuekai Sun, Jingqi Lin, Xianping Liu, Siyi Li, Hao Sun, Ran Zhang and Jilin Fan, China National Logging Corporation

10:15am **SPWLA-2025-0058 Direct Inversion of Wellbore Acoustic Waveforms Using Convolutional Neural Networks**
Elsa Maalouf and Sam Hamamji, American University of Beirut

10:35am **SPWLA-2025-0059 Logging While Drilling Versus Wireline Sonic Data: An E&P Operator's Perspective**
Frederic Robail, Priveen Raj Santha Moorthy, and Aidil Aznan Azwan A Azid, PETRONAS Carigali Sdn Bhd; Hendrik Rohler, Consultant; Nurul Athirah Wahid Ali, and Arthur Goh Jin Wang, PETRONAS Carigali Sdn Bhd

TECHNICAL PROGRAM

10:55am **SPWLA-2025-0060 Determine Ultrasonic Logging Tool Trajectory, Casing Geometry, and Mud Velocity in Cased Hole From Measured Waveforms**
Shaopeng Shi, Hua Wang, Shengya Li, Qiang Wang, and Wenhe Wu, University of Electronic Science and Technology of China

Session 13 (Al Joud Ballroom B)
Cased Hole Formation Evaluation

Chairpersons: **Qiong Zhang (University of Electronic Science and Technology of China) and Omar Al Farisi (Dragon Oil)**
Sponsored by: **Baker Hughes**

9:55am **SPWLA-2025-0061 Evaluating Cement Bond Quality and Casing Integrity in Well P&A Operations: A Case Study From a Depleted Oil Field, Germany**
Ajoy Krishna Bora, ExxonMobil Bangalore Technology Centre and Sascha Alles, ExxonMobil Production Deutschland GmbH

10:15am **SPWLA-2025-0062 Holistic Integration of Multiple Casedhole Acquisition Techniques for Comprehensive Assessment of Low Salinty EOR Pilot Project in a Middle East Carbonate Reservoir**
Alexey Tveritnev, Mohamed Ibrahim Al Hammadi, and Naema Abdulrahim Abdulla J. Almansoori, ADNOC; David Chace, Vijay Ramaswamy, and Nilisip Akang, Baker Hughes; Alfir Yakupov and Rafael Akhmetianov, GOWell International LLC

10:35am **SPWLA-2025-0063 Spectroscopy Mineralogy Application in a Mature Gas Field Using a New Slim Pulsed-Neutron Tool**
Siti Najmi Farhan Zulkipli, PETRONAS Carigali Sdn Bhd; Bancha Srikampha, Hernan Mora, and Weijun Guo, Halliburton

10:55am **SPWLA-2025-0064 Data Processing Method of DAS Logging**
Rui Deng and Lixiong Gan, China National Logging Corporation and Key Laboratory of Oil and Gas Resources and Exploration Technology of Ministry of Education, Yangtze University; Yujiang Shi, Haining Zhang, Songtao Bai, Chaowei Duan, Hanbin Zhu, Guoli Li,

11:15am ***Break (15 mins)***

Session 14 (Al Joud Ballroom A) – Short Oral
Formation Evaluation and New Technologies
Chairpersons: **Sean Dolan (Shell) and Nate Bachman (SLB)**
Sponsored by: **SLB**

11:30am **SPWLA-2025-0065 Using LWD Ultrasonic Images for Heterogenous Carbonate Reservoir Evaluation in Buzios Field, Presalt of the Santos Basin, Brazil**

Willy Bohn, Luma Botelho de Souza, Pamella Paiva Fernandes, Anabela Porto Rosa, and Antonio Persio Silvestre, Petrobras; Susana Gutierrez Carrilero and Katia Litiere, Halliburton

11:40am **SPWLA-2025-0066 Validation of the Results of 2D Image Analysis Using Laboratory Measurements of Porosity, Permeability, and NMR Measurements**
Lori A. Hathon, Michael T. Myers, Davis C. Ekeke, James J. Funk, Gabriel C. Unomah, Nabeel Muhammedy, and Jomana Razik, University of Houston

11:50am **SPWLA-2025-0067 Petrophysically Consistent Well-Log Analysis of a Deepwater Anisotropic Turbidite Formation Using NMR and Tensor-Induction Measurements**
Ali Eghbali, Amer Hanif, Alisa Kukharchuk, and Radu Coman, Baker Hughes

12:00pm **SPWLA-2025-0068 Water Saturation Prediction in 3D Models: Paradigm Change From Free Water Levels to Interfacial Normalized Free Water Levels**
Iulian Hulea, Shell Global Solutions International B.V.

Session 15 (Al Joud Ballroom B) – Short Oral

Cased Hole Formation Evaluation and Surveillance

Chairpersons: **Olivier Sindt (SLB) and Adam Haecker (Milestone Environmental Services)**
Sponsored by: **COSL**

11:30am **SPWLA-2025-0069 A Study on the Coupled Numerical Simulation of the Electric Field and Fluid Field During Supercritical CO2 Oil Displacement Based on Digital Rocks**
Hainig Zhang, Zhanshan Xiao, Jianbin Zhao, Shitao Cui, Chenjun Zhang, Bo Wei, and Huiying Li, China National Logging Corporation

11:40am **SPWLA-2025-0070 Behind Casing Fluid Typing Using Ultrasonic Logs for Plug and Abandonment Application**
Alhadi Zahmuwl, SLB; Charles Desmazures, CNOOC International; Robert Loov, SLB

11:50am **SPWLA-2025-0071 20 Years of Formation Pressure While Drilling (FPWD) – What Have We Discovered?**
Alex Dykes, Scott Paul, Aldrick Garcia-Mayans, Yon Blanco, Marcus Turner, Sammy Molua Lyonga, Aydar Galiev, Laura Jimenez Cabas, Shahid Haq, and Lei Zhang, SLB

12:00pm **SPWLA-2025-0072 Geostopping at the Top of Carbonate by Reducing the Depth Uncertainty Using Seismic While Drilling, Near-Bit GR, and Resistivity Real-Time Data, A Novel Carbonate Reservoir Entry Strategy in Deepwater Malaysia**
Saikat Das, Martin Cox, Patricia N. Tynan, and Helen Saaler, Baker Hughes; Raja Ridhuan B. Khalid and Aiman Hakimi Wond Abdullah, PETRONAS Carigali Sdn Bhd

TECHNICAL PROGRAM

12:10 pm **Q&A**

12:15-1:50pm **LUNCH (Awards Presentation Luncheon)- (Amazing Room)**

Session 16 (Al Joud Ballroom A)

NMR Technology and Applications - High or Low Fields, Pores and Fluids (II)

Chairpersons: **Radu Coman (Baker Hughes) and Hyung Tae Kwak (Saudi Aramco)**

2:00pm **SPWLA-2025-0073 Automated T1T2 NMR Log Interpretation: From a Single Well to Standardized Multiwell Analysis**
Yevgeny Karpekin, George Bordakov, Laurent Mosse, Ulises Bustos, Violeta Lujan, Akinlolu Williams, and Andrew Johnson, SLB

2:20pm **SPWLA-2025-0074 Enhanced Characterization of Pore Size Distribution From NMR T2 by Integrating Pore Shape Aspect Ratio and Sonic Measurements**
Juntao Ma, Lin Liang, Mohammed Al-Hamad, Marie Van Steene, and Olivier Sindt, SLB; Shouxiang Mark Ma, Saudi Aramco

2:40pm **SPWLA-2025-0075 Addressing Logging Speed Influence on LWD NMR Response: Advanced Correction Methods for Precise Porosity Evaluation**
Valerio Dutra and Marcio Roque, Petrobras; Zeyad Ramadan, Egor Kovarskiy, Shashikant Srivastava, Navneet Latawa, Zoryana Snovida, Marie Van Steene, and Vikas Jain, SLB

3:00pm **SPWLA-2025-0076 Temperature Influence on NMR Relaxation Characteristics of Organic and Inorganic Pores in Shale**
Ruiqi Fan, Guangzhi Liao, Lizhi Xiao, and Sihui Luo, China University of Petroleum (Beijing)

Session 17 (Al Joud Ballroom B)

Uncertainty, Sensitivity, Scenario Analysis, and Case Studies

Chairpersons: **Chicheng Xu (CNPC USA) and Christian Rambousek (NiMBUC Geoscience)**

2:00pm **SPWLA-2025-0077 Modeling Oil Saturation Below a Present Day Free Water Level and Its Impact on Reserves Uncertainty: An Integrated Approach Using Logs, PGS Rock Typing, SCAL Modeling, and Saturation Depth Function**
Muhammad Nur Ali Akbar, Prores AS; Matthew Guy Reppert and Ardian Pradhana Putra, Vår Energi ASA

2:20pm **SPWLA-2025-0078 Dynamic Depth Alignment Between Well Logs for Enhanced Petrophysical and Rock Physics Interpretation**
Kjetil Westeng, Peder Aursand, Frida Viset, and Yann Van Crombrugge, Aker BP ASA

2:40pm **SPWLA-2025-0079 Geostopping With Ultradeep Electromagnetic Look-Ahead Technology to Mitigate Drilling Risks in Brazilian Presalt Carbonate Reservoir**
Guillermo Marcelo Cuadros, Ligia Naia de Matos and Egor Kovarskiy, SLB; Antonio Mainieri Vieira da Cunha and Valerio Picorelli Ladeira Dutra, Petrobras

TECHNICAL PROGRAM

3:00pm **SPWLA-2025-0080 Mineralogy Characterization for Exploratory Eastern Offshore Field in India-Busting XRF and Cutting Lithology Myths: An Eye Opener for the Industry**
Shruti Joshi, Anjana D. Panchakarla, and Nora Alarcon, Baker Hughes

3:20pm ***Break (5 mins)***

Session 18 (Dahlia Room)
Poster Session 2 (Session 3:25-3:55)
Chairpersons: **Amer Hanif (Baker Hughes), Jilin Fan (China National Logging Corporation), and Russell Farmer (ADNOC)**
Sponsored by: **ADNOC**

3:25pm **SPWLA-2025-0037 Horizontal Well Array Induction Logging Data Processing and Interpretation Based on Parameterized Modeling and Inversion**
Jun Zhou, China National Logging Corporation; Meixiang Gao, Qilu University of Technology; Yan Bai and Zhu Ding, China National Logging Corporation; Peisheng Wang, Deep Underground Science and Engineering Yunlong Lake Laboratory; Zonghui Gao, Xiaolei Che

3:25pm **SPWLA-2025-0081 Automatic Source Rock Evaluation From Well Logs for Play Analysis**
Kjetil Westeng, Neal Morgan, Micheal Lawson and, Yann Vann Crombrugge, Aker BP ASA; Christian Nilsen Lehre, Sopra Steria; Christophe Kierdorf, Aker BP ASA; Erik Mårten Blixt, GeoMind

3:25pm **SPWLA-2025-0082 Experimental Measurement and Logging Calculation Method of Fracture Width Based on a Large-Scale Granite Physical Model**
Xiongyan Li, Ruibao Qin, Yuetian Wang, Jingji Cao, Peng Wang, Zhongxu Yin, and Xinyu Ye, CNOOC Research Institute Ltd. and National Engineering Research Center of Offshore Oil and Gas Exploration

3:25pm **SPWLA-2025-0083 Distinguishing CO2 and Hydrocarbon Gas Using Pulsed Neutron Logs for CO2 Storage Projects in Depleted Gas Reservoirs**
Yonghwee Kim, Eng Chuan Lim, and David Chace, Baker Hughes

3:25pm **SPWLA-2025-0084 Leveraging Thermal Conductivity Gas Detector for Quantitative Assessment of Fluid Contacts and Transition Zones**
Khalid Qubaisi and Amjad Kharabah, Saudi Aramco; Caroline Magnier and Dina Gafurova, Excellence Logging

3:25pm **SPWLA-2025-0085 Time to Revisit Deep Dielectric Measurements? – Interesting Insights From Middle East Carbonate Reservoirs**
Raghu Ramamoorthy and Martin G. Lüling, NoHiddenPay LLC; Amr Mohammed Serry, ADNOC Offshore; Barbara I. Anderson and James Hemingway, NoHiddenPay LLC

TECHNICAL PROGRAM

3:25pm **SPWLA-2025-0086 Identifying the Presence of Water Finger and Assessing Influence of WBM Filtrate Invasion in a Fractured Zone of Brazilian Presalt Carbonates**
Filipe Ramos de Albuquerque, Eduardo Barreto Oliveira, Thiago Moura da Silva Rosado, Pamella Paiva Fernandes, Jorge Freitas Maciel Garcia de Carvalho, Gabriel Luiz Pérez-Vieira, João Paulo Teixeira da Fonseca, and Rodrigo Skinner, Petróleo Brasileiro S.A.

3:25pm **SPWLA-2025-0087 Investigating the Impact of Cyclical Hydrogen Injection and Extraction on Subsurface Reservoir Formation Rocks for Underground Hydrogen Storage**
Shruti Joshi and Anjana D. Panchakarla, Baker Hughes; Krishna Raghav Chaturvedi, Rajiv Gandhi Institute of Petroleum Technology

3:25pm **SPWLA-2025-0088 Formation Waves Decoupling Network: Enhancing Cementing Quality Evaluation in Fast Formations**
Menglu Kang, Lizhi Xiao, Jun Zhou, Juan Zhang and Guangzhi Liao, China University of Petroleum (Beijing); Martin J. Blunt, Branko Bijeljic, Imperial College London; Jun Zhou and Juan Zhang, China National Petroleum Corporation Logging Co., Ltd.

3:25pm **SPWLA-2025-0089 A Novel Type Curve for Sandstone Rock Typing Using a Pore-Geometry-Structure Approach**
Junita Trivianty Musu, LEMIGAS; Muhammad Nur Ali Akbar, Prores AS; Pudji Permadi, ITB; Bambang Widarsono, BRIN

3:25pm **SPWLA-2025-0091 Impact of Formation Thermophysical Properties on Geothermal Energy Potential Assessment**
Guodong Jin, Hyung T. Kwak, Hussam H. Banaja, and Walid K. Hussein, Saudi Aramco

3:25pm **SPWLA-2025-0092 Machine-Learning Solutions for Mitigating Drilling Environment Impacts on NMR Logs in Brazilian Presalt Carbonates**
Larissa Furtado Torres, Marcio Roque Coutinho, Marcelo Abbehusen Magalhães, Marcus Santini Tavares, Carlos Eduardo Roriz, Emerson dos Santos, Marcelo Cordeiro, Rodrigo de Souza, Fares Pessoa and Bruna da Silva, Petrobras

Session 19 (Al Joud Ballroom A)

Digital Rock Physics for Formation Evaluation and Core Analysis

Chairpersons: **Christoph Arns (University of New South Wales) and Katrina Cox (Core Laboratories)**

Sponsored by: **Halliburton**

HALLIBURTON

3:55pm **SPWLA-2025-0093 3D Digital Rock Imaging Enhances Mercury Injection Capillary Pressure Analysis**
Andrei Kazak, Ivan Deshenenkov, Yildiray Cinar, and Bruno Stenger, Saudi Aramco

4:15pm **SPWLA-2025-0094 Conditional Diffusion Models With Integrated Porosity Fusion for 3D Digital Rock Reconstruction**
Hao Lu, Guangzhi Liao, and Lizhi Xiao, China University of Petroleum (Beijing); Jun Zhou, Juan Zhang, and Lugiao Ni, China National Logging Corporation (CNLC)

4:35pm **SPWLA-2025-0095 Machine Learning Method Enables Fast and Accurate Pore Pressure Prediction With Well Logs: A Case Study in Offshore China**
Yongde Gao, CNOOC; Peng Liu, SLB; Dianqiang Sun and Ming Chen, CNOOC

4:55pm **SPWLA-2025-0096 Multiscale and Multicomponent Integration Modeling of Digital Rock Based on Deep Learning**
Yuetian Wang, Ruibao Qin, Dan Wei, Xiongyan Li, Jingji Cao, Peng Wang, Xinyu Ye, and Zhongxu Yin, CNOOC Research Institute

Session 20 (Al Joud Ballroom B)

Specialized Measurement Technologies and Interpretation Methods (I)

Chairpersons: **Bo Liu (Northeast Petroleum University) and Sean Dolan (Shell)**

3:55pm **SPWLA-2025-0097 Magnetic-Electric Dual-Drive Time-Domain Electromagnetic Wave Look-Ahead Focusing for Remote Detection Method Research**
Zhanshan Xiao, Yujiang Shi, Haitao Hu, Chao Qi, Haining Zhang, Wenhui Chen, Bin Wei, Kun Shao, and Chunming Yao, China National Logging Corporation

4:15pm **SPWLA-2025-0098 Technology for Monitoring the Wear and Defect of Casing and Tubing for Multistring Wells by the Method of Transient Processes**
Mingjun Xie, University of Electronic Science and Technology of China; Gulnara Golovatskaia, Aleksandr Potapov, and Dimitri Perelygin, JSC Research and Production Enterprise GITAS; Aleksandr Shumilov, Perm State University

4:35pm **SPWLA-2025-0099 Fluid Production Profiling in Deep-Water Carbonates: Intrawell Chemical Tracers Application in Long Horizontal Drains**
Marco Pirrone, Giuseppe Galli, and Sara Moriggi, Eni S.p.A.

4:55pm **SPWLA-2025-0100 Beyond Gas Bubbles in Norwegian Oil Fields: An Integrated Technique to Understand Reservoir Fluid Distribution**
Maria Cecilia Bravo, Silvia Roblero Nunez, Sandrine Donnadieu, Frode Ungar, Gulnar Yerkinkyzy, Tao Yang, and Paal Fristad, Equinor

5:15pm ***End of 2nd Day -Adjourn***

Wednesday – May 21st

Session 21 (Al Joud Ballroom A)

SoS: Ultra Deep Measurement Technology

Chairpersons: **Matthew Blyth (SLB) and Robert H. Gales (Halliburton)**

Sponsored by: **Halliburton**

HALLIBURTON

TECHNICAL PROGRAM

8:00am **SPWLA-2025-0101 Fast Multi-Level and Multi-Grid Stochastic Inversion of UDAR Measurements**
Nazanin Jahani and Kristian Fossum, NORCE Norwegian Research Centre AS; Wardana Saputra and Carlos Torres-Verdín, The University of Texas at Austin; Egil Romsås Fjeldberg, Aker BP

8:20am **SPWLA-2025-0102 Recent Developments and Verifications for the Multi-Dimensional and Data-Adaptive Interpretation of Borehole UDAR Measurements**
Wardana Saputra, Carlos Torres-Verdín, Joaquin Ambia, Bruce G. Klappauf, and Weichen Zhan, The University of Texas at Austin; Nazanin Jahani, NORCE Norwegian Research Centre AS; Jörn Zimmerling, Uppsala University; Vladimir Druskin, Sofia Davydycheva, and Ivan Davydychev, 3D EM Modeling & Inversion JIP; Egil Romsås Fjeldberg, Aker BP

8:40am **SPWLA-2025-0103 Precision Beyond Limits: Breaking New Ground in Complex Structures With Ultradeep Resistivity Geomapping for Accurate Geosteering**
Ida Bagus Gede Hermawan Manuaba and Abdullah Ali Alshehri, Saudi Aramco; Hesham Elmasry and Eduard Bikchandaev, Halliburton

9:00am **SPWLA-2025-0104 A Robust Joint Inversion for Improved Structural Mapping in UDAR Applications Using Multiple Measurement Sensitivities and Uncertainties**
Hsu-Hsiang (Mark) Wu, Dagang Wu, Ting Yan, Jin Ma, Yijing Fan, Clint Lozinsky, and Michael Bittar, Halliburton

9:20am **SPWLA-2025-0105 Vendor-Independent Adaptive-Model-Based Inversion of LWD Azimuthal Resistivity Data**
Mikhail Sviridov and Anton Mosin, ROGII Inc.

Session 22 (Al Joud Ballroom B)

Imaging Technology, Interpretation and New Applications

Chairpersons: **Christian Rambousek (NiMBUC Geoscience) and Lu Yin (CNOOC)**

Sponsored by: **SLB**

8:00am **SPWLA-2025-0106 Borehole Image Compression and Enhancement for Real-Time Logging While Drilling**
Suraj Kiran Raman, Chandramani Shrivastava, Andriy Gelman, Nadege Bize-Forest, Ulysse Legendre, and Muhannad Abuhaikal, SLB

8:20am **SPWLA-2025-0107 High Resolution Geosteering Interpretation of LWD Azimuthal Electromagnetic Data**
Xizhou Yue, Guoyu Li, and Mingxue Ma, China Oilfield Services Ltd; Shanjun Li and John Zhou, Maxwell Dynamics, Inc.

TECHNICAL PROGRAM

8:40am **SPWLA-2025-0108 A New Approach Integrating Geomechanical Analysis and Numerical Simulation to Conduct Fracture Characterization and Prediction in the Buried Hills of the Eastern South China Sea**
Lu Yin, China University of Petroleum (East China) and China Oilfield Services Limited; Ming Chen, Shiyue Wang, and Qingjie Du, CNOOC Limited; Quan Zhou, Ya Jin, Xiao Qi, and Guangdong Zhang, China Oilfield Services Limited

9:00am **SPWLA-2025-0109 Integrating Machine Learning and Data Augmentation for Automated Texture Classification in Borehole Image Logs**
André M. Souza, Wikki Soluções and University of São Paulo; Matheus A. Cruz, Paola M.C. Braga, Rodrigo B. Piva, and Rodrigo A.C. Dias, Wikki Soluções; Paulo R. Siqueira, Wikki Soluções and Fluminense Federal University; Willian A. Trevizan, Candida M. de

9:20am **SPWLA-2025-0110 An Unsupervised Collar Wave Suppression Method With Acoustic Physics Constraint in ALWD**
Qiang Wang, Hua Wang, Yunjia Ji, Zhilong Fang, and Gengxiao Yang, University of Electronic Science and Technology of China; Jun Wang, Harbin Institute of Technology

9:40am ***Break (15 mins)***

Session 23 (Al Joud Ballroom A)

Specialized Measurement Technologies and Interpretation Methods (II)
Chairpersons: **Kris Farmer (Core Laboratories) and Lizhi Xiao (China University of Petroleum (Beijing))**

9:55am **SPWLA-2025-0111 Geosteering Based on Formation Dielectric Properties Derived From LWD Measurements**
Jun Zhang, Baker Hughes; Shouxiang Mark Ma, Saudi Aramco; Salah Al-Ofi, Baker Hughes

10:15am **SPWLA-2025-0112 Automated Anomaly Detection of Multi-Metallic Tubulars in Well Integrity Logs Using Signal Mode Decomposition and Physics-Informed Decision Making**
Ze Wang, Lijian Jiang, Moustafa Ismail, and Karim Khalil, GOWell

10:35am **SPWLA-2025-0113 Characterizing the Response of a New LWD Micro-Electrical Imager for Oil Based Mud and Large Boreholes in Terms of Formation Wave Impedance and Mud Properties**
Roland Chemali, Jennifer Market, Lars Øy, Magne Lauritzen, and Inge Bye, Well ID AS; Heidi Rydningen, Thomas Mikuz, and Carina Høie Østebø, OMV (Norge) AS

10:55am **SPWLA-2025-0114 High Resolution LWD Oil Based Mud Imaging via Impulse Radar – Hydrocarbon Case Studies**
Jennifer Market, Lar Øy, Roland Chemali, and Benjamin Barrouillet, Well ID; Heidi Rydningen, Ian Walker, Thomas Mikuz, Andrew Jones, Carina Høie Østebø, and Kjell Harald Dalehaug, OMV (Norge) AS

TECHNICAL PROGRAM

Session 24 (Al Joud Ballroom B)

Case Studies

Chairpersons**: Sultan Hamed Al Mahrooqi (Oxy) and Nader Gerges (ADNOC)**

Sponsored by: **Well Resolutions Technology**

9:55am **SPWLA-2025-0115 Optimizing Wellbore Placement With Near Bit Ultradeep Azimuthal Resistivity**
Alessandra Silva, Nigel Clegg, Karol Riofrio, and Carlos Sarquez, Halliburton; Ville August Aarseth, Ole Martin Teien, Amitabha Chatterjee, and Gustav Kvaal Legouy, Aker BP

10:15am **SPWLA-2025-0116 Implementation of High-Definition Reservoir Mapping-While-Drilling to Enhance Horizontal Well Placement and Reservoir Characterization in Low-Resistivity, Heterogeneous Reservoir: A Case Study From Peru**
Federico Seminario, Jorge Sarmiento, Edwar Bustamante, Edson Castillo, and Tito Orrego, Petrotal; Egor Kovarskiy, Guillermo Cuadros, Igor Hernandez, and Victor Laguna, SLB

10:35am **SPWLA-2025-0117 Asphaltene Clustering in a Black Oil Column Driven by Gas Addition, Explained via History Matching of Reservoir Charge**
Tarek S. Mohamed and Morten Kristensen, SLB; I. Yucel Akkutlu, Texas A&M University; Carlos Torres-Verdín, The University of Texas at Austin; Oliver C. Mullins, SLB

10:55am **SPWLA-2025-0118 Implementation of Waterflood in a Mature Oil Field – How Surveillance Supports Success**
Evert-Jan Borkent, Marwa Mufarji, Isehaq Busaidi, Ahmed Al Ajmi, Ibrahim Al Kaabi, Maan Al Asfoor, and Mahmood Al Harthi, Petroleum Development Oman

11:15am ***Break (15 mins)***

Session 25 (Al Joud Ballroom A) - Short Oral

Formation Evaluation, Digital Rock, and Core-Log Integration

Chairpersons: **Adam Haecker (Milestone Environmental Services) and Min Cheng (Stratum Reservoir)**

11:30am **SPWLA-2025-0119 Fracture Detection and Segmentation From Electrical Image Logs Using YOLOv7-U-Net**
Jianing Li, Lizhi Xiao, Guangzhi Liao, Jiaxiu Liu, and Xiaoyu Wang, China University of Petroleum (Beijing)

11:40am **SPWLA-2025-0120 Advanced Segmentation and Geometric Analysis of Geological Samples**
Raounek Zeghdoud, Excellence Logging France and École des Mines de Paris; Bruno Figliuzzi, Centre de Morphologie Mathématique Mines Paris; Aymeric-Pierre Peyret, Excellence Logging France

11:50am **SPWLA-2025-0121 Molecular Simulation of Methane Adsorption Using Deep Potential Model**
Yuhao Guo and Liqiang Sima, Southwest Petroleum University; Liang Wang, Chengdu University of Technology

12:00pm **SPWLA-2025-0122 Digital Special Core Analysis in Tight Sandstone Reservoirs: A Case Study of the Masirah Bay Reservoir, Makhaizna Field**
Al Ghalin Al Salmani and Ali Al Kalbani, OXY Oman

Session 26 (Al Joud Ballroom B) - Short Oral

New Technologies and Applications

Chairpersons: **Robin Slocombe (SLB) and Qiong Zhang (University of Electronic Science and Technology of China)**

Sponsored by: Oliden Technology

11:30am **SPWLA-2025-0123 Oxygen Activation Logging: A New 3D Framework for Activation Modeling Brings a Step Change in Stationary and Continuous Water Flow Log Interpretation**
Laurent Mosse, Jeffrey Miles, and Chiara Cavalleri, SLB

11:40am **SPWLA-2025-0124 Pore-Scale Modeling as an Alternative to Petrophysical Lacking Data: The Example of the Brazilian Presalt**
Ronaldo Herlinger, Jr., Petrobras S.A.

11:50am **SPWLA-2025-0125 Case Study of Active Resistivity Ranging With Ultradeep Azimuthal Resistivity Measurements While Drilling**
Diogo Salim, Yong-Hua Chen, Lin Liang, Jean-Michel Denichou, SLB; Antonio Mainieri da Cunha, and Silas Alexandre da Rocha Roberto,Petrobras; Martine Wenang, Motaz Zeidan, and Umut Ercan, SLB

12:00pm **SPWLA-2025-0126 UDAR Horizontal Look Ahead Mapping Technology Identifies Fault Ahead of the Bit**
Jin Ma, Nigel Clegg, Arthur Walmsley, Nelson Suarez Arcano, Halliburton; Frank Antonsen, Kåre Røsvik Jensen and Andrew McGill, Equinor

12:10 pm **Q&A**

12:15-1:10pm **LUNCH *(Leadership Luncheon -Invitation only)***

12:15-1:10pm **LUNCH *(All Attendees)***

Session 27 (Al Joud Ballroom A)

Formation Evaluation of Unconventional Reservoirs (II)

Chairpersons: **Amer Hanif (Baker Hughes) and Guangzhi Liao (China University of Petroleum (Beijing))**

1:15pm **SPWLA-2025-0127 Impact of CO2 Adsorption on Elastic Properties of Kerogen in Organic-Rich Mudrocks**
Jamil El-Masry, Ibrahim Gomaa, and Zoya Heidari, The University of Texas at Austin; Elsa Maalouf, American University of Beirut

1:35pm **SPWLA-2025-0128 Estimation of In-Situ Mineral and Fluid Composition of Rocks From the Joint Inversion of Triple-Combo Well Logs in the Presence of Invasion**
Joaquín Ambía, The University of Texas at Austin; Adeyemi Adetosoye, Occidental; Carlos Torres-Verdín, The University of Texas at Austin

1:55pm **SPWLA-2025-0129 Investigation of Wettability of Organic-Rich Mudrocks via Fourier-Transform Infrared Spectroscopy**
Isa Silveira de Araujo, Yufeng Su, Mariella Khoury, Tanya Hutter, and Zoya Heidari, The University of Texas at Austin

2:15pm **SPWLA-2025-0130 Oil-Water Detection and Simulation Using Ultralow-Field Nuclear Magnetic Resonance Based on Atomic Magnetometer**
Qiao Zhen, Lizhia Xiao, Guangzhia Liao, and Sihui Luo, National Key Laboratory of Oil and Gas Resources and Engineering and China University of Petroleum (Beijing)

Session 28 (Al Joud Ballroom B)

Integrated Formation Evaluation

Chairpersons: **Thanapala Singam Murugesu (Petronas) and Hua Wang (University of Electronic Science and Technology of China)**

1:15pm **SPWLA-2025-0131 Effect of CO2 Sequestration on Carbonate Formation Integrity**
Mohammed Al-Hamad and Olivier Sindt, SLB; Shouxiang Mark Ma, Saudi Aramco; Wael Abdallah, SLB

1:35pm **SPWLA-2025-0132 An Automatic Method to Extract Slowness in Acoustic Logging and Its Applications**
Siyi Li, Wenhui Chen, Xuekai Sun, Liming Jiang, Hao Sun, and Xianping Liu, and Jilin Fan; China National Logging Corporation(CNLC), CNPC

1:55pm **SPWLA-2025-0133 Cost-Effective Geochemical Strategies for Optimizing Formation Evaluation and Property Prediction in Conventional and Unconventional Plays**
Humberto Carvajal Ortiz and Agustin Kriscautzky, GEOLOG Americas

2:15pm **SPWLA-2025-0134 Saturation Height Models on Brazilian Presalt Complex Carbonate Reservoir Rocks, From Pore to Field Scale Calculations**
André Luís Fernandes da Silva Souza and Leondard Gonçalves, Petrobras

2:35pm ***Break (10 mins)***

Session 29 (Al Joud Ballroom A)

Formation Evaluation of Conventional Reservoirs

Chairpersons: **Jennifer Duarte (Geoactive Limited) and Sultan Hamed Al Mahrooqi (Oxy)**

2:45pm **SPWLA-2025-0135 Fractional Flow Modeling and Monitoring for the Assessment of Commingled Fluid Production Across Thinly Laminated Formations**
Daria Olszowska, formerly with the University of Texas at Austin, presently with Terra Dynamics Incorporated; Carlos Torres-Verdín, The University of Texas at Austin; Khalid El Jaafari Salmi and Jansen Oliveira, Repsol

3:05pm **SPWLA-2025-0136 Advanced Reservoir Characterization Using Drill-Cuttings-Based Advanced Image Analysis, Elemental Analysis, and AI Algorithms: A Case Study of the Orgánico Inferior and Cocina Members, Vaca Muerta Formation, Neuquén Basin, Argentina**
Agustin Kriscautzky, Guy M. Oliver, and Cesar Lugo, Geolog; Denis Marchal and Claudio Naides, Pampa Energía S.A.

3:25pm **SPWLA-2025-0137 An Improved Non-Archie Fluid Saturation Workflow in Organic Shales**
Pingjun Guo, Brett Zastoupil, and Quentin German, ExxonMobil

3:45pm **SPWLA-2025-0138 Authentic Approaches to Petrophysical Rock Type Determination of Heterogeneous Globigerina Limestone in Northeast Java Basin**
Erick Prim Putra, Rafi Fakhri, and Indra Sumantri, Husky-CNOOC Madura Limited

Session 30 (Al Joud Ballroom B)

Cased Hole Surveillance

Chairpersons: **Amr Mohamed Serry (ADNOC) and Omar Al Farisi (Dragon Oil)**
Sponsored by: **Baker Hughes**

2:45pm **SPWLA-2025-0139 Enhanced Integrated Cement Bond Analysis Through the Use of Flexural and Shear Attenuation Measurements**
Maniesh Singh, Deepak Voleti, and Rehan Hanif, ADNOC Onshore; Doug Patterson, Pawel Matuszyk, Ian Leslie, Joseph Olaiya, and Mostafa Ismail, Baker Hughes

3:05pm **SPWLA-2025-0140 Real-Time Monitoring of Carbon Dioxide Injection Through Fiber Optics: Physics-Based Modeling of Distributed Temperature Sensing Data for Time-Lapse Fluid Typing, Pressure Inference, and Phase Transition Assessment**
Marco Pirrone, Eni S.p.A.; Tommaso Mantegazza, EniProgetti S.p.A.

3:25pm **SPWLA-2025-0141 Microannulus Identification and Quantitative Evaluation in Cased Wells**
Xuelian Chen, Jinlin Pan, Feng Cheng and Xiaoming Tang, China University of Petroleum (East China); Lei Zhu, PetroChina Tarim Oilfield Company, CNPC

3:45pm **SPWLA-2025-0142 Evaluating Waterflood Effectiveness and Hydrocarbon Recovery Using Constraint Inversion of Resistivity Sigma and Core Data**
Harish B. Datir and Laurent Mosse, SLB; Sudipto Datta, Amit Singh, and David John Jackson, TotalEnergies Denmark

4:05pm ***Break (5 mins)***

4:10pm ***Closing Remarks***

4:40pm ***End of the 66th Annual Symposium***

WORKSHOPS

WORKSHOP 1: Fundamentals of Formation Testing – Acquisition, Data and Analysis

Date: Saturday, May 17, 2025
Time: 8:00 am – 4:30 pm
Place: Room - Lilac + Freesia
Organizer(s): SPWLA Formation Testing SIG – Gibran Hashmi, Halliburton, Camilo Gonzalez, BP, Anup Hunnur, Baker Hughes, Jules El-Khoury, SLB

Abstract: This workshop will introduce the participants to the fundamentals of formation testing and equip them with the knowledge and skills to analyze information acquired from formation testing. The training has been designed to teach the practical aspects of job design, data acquisition, QAQC and analysis of Formation Tests. Field examples are used to illustrate the process and workflow. The workshop will cover pressure testing and sampling along with downhole fluid analysis. Aspects of extended
transient testing and applications of formation testing in energy transition will also be discussed.

Objectives:

- Describe the primary applications of Wireline and LWD formation testing
- Describe the data acquisition procedure for pressure, mobility and fluid sampling
- Station sequences: pre-tests, fluid sampling, post-tests, MiniDST
- Downhole fluid analysis sensors and techniques
- QC of mobility and pressure data
- Pressure gradient analysis: identification of fluid type and fluid contacts; gradient uncertainties

Expected Outcomes: By the end of the course, the attendees should be capable of pressure gradient analysis to identify fluids, fluid contacts, barrier identification, obtain field pressure and mobility from a formation tester, conduct related transient analysis, identify, quantify, and mitigate sources of pressure and depth errors and to understand the importance of real-time data monitoring and petrophysical integration. Moreover, the participants will have a better understanding of the role of formation testing in the energy transition and the emerging technologies to
address the growing challenges for operators in the field.

Instructor Biographies:

Juan Carlos Nunez received a Petroleum Engineering degree from the Central University of Venezuela (Caracas-2009), a M.Sc. in Petroleum Economics and Management from the IFP-School (Paris- 2010) and a M.Sc. in Exploration and Production of Hydrocarbons from the Formation Center of Repsol (Madrid/Edinburgh-2012). Wide experience in reservoir engineering currently working at the KAPPA Training and

Consulting Services in Reigate, UK as Reservoir Engineer providing technical support for oil and service companies worldwide on Formation Test Analysis (Product Champion in Azurite), Production Logging, Pressure Transient Analysis, Numerical Modelling and Nodal Analysis.

Dr. Gibran Hashmi is a global reservoir engineering domain expert with Halliburton. His areas of interest include reservoir characterization, well testing, production analysis, reservoir simulation, fluid and heat transfer in wellbores, petrophysics and geomechanics. Dr. Hashmi holds a Bachelor's degree in chemical engineering from University of Minnesota, and Master's and PhD degrees in petroleum engineering from Texas A&M University. During his time in the industry, Dr. Hashmi has worked extensively on reservoirs globally, analyzing pressure transient tests in different lithologies worldwide. He has authored more than 15 industry publications and holds four patent applications. He conducts internal trainings on aspects of reservoir engineering and formation testing and sampling.

WORKSHOP 2: Introduction to Borehole Image Log Data Analysis

Date: Saturday, May 17, 2025
Time: 8:00 am – 4:30 pm
Place: Room - Malva + Magnolia
Organizer(s): BHI SIG

Abstract: This workshop is designed to introduce the functionality of borehole hole image log data. Participants will acquire knowledge on how to use this data for the description of stratigraphic and structural features as well in-situ stress related features in vertical and horizontal wells. The workshop will describe the acquisition of data, QC and most common pitfalls and will discuss real life examples from the field.

Objectives: Participants should leave this workshop with a good understanding about the functionality and analysis of borehole image log data.

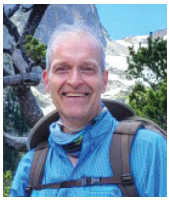
Expected Outcomes: By the end of the workshop, participants will have a basic understanding of how borehole image tools work, how to identify structural and sedimentological features and how to read and understand borehole image log data

Instructor Biographies:

Tegwyn Perkins, Principal Technical Advisor at Geoactive, has over 30 years in the oil and gas industry, including roles at Halliburton and petrophysical software houses. He holds a doctorate in Rheology and Computational Fluid Dynamics from the University of Wales and has co-authored numerous papers on formation evaluation and machine

learning. A dedicated SPWLA member, he served as President (2022–23) and received the Distinguished Service Award in 2019. An avid sports enthusiast, he manages an amateur football club so best to keep him focused on borehole images rather than the benefits of the 4-2-3-1 formation.

Peter Barrett is Product Champion for Wireline Images at Halliburton. Peter Graduated with a Batchelor of Science in Mathematics, Modelling and Computing from Kingston University in London. He has over 30 years of experience working with image logs around the world, in Geoscience, Software Development and SME roles at both service companies and independent consultancies. He still loves to watch an image log being recorded and prefers the grey scaled images to these modern fangled earth tones.



Bernd Ruehlicke is president of Eriksfiord, Inc. part of the Eriksfiord group, a geoscience provider with focus on image/sonic log based geological and geomechanical studies. Bernd contributed to most of the geological applications modules of Recall (Halliburton) during his time at Z&S (Stavanger/Norway. At PGS and Landmark, he built the interface between the Petrobank (Oracle) database and Recall, and worked on R&D projects such as the Java DecisionSpace platform. Bernd is now developing the business of the Eriksfiord group in the Americas. Bernd holds a BS in Computer Science and MS in Mathematics from Aarhus University, Denmark. He has an MBA from the University of Houston-Victoria, USA

Chandramani Shrivastava is Geology Advisor for Schlumberger Well Construction, based out of its HQ at Sugar Land, TX. He holds M.Tech in Applied Geology from IIT-Rookee (India) and MS in Petroleum Engineering from Heriot Watt University (UK). He has worked in India, Middle East, South East Asia, West Africa, and US in various technical profiles dealing with well logs. His 20 years of industry-experience include borehole imaging technology development on wireline and LWD, and processing & interpretation. Currently he is working on developing geology while drilling automation workflows with LWD images and surface logging measurements.

Shim Yen Han (Yenny) is a Principal Petrophysicist, working as a Measurement Domain Champion supporting LWD business in South East Asia. She joined Schlumberger after graduated from University Technology of Malaysia with a Bachelor degree in Petroleum Engineering. She has 26 years of experience in the oil & gas industry started as drilling engineer, moved to the field as LWD engineer, continued as well placement engineer and later began supporting LWD operation and interpretation in China, Japan, North America and South East Asia.

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Susana Gutierrez Carrilero earned her Master's Degree in Civil Engineering from Politechnical University of Catalonia based in Barcelona, Spain. Having 17 years of experience with Halliburton Sperry Drilling, she has been an LWD engineer in West Africa, a geosteering specialist in the USA, Mexico, and Europe, a Principal LWD Technical Advisor in Denver, CO and currently serves as Global Product Champion for LWD Imaging. Prior to her time with Halliburton, Susana worked as an LWD Engineer in Norway and West Africa for Schlumberger.

Bastian Roters is Senior Sedimentologist and Co-Founder at NiMBUC Geoscience with over 15 years of experience in sedimentological analysis of borehole image log data. Bastian holds a master's degree in Geoscience form the Technical University of Clausthal, Germany and has particular experience in deltaic and clastic shallow marine environments in North Africa and the Indus Basin as well as carbonates in the Alpine Foreland Basin. Experience with structural BHI interpretation in carbonates from Northern Iraq. Is familiar with different BHI tools and open hole logs.

WORKSHOP 3: New Advances in NMR Techniques and Applications

Date: Saturday, May 17, 2025
Time: 8:00 am – 4:30 pm
Place: Room - Senna

Organizer(s):
Kristopher Farmer (Kristopher.Farmer@corelab.com)
Nate Bachman (hbachman@slb.com)
Radu Coman (Radu.Coman@BakerHughes.com)

Abstract:
For this 2025 nuclear magnetic resonance (NMR) educational workshop we will span topics starting with the basics of NMR in the oil and gas industry and ending with implementation of advanced techniques to characterize subsurface reservoirs. The history of NMR, followed by NMR core and log subtopics will provide the bedrock to understand and optimize with value of NMR programs. Case studies presented will provide the framework for participants to maximize the value of their acquired NMR data.

Objectives:
- Familiarize participants with background and history of NMR
- Gain knowledge of different NMR core tests and testing protocols in both conventional and unconventional reservoirs.
- Understand the benefits of both wireline and LWD NMR in characterizing subsurface formations.
- Learn from case study examples, on how to maximize the value of core and log NMR in characterizing reservoirs.

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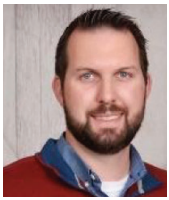
Expected Outcomes:
By the end of the workshop, participants will…
Participants will be introduced to the fundamental physics and chemistry of reservoir rocks and fluids as illuminated by modern “everyday” and advanced NMR log and core analysis methods. Introductory sessions will cover NMR physics, NMR core analysis and NMR logging. The final sessions will include case studies implementing knowledge learned in the introductory sessions.

Instructor Biographies:

Radu Coman is a Senior Principal Physicist at Baker Hughes. He received his PhD in Geophysics from the University of Hamburg. Since joining Baker Hughes in 2006, he has held various positions, including Physicist, Geophysicist, Petrophysicist, Logging-While-Drilling Technology Development Project Manager, and was the NMR Technology Domain Lead.

With 15 granted US patents and over 20 publications, Radu has made significant contributions to the field. He is an active member of the NMR SIG board and served as the Organizer and Chair of the SPWLA NMR-SIG Conference in Rio de Janeiro in 2024. Additionally, he is a member of the SPWLA and the SPE. In his current role, Radu leads innovative projects focused on advancing NMR logging technologies.

H. Nate Bachman is the Physics Discipline Manager and Interpretation Engineering NMR Advisor at the SLB Houston Formation Evaluation Center. He received a BS degree in physics from Valparaiso University, Indiana, USA and a PhD in physics from Northwestern University, Illinois, USA. He held a research associate position at Harvard University, Massachusetts, USA after which he joined SLB. Nate has worked for over two decades on research and engineering relating to NMR logging tools and applications, including 2 years of research at the Dhahran Carbonate Research Center in Saudi Arabia. Nate was an SPWLA Distinguished Speaker in 2015, and is a member of SPE, SPWLA, and the American Physical Society. Nate is currently serving as the SPWLA NMR SIG executive board president.



Kristopher Farmer is a Petrophysicist and Rock Properties Technical Advisor for Core Laboratories, based in the UAE. Prior to his current position Kris gained experience in core analysis while working in several laboratory roles across Core Laboratories including group leader in charge of laboratory operations for the Nuclear Magnetic Resonance group.

Kris holds a BS degree in Geology from Lamar University and a MS in Geology from Sul Ross State University. He is a board member of the SPWLA NMR SIG

(Special Interest Group). His work is focused on core to log integration developing multi-variate surface relationships to characterize subsurface reservoir properties. This includes integration of advanced logging suites such as wireline NMR to improve target selection and reduce uncertainties in reservoir parameters.

Ron Balliet, Halliburton Wireline and Perforating & Sperry Drilling, is the Global Product Champion for Magnetic Resonance. Ron began his career in 1984 as a wireline field engineer and joined NUMAR in 1991, working with oilfield NMR in several locations worldwide including a position as Regional Operations Manager for the North Sea, Middle East and West Africa. Since 1997, he has held various positions with Halliburton in West Africa and the USA and in 2006 became the Global Product Champion LWD and Wireline NMR. He has been involved with the design and interpretation methods for seven wireline and LWD magnetic resonance sensors. He has published over twenty technical papers and seven NMR related patents.

Ron has Bachelor of Science degrees in geophysics and geology from the Institute of Technology at the University of Minnesota. He is a member the Society of Petrophysicists and Well Log Analysts and a SPWLA Distinguished Technical Achievement Award recipient; the Society of Petroleum Engineers and has served as a SPE Distinguished Lecturer; and a member of the American Association of Petroleum Geologists.

Marie Van Steene is an advisor petrophysicist and is presently LWD Petrophysics Domain Champion for SLB Well Construction Measurements in Saudi Arabia. Marie graduated in 2000 with a MSc in Mechanical Engineering from Ecole Centrale Paris and Universite Libre de Bruxelles. She has worked for nearly 20 years as a petrophysics domain champion, both with wireline and LWD technologies. She has experience with multiple NMR technologies and has contributed to the development of NMR interpretation workflows and integration with other measurements to enhance reservoir understanding. She has been a leader of the SLB Dielectric, NMR and carbonate evaluation special interest groups for several years. She serves as a SPE Distinguished Lecturer in 2024-2025. She is currently VP Technology in the SPWLA Saudi Arabia Chapter committee.

Sean Dolan is the Global Discipline Manager and TA1 for Petrophysics-Geomechanics at Shell's Upstream LNG-CCS division, based in the UK. Sean joined Shell in 1997 after completing a PhD in geophysics at University College Dublin, Ireland. Over his career, he has held R&D roles in the Netherlands and Houston, as well as operational assignments across Malaysia, Oman, Russia, and Kuwait, contributing deep technical expertise to all aspects of the E&P business.

WORKSHOPS

WORKSHOP 5: Petrophysics in the Energy Transition

Date: Saturday, May 17, 2025
Time: 8:00 am – 4:30 pm
Place: Room – Orchid

Organizer(s): ASET (Alternative Subsurface Energy) Transition SIG
Robert Laronga, SLB, Tom Bradley, Baker Hughes, Femi Onita, Shell, Gerold Tischler, Alt. Earth Product Champion

Abstract: The Energy Transition Petrophysics Workshop aims to equip oil and gas petrophysicists with an awareness of Energy transition petrophysics. The workshop will cover various aspects around geological carbon storage and geothermal exploration. The workshop will include common methodologies and well examples from a variety of geological settings, risk and uncertainty identification, and logging and coring program design. The Petrophysicist role in the energy transition is essential to successfully deliver projects. We provide key, appropriate, fit for purpose data acquisition programs to measure: 1. storage capacity estimation 2. transport & injectivity measurements 3. containment assurance 4. monitoring and remediation. The overall goal is to demonstrate that oil and gas petrophysicists have the skills that are necessary to make the transition into Energy Transition petrophysics.

Objectives: Participants will gain further insight into the current state of Energy Transition Petrophysics, using well data and current logging appraisal plans from well examples around the world. We will be discussing the current projects and demonstrating using petrophysical software.

Expected Outcomes: By the end of the workshop, participants will have a raised awareness of the various Petrophysical themes in the Energy Transition in 2025, with awareness of examples and challenges currently being faced and learn new skills for Geothermal log analysis and CO2 Storage calculation and workflows which address the uncertainties in Carbon Capture and Storage projects.

Instructor Biographies:

Robert Laronga - **Petrophysics Domain & Principal Geologist, CCUS, Energy Transition, & Unconventional Resources at SLB**
Rob has 30 years of experience at SLB, working as an engineer, manager, geologist, and petrophysicist in the US and internationally. With the present wave of CCS activity, Rob has participated in over 80 appraisals plus 7 MMV programs on actively injecting projects. He serves SPWLA Petrophysics journal as Associate Editor, Energy Transition, and he has coauthored five SPWLA papers on CCS, one of which received a 2023 Best Journal Paper Award and one of which received a 2024 Best of Symposium Award.

WORKSHOPS

Tom Bradley- **Associate Fellow at Baker Hughes**
Tom Bradley, Associate Fellow with Baker Hughes, has worked in the oil and gas industry since 1997. Based in the Netherlands since 2005, he is involved in geothermal energy development, particularly low temperature doublet systems for district heating. He is a recipient of the 2021 SPE North Sea Region Formation Evaluation award. He is a two times SPE Distinguished Lecturer in 2021-22 and 2023-24 on the application of oil and gas subsurface methodologies to geothermal. He is also active in several professional societies, including SPWLA and SPE.

Femi Onita- **Lead Petrophysicist at Shell**
Femi has 18+ years' experience with Shell working in different petrophysics and subsurface coordination roles across multiple geographic locations. Femi played a vital role in the flagship CCS project in the Netherlands which aims to permanently inject and store CO2 into depleted Southern North Sea gas fields. Femi was the Technology and R&D lead that focused on developing alternative solutions to the critical project risk of hydrate formation associated with cold injection in these depleted gas fields. He is a recipient of LPS award and SPWLA guest speaker.

Kelly Skuce- **Chief Petrophysicist at Core Petrophysical | SPWLA VP Education 2022-24**
A petrophysicist with 25 years of experience working within and leading multi-disciplinary groups of specialists and geoscientists. Extensive experience in conventional and unconventional fields from exploration to development. Experience in geothermal, helium, and CCUS development. Encourages mentorship and education in petrophysical techniques and core-well log integration.

Gerold Tischler- **Petrophysical Advisor and Alt. Earth Product Champion**
Gerold has 20 years of global Geology and Petrophysics experience. He currently holds the role of Petrophysicist & Alt. Earth (AE) Product Champion at Alternative Earth,where he is developing energy transition Petrophysical evaluation tools. Gerold previously held the position of Petrophysical Advisor at DNO ASA, managing reservoir characterization projects, advising on business opportunities and optimizing logging programs around the world. Gerold was a Research Fellow at the University of Aberdeen, and has authored papers on Machine learning using the Gaslog Algorithm- now nDPredictor and DTA in Interactive Petrophysics software.

WORKSHOPS

WORKSHOP 4: Uncertainty and Petrophysics

Date: Sunday, May 18, 2025
Time: 8:00 am – 4:30 pm
Place: Room – Senna

Organizer(s):
Russell Farmer, ADNOC
Rick Aldred

Abstract: The Uncertainty and Petrophysics workshop will focus on the importance and estimation of petrophysical uncertainty. The workshop will introduce risk, uncertainty and bias, the importance of petrophysical model choice, assessment of log and core inputs and how uncertainty can be affected by different workflows. Case Studies, Toolkits and exercises will be used to illustrate the potential impact of petrophysical uncertainty on volumes and reserves and links to VOI and data acquisition programs.

Expected Outcomes: By the end of the workshop, participants will have an excellent understanding of the importance of front end loading analysis, how to assess petrophysical uncertainty and associated challenges and how to approach these challenges in their own reservoirs.

Instructor Biographies:

Russell Farmer has more than 30 years of oil and gas industry experience including twelve years with Shell, six years as a consultant and twelve years with bp. In bp, Russell led teams in Iraq, Angola, Global Assurance, Middle East Oil and as Discipline Leader for Global Subsurface Solutions, Modelling and Rock Properties. Russell joined ADNOC in 2022 as Principal Petrophysicist and leads the discipline, focused on people development, technical standards, best practices and quality assurance of complex reservoirs. He is passionate about sharing knowledge and has spent fifteen years developing and facilitating training classes for formation evaluation professionals worldwide.

Rick Aldred has spent 45 years in the O&G industry, including 42 years in petrophysics. He spent 15 years with operating E&P companies, 10 years with logging companies, providing consulting services and training for their customers, 10 years in petrophysical software R&D, building advanced interpretation modules, customer liaison, and training for customers and support staff, followed by 10 years as an independent consultant. He has worked in Europe, North Africa, The Middle East, East and South-East Asia and Australia, and given presentations and training courses in many

other parts of the world. His special interests include integrating different data types, complex heterogeneous formations, applying petrophysical techniques in mining, CCS and other non-O&G applications, and uncertainty quantification.

WORKSHOP 7: Cased-hole Nuclear Logging- ***Basics, Advances, and Novel Applications***

Date: Sunday, May 18, 2025
Time: 8:00 am – 4:30 pm
Place: Room - Orchid
Maximum Capacity: 50

Organizer(s): Ahmed Badruzzaman & Dale Fitz

Abstract: Pulsed neutron techniques have evolved from determining remaining hydrocarbons to monitoring CO_2 injected for carbon capture and sequestration (CCS). This workshop will survey basics of associated techniques, compare best practices/ lessons learned especially from Middle East fields, discuss recent technological advances. including recently deployed multiple-detector tools that make multiple measurements simultaneously and delineate gas better than older pulsed neutron tools. The topics to be covered include pulsed-neutron capture (PNC) vs. carbon/oxygen (C/O) for saturation determination especially in complex completions, three-phase saturation computation, gas delineation using newly developed three-detector tools, approaches to locate water entry, and application of PN tools in CCS projects to verify well integrity and vertical distribution of stored CO_2. A brief discussion of how modeling can be used to assess PN tools, a priori, will be included.

Tool designers and operating company practitioners of the art will share their perspectives. The discussion will include best practices, job planning, and tips on performing quality control of interpreted results. Attendees will see examples from a variety of cased-hole tools to judge their strengths and weaknesses. Suitable but brief in-class exercises with field examples to consolidate concepts discussed will be incorporated.
Objectives: Introduce the basics and practice of pulsed neutron techniques, associated dual- and multiple-detector tools, recent advances in detection & interpretation techniques, and their growing applications in low-carbon energy systems.

Expected Outcomes: By the end of the workshop, participants will be able to compute S_w from CH tools, delineate potentially productive zones, recognize impact of fluids in casing/ cement regions, and understand evolution of the CO_2 plume in CCS projects.

WORKSHOPS

Biographies of Organizers:

Ahmed Badruzzaman spent over thirty-five years studying nuclear logging techniques including over twenty of them as a Cased-hole subject matter expert at Chevron Energy Technology before his retirement. He currently teaches PetroSkills' four/five-day Cased-hole Formation Evaluation Course, consults for the US Department of Energy, teaches at University of California, Berkeley, and is exploring application of pulsed neutron techniques to geological probing needed in low-carbon energy systems. An author of over 50 papers, two patents both in cased-hole technology, and an upcoming textbook on nuclear logging, Ahmed is a two-time SPWLA Distinguished Speaker, a two-time SPE Distinguished Lecturer, former Editor of the journal, *Petrophysics*, the founder and chairperson of the SPWLA Nuclear Logging SIG, and a Fellow of American Nuclear Society. He holds a Ph. D. in Nuclear Engineering and Science from Rensselaer Polytechnic Institute, Troy, NY. He has won several awards from the SPWLA and the SPE, including a Distinguished Technical Achievement award from the SPWLA in 2019.

Dale Fitz spent thirty four years studying open-hole shaly sand techniques and cased-hole formation fluid contact monitoring techniques, and practicing production logging at various ExxonMobil affiliates. He was a co-developer of Exxon's Cased-hole Nuclear Logging School and was the primary developer of ExxonMobil's Cased-hole and Production Logging School. At the time of his retirement, Dale was a Senior Technical Consultant in Formation Evaluation and Operations Geology. Since retiring, he teaches a five-day course on Production Logging for Petroskills He has authored 41 papers, is a former SPWLA Distinguished Speaker, former SPWLA and SPE Associate Editor, a member of the SPWLA and the SPE, and a co-founder and secretary of the SPWLA Nuclear Logging SIG. He has a Ph.D. in Physical Chemistry from the University of Illinois. He won a Distinguished Technical Achievement Award from the SPWLA in 2024.

WORKSHOP 9: Petrophysics Intelligence and Automation with Python, Machine Learning, and Gen AI

Date: Sunday, May 18, 2025
Time: 8:00 am – 4:30 pm
Place: Room - Magnolia

Organizer: Chicheng Xu, Nader Gergers, Carlos Torres-Verdin, Oriyomi Raheem, Guangzhi Liao

Abstract: The "Petrophysics Intelligence and Automation with Python, Machine Learning, and Gen AI" workshop aims to equip participants with the knowledge and skills to leverage Python/Machine Learning/Gen AI on various platforms for advanced petrophysical analysis and automation. This workshop will cover the integration of machine learning techniques, data analytics, and automation processes to enhance the efficiency and accuracy of petrophysical evaluations. Advanced Gen AI tools will be utilized to assist automating petrophysical workflows.

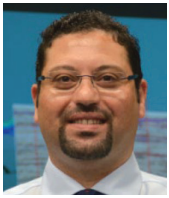
Objectives:

1. Introduce participants to the fundamentals of Python programming and its applications in petrophysics.
2. Demonstrate the use of Python libraries such as NumPy, Pandas, and Matplotlib for data manipulation and visualization.
3. Explore machine learning algorithms and their applications in petrophysical data analysis.
4. Provide hands-on experience with automating petrophysical workflows using Python scripts in petrophysics interpretation platforms.
5. Discuss case studies and real-world applications of Python/Machine Learning in petrophysics.
6. Demonstrate utilization of Gen AI tools for automating petrophysical workflows.

Expected Outcomes: By the end of the workshop, participants will have a solid understanding of how to use Python/Machine Learning/Gen AI for petrophysical analysis and automation. They will be able to apply machine learning techniques to petrophysical data, automate routine workflows, and enhance their overall productivity and accuracy in petrophysical evaluations.

Instructor Biographies:

Chicheng Xu is the founder and chief scientist of OpenPetro AI, a company that leverages various open-source AI/ML technologies to solve energy industry problems. He joined the Aramco Houston Research Center in 2017 and worked as a research Petro physicist in the geology innovation and AI Technology teams. His research focused 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 from the Petroleum & Geosystems Engineering Department of UT Austin in 2013 and worked as a Petro physicist/rock physicist for BP America and BHP Billiton from 2013 to 2017. He cofounded 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 Petrophysics and SPE Reservoir Evaluation & Engineering. He was selected to receive the Regional Formation Evaluation Technical Award from the 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 Regional Data Science and Engineering Analytics Technical Award in 2022.



Nader Gerges has been an esteemed member of the SPWLA since 2004. He currently serves as a Senior Specialist Petrophysicist within the Advanced Geoscience Solutions team at ADNOC's Thamama Excellence Centre. In this role, he supports best practices in Petrophysical modelling, reservoir characterization, EOR, and reservoir model assurance across the ADNOC Group of Companies. Nader Gerges holds a bachelor's degree in Electronics and Robotics Engineering from Cairo University and brings with him an impressive 24 years of experience in the oil and gas industry. His areas of expertise encompass Petrophysical Modelling, Reservoir Characterization, Reservoir Monitoring, Geosteering operations, and developing Digital solutions for enhanced reservoir management and Field Development plan optimization. Throughout his illustrious career, he has contributed to projects worldwide, including in Egypt, Indonesia, Thailand, the UK North Sea, the US Gulf of Mexico, Norway, Canada, Nigeria, Iraq, Congo, Libya, and the United Arab Emirates.

Oriyomi Raheem is a Ph.D. candidate in the Hildebrand Department of Petroleum and Geosystems Engineering and a Graduate Research Assistant in the Formation Evaluation Consortium Research Program at The University of Texas at Austin. He received his MSc degree in Petroleum Engineering from the Khalifa University of Science Technology. He is currently an officer of The SPWLA Student Chapter at The University of Texas at Austin.

Carlos Torres-Verdín received a Ph.D. in Engineering Geoscience from the University of California at Berkeley in 1991. During 1991-1997, he held the position of Research Scientist with Schlumberger-Doll Research. From 1997-1999, he was Reservoir Specialist and Technology Champion with YPF (Buenos Aires, Argentina). Since 1999, Dr. Torres-Verdín has been affiliated with the Department of Petroleum and Geosystems Engineering of the University of Texas at Austin, where he is currently a Full Professor, and holds the Brian James Jennings Memorial Endowed Chair in Petroleum and Geosystems Engineering. Dr. Torres-Verdín is the founder and director of the Research Consortium on Formation Evaluation at the University of Texas at Austin. He is the recipient of the Cockrell School of Engineering's 2016-2017 Lockheed Martin Aeronautics Company Award for Excellence in Engineering Teaching, the 2014 Gold Medal for Technical Achievement from the SPWLA, the 2008 Formation Evaluation Award from the SPE, and the 2006 Distinguished Technical Achievement Award from the SPWLA. He is a Distinguished Member of the Society of Petroleum Engineers (SPE), an Honorary Member of the Society of Exploration Geophysicists (SEG), and a receiver of the Conrad Schlumberger Award from the European Association of Geoscientists and Engineers (EAGE).

Guangzhi Liao is currently a Professor in the College of Geophysics and the College of AI, China University of Petroleum, Beijing. He received the B.S. degree in applied mathematics from the China University of Mining and Technology, Beijing, China, in 2004, and the Ph.D. degree in geology resource and geological engineering from the China University of Petroleum, Beijing, China, in 2010. From 2008 to 2009, he was a Visiting Scholar in the Department of Petroleum and Geosystems Engineering, University of Texas at Austin, Austin, TX, USA. From 2010 to 2012, he was a Post-Doctoral Fellow in the University of New Brunswick, Fredericton, NB, Canada. His research interests include Nuclear Magnetic Resonance logging, Petrophysics and Artificial Intelligence.

WORKSHOP 10: The Importance of Petrophysics in Resources, Reserves and Storage Estimation and Overview of PRMS and SRMS

Date: Sunday, May 18, 2025
Time: 8:00 am – 4:30 pm
Place: Room - Malva

Organizer(s)
SPWLA Hydrocarbon Resources SIG (reserves_sig@spwla.org)
Javier Miranda, Demac, Luis Quintero, Halliburton, Philip Gibbons, Gaffney Cline, Joshua Oletu, Gaffney Cline, Brett Gray, Ryder Scott, Maria Florencia Segovia, SierraCol Energy

Abstract: Resources, Reserves and Storage estimation is an essential task in our industry for internal resources accounting, risk assessment, financial transactions, and regulatory reporting. To ensure consistency, transparency and reliability for these estimations, several entities (E&P industry, governments, and stock markets) have developed estimation guidelines. This workshop will cover the most prevalent and internationally recognized industry guidelines, the Petroleum Resources Management System (PRMS) and Storage Resources Management System (SRMS), sponsored by SPE, AAPG, WPC, SPEE, SEG, EAGE and SPWLA. So, what is the role of Petrophysics in Resources, Reserves, and Storage assessment in line with these guidelines?

Objectives: The participants will understand concepts of formation evaluation in the context of Reserves, Resources and Storage estimation, and ultimately their impact on asset value, as well as oil, gas, and energy transition projects. Attendees will understand petrophysics' key role in defining and estimating hydrocarbon resources/reserves in traditional E&P projects and storage resources/capacity in CCUS (carbon capture, utilization, and storage) projects. In addition, attendees will develop a foundational comprehension of the principles, minimum standards, norms, and guidelines for analyzing Petrophysics-related data used as input to Reserves, Resources and Storage estimation. We will provide guidance for the definition of rock properties in the assessment of Hydrocarbon Resources and Storage Capacity and future updates of PRMS and SRMS.

Expected Outcomes: By the end of the workshop, participants will understand the key role that petrophysics plays in Reserve, Resource, and Storage estimation and how this impacts asset value and the influence of Petrophysics in CCUS projects.

Instructor Biographies:

SPWLA Hydrocarbon Resources SIG President

Javier Miranda is a Senior Petrophysicist for DeGolyer and MacNaughton, a leading independent consulting firm since 1936. He works in different world-class projects related to reserves and reservoir studies around the globe. Javier has more than 26 years of industrial experience as a Petrophysicist. He started his career in PDVSA where he worked in operations, data acquisition and reservoir studies for 13 years. Then Mr. Miranda moved to BP America Inc. where he worked for five years in Gulf of Mexico projects as reservoir description and operations petrophysicist.

Javier earned a BSc from Universidad del Zulia and an MSc from the University of Texas at Austin, both in Petroleum Engineering. He also holds a Diploma in Integrated Petrophysics from the former PDVSA School of Petrophysics. On the academia, he served as Adjunct Professor and Lecturer for Formation Evaluation and Graduate Research Assistant. Javier is an active member of SPWLA, SPE, AAPG, SEG, HGS and GSH.

He is the current President for the SPWLA Hydrocarbon Resources Special Interest Group (SIG), past SPWLA international board member, past Houston Chapter president, among other voluntary positions in professional societies. Mr. Miranda was the general chairman for the SPWLA International Conference in 2023 and part of the technical committee for SPWLA Symposiums between 2019-2024. He is co-founder of the SPWLA YP global group where he serves as editor for the SPWLA Today Newsletter. Mr. Miranda received the SPWLA Meritorious Service Award in 2021. Besides, he is a past SPWLA and SPE officer in other chapters in USA and overseas as well as committee member for past international and local conferences.

SPWLA Hydrocarbon Resources SIG – Advisor and Past President

Dr. Luis Fernando Quintero began his oil career in the oil fields of India in 1994. Since then, he has worked as a petrophysicist, reservoir engineer, asset evaluation leader, production manager, financial analyst, and reserves auditor. He has worked in Venezuela, India, USA, Georgia, Azerbaijan, Russia, Ukraine, Greece, Indonesia, United Arab Emirates, Colombia, and the United Kingdom.

Dr. Quintero started in the SPWLA in 1993 with the reactivation of the Venezuelan chapter. He was a member of the Technology Committee 1997-2005; director for Europe,

2002; vice president of finance, 2005; in 2014, vice-president of technology and in 2015, elected president of the SPWLA worldwide. He has chaired talks at conferences in Japan, Australia, Norway, Colombia, Mexico, Australia, Scotland, Abu Dhabi, USA, and Canada.

Luis's has been qualified to perform reserves reports, and audit reports for private companies in USA, and for public companies traded in the Toronto Stock Exchange, the Australian Stock Exchange, and for Petrosa, in South Africa.

He has also had the opportunity to be the keynote speaker and give his perspective of the oil industry for TV in India, Colombia, London, Houston, Japan, Nigeria, Azerbaijan, and Saudi Arabia. He has written about energy policy in the World Energy Monthly Review.

Luis Fernando Quintero holds an Electronic Engineer from Universidad Simón Bolívar – Venezuela, with a Master's and Doctorate in Petroleum Engineering from Louisiana State University – USA; he has 14 patents and more than 35 technical publications.

SPWLA Hydrocarbon Resources SIG – Vice President

Phil Gibbons is a Senior Advisor in Petrophysics at GaffneyCline Energy Advisory, based in the U.K. Phil has over 20 years' experience working for a number of consulting groups. Since joining GaffneyCline in 2011, he has conducted numerous reserves assessments, technical due diligence studies, CPR's, and unitization roles, as well as technical support for multiple Expert Witness projects. He is the current Vice-President for the SPWLA Hydrocarbon Resources Special Interest Group (SIG), having previously served as Secretary and is also the current President of the London Petrophysical Society (LPS).

SPWLA Hydrocarbon Resources SIG – Advisor and Past President

Joshua Oletu is a Principal Advisor at Gaffney, Cline & Associates' western hemisphere headquarters in Houston. He has some 30 years of experience in the international oil and gas arena and has carried out numerous field studies, reserve assessments, and asset evaluations.

Joshua began his career in 1988 as a Wellsite Petroleum Engineer with Shell Petroleum Development Company, Nigeria and had international postings to the Netherlands, and USA. In 2007, he joined GCA in the United States.

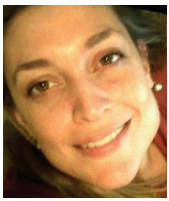
He has a B.Eng (First Class) in Mechanical Engineering from University of Benin, Benin City, Nigeria and MBA, New York Institute of Technology (USA). Joshua is a member of SPE and the Society of Petrophysicists and Well Log Analysts (SPWLA).

SPWLA Hydrocarbon Resources SIG – Secretary

Brett Gray, P.G. is a Senior Vice President – Project Coordinator at Ryder Scott Company and a geoscientist based in Houston, Texas. He has over 17 years of experience conducting evaluations in the international oil and gas industry, specializing in petrophysical evaluation, reserve/resource evaluation, and static reservoir modeling for dynamic simulation. His experience includes reservoirs utilized for conventional, unconventional, storage, geothermal, and mineral extraction. He has conducted numerous petrophysical evaluations, integrated reservoir studies, reserve/resource certifications, process audits, acquisition/divestiture due diligence, and provided expert opinions supporting litigation, unitization, and government audits. Brett has also taught and co-developed several courses covering geoscience fundamentals and the application of reserve/resource guidelines for Ryder Scott clients.

Brett holds a Bachelor of Science in Geology from Texas A&M University and is a licensed Professional Geoscientist by the State of Louisiana. He is a member of the American Association of Petroleum Geologists (AAPG), the Society of Petrophysicists and Well Log Analysts (SPWLA), the Society of Petroleum Engineers (SPE), and the Houston Geological Society (HGS). He is the current secretary of the SPWLA Hydrocarbon Resources Special Interest Group (SIG).

SPWLA Hydrocarbon Resources SIG – VP Communications



Maria Florencia Segovia is a Petrophysicist Senior at SierraCol Energy in Colombia. She has 17 years of experience in the international oil and gas industry.

FIELD TRIP

Geology of Jebel Hafeet Anticline, Al Ain, UAE

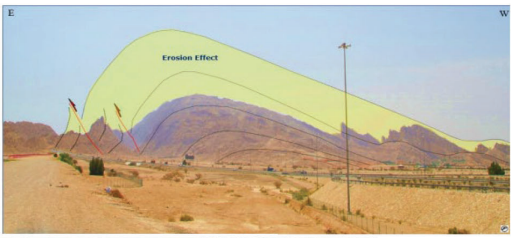
Organized by: Dragon Oil G&G Team
Instructors: Hasan Guney, Magdi Eldaly
Date: Saturday, May 17, 2025
Time: 6:30 a.m. – 5 p.m.

Overview: Jebel Hafeet Mountain, located at South of Al Ain extend to Oman border area, is a steep, elongated, sigmoidal shaped asymmetrical anticline where Eocene-Oligocene succession have been outcropped. This field trip will enable participants to observe facies changes, diagenesis history, structural configuration such as faulting, folding and fracture networks that are applicable to models of sub-surface carbonate reservoir characterization and performance.

Who Should attend: This 1 day fieldtrip designed for Geologist, Geophysics, Petrophysicists, Petroleum Engineers, and Drilling Engineers who work on subsurface mapping and prospect generation, carbonate reservoir characterization, reservoir performance and drilling challenges, etc.

Key outcrop risks
The key outcrop risks can be summarized as follows: Slips, trips and falls
Limited walking is required to get to the outcrops. Most of the walking is over boulder fields along the Wadi floor. Some steeper ascents and descents to/from the outcrop, over scree are necessary. When crossing scree it is very important to watch your footing and what is around you. Hiking boots with ankle support and good grip is essential and absolutely necessary. It is also important to keep your hands free for additional contact & stability walking up and down slopes. The carbonates weather to sharp surfaces in this climate and a pair of garden gloves or light leather gloves can help to protect your hands. Wearing a helmet is essential for head protection in the event of a slip.

Unstable cliffs, rock falls. Some of the cliffs are high and can be subject to rock falls. The cliffs are made of massive carbonates and a dynamic assessment of stability must be made prior to approaching assessed. Be sure to wear the helmet all the times when working near wadi cliffs and do not work under overhangs. When at the top of cliffs, do not approach the edge. Take care when ascending/descending to ensure you do not loosen rocks and cause danger to people above or below.



SAFETY TIPS

Dubai is one of seven emirates that make up the United Arab Emirates. It is considered the global business and cultural hub of the Middle East. Below, you will find some beneficial travel information about Dubai.

BANKS
All international banks have branches in the city. ATMs are widely available.

BUSINESS HOURS
The working week is Sunday to Thursday with Friday and Saturday being the weekend. Most shops are open every day from 10am to 10pm. Embassies, consulates and government offices operate from 7.30am-2.30pm.

CLIMATE
A sub-tropical, arid climate ensures clear blue skies almost throughout the year. Winter may see a few light rain showers. Temperatures vary from season to season: January can fall to a low of 15°C/59°F, while July can rise to a high of 48°C/118°F.

CREDIT CARDS
Major credit cards such as American Express, Diners Club, MasterCard and Visa are accepted in most hotels and shopping malls.

CURRENCY
The UAE currency is known as the Arab Emirate Dirham denoted by AED, or more commonly Dhs. One dirham is divided into 100 fils. The dirham is pegged to the US dollar at a mid-rate of approximately US$1=Dhs 3.67.

DRESS CODE
As a sign of respect for local customs and traditions, a modest dress code is advised. Wearing revealing clothing in public places should be avoided. Swimwear is acceptable at hotel pools, resorts and beaches. Before leaving those areas, ensure you cover up.

DRINKING WATER
Tap water is considered safe to drink. However, it is common to drink bottled water.

ELECTRICITY
The electricity supply in the UAE is 220/224 volts at 50 cycles using a UK-style three-pin plug. US-made appliances may require a transformer.

EMERGENCY SERVICES
Emergency phone number for ambulance and police is 999. The number can be called from any telephone. The operator will speak English.

GREETING
The acceptable male greeting on meeting a Gulf Arab is to stand up and shake hands. However, for a man to shake the hand of a Muslim woman (and vice versa) is, in most circumstances, considered unacceptable. Local women will usually not offer their hand to a man and will nod and smile instead and some local men prefer not to shake hands with women. If in doubt, wait until a hand is offered when meeting someone for the first time.

LANGUAGE
Arabic is the official language of the UAE. English is widely spoken and understood.

MEDICAL SERVICES
Medical care in Dubai is of international standard and is widely available. Dubai Health Authority (DHA) regulates all medical services in the emirate. Rashid, Latifa and Dubai Hospitals are operated by DHA itself and all emergency services are free for both residents and visitors.

PERSONAL CONDUCT AND ETIQUETTE
Rude and arrogant behaviour is unacceptable. Public displays of affection are considered disrespectful. There is zero tolerance for driving under the influence (DUI), and inappropriate behavior while under the influence of alcohol. Swearing is considered offensive. During the holy month of Ramadan, eating, drinking and smoking in public is strictly prohibited.

PHOTOGRAPHY
There are many great opportunities to take photographs in Dubai. It's recommended to ask for permission before taking photos involving people unknown to yourself. Photographing military installations, government buildings and private premises is prohibited.

PUBLIC TRANSPORTATION
Dubai Metro is a modern and fully automated rail system connecting Dubai International Airport with Dubai International Convention & Exhibition Centre (Dubai World Trade Centre), hotels and the shopping and entertainment district in Downtown Dubai. Taxis are plentiful, efficient, metered and reasonably-priced, with well-trained and courteous drivers.

TELECOMMUNICATIONS
Telecom services are provided by Etisalat and Du. Direct dialing is available to most countries. Calls made from one fixed line to another within Dubai are free. The country code is +971 and the area code is 04.

TIME
Dubai operates on Gulf Standard Time (GST), which is GMT+4. There is no daylight saving.

TIPPING
This is not essential but a tip of 10 per cent is appreciated.

Wi-Fi
Free Wi-Fi is available at Dubai International Airport, Dubai Metro, hotels and in most shopping malls. Several public parks and beaches are also offering free Wi-Fi.

SOCIETY FUNCTIONS

STUDENT PAPER COMPETITION

Date: Sunday, May 18
Time: 8:00 a.m. – 5:00 p.m.
Room: Lilac + Freesia
This event will allow students competing to engage with colleagues from other schools and industry professionals. Graduate and undergraduate students will share their work and research for the opportunity of being awarded "best paper presentation". The competition will be held in three groups: Bachelor, MSc and PhD.

SPWLA ANNUAL BUSINESS MEETING AND LUNCH - SEATED

Date: Monday, May 19
Time: 12:15pm – 1:40pm
Room: Amazing Room
Fee: Complimentary with registration
The SPWLA Annual Business Meeting is a lunch meeting open to all delegate attendees. During this lunch the 2024-2025 President and Board Members will share the accomplishments made during their tenure. Followed by the introduction and welcoming of the 2025-2026 President and Board Members.

SPWLA AWARDS PRESENTATION LUNCH – SEATED

Date: Tuesday, May 20
Time: 12:15pm – 1:50pm
Room: Amazing Room
Fee: Complimentary with registration
The Annual Awards luncheon is open to all symposium delegates, their spouses and guest. During the lunch, individuals will be honoured and rewarded for their outstanding achievements and contributions to the Society and the industry.

SPWLA NETWORKING LUNCH – STANDING LUNCH

Date: Monday - Wednesday, May 19-21
Time: 12:15pm – 1:40pm
Room: Al Joud Ballroom C
Fee: Complimentary with registration
This lunch option is provided to our guest that will enjoy visiting with peers. NOTE: if you care to join the Business lunch or Awards lunch they are located in a separate area.

SOCIETY FUNCTIONS

SPWLA LEADERSHIP LUNCH*

Date: Wednesday, May 21
Time: 12:15pm – 1:05pm
Room:TBA
Fee: Complimentary with registration (check the box on the form to reserve a ticket)

*All current SPWLA Chapter Presidents (outgoing and incoming), SPWLA Parent, Past and Present Presidents, SPWLA Parent Regional Directors and SIG coordinators are invited to join this luncheon.

SPWLA CHINA CHAPTER CONFERENCE (POST SYMPOSIUM)

Date: Thursday, May 22
The SPWLA China Chapter will provide details.

SOCIAL EVENTS AND FUN RUN

EVENING RECEPTIONS

You are invited to spend your evenings while at SPWLA 2025 at receptions proudly hosted by our sponsors. We thank our loyal sponsors for their generous contributions and hospitality during our program.

ICEREAKER RECEPTION

Hosted by
Date: Sunday, May 18
Fee: Complimentary with registration
Join your colleagues at the Halliburton Ice Breaker event on Sunday evening. Event location to be announced.

MONDAY EVENING SOCIAL

Hosted by
Date: Monday, May 19
Fee: Complimentary with registration
Enjoy an evening with industry friends and new acquaintances. Event location to be announced.

TUESDAY EVENING SOCIAL

Hosted by
Date: Tuesday, May 20
Fee: Complimentary with registration
Make plans to attend. Event location to be announced.

FUN RUN!!

Sponsored by: Geoactive
Date: May 20st at 6 AM
Fee: Complimentary with registration

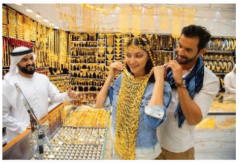
Join us for a sunrise run around the vicinity of the Hilton Hotel. First 35 participants to sign up at the registration desk will receive a free T-shirt. Don't miss out!

Please note that the event is subject to favorable weather conditions and may be subject to change.

SPOUSE/PARTNER PROGRAM

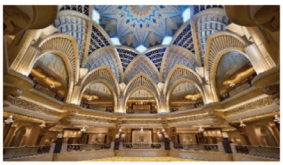
DUBAI TOUR

Date: Monday, May 19, 2025
Time: 10:00 am – 5:00 pm
Places: Visit to Gold & Spice Souq - Abra Crossing - Visit Dubai Mall - Burj Khalifa - Museum of the Future
Includes transportation and tickets (Meals not included)


ABU DHABI TOUR

Date: Tuesday, May 20, 2025
Time: 9:00 am – 5:00 pm
Places: Visit Grand Mosque - Heritage Village - Corniche drive through Louvre Museum - Emirates Palace
Includes transportation, tickets and Buffet Lunch [beverages are not included]



SHARJAH TOUR

Date: Wednesday, May 21, 2025
Time: 9:00 am – 5:00 pm
Places: Blue Souq – Mosque (photo stop) - Mamzar Waterfront - Sharjah Islamic Museum
Includes transportation and tickets (Meals not included)

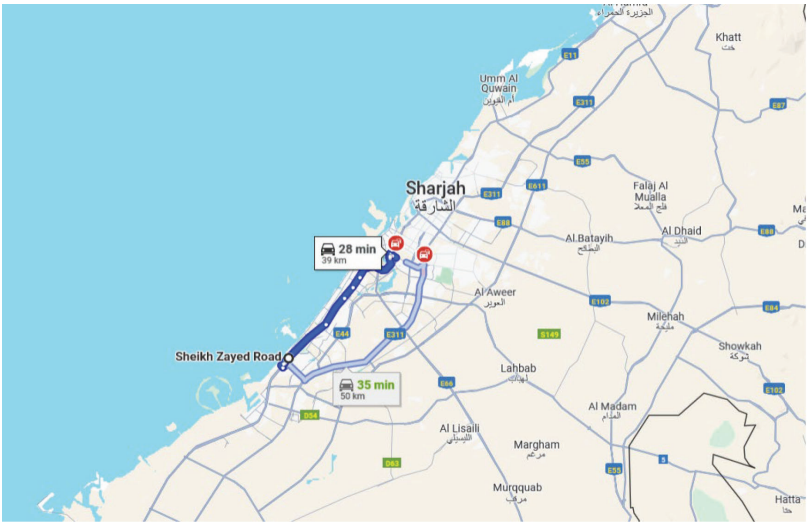

ACCOMMODATION IN DUBAI

Hilton Habtoor Hotel
Located in: Al Habtoor City
Address: Sheikh Zayed Rd - Dubai - United Arab Emirates

For reservations Direct link to the booking website**:**
https://www.spwla-dubai.live/booking-with-da

AREA AIRPORTS

Dubai International Airport to hotel



AWARDEES

GOLD MEDAL FOR TECHNICAL ACHIEVEMENT

Ahmed Badruzzaman, educated as a theoretical physicist, earned a Ph.D. in Nuclear Engineering and Science from Rensselaer Polytechnic Inst., Troy, NY in 1979 and went on to contribute to research on multiple energy technologies: high burnup nuclear fuel, nuclear fusion, novel nuclear-based subsurface techniques, and small energy systems for rural communities in developing countries. An early pioneer in radiation transport techniques, he utilized it to develop the 3-phase C/O-So algorithm to locate several hundred million barrels of un-accessed heavy oil reserves and the multiple-detector pulsed neutron tool concept, now a reality. Ahmed authored over 50 papers, two US patents, and a textbook on subsurface nuclear technologies soon to be published by Elsevier. He is a Fellow of the American Nuclear Society and has received numerous other recognitions including SPWLA Distinguished Technical Achievement in 2019. He served as Chief Editor of *Petrophysics*. He has spoken on his research around the globe, was a two-time SPE Distinguished Lecturer and a Distinguished Speaker of SPWLA twice. He was a consultant to the International Atomic Energy Agency (2011-2012 and 2024-2025), and an official reviewer of two US National Academies of Science reports (2008 and 2020).

Since retirement from corporate R&D in 2012, Ahmed has focused in two areas: (i) novel nuclear techniques e.g., to delineate geologic H_2 and to utilize Muons for monitoring deep nuclear waste repositories, both potentially key to geological probing in low-carbon energy generation (https://typeset.io/papers/nuclear-logging-in-geological- probing-for-a-low-carbon-3yxpeft65x) and (ii) educating the younger generation on this transition. On the former, he is also an SME consultant to the US Department of Energy. On the latter, he has been teaching the course, *Energy and Civilization,* he and two colleagues developed at University of California, Berkeley in 2016 https://bcourses.berkeley.edu/courses/1504904/pages/homepage).

Ahmed chairs energy panel of Bangladesh Environmental Network, a diaspora organization dedicated to limiting environmental degradation in their native country.

DISTINGUISHED SERVICE AWARD

Sharon Finlay

DISTINGUISHED TECHNICAL ACHIEVEMENT

Chicheng Xu, Ph.D. is currently leading upstream digital transformation in CNPC USA. He earned his Ph.D. in Petroleum & Geosystems Engineering from the University of Texas at Austin in 2013. He worked as a Petrophysicist and Rock Physicist at BP America and BHP Billiton from 2013 to 2017. Prior to his Ph.D. studies, he was a Software Project Lead at SLB's Beijing Geosciences Center from 2004 to 2009.

AWARDEES

In 2017, Chicheng joined the Aramco Houston Research Center as a Research Petrophysicist, contributing to the Geology Innovation and AI Technology teams. His research focuses on advancing petrophysical intelligence and automation through computational techniques and data analytics, particularly for interpretation, classification, and modeling using multiscale subsurface data integration.

Chicheng co-founded and chaired the SPWLA PDDA SIG and initiated a student scholarship to support PDDA-related graduate research. He has served as an associate editor for prominent journals, including *SPWLA Petrophysics*, *SPE Reservoir Evaluation & Engineering*, and *SPEJ*. Chicheng also founded OpenPetro, a company that dedicates to. open-source technology development and knowledge sharing in petrophysics.

He has received multiple awards, including the 2018 Regional Formation Evaluation Technical Award from SPE Gulf Coast, the 2019 SPWLA Meritorious Service Award, the 2020 SPE Outstanding Associate Editor Award, the 2021 SPWLA Meritorious Technical Award, and the 2022 Regional Data Science and Engineering Analytics Technical Award. In 2025, he received the Best Paper Award from the *Artificial Intelligence in Geosciences Journal*.

Chicheng has published over 50 conference and journal papers and holds more than 10 patents, with over 790 total citations.

Chandramani Shrivastava (Chandra) is Geology Advisor and Domain Head for SLB Well Construction based out of its HQ in Sugar Land, Texas (US). He has 23 years of experience in data management, formation evaluation and technology development across India, Middle East, Southeast Asia, West Africa, Caribbean and the US. He holds Master's degree in Applied Geology from IIT-Roorkee (India) and another Master's degree in Petroleum Engineering from Heriot-Watt, Edinburgh (UK).

He is widely published on formation evaluation (over 100 publications) and is industry recognized expert on geological interpretation of well logs. He has served as SPE Distinguished Lecturer and currently is International Chair for AAPG Students' Chapter. He is also a founding member and VP of SPWLA Borehole Imaging SIG.

Chandra has been advising on new technology and answer products development related to subsurface characterization over last 10-years. He has led deployment of new wireline and LWD borehole imagers and sidewall coring services and is repositioning the drill cuttings for innovative answers across the changing energy mix. His current focus is industrializing automated solutions for realtime geology, while and as a well gets drilled.

Chandra has been a regular reviewer of technical papers across disciplines of geology, formation evaluation and geomechanics. He has been co-chair for technical programs and workshops, served as session chair, abstract reviewer and judge of many competitions

organized by professional societies. He regularly mentors students and young professionals through various professional society platforms.

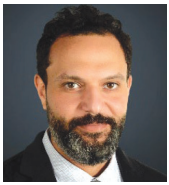
Christopher Jones has 25 years of experience in the petroleum industry having worked at Halliburton since 2008. Prior to Halliburton, he started as operations supervisor for an organic, aqueous, and rock geochemistry laboratory and as a geochemistry exploration and production consultant for assets. Early in his career, he helped develop and field test various advanced surface data logging applications including techniques for elemental and mineral analysis of cuttings, mud gas analysis, and in the measurement of carbon and hydrogen isotopes at wellsite. Later, he managed multiple PVT laboratories in the US and South America. After 2008, Christopher spent 12 years advancing formation testing applications as lead of the Halliburton formation testing research group, developing new applications. Christopher most recently managed the Halliburton Sensor Physics and Data Science/ Machine Learning research Centers of Excellence (2021-2025), as is responsible for Nuclear, Acoustic, Electromagnetic, NMR, and fluid analysis sensors and logging, including their signal inversion to rock and fluid properties and the petrophysical interpretation therein. As of April 2025, he now serves as senior advisor for R&D special initiatives. Christopher has an MS in Physical Chemistry specializing in laser spectroscopy and thermodynamics, and PhD in Physical Chemistry specializing in chemical analytics as applied to sensing. He additionally has 38 graduate hours in geosciences. He has a combination of 65+ publications and presentations and has been issued over 250+ US patents. He has served on multiple SPE and SPWLA committees and workshops and has served as an SPE distinguished lecturer for formation testing.

MERITORIOUS SERVICE AWARD

Tianmin Jiang is a Staff Petrophysicist in Permian Integrated Geoscience group of ConocoPhillips. He has more than 15 years of experience in oil and gas industry. His current focus is on integrated petrophysical interpretation with novel NMR techniques. Tianmin has published numerous technical papers and patents. In 2009-2019, he worked in Schlumberger as a petrophysicist on log analysis and interpretation. Tianmin received his BS and MS from Tsinghua University in 2002 and 2004, and his PhD from Rice University in 2009, all in Chemical Engineering. He is an active member of SPWLA.

Tianmin received SPWLA Outstanding Reviewer Award in 2021 and in 2022. His presentation at SPWLA 61st Annual Symposium was selected as Best Presentation for Unconventional, and he got invited to present it at URTeC 2020. Tianmin has been serving as a board member for NMR Houston Chapter since 2017. He participated in organizing a lot of SPWLA local events and seminars. He is also a board member of SPWLA NMG SIG since 2019.

AWARDEES



Ahmed Hafez is a Senior Solutions Advisor with over 20 years of experience in the oil and gas industry. Most recently, he served as Region Manager for Core Analysis Operations and Digital Rock at Halliburton, Dhahran Techno Valley, Saudi Arabia. With a strong background in Geoscience, Formation Evaluation, Operations Management, Business Development, and Data Management, Ahmed has held several key positions throughout his career, before transitioning to Halliburton in 2019.

In his previous role, he led both technical and operational aspects of physical and digital core analysis, cutting evaluation projects, AI and digitization initiatives, and special studies. Ahmed holds a dual degree in Geology and Chemistry from Cairo University and a Master of Business Administration from the University of Hull, UK. A dedicated member of SPWLA and SPE, he currently serves as Vice President of Publications for the SPWLA Saudi Chapter and remains actively involved in technical committees such as IPTC, SEG, SPWLA, and MEOS GEO.

Amr Serry is currently serving as the president of SPWLA Abu Dhabi chapter. Throughout his career, he has made numerous contributions to the society at local, regional, and international levels. He is a member of the SPWLA Nuclear SIG and was as a distinguished speaker 2023 – 2024.

Amr is a Senior Petrophysicist at ADNOC Offshore with over 20 years of industry experience in petrophysics, reservoir characterization, petroleum engineering. He holds a Master's degree in Petroleum Geosciences from Khalifa University (2017) and a Bachelor's degree in Petroleum Engineering from Cairo University (2004). His dedication to continuous learning led him to complete the IBM Data Analyst Certification.

Amr started his career as a petroleum engineer then he specialised in well logging and petrophysics with Baker Hughes in the Middle East before joining ADNOC, where he has significantly contributed to multiple projects across undeveloped and mature carbonate reservoirs in offshore Abu Dhabi. He is recognized for his innovation in deploying advanced reservoir technologies.

In addition to a robust technical background, he has co-authored numerous technical publications and presented at international forums, and participated in various conference technical committees.

MERITORIOUS TECHNICAL AWARD

Virginie Schoepf has been the lead petrophysicist in Openfield Technology, a startup specialised in MEMS technology, since June 2019. She has been supporting and developing petrophysical applications in the domain of flow diagnostics. Virginie started her career with Slb in 2000 as a development engineer in Clamart, France in the cement

evaluation team. She later moved to a log-analyst role in production petrophysics within Slb DCS in Aberdeen, Scotland. She held the position of petrophysicist ENGIE and BP, working on all aspects of petrophysics from exploration and appraisal to production and late field applications including decommissioning. Her late assignment in bp within the global production petrophysics team focused on identifying new technologies for wells and reservoir surveillance and providing expert guidance. She owned several internal courses within bp and Openfield Technology and authored/ co-authored several internal and external articles. Enthusiastic knowledge sharer and problem solver, she volunteered to several knowledge sharing sessions with SPE and SPWLA and has been mentoring and coaching young professionals throughout her career. She holds a MS degree in geophysics from Ecole de Physique du Globe de Strasbourg. She is a member of the SPE, SPWLA and IAH.

Jeffrey Crawford joined Halliburton as a nuclear physicist after earning his Ph.D. in physics from the University of Oklahoma in 2013. Currently, he manages the Nuclear Sensor Physics group, providing team leadership and technical guidance as a subject matter expert for a variety of wireline and LWD development and sustaining projects. Prior to this, he held the role of Principal Scientist. In this role, he acted as the technical project lead for LWD gamma-gamma density and natural gamma sensor development projects, providing support from design origination through sensor commercialization. As a graduate student, he developed a novel time-dependent method for studying quantum reactive scattering in hyperspherical coordinates. He has 20 granted patents and 12 technical publications.

YOUNG PROFESSIONAL TECHNICAL AWARD

Dr. Wen Pan is an AI researcher at Shell. He holds both a Bachelor's degree and a Ph.D. in Petroleum Engineering. Since 2016, he has passionately specialized in data-driven formation evaluation, geostatistics, deep learning, uncertainty modeling, and inverse theory, beginning with his Ph.D. research at the University of Texas at Austin and continuing as an AI Researcher at Shell.

Dr. Pan leads multiple projects aimed at enhancing formation evaluation through advanced data-driven technologies, both at UT Austin and Shell. He has authored 17 peer-reviewed papers and conference proceedings on innovative AI methods for formation evaluation.

In addition to his research, Dr. Pan serves as an associate editor for the Petrophysical Journal, focusing on data-driven petrophysics. He is also the Chief Event Organizer for the PDDA Special Interest Group (SIG) at the SPWLA. He is passionate about promoting data-driven petrophysics in the community, and exploring the statistical and physical insights of ML applications to formation evaluation problems.

Dr. Pan has chaired one session at the 2023 SPWLA Annual Conference, won two SPWLA Machine Learning competitions in 2020 and 2021, and organized the SPWLA ML competition in 2023.

Gulnar Yerkinkyzy is an accomplished petroleum engineer with over 12 years of experience in the oil and gas industry. She received her bachelor's degree in petroleum engineering from Kazakh-British Technical University in 2009 and later pursued a Master's degree in the same field at Stavanger University. After University she has joined Equinor company where she has held various positions within the subsurface community and since 2020 has been working with surface logging. Gulnar has superior performance in digitalization and contributed to several important digital projects at Equinor. She has published numerous papers in journals which provided groundbreaking insights into fluid prediction based on advanced mud gas and field examples of integrating downhole logging with surface logging tools to support and enhance operational decisions. She holds several patents and has been a keynote speaker at several industry conferences and seminars.

Dr. Tarek S. Mohamed is an Interpretation Development Engineer and an Interdisciplinary Subsurface Scientist at SLB, working on various projects spanning reservoir engineering, petrophysics, and geophysics. He co-leads the development of the new direction of forward modeling reservoir fluid geodynamics (RFG) processes over geologic time using reservoir simulation, and history-matching reservoir charge as a new way to predict fluid spatial compositional distributions in untapped regions. Dr. Mohamed co-authored over 20 technical papers accepted by several organizations, including SPWLA, SPE, SEG, AAPG, and ACS, and published in peer-reviewed journals or presented at major energy conferences. His expertise includes reservoir numerical modeling and simulation, petrophysics and formation evaluation, data science and machine learning, reservoir characterization, and well-test analysis. He holds a PhD in Petroleum Engineering from the University of Texas at Austin, an MS in Petroleum Engineering and a Graduate Certificate in Data Science and Analytics from the University of Oklahoma, and a BS in Petroleum Engineering from Suez University. He received several technical awards and recognitions, including being selected as an SPWLA Global Distinguished Speaker for 2023-2024 and an SPWLA Regional Distinguished Speaker for North America for 2024-2025.

AWARDEES

Symposium Best Paper Presentation 2024
Title: From Leak Path Detection to Quantitative Flow Profiling: The Exciting Journey of the Noise
Presenter: Giuseppe Galli

Symposium Best Poster Presentation 2024
Title: An Image-Based Artificial Intelligence Approach for the Determination of Analog Petrophysical Rock Properties From Drill Cuttings
Presenter: Allen Britton

Global Distinguished Speaker 2024-2025, Speakers

Zullkuf Azizoglu
Michael Taplin
Dirk Valstar
Alexandra Cely
Candida Menezes de Jesus
Alexander Kostin
Alexandre Perrier
Giuseppe Galli
Brice Fortier
John Savage

OUTSTANDING STUDENT CHAPTER

King Abdullah University of Science and Technology (KAUST) Student Chapter-
The SPWLA student chapter at King Abdullah University of Science and Technology(KAUST), located in Saudi Arabia, was born in 2022. Our student chapter promotes the understanding of petrophysics and well log analysis to the KAUST scientific community. Our society has contributed to spreading the knowledge of petrophysics by organizing different types of seminars, knowledge-sharing sessions, and participating in SPWLA regional and international events like the SPWLA international student paper contest. We also organize social events and partner with other KAUST student chapters events, reaching a wider audience. We are very happy and grateful to receive the prestigious SPWLA Outstanding Chapter Award.

AWARDEES

Outstanding Chapter

Southwest China Chapter

Southwest China Chapter was established in June 2019, the SPWLA Southwest China Chapter emerged through a collaboration among UESTC, SWPU, CDUT, and PetroChina Southwest. With an executive team drawn from 12 institutions and partnerships with 15 oil industry companies, the chapter has effectively bridged the gap between Chinese and global petrophysicists. This initiative has not only boosted SPWLA's Chinese membership from a mere handful to over 200 but has also significantly enhanced international collaboration. Over the past five years, the chapter has successfully orchestrated five major annual symposiums, accumulatively attracting over 10,000 participants. In addition to these high-profile events, the chapter has conducted specialized technical workshops, including advanced training on distributed fiber-optic technologies. Building on this momentum, the chapter introduced a student paper contest and facilitated more than 50 expert visits from prestigious institutions such as MIT and the Norwegian Academy, greatly enriching member engagement. To enhance accessibility for petrophysicists in China, the chapter actively communicated with SPWLA headquarters to facilitate improved access to the SPWLA's website and journals. It has also translated Petrophysics abstracts into Chinese, expanding the reach and understanding among local readers. The scholarly contributions of the chapter are particularly impressive, with 46 publications in Petrophysics and 35 features in SPWLA Today. Its members have been recognized with prestigious SPWLA Service/Youth Awards and SPE regional awards. With one active student chapter already making strides and another in the pipeline, the chapter is deeply committed to nurturing the next generation of global petrophysicists, ensuring a vibrant future for the field.

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Yangtze University

CHAPTER-AT-LARGE AND SIGS

Acoustics SIG
Alternative Subsurface/Energy Transition SIG
Borehole Imaging – BHI SIG
Education SIG
Formation Testing SIG
HAHZ - High Angle and Horizontal Wells SIG
Hydrocarbon Reserves SIG
NMR SIG
Nuclear Logging SIG
PDDA SIG
Resistivity SIG
Society of Core Analysts (SCA)

HIGHLIGHTS OF THE SOCIETY OF PETROPHYSICISTS AND WELL LOG ANALYSTS

The Society of Petrophysicists and Well Log Analysts (SPWLA) is a nonprofit corporation dedicated to the advancement of the science of petrophysics and formation evaluation, through well logging and other formation evaluation techniques and to the application of these techniques to the exploitation of gas, oil and other minerals. Founded in 1959, SPWLA provides information services to scientists in the petroleum and mineral industries, serves as a voice of shared interests in our profession, plays a major role in strengthening petrophysical education, and strives to increase the awareness of the role petrophysics has in the Oil and Gas Industry and the scientific community. SPWLA the world's largest International Petrophysics Professional Society celebrates 64 years with a membership of 2100 representing 60 countries.

Offering global exposure through 34 professional chapters, 11 SIG's, 23 student chapters and 1 Chapter at Large (SCA). SPWLA chapters meet regularly for brief technical scientific discussions and for fellowship among peers having a common professional interest in well logging. Benefits of membership in SPWLA include, online digital copies of Petrophysics Journal, online digital copies of The SPWLA Newsletter, discounts to meetings held by the international parent including the annual five-day conference (3-day technical program, 2-day workshops, field trips and more), Spring and Fall Topical Conferences and on-line training classes via webinar or GoTo meetings. No charge monthly webinars.

Classifications of membership in the Society to accommodate the needs and qualifications of interested persons. These membership classes are Honorary Member, Member, Member Group II, Senior Member, Student Member and Student Member Group II.

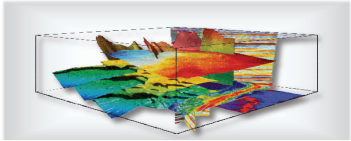
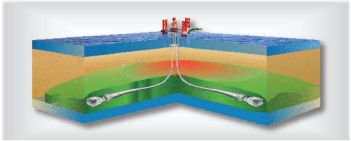
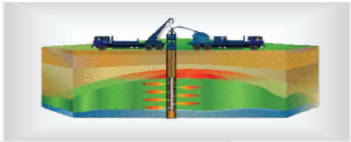
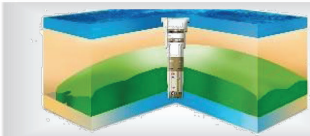
Industry awards are given annually to individuals nominated by their peers. The highest awards of the Society are the Gold Medal Award for Technical Achievement and the Gold Medal Award for Career Service, each of which the status of Honorary Member is given.

The SPWLA was incorporated under the laws of the state of Oklahoma on December 14, 1959. The Society has a Certificate of Authority to conduct affairs in the state of Texas and maintains its business office in Houston. To obtain further information about the SPWLA, you are invited to visit the website or contact our business office:

SPWLA
8866 Gulf Freeway, Suite 320
Houston, TX 77017 USA
Phone: (713) 947-8727
www.spwla.org

China Oilfield Services Limited ("COSL") is one of the leading integrated oilfield services providers in the world. COSL provides comprehensive services for the exploration, development and production of oil and natural gas through its four business segments including reservoir characterization, well construction, production optimization, and workover.

➢ **Integrated Oilfield Life Cycle Management Service**

Reservoir Characterization	Well Construction
	
Production Optimization	**Workover & Abandonment**
	

Our Motto	**Always Do Better**
Our Values	**Win-Win with Shareholders, Customers, Employees and Partners**
Our Strategies	**Technology Driven, Cost Leading, Integration, Internationalization, Regional Development**
Our Vision	Rig conversion and upgrade; Wind farm; LNG OSVs; Carbon capture, utilization & storage; Environment Protection Solutions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As energy demand increases, we are integrating cutting edge AI solutions and revolutionary technologies from the control room to the boardroom to provide secure, reliable, and responsible products to our customers.
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