

T1: Advanced Geophysical Data Acquisition & Processing

Room1	Saturday, November 8th, 2025	
	Chairs: Abir Jrad (Tunisia) / Hamoud Beldjoudi (Algeria)	
08:30 - 08:45	Comparison of overhauser and split-beam cesium optical pumped magnetometers for drone magnetic surveys	Anna Gouirand
08:45 - 09:00	Application of Machine Learning for the Prediction of Petrophysical Properties from Well Logs: Case study from Hassi Messaoud Oil Field	Nemer Zoubida
09:00 - 09:15	2D Resistivity Inversion, Landsat-7 and 8 OLI Remote Sensing, and Major Element Hydrochemistry for Investigating a Dumpsite, Sea water intrusion, Groundwater Contamination and Climate Factors around an ancient Dam and Dump: Westcoast Douala Basin, Cameroon.	Moussa Ahmed Mbouemboue Nsangou
09:15 - 09:30	Integrating Gravity, Seismic, and TDEM Data for Regional Groundwater Modeling	Charrek Khaoula
09:30 - 09:45	Integrated Seismic Inversion and Sequence Stratigraphy for Stratigraphic Trap Delineation in the Acacus Formation, Ghadames Basin	Zrelli Amira
09:45 - 10:00	Application of machine learning-bias correction methods for NWP model's extreme air temperatures in Morocco	Dalal Morad
10:00 - 10:15	Synthetic Data-Driven Earthquake Response Spectra Prediction Using XGBoost	Harichane Zamila
Coffee-Break ☕		
Room1	Saturday, November 8th, 2025	
	Chairs: Hakim Gabtni (Tunisia) / Lamali Atmane (Algeria)	
14:00 - 14:15	Contribution of seismic reflection to the identification of the intra-Turonian inversion in Central Eastern Tunisia	Khemiri Fares
14:15 - 14:30	Seismic inversion and attributes benefits of the Silurian Acacus A deposition environment identification in the Ghadames Basin, southern Tunisia	Dkhaili Noomen
14:30 - 14:45	Smarter Water Management: Machine Learning Applications in Chebika's Groundwater Study	Abdelhedi Mohamed
14:45 - 15:00	Comparative assessment of amplitude and phase based filters for structural trend delineation in the Triassic province, Algerian Sahara	Mebarek Hacid
15:00 - 15:15	Aquifer Characterization Using Integrated geophysical approach in Northern Mannouba plain, Tunisia	Ghofrane Omri
15:15 - 15:30	Artificial intelligence approaches to petroleum reservoir prediction: A case study of the Birsa reservoir, Gulf of Hammamet, Northeastern Tunisia	Ferjani Amal
15:30 - 15:45	Tectonic Evolution of the Gharb Backbulge Basin during the Neogene: Evidence from Gravity and Aeromagnetic Data	Zerouali Salma
Coffee-Break ☕		
16:15 - 16:30	Electro-sequence and hydrofacies characterization of the Plio-Quaternary in the northern Rharrb Basin (NW Morocco): Implications for aquifer dynamics	Logbani Assia
16:30 - 16:45	Time-to-Depth Conversion using Kriging with External Drift: A two-stage approach based on IRF-K and Generalized Covariance	Hammami Mohamed Amin
16:45 - 17:00	Seismic and Gravity-Based Analysis of the Gantass Structure (Southern Tunisian Atlas): Stratigraphic and Structural Controls on Tectonic Inversion and Hydrocarbon Exploration	Manai Dalel
17:15 - 17:30	Petroleum Reservoir characterization from geophysical well-logs data using artificial Intelligence	Lamali Atmane
17:30 - 17:45	Hydrocarbon Reserves Estimation of the Sokor-1 Formation from Well Logs and 3D Seismic Interpretation, Fana Low Uplift, Termit Basin, Southeastern Niger	Abdourahamane Ibrahim Ari Maïna
17:45 - 18:00	Etude géoélectrique et cartographique de la structure subsurface de Maâmora	Ould Saltana Oumaima