

Oral Session

HALL A

Tuesday – 4 November 2025

Time	ID	ORAL SESSION HALL A
A4. Geology and Geophysics Integration for Low Carbon Solutions (CO2) Chairperson: F. Kübra Arisoy, Taner Arpacı		
09:00		
09:20–10:00		Invited Speaker JOEL LE CALVEZ Schlumberger How is Fiber Optic Shaping the Future of Geosciences: Geophysical and Engineering Examples
10:00	A4-1	5662 – Application of Elastic Parameters and Brittleness Cubes for Reservoir Characterization in Hydrocarbon Production Fields: a case study Nur Göçer Ersay (TPAO), Sercan Pişen (TPAO)
10:20–10:40		Tea/Coffee Break
B2. Non–Seismic Methods for Mineral Explorations 1: Electric and Electromagnetic Studies Chairperson: Erhan Erdoğan, N. Yıldırım Gündoğdu		
10:40	B2-1	2220 – Geophysical Electromagnetic Survey for Lithium Exploration in Saudi Arabia – Preliminary Results Pantelis Soupios (TDS), Panagiotis Kirmizakis (King Fahd University of Petroleum & Minerals), Abdul Latif Ashadi (UMS), Yardenia Martinez (KMS Technologies), Tilman Hanstein (KMS Technologies), Xiyayu Xu (KMS Technologies), Abid Khogali (King Fahd University of Petroleum & Minerals), Andri Yadi Paembonan (KMS Technologies), Maxim Smirnov (UMS), Kurt Strack (KMS Technologies)
11:00	B2-3	3147 – Principle and Application of Array Spread Spectrum IP Instrument with Large Depth Exploration Capability Rujun Chen (Central South University), HongChun Yao (Central South University), RuiJie Shen (Central South University)
11:20	B2-4	1160 – Advanced Geophysical Investigation of Railway Tunnel: an Example of 3D Direct Current Resistivity Application N. Yıldırım Gündoğdu (Ankara University)
11:40	B2-5	8509 – 2D Modeling of Vertical Electrical Sounding Data For Isotropic and Anisotropic Media Ertan Pekşen (Kocaeli University), Elnur Gasimov (Kocaeli University), Alper Kiyak (MTA), Türker Yas (MTA), Emin Uğur Ulugergerli (Çanakkale Onsekiz Mart University)
12:00	B2-6	2975 – Mobile System for CSRTM Method with Towed Transmitter Arseny Shlykov (Saint Petersburg State University), Alexander Saraev (Saint Petersburg State University), Nikita Bobrov (Saint Petersburg State University)
12:30–14:00		LUNCH
A2. Processing/Inversion: Anisotropy, AVO and Seismic Inversion, Full-Waveform Inversion (FWI), Q-Migration etc. Chairperson: Taner Arpacı, F. Kübra Arisoy		
14:00	A2-1	6175 – Characterizing Gas-Bearing Sandstones in the Danişmen Formation, a Heterogeneous Deltaic System: Insights from Seismic Inversion, AVO, and Rock Physics Mustafa Kamil Yüksek (TPAO)
14:20	A2-2	5772– Combined Application of 3D and 5D MPFI with PSDM for Enhanced Seismic Imaging in Complex Geological Settings: A Case Study from Onshore Southeast Türkiye Havva Bekmez (TPAO), E. Başaran, W. Mohamed
14:40	A2-3	9487 – Rock Physics–Guided Reservoir Characterization of Oil Sand Reservoirs Using Poststack Data In The Absence of Prestack CDP Gatherers Taner Arpacı (TPAO)
15:00	A2-4	1446 – Reducing Exploration Risks in Thin Bed Reservoirs Offshore Black Sea Using Conditioned Seismic Gatherers and Advanced Quantitative Interpretation Techniques Fatma Kübra Arisoy (TPAO)
15:20	A2-5	7421 – An Integrated Quantitative Seismic Interpretation Approach on Reservoir’s Lithological and Pore–Fluid Characterization: Ordovician Case Study in Diyarbakır Region, Se Türkiye Fatma Kübra Arisoy (TPAO)
15:40–16:00		Tea/Coffee Break
A1. Seismic Data Acquisition & Pre–Processing C2. Geoscience Research for Advancing Clean Energy Solutions Chairperson: Kurt Strack, Pantelis Soupios		
16:00	C2-1	4014 – Probabilistic Fault Displacement Hazard Analysis in Areas of Diffuse Seismicity Ruben Tatevossian (Institute of Physics of the Earth), Vera Bykova (Institute of Physics of the Earth)
16:20	C2-2	8752 – CSEM CO2 Monitoring: Key Role in Texas Becoming a Clean Hydrogen Hub Miguel Silva (Energy Transition International), Cesar Barajas–Olalde (Energy Transition International), Kurt Strack (KMS Technologies)
16:40	C2-3	4093 – Fluid Imaging During the Energy Transition Kurt Strack (KMS Technologies)
17:00	A2-6	5934 – Holocene Palaeoclimatic Variations in the Barton Peninsula Based on Multi–Proxy Data (King George Island, NW Antarctica) Alper Gürbüz (Ankara University), Gonçalo Vieira (CEG–Centro de Estudos Geográficos and Laboratório Associado TERRA), Nizamettin Kazancı (Ankara University), Pedro Pina (Universidade de Coimbra), Esra Gürbüz (Aksaray University), Vasco Miranda (Centro de Recursos Naturais e Ambiente – CERENA), Mustafa Şenkaya (Bursa Uludağ University), Aytekin Erten (Niğde Ömer Halisdemir University)
17:20–18:00	A1-1	Invited Speaker UMAIR BIN WAHEED King Fahd University of Petroleum and Minerals Scientific Machine Learning in Geophysical Exploration and Monitoring

HALL B

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B1. Using Drone–Based Geophysics for Mineral Exploration, geotechnical applications and archaeological surveys Chairperson: İrfan Akca, Alexandros Stampolidis		
09:00	B1-5	8390 – Geo–Spatial AI–Enhanced Mineral Exploration: Integrating Hyperspectral Remote Sensing, UAV Photogrammetry, and Machine Learning for Next–Generation Resource Assessment Öykü Alkan (Alkantech-app)
09:20	B1-6	3224 – Voronoi Polygon Parameterization for 2D Electrical Resistivity Inversion: A Flexible Framework for Archaeological Applications İrfan Akca (Ankara University), Cemile Öztürk Akca (Gazi University, AYDEM)
09:40	B1-7	2169 – Archaeogeophysical Applications in Hacimusalar Höyük to Estimate a Buried Wall and Gateway – Preliminary Results Nedim Gökhan Aydın (İstanbul Technical University), Turgay İşseven (İstanbul Technical University), Orhan Apaydın (İstanbul Technical University), Sercan Kayın (Gümüşhane University)
10:00	B1-8	7328 – Archaeogeophysical Survey in Selected Sites in the Eastern Province of Saudi Arabia Alexandros Stampolidis (Aristotle University of Thessaloniki), Ammar Alshammari (King Fahd University of Petroleum and Minerals), Panagiotis Kirmizakis (King Fahd University of Petroleum and Minerals), Abdullah Alrefaei (Heritage Commission, Ministry of Culture), Meteb Almutairi (Heritage Commission, Ministry of Culture), Ajab Alotibi (Heritage Commission, Ministry of Culture), Faisal Aljibrin (Heritage Commission, Ministry of Culture), Konstantinos Chavanidis (King Fahd University of Petroleum and Minerals), Georgios Soupios (TDS), Pantelis Soupios (TDS)
10:20–10:40		Tea/Coffee Break
C3. Earth Science and Civil Engineering Collaboration for Sustainable Cities Chairperson: H. Sadi Kuleli, Ayşegül Askan		
10:40	C3-7	1890 – Geophysical Characterization as a Foundation for Resilient Human Habitats Hüseyin Sadi Kuleli (Independent Researcher), M. Emin Candansayar (Ankara University), Bülent Kaypak (Ankara University), Oral Büyüköztürk (Massachusetts Institute of Technology)
11:00	C3-8	9101 – Broadband Ground Motion Simulations of the April 23, 2025, Mw 6.2 Marmara Sea Earthquake Using a 1D Frequency–Wavenumber Approach Arianna Cuius (INGV), Aybige Akinci (INGV), Pietro Artale Harris (INGV), Arben Pitarka (Lawrence Livermore National Laboratory), Aysegul Askan Gundogan (METU), Shaghayegh Karimzadeh (University of Minho), Gamze Muratoglu (METU)
11:20	C3-9	8517 – Bayrampasa District as a Critical Node in Earthquake Systemic Risk Assessment Seda Kundak (İstanbul Technical University), Çağlar Gökso (İstanbul Technical University), Kerem Yavuz Arslanlı (İstanbul Technical University), Ahmet Atıl Aşıcı (İstanbul Technical University), Duygu Kalkanlı (İstanbul Technical University), Ali Yılmaz (İstanbul Technical University), Cihan Mert Sabah (İstanbul Technical University), Betül Ergün Konukçu (İstanbul Metropolitan Municipality), Ece Özden Pak (İstanbul Metropolitan Municipality), Ladan Mahdizadeh (İstanbul Technical University), Nermin Eda Tekmanlı (Gebze Technical University), Beyda Usta (İstanbul Technical University), Fulya Halaçoğlu (İstanbul Technical University)
11:40	C3-10	3062 – Analysis of Gouge–Type Fault Rocks and Determination of Faulting Behavior in Fault Zones: A Case Study (Şereflikoçhisar, Ankara) Dilara Mercan (Ankara University), Veysel Işık (Ankara University), Zehra Semra Karakaş (Ankara University)
12:00	C3-11	1390 – Kinematic Indicators on Slickensides: A Case Study on Exposed Fault Surfaces Zeynep Nida Bektaş (Ankara University), Veysel Işık (Ankara University)
12:30–14:00		LUNCH
C3. Earth Science and Civil Engineering Collaboration for Sustainable Cities Chairperson: Ruben Tatevossian, Mustafa Şenkaya		
14:00	C3-12	6756 – Comparative Evaluation of Ground and Strong–Motion Parameters in Earthquake Damage Modeling Mustafa Senkaya (Bursa Uludağ University), Serhat E. Akhanlı (Muğla Sıtkı Koçman University), Ali Silahtar (Sakarya University), Hasan Karaaslan (Sakarya University)
14:20	C3-13	9197 – Development of Application for Calculating the Seismic Treatment Parameters Vikenty Ertelev (MISIS), Olga Erteleva (Russian Academy of Science), Felix Aptikaev (Russian Academy of Sciences)
14:40	C3-14	9613 – Multidisciplinary Monitoring of Salt Karst Hazards in Slănic Prahova, Romania Dragos Tataru (National Institute for Earth Physics), Geomonitor Team (National Institute for Earth Physics)
15:00	C3-15	3207 – Evaluation of Dynamic Responses of Stratified Ground Treated with Granular Columns– A Numerical Study Kiruthika P (Indian Institute of Technology Tirupati), Murali Krishna A (Indian Institute of Technology Tirupati), Subhadeep Banerjee (Indian Institute of Technology Madras)
15:20	C3-16	3341 – Performance of Hydraulic Structures during 6 February 2023 Kahramanmaraş, Türkiye Earthquake Sequence Yasemin Er (General Directorate of State Hydraulic Works (DSİ))
15:40–16:00		Tea/Coffee Break
C3. Earth Science and Civil Engineering Collaboration for Sustainable Cities Chairperson: Ismail Kaplanvural, Mustafa Şenkaya		
16:00	C3-17	1497 – Vrancea Intermediate–Depth Earthquakes and Gravity Lucian Besutiu (Institute of Geodynamics "Sabba S. Stefanescu), Luminita Zlăgnea (Institute of Geodynamics "Sabba S. Stefanescu)
16:20	C3-18	4055 – Terrestrial Laser Scanning and drone–based LiDAR with GNSS and Topographic Control for Monitoring Buildings in the Slănic Salt–Karst Areas, Romani Alexandru Tiganescu (National Institute for Earth Physics), Eduard Ilie Nastase (National Institute for Earth Physics), Alexandra Muntean (National Institute for Earth Physics), Tiberiu Popescu (SC Top Geocart)
16:40	C3-19	8952 – Multi–method Site Characterization of the Gura Zlata Seismic Station (Romania): Implications for Site Response Analysis Bogdan Grecu, Andreea Tolea (National Institute for Earth Physics), Dragoş Tătaru (National Institute for Earth Physics), Natalia Poiata (National Institute for Earth Physics), Alexandru Codreanu (National Institute for Earth Physics), Andrei Emilian Mihai (National Institute for Earth Physics), Alexandra Tămaş (University of Babes–Bolyai), Dan Mircea Tămaş (University of Babes–Bolyai), Eduard Năstase (National Institute for Earth Physics), Alexandra Gereă (National Institute for Earth Physics)
17:00	C3-20	6208 – Seismic Analysis of Soil–Structure Interaction for Bursa Uludağ University Hospital Using Ambient Noise Measurements Mustafa Senkaya (Bursa Uludağ University), Seda Ozgencli (Bursa Uludağ University)