

Well Data Interpretation Software



Organized by SPWLA France



- **Date:** June 27th afternoon
- Location: Remote via Teams

• Agenda:

Start time	End time	Duration	Presenter	Software	Company
13:30	13:40	00:10		Welcome and introduction	SPWLA France
13:40	14:10	00:30	Mohammad Taghi Salehi	Techlog & Wellbore Interpretation	SLB
14:10	14:40	00:30	Paul Spooner	IP	Geoactive
14:40	15:10	00:30	Nicolas Poete	Aspen Geolog	AspenTech
15:10	15:20	00:10		BREAK	
15:20	15:50	00:30	Dimitrios Oikonomou	EarthNet	Earth Science Analytics
15:50	16:20	00:30	Juan-Carlos Nunez Frias	Emeraude & Azurite	Kappa Engineering
16:20	16:50	00:30	Muhammad Nur Ali Akbar	Sendra	Prores
16:50	17:20	00:30	Joaquín Ambía	3D UTAPWeLS	University of Texas at Austin
17:20	17:30	00:10		Conclusion remarks	SPWLA France



Software	Techlog and Wellbore Interpretation	Techlog
Company	SLB	slb

- Presenter: Mohammad TAGHI SALEHI
- Description :

In this session, you will be introduced to SLB's wellbore formation evaluation solutions, designed to address both large-scale and detailed subsurface interpretation needs. We will explore the Wellbore Interpretation platform, focusing on its capabilities for high-volume data discovery, automated quality control, and log conditioning. In parallel, we will highlight Techlog's comprehensive suite for formation evaluation, supporting both basic and advanced analysis across a wide range of measurements, all underpinned by robust plotting and data management tools.

Through this overview, you will gain insights into how Wellbore Interpretation and Techlog work in synergy—combining the speed and scale of automated log conditioning with the depth and flexibility of expert-driven interpretation. We'll also touch on how these platforms facilitate seamless data sharing and collaboration across disciplines, enabling more integrated, efficient, and scalable reservoir evaluation workflows.

• Presenter bio:

Mohammad Taghi Salehi is the Petrophysics Product Champion at SLB, leading the development of formation evaluation workflows in Techlog and Wellbore Interpretation. He began his career as an LWD Field Engineer in 2004, delivering services across the Middle East and Asia. He later held roles as Well Placement Engineer and LWD Domain Champion, supporting LWD technologies.

Since joining the Techlog development team in Montpellier in 2014, Mohammad has focused on petrophysical workflows around log data processing and interpretation. He holds a Master's degree in Petroleum Engineering from Heriot-Watt University, UK.



- Presenter: Paul SPOONER
- Description :

Interactive Petrophysics (IP) from Geoactive, is a long-established product well known for its interactivity, flexibility, speed and efficiency, with a best-in-class deterministic, volumetric model. Continued development over the years means it now covers the entire lifecycle of a sub-surface asset, including Mapping from Interactive Correlations (IC), IP's sister product from Geoactive, for regional mapping and correlation.

IP introduced the world's first, commercial, petrophysical, Monte Carlo uncertainty analysis module, where entire workflows can be evaluated end-to-end, and new modules introduced to IP are always available in Monte Carlo where possible. For example, determining the P10, P50, P90 hydrocarbon-pore-ft in an entire Rock Typing and Saturation Height Modelling workflow, from the uncertainty in the logs right through to the uncertainty in FWL and IFT.

• Presenter bio:

Paul has 38 years industry experience, initially with a service company, and then as a Consultant Petrophysicist with PGL, the authors of IP, using the software every day, becoming IP Product Champion 14 years ago. The same company, the same team, and the same software transitioned through Senergy, LR and now Geoactive, growing all the time. Paul has also presented at many SPWLA local chapter meetings and authored several papers on petrophysics.



Presenter: Nicolas POETE

• Description :

This presentation will introduce Aspen Geolog software, the AspenTech complete wellbore interpretation and formation evaluation solution.

The Aspen Geolog wellbore solution for advanced formation evaluation provides best-in-class petrophysical analysis workflows for enhanced collaboration and streamlined data management to meet today's energy challenges : Multi-Well, Multi-User, Multi-Zone Wellbore Data Processing and Interpretation

Reduce Formation Evaluation Uncertainties

Latest generation of petrophysical tools enhanced with machine learning capabilities for faster and more precise rock formation evaluation, including uncertainty analysis quantification.

Enhanced Scalability to Accelerate Data-Driven Decision-Making

A direct connection to Aspen Epos[®] enables multiple users to collaborate simultaneously on the same project, efficiently supporting projects of over 10K wells for enhanced productivity and faster time to results.

Enable Seamless Data Connectivity

Empower E&P workflows with efficient data management in Aspen Epos and bi-directional large amounts of wellbore data exchange with third-party applications using AspenTech Subsurface Connector[™] for the OSDU[®] Data Platform.

Improve Efficiency Through Easily Customizable Workflows

Flexible, modular design to incorporate proprietary algorithms to tailor both processing and interpretation workflows to your unique needs.

• Presenter bio:

Nicolas Poete is working for AspenTech as a product manager for Aspen Geolog, the formation evaluation solution of the AspenTech Subsurface Science & Engineering business unit.

He has 28 years of experience with the Aspen Geolog product line providing technical support, training and consultancy for clients around the globe.

As a member of the product management team for Aspen Geolog he provides help and recommendations for the development strategy of the product.

Nicolas holds a BSc in Geology from the University of Besancon (France) and an engineering degree in Petroleum Geology from IFP School in France.

Software	EarthNET	
Company	Earth Science Analytics	

- **Presenter :** Dimitrios OIKONOMOU
- Description :

EarthNET – Predictive AI for Subsurface Understanding: EarthNET AI Wells by Earth Science Analytics is a powerful machine learning platform designed to accelerate and enhance subsurface reservoir characterization. It enables rapid prediction of reservoir properties such as lithology, porosity, water saturation, and shear sonic logs directly from well, core, and fluid data. With automated data cleaning, advanced QC workflows, and pre-trained models, EarthNET reduces manual effort, improves consistency, and significantly shortens interpretation cycles across large well datasets.

• Presenter bio:

Dimitrios Oikonomou, <u>LinkedIn Profile</u>: Dimitrios Oikonomou is an Electrical Engineer with more than a decade of experience in the oil and gas industry. He focuses on applying data science and digital technologies to improve subsurface workflows and decision-making. At Earth Science Analytics, as CTO, he works on bringing advanced analytics and machine learning into practical use for exploration and production teams.



- Presenter : Juan Carlos Nunez Frias
- Description :

Emeraude is a fully integrated Cased Hole Log Analysis platform and Azurite is a Formation Tester Analysis module. Both platforms offer a tool and service company agnostic environment.

• Presenter bio:

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). Currently working at the KAPPA Training and Consulting Services as Reservoir Engineer providing technical support worldwide on Formation Test Analysis (Product Champion in Azurite), Production Logging, Pressure Transient Analysis and Nodal Analysis.



- **Presenter :** Joaquin AMBIA-GARRIDO
- •
- Description :

3D UTAPWeLS is a software designed to build petrophysical models around the vicinity of wells with the purpose of improving formation evaluation. Models are validated by honoring all available measurements, and further supported by rock physics models consistent with all relevant properties.

For the aforementioned purpose, the software provides multiple well log simulators, fluid flow and formation testing simulators, NMR and sonic data processing suites, petrophysical calculations tools, and a number of inversion algorithms.

The software has a user friendly graphical interface, as well as a Matlab based scripting mini language.

• Presenter bio:

Joaquín Ambía received a PhD in Computational Physics at the University of Houston. Since 2014 he has been a research associate and software developer in the Formation Evaluation joint Industry Research Consortium, in the University of Texas at Austin. He is the lead software developer of 3D UTAPWeLS well logging simulation, and earth model integration software. He is responsible for incorporating newly developed algorithms and developing new algorithms and methods himself. He works bridging industry needs, and academic developments. He has presented his work in numerous conferences. He has been a member of SPWLA since 2019.

Software	Sendra S-Core	SENDRA
Company	PRORES	Prores

- Presenter : Muhammad Nur Ali Akbar
- Description :

Sendra S-Core – Integrated Platform for SCAL (Special Core Analysis) workflows.

Sendra S-Core is a powerful, cloud-based platform designed for advanced SCAL (Special Core Analysis) workflows, core-flood simulation, SCAL modeling and analogue. Built for flexibility and collaboration, it supports energy companies working across oil & gas, EOR/IOR, CCS, and gas storage applications.

At the heart of Sendra SaaS is its core-flood simulator, which gives users direct control over QA/QC of experimental data from SCAL laboratories. It supports a wide variety of experimental designs and allows engineers to interactively validate, simulate, and interpret lab results in a consistent and transparent environment.

Sendra S-Core also features powerful SCAL trend modeling tools, combining data-driven algorithms and physics-based models to generate accurate synthetic relative permeability and capillary pressure curves. It ensures consistent wettability physics and provides tools to assess the uncertainty in SCAL data derived from laboratory experiments.

With its integrated SCAL database and analogue module, Sendra offers access to over 400 curated SCAL experiments from the Norwegian Continental Shelf, along with CCS datasets from North America. Users can expand this by building their own SCAL databases in OSDU standard, combining internal and global datasets for improved insight. The analogue engine allows users to quickly find and compare similar data, helping support both exploration and development decisions.

What sets Sendra S-Core apart is its ability to serve as a single platform for the entire SCAL workflow—from lab data validation to simulation and analogue selection. It promotes cross-disciplinary collaboration by enabling reservoir engineers, geoscientists, and lab specialists to work together in real time.

Sendra also supports direct export of SCAL models to major reservoir simulators like Eclipse, Intersect, CMG, OPM, and tNav, streamlining integration with reservoir modeling tools.

Whether you require an on-premise installation, prefer a cloud-native deployment with regional or country-specific servers, or need to host the platform on your own infrastructure using Azure, AWS, or Google Cloud, Sendra SaaS is fully adaptable through the ENEGRID Platform.

With its blend of science, data, and cloud technology, Sendra SaaS brings speed, transparency, and accuracy to SCAL workflows—empowering better decisions and more robust reservoir evaluations.

• Presenter bio:

Muhammad Nur Ali Akbar is an integrated Reservoir Engineer and Petrophysicist with 7+ years broad international experience in oil and gas field development, exploration, and CCUS (carbon capture, utilization and storage) projects in Hungary, Croatia, Norway, and Indonesia. Currently, He works at MOL Hungary under West-Hungarian Field Development Subsurface Team. Previously in Indonesia, He started his career in 2014 as a reservoir engineer consultant at Indonesia R&D Centre of Oil and Gas - LEMIGAS and LAPI ITB for serving various exploration and field development plan projects for Pertamina, Petronas, Repsol, and Ophir. He holds a BSc in Petroleum Engineering at Bandung Institute of Technology & Science and MSc in Petroleum Geo-Engineering at the University of Miskolc. He has published and presented more than 20 technical papers, won numerous technical awards from various professional societies, and contributing as the technical reviewer as well in respectful scientific and engineering journals. His research 2022-2023 SPWLA DISTINGUISHED SPEAKER SERIES page 15 interests include in the integrated field of naturally fractured basement reservoir characterization, fracture and rock typing, rock physics, and advanced geostatistical methods. He is a member of SPWLA, SPE, and EAGE. Formerly, he was a president of SPWLA Indonesia chapter 2017-2019 and led the 2nd SPWLA Asia Pacific Technical Symposium 2018 in Bogor, Indonesia.