

# Poster Session

## Monday – 3 November 2025

| POSTER PROGRAM                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| ID                                                                                                                            | Please stay at your poster between 15:20 and 16:20.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| B1. Using Drone-Based Geophysics for Mineral Exploration, geotechnical applications and archaeological surveys                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| P1                                                                                                                            | 3681 – Between the Trees: Drone Magnetometry at a Deserted Town Reclaimed by Nature   <b>Volkmar Schmidt</b> (University of Münster), <b>Christina Paul</b> (University of Münster), <b>Stefan Klingen</b> (University of Münster)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| P2                                                                                                                            | 8243 – Towards Smart Mineral Exploration: Combining Drone Remote Sensing, Geospatial Data Fusion, and Predictive Modelling Approaches   <b>Muntaha Kassim Alzubade</b> (University of Technology,Baghdad)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| P3                                                                                                                            | 1412 – Seismic Site Effect Estimation Using Microtremor Studies in The Archaeological City Jerash in Jordan   <b>Waleed Olimat</b> (Jordan Seismological Observatory)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| P4                                                                                                                            | 2918 – Development of Drone-Borne Geophysical Surveys for Mineral Exploration   <b>Reza Moezzi Nasab</b> (Shahrood University of Technology)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| C2. Geoscience Research for Advancing Clean Energy Solutions                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| P5                                                                                                                            | 2540 – Integrated non-invasive monitoring for dam safety in support of sustainable hydropower: the GEODAM initiative in Romania   <b>Bogdan Grecu</b> (National Institute for Earth Physics), <b>Alexandru Tanasie</b> (BRANTAX SRL), <b>Alexandra Gerea</b> (National Institute for Earth Physics), <b>Andrei Emilian Mihai</b> (National Institute for Earth Physics), <b>Eduard Năstase</b> (National Institute for Earth Physics), <b>Alexandru Țigănescu</b> (National Institute for Earth Physics), <b>Dragoș Tătaru</b> (National Institute for Earth Physics), <b>Natalia Poiata</b> (National Institute for Earth Physics), <b>Andreea Tolea</b> (National Institute for Earth Physics), <b>Anca Zamfir</b> (BRANTAX SRL) |
| C3. Earth Science and Civil Engineering Collaboration for Sustainable Cities                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| P6                                                                                                                            | 4018 – Preliminary Assessment of Input Parameter Variability in 1D Site Response Analyses   <b>Gamze Muratoğlu</b> (METU), <b>Ayşegül Askan</b> (METU)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| P7                                                                                                                            | 6371 – Seismic Site Effects in an Urban Area of the Mitidja Basin (Algiers)   <b>Djamal Machane</b> (CGS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| P8                                                                                                                            | 1945 – Ambient vibration noise in the site effects assessment of Bejaia city, Algeria   <b>Oubaiche El Hadi</b> (CGS), <b>Machane Djamel</b> (CGS), <b>Bensalem Rabah</b> (CGS), <b>Moulouel Hakim</b> (CGS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| C4. Passive seismic Data Acquisition, monitoring, tomography for Sustainable Cities                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| P9                                                                                                                            | 3016 – Integration of GNSS Data, Historical Earthquake Catalogs and Geological Information for Stress Accumulation Analysis along the North Anatolian Fault Zone   <b>Fulya Battal Şamiloğlu</b> (Ankara University), <b>Veysel Işık</b> (Ankara University)                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| P9                                                                                                                            | 6906 – Activity rate of the Thenia fault inferred from uplifted marine terraces and the activity rate of the Zemmouri active fault   <b>Hakim Moulouel</b> (CGS), <b>Djamel Machane</b> (CGS), <b>El-Hadi Oubaiche</b> (CGS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| P10                                                                                                                           | 2937 – Unusual intraplate earthquakes of the Central Kalahari, Botswana: anomalies in a stable continental plate   <b>Esther Modise</b> (Botswana Geoscience Institute)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| A1. Seismic Data Acquisition&Pre-Processing: 3D Seismic Survey Design, Machine Learning in Signal Processing and Applications |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| P11                                                                                                                           | 6154 – Lithofacies, Ichnology and Depositional Environments of the Dandot Formation, Salt Range, Pakistan   <b>Muhammad Jawad Munawar</b> (University of the Punjab), <b>Saif ur Rehman</b> (University of the Punjab)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| P12                                                                                                                           | 4492 – Electromagnetism Application in Post-Pandemic Non-Renewable Natural Resource Management   <b>Mario Fernando Zamora Santacruz</b> (ESP ENERGY GROUP SAS), <b>Mario Alejandro Ruiz Gonzalez</b> (ESP ENERGY GROUP SAS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| P13                                                                                                                           | 1335 – Foundational Principles for Implementing the G.I.E.P. Nethodology in Non-Digital Production Projects   <b>Mario Fernando Zamora Santacruz</b> (ESP ENERGY GROUP SAS), <b>Mario Alejandro Ruiz Gonzalez</b> (ESP ENERGY GROUP SAS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| P14                                                                                                                           | 8653 – Results of The Nuclear Magnetic Resonance Application in Oil Fields in Putumayo, Colombia   <b>Mario Fernando Zamora Santacruz</b> (ESP ENERGY GROUP SAS), <b>Mario Alejandro Ruiz Gonzalez</b> (ESP ENERGY GROUP SAS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## Tuesday – 4 November 2025

| POSTER PROGRAM                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| ID                                                                                      | Please stay at your poster between 10:20 and 11:20.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| A3. Earth Science and Civil Engineering Collaboration for Sustainable Cities            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| P15                                                                                     | 9046 – Workflow-Integrated Reservoir Quality Assessment of Pre-Salt Carbonate (Campos Basin, Brazil)   <b>Grisel Jimenez Soto</b> (Petronas Carigali), <b>Leonardo Piccoli</b> (Independent), <b>Ummi Farah Mohamad Rosli</b> (Petronas Carigali), <b>Bruna Greco</b> (Petronas Carigali), <b>Azirul Liana Abdullah</b> (Petronas Carigali)                                                                                                                                                                                                                                                                                                                                                                                     |
| P16                                                                                     | 3148 – Combined Seismic and Infrasound Networks for Flood Monitoring   <b>Rajesh Rekapalli</b> (CSIR – National Geophysical Research Institute), <b>Purna Chandra Rao N</b> (CSIR – National Geophysical Research Institute), <b>Sandeep Gupta</b> (CSIR – National Geophysical Research Institute), <b>Mahesh Y.</b> (CSIR – National Geophysical Research Institute), <b>Raviteja K.</b> (CSIR – National Geophysical Research Institute), <b>Umadevi E.</b> (CSIR – National Geophysical Research Institute), <b>Venkatesh V.</b> (CSIR – National Geophysical Research Institute), <b>Sarma A. N. S</b> (CSIR – National Geophysical Research Institute), <b>Laxman B.</b> (CSIR – National Geophysical Research Institute) |
| A4. Geology and Geophysics Integration for Low Carbon Solutions (CO2)                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| P17                                                                                     | 3466 – Integrated Evaluation of Aging Well as CO2 Storage Reservoirs in the South Sumatera Basin   <b>Putu Abel Nugraha Ardyan</b> (Hasanuddin University), <b>Balqis Shafira Shafira</b> (Sepuluh November Technology Institute), <b>Muhammad Sulhuzair Burhanuddin</b> (Hasanuddin University)                                                                                                                                                                                                                                                                                                                                                                                                                                |
| P18                                                                                     | 4648 – CO <sub>2</sub> Storage in Carbonates: Pore-Scale Dissolution Revealed by X-Ray Tomography and Reactive Flow Modeling   <b>Muhammad Jawad Munawar</b> (University of the Punjab), <b>Muhammad Talha</b> (China University of the Petroleum), <b>Saif ur Rehman</b> (University of the Punjab)                                                                                                                                                                                                                                                                                                                                                                                                                            |
| B3. Non-Seismic Methods for Mineral Explorations 2: Gravity&Magnetic Methods            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| P19                                                                                     | 7294 – Neuromorphic LSTM–ResUNet Hybrid For Enhanced Denoising And Inversion Of Gravity Gradiometry Data   <b>Kanishk Krishnan</b> (Indian School of Mines, Dhanbad)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| B4. Geophysical and Geological Collaborative studies for natural resources explorations |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| P20                                                                                     | 1963 – Automated Identification and Quantification of Copper Minerals in Drill Core Samples Using Deep Learning-Based Semantic Segmentation   <b>Reza Moezzi Nasab</b> (Shahrood University of Technology)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| P21                                                                                     | 3242 – An Integrated Deep Learning Framework for Real-Time Copper Grade Prediction Using Hyperspectral and Multispectral Satellite Data   <b>Reza Moezzi Nasab</b> (Shahrood University of Technology)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| P22                                                                                     | 7400 – High-Resolution Seismic Imaging of The Geysers Geothermal Reservoir Using Inter-Event Interferometry   <b>Mohsen Kazemniah Kakhki</b> (University of Vienna), <b>Götz Bokelmann</b> (University of Vienna), <b>Taghi Shirzad</b> (University of São Paulo)                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| P23                                                                                     | 4787 – Automated Vugs and Fractures Identification Using Deep Learning   <b>Weichang Li</b> (Zhejiang University)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| P24                                                                                     | 5458 – Parametric Study of the Ourkiss Dam of Wadi El Kebir Under Seismic Conditions, (Oum Elbouaghi), Algeria   <b>Toufik Karech</b> (University of Batna), <b>Hassiba Baghzim</b> (University of Batna)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| P25                                                                                     | 5817 – Three-Dimensional Magnetotelluric Imaging of the Southern Indian Shield: Evidence for Southward Subduction and Plume–Lithosphere Interaction   <b>Kusham Kusham</b> (CSIR-National Geophysical Research Institute), <b>Kasturi Naganjaneyulu</b> (CSIR-National Geophysical Research Institute), <b>B. Pradeep Naick</b> (CSIR-National Geophysical Research Institute), <b>A. Pratap</b> (Absolute Imaging International)                                                                                                                                                                                                                                                                                               |
| P26                                                                                     | 5617 – Gravity Inversion of Basement Relief Using Particle Swarm Optimisation with Physics-Informed Gravity Response Calculation, Data-Driven Fourier Coefficient Selection, and Adaptive Parameter Tuning   <b>Jainendra Tripathy</b> (Indian School of Mines, Dhanbad)                                                                                                                                                                                                                                                                                                                                                                                                                                                        |