



CONFERENCE PROGRAM

13-15 October 2026

United Arab Emirates University

Theme: Geophysics for a Sustainable Future: Innovating for Urban Resilience and Geotourism

Day	Program item
Day 1	Opening Ceremony, General Keynote, Technical Sessions, Panel 1, Library Auditorium
Day 2	Keynote, Technical Sessions and Panel 2, Library Auditorium
Day 3	Keynote, Technical Sessions, and Closing Program, Library Auditorium

Day 0 - Monday, 12 October 2026

Time	Program item
08:00 – 13:00	Innovation Awards for Geophysics Competition (AL SIDRA BUILDING - Room 0129)
16:30 – 18:00	Icebreaker at UAE University Business Center & Registration

Program Notes

- All oral presentations run in the Main Hall (Library Auditorium) and are scheduled in 15-minute slots: 12 minutes speaking time followed by 3 minutes for questions and answers.
- Online participation is indicated next to the presenter name.

Day 1 - Tuesday, 13 October 2026

Opening Ceremony and Technical Program | 08:00-18:00

Time	Program item
08:00 – 10:00	Registration, Exhibition Access and Delegate Networking National Anthem
10:00 – 10:10	Speech by His Excellency Zaki Anwar Nusseibeh Chancellor of the United Arab Emirates University
10:10 – 10:15	Introductory Film
10:15 – 10:25	Announcing the Innovation Award Winners
10:25 – 10:50	Exhibition Opening
10:50 – 11:10	Coffee Break
11:10 – 11:40	Poster Session 1 – Exhibition Area
11:40 – 12:10	General keynote – Distributed Acoustic Sensing of Velocity and Attenuation Reveals Thermo-Hydrological Coupling in Thawing Permafrost Feng Cheng
12:10 – 13:00	Panel Discussion 1 – Groundwater Challenges in Arid Regions
13:00 – 14:00	Lunch
14:00 – 15:15	Session S1 – Electromagnetics & Geophysical Inversion
15:15 – 15:45	Poster Session 2 – Exhibition Area
15:45 – 16:05	Coffee Break
16:05 – 17:20	Session S2 – Environmental Characterization
17:20 – 21:00	Day 1 Close & Social Activity

Panel Discussion 1 (12:10 – 13:00)

Groundwater Challenges in Arid Regions

Moderator: Dalal Alshamsi, Geosciences Department, UAEU, UAE

Panelists: Ahmed Sefelnasr, National Water and Energy Center, UAEU, UAE; Mohamed Dawoud, Senior Water Resources Advisor, Environment Agency – Abu Dhabi (EAD), UAE; Khalid Al Bloushi, Geosciences Department, UAEU, UAE.

S1 | Electromagnetics & Geophysical Inversion - Library Auditorium

Session chair: Hakim Saibi

Time	ID	Presentation	Presenter
14:00-14:15	#8477	3D velocity estimation from surface-based common-offset GPR reflection data	Klaus Holliger
14:15-14:30	#2331	Mobile system for CSRMT method with towed transmitter	Arseny Shlykov
14:30-14:45	#7263	Detection of Post-Injection Surface Displacement and Inverse Estimation of Reservoir Pressure Changes Using InSAR Data at the In Salah CCS Site	Jun Matsushima
14:45-15:00	#9345	New drone-based system for semi airborne CSEM	Arseny Shlykov
15:00-15:15	#1132	Efficient electromagnetic inversion based on block-wise multigrid methods	Rongwen Guo (online)

S2 | Environmental Characterization - Library Auditorium

Session chair: Mohamed Abdel Zaher

Time	ID	Presentation	Presenter
16:05-16:20	#6167	Enhancing Near Surface Vibroseis Imaging: Uncorrelated Data are Worth Saving	Richard Miller
16:20-16:35	#3344	Muography Approach for Quantitative Density and Saturation Estimation in Porous Media	Ahmed Eleslambouly
16:35-16:50	#6217	Temporal Analysis of Urban Land Surface Temperature in an Arid City	Mubbashra Sultan
16:50-17:05	#8305	Petrophysical Analysis of Carbonate Reservoirs Using Multi-Log Geophysical Data: Implications for Machine Learning-Based Reservoir Characterization	Tofeeq Ahmad
17:05-17:20	#8404	Integrated Geophysical Inversion and Multi-Source Data Modeling for Sustainable Groundwater Management in the Siwa Oasis, Egypt	Mohamed Hamdy Eid

19:00 - 21:00 Social Activity: Tour of Al Ain Oasis and Al Jahili Fort, Followed by Dinner

Day 2 - Wednesday, 14 October 2026

Technical Program and Panel Discussion | 08:00-18:00

Time	Program item
08:00 – 08:30	Keynote - Integrated Multi-Geophysical Inversion and Machine Learning for Geothermal and Natural Hydrogen Exploration Mohamed Sobh
08:30 – 09:30	Session S3 – Voids & Geohazards
09:30 – 10:30	Session S4 – Extraterrestrial Exploration
10:30 – 10:50	Coffee Break
10:50 – 11:20	Poster Session 3 – Exhibition Area
11:20 – 12:20	Session S5 – Seismology
12:20 – 13:20	Lunch
13:20 – 14:05	Session S6 – Advances in Seismic Wavefield Analysis and Imaging
14:05 – 14:35	Poster Session 4 – Exhibition Area
14:35 – 14:55	Coffee Break
14:55 – 15:40	Session S7 – Ambient Noise Seismology
15:40 – 16:55	Session S8 – Urban Seismology & Seismic Risk Assessment of Structures
16:55 – 18:00	Panel Discussion 2 – Geophysics in Urban Space and Mega-Projects
18:00 – 21:00	Day 2 Close & Social Activity

Panel Discussion 2 (16:55 – 18:00)

Geophysics in Urban Space and Mega-Projects

Moderator: Aman Mwafy, Civil & Environmental Engineering Department, UAEU, UAE

Panelists: Khalid Obaid, Senior Specialist, Geophysics, ADNOC, UAE; Fidha Ismail, SmartGeo, UAE.

S3 | Voids & Geohazards - Library Auditorium

Session chair: Muhammad AUFARISTAMA

Time	ID	Presentation	Presenter
08:30-08:45	#4097	Detection and Characterization of Voids in Epikarst Using Surface-Based Ground-Penetrating Radar Reflection Imaging	Klaus Holliger
08:45-09:00	#9185	Integrated Electrical Resistivity Tomography and Microgravity Survey for Mapping Subsurface Cavities in the Jebel Hafeet Region, Al Ain, UAE	Mai Alkaabi
09:00-09:15	#2022	Joint tomography of surface and cross-hole seismic first-arrival travel times for enhancing detection accuracy of karst	Zhanjie Shi
09:15-09:30	#8679	Geohazard mapping for an existing wellpad using an integrated site screening approach	Shekhar Himadri Majumdar

S4 | Extraterrestrial Exploration - Library Auditorium

Session chair: Yan Jianguo

Time	ID	Presentation	Presenter
09:30-09:45	#1439	Regional Mapping of Ring and Radial Structures around Lunar Multi-Ring Basins Based on GRAIL Gravity Gradients	Denggao Qiu
09:45-10:00	#5911	The 3D Subsurface Structures of the Atlas Impact Crater Revealed by GRAIL Gravity Data	Niannian Liu
10:00-10:15	#1318	Scattering analysis of shallow Martian seismic waves using signals from the InSight HP3 mole	Kento Komatsu (online)

Time	ID	Presentation	Presenter
10:15-10:30	#3587	Fundamental Study on Optimal Source Waveform Design for Lunar Exploration	Yuya Takenaka (online)

S5 | Seismology - Library Auditorium

Session chair: Jianghai Xia

Time	ID	Presentation	Presenter
11:20-11:35	#3949	Is Recent Seismicity in the UAE Triggered by Historical Earthquakes? A Coulomb Stress Modeling Perspective	Murat Utkucu
11:35-11:50	#6390	Assessing Tsunami Hazard Along the Eastern Coast of the UAE Using Deterministic Modeling of the Makran Subduction Zone	Mouloud Hamidatou
11:50-12:05	#7184	A Unified Earthquake and Focal Mechanism Catalog for the United Arab Emirates (658–2024): Implications for Seismic Hazard Assessment	Rashad Sawires
12:05-12:20	#8015	Time-dependent stress changes caused by the 1999 İzmit and Düzce earthquakes triggering the December 4, 2023 Mudanya earthquake (NW Türkiye)	Fatih Uzunca (online)

S6 | Advances in Seismic Wavefield Analysis and Imaging - Library Auditorium

Session chair: Jianghai Xia

Time	ID	Presentation	Presenter
13:20-13:35	#6560	Exploiting Free-Surface Ghosts as Mirror Observations in Marine Seismic Data	Hitoshi Mikada
13:35-13:50	#4039	Benchmarking Ray Quantities Solvers in Attenuating VTI: A Foundation for Robust and Efficient Ray Tracing	Muhammad Fadhil Taufik Darwis
13:50-14:05	#7646	Seismic Stratigraphic Analysis and Sedimentary Evolution Regularity of the Supra-salt Carbonates in the Fuman Area, Tarim Basin	Dong Wang

S7 | Ambient Noise Seismology - Library Auditorium

Session chair: Hitoshi Mikada

Time	ID	Presentation	Presenter
14:55-15:10	#3185	Characterizing seismic signals induced by a single wind turbine with a dense nodal array and DAS system for near-surface imaging and monitoring	Jie Zhou
15:10-15:25	#6748	Fiber-Optic Seismology Unlocks 4D Groundwater Flow Monitoring	Feng Cheng
15:25-15:40	#7281	Study on Surface Wave Method for Inhomogeneous Noise Source Distribution	Jianghai Xia

S8 | Urban Seismology & Seismic Risk Assessment of Structures - Library Auditorium

Session chair: Murat Utkucu

Time	ID	Presentation	Presenter
15:40-15:55	#3174	Preliminary Response Spectra Exceedance Thresholds for Rapid Seismic Damage Assessment in the United Arab Emirates	Ali Megahed
15:55-16:10	#5011	Effect of Far-Field and Near-Source Earthquakes on Regular and Irregular High-Rise Buildings in the UAE	Mohammed Alshaer
16:10-16:25	#8726	Seismic Performance Enhancement of Substandard Bridges Using Hybrid Risk Mitigation Measures	Jumana Hasina
16:25-16:40	#0103	A Development of Spiral Array for MASW Survey	Koya Suto
16:40-16:55	#4188	Impact of Felt Earthquakes and Strong Winds on Dubai Skyscrapers using Dubai Municipality’s Smart Seismic Systems	Kamal Abou Elenean

18:00 - 21:00 Social Activity: Gala Dinner, Students Awards, Honoring Ceremony

Day 3 - Thursday, 15 October 2026

Technical Program and Closing | 08:00-15:30

Time	Program item
08:00 – 08:30	Keynote - Multiphysics investigations of transcrustal magmatic systems and their link to porphyry copper mineralisation Joachim Gottsmann
08:30 – 10:30	Session S9 - Geophysical Methodology Development
10:30 – 10:50	Coffee Break
10:50 – 11:20	Poster Session 5 - Exhibition Area
11:20 – 12:35	Session S10 - Natural and Man-Induced Hazards Assessment
12:35 – 13:35	Lunch
13:35 – 14:50	Session S11 – Urban Geophysics & Infrastructure Assessment and Monitoring
14:50 – 15:10	Poster Session 6 - Exhibition Area
15:10 – 15:30	Coffee Break
15:30	Closing remarks

S9 | Geophysical Methodology Development - Library Auditorium

Session chair: Klaus Holliger

Time	ID	Presentation	Presenter
08:30-08:45	#1281	Subsurface Geometry of the Lower Shire Karoo Basins from 3D Gravity Inversion	Brave Manda
08:45-09:00	#6742	Multimethod Geophysical Imaging of an Ophiolite–Sediment Contact Zone	Fateh Bouchaala
09:00-09:15	#7296	Enhancement of gravity data using different vertical derivative methods	Hakim Saibi
09:15-09:30	#7767	P and S Suspension logging technique within ungrouted PVC cased boreholes to prevent borehole instability	Shekhar Himadri Majumdar
09:30-09:45	#3835	Self-Potential Monitoring of Water Dynamics within the Soil-Plant Continuum	Kaiyan Hu
09:45-10:00	#3193	Improving Post-Drilling Grouting Efficiency in Shaft Development through Integrated Borehole Geophysical Characterization	Amantle Tiroyame
10:00-10:15	#2361	A Lightweight Tool to Monitor Near-Real-Time Global Land Surface Temperature Trends Using Google Earth Engine	Li Lin
10:15-10:30	#8133	A Generalizable Agent-Orchestrated Applied Geophysical Workflow for Subsurface Accessible Analysis	Hang Chen

S10 | Natural and Man-Induced Hazards Assessment - Library Auditorium

Session chair: Mabrouk Hassan

Time	ID	Presentation	Presenter
11:20-11:35	#0597	Revealing the nature of spontaneous soil combustion in the Dakhla region, Western Desert, Egypt	Mohamed Abdel Zaher
11:35-11:50	#2246	Imaging CO ₂ migration using crosswell P-wave tomography in heterogeneous sedimentary deposits	Thomas Fechner
11:50-12:05	#5522	A Big-Data Approach to Spatial Temporal Mapping of Historical Hazard Related Surface Changes Using AlphaEarth Satellite Embeddings	Muhammad Aufaristama
12:05-12:20	#5255	Jet Superposition and a Cut-off Low Behind a Rare Heavy Hailfall Episode in the United Arab Emirates (10–12 February 2024)	Noor Alshamsi
12:20-12:35	#5143	Assessing Climate-Induced Drought Risk to Livelihoods and Evaluating Mitigation Actions in Balochistan	Alaa Ahmed

S11 | Urban Geophysics & Infrastructure Assessment and Monitoring - Library Auditorium

Session chair: Khalid Al Bloushi

Time	ID	Presentation	Presenter
13:35-13:50	#2633	Data-Driven Assessment of Durability-Cost Optimization in Fly Ash and Silica Fume Modified Concretes under Harsh Climatic Conditions	Hadi Issa
13:50-14:05	#3288	Challenging the Status Quo in Site Characterization: Accelerating Geo-Risk Management with Ambient Noise Tomography and ML-Driven 3D Ground Modelling	Fakhar Abbas
14:05-14:20	#5857	Identifying an Optimal Tree Canopy Threshold for Urban Microclimatic Performance: A Case Study of Lucknow, India	Farheen Bano
14:20-14:35	#7140	An Integrated Geophysical Assessment of Urban Heat Dynamics Based on Surface Radiometry and Urban Morphology in Lucknow, India	Farheen Bano
14:35-14:50	#7250	Seismic Urban Surveillance for Smart Cities: Particle Motion and AI-Driven Intruder Detection	Ahmad B. Ahmad

15 October 2026, 08:30 – 14:00 Field Trip (optional parallel activity)

Poster Program

Posters are available throughout the exhibition and are presented in six numbered sessions scheduled from 13–15 October. Poster venue: Founder Sheikh Zayed's Hall

Time	Program item
P1 13 Oct, 11:10 – 11:40	Poster Session 1; Session chair: Alaa Ahmed
P2 13 Oct, 15:15 – 15:45	Poster Session 2; Session chair: Mahmoud Abu Saima
P3 14 Oct, 10:50 – 11:20	Poster Session 3; Session chair: Osman Abdelghany
P4 14 Oct, 14:05 – 14:35	Poster Session 4; Session chair: Amir Gabr
P5 15 Oct, 10:50 – 11:20	Poster Session 5; Session chair: Mohammad Shehata
P6 15 Oct, 14:50 – 15:10	Poster Session 6; Session chair: Khaled Ahmed

Session	ID	Poster title	Presenter
P1	#0235	Role of Marine Fossils Content in Carbonate Rocks Stability and Weathering Jebel Hafeet, UAE	Mahmoud Abu Saima
P1	#0250	Sustainable Adsorption-Based Treatment of Industrial Wastewater Using Eco-Friendly Adsorbents	Mariam Al Dahmani
P1	#0608	Fracture Network Evolution and Parameter Optimization in Hydraulic Fracturing of Coal Reservoirs	Yi Wan
P1	#0761	Deformation microstructures and crack–seal evolution of hydrothermal quartz veins from Marwit El-Sweiqat, Eastern Desert, Egypt	Khaled M. Abdelfadil
P1	#0775	Insights into the Palaeocene - Early Eocene Muthaymimah Formation and The Geotourism Potential of Mundassah Outcrop, UAE	Alanoud Al Ali
P1	#0975	The Mw 4.4 South of Musandam Earthquake of November 4, 2025: Insights into Recent Seismicity Along the Dibba Fault Zone	Nouf Alqaydi
P1	#1069	Structural controls on uranium mineralization: insights from a Paleozoic sandstone succession in Sinai, Egypt	Salama Bahr
P2	#1312	High-purity diagenetic celestite at Jabal Hafit anticline (UAE): genesis, resource quality and implications for strontium exploration	Mariam Aldhaheeri
P2	#1328	Multi-Scale Stratigraphic Correlation of Sedimentary Basins along the Southern Neo- Tethyan Margin: Insights from Saudi Arabia, the United Arab Emirates, and Egypt	Osman Abdelghany
P2	#1388	Dry high-intensity rare-earth roll magnetic separation for sustainable quartz beneficiation in arid environments; a case study from the Marwit Rod El Leqah deposits	Mostafa R. Abukhadra
P2	#1641	Ionospheric TEC as a Diagnostic Tool for Geophysical and Anthropogenic Hazards: Overview	Ahmed Elzein
P2	#2000	Seismicity Cycles in the Southern Alboran Basin: A Wavelet Perspective on Plate Boundary Dynamics	Karim Bouhali
P2	#2854	Real-Time Structural Health Monitoring in Unique UAE Buildings: Advances from the NCM Seismic Monitoring System	Shamma Alneyadi
P2	#3073	Seepage Risk Evaluation in a Small Irrigation Dam Based on Integrated Geological and Geophysical Investigations	Tofeeq Ahmad
P3	#3542	A novel field and processing technique for Seismic (MASW) survey with multi-offset shot (MOS)	Abul Aas
P3	#3556	Geophysical investigation of geothermal resources and their connection to the distribution of mineral deposits in Aswan, Upper Egypt	Fatma Gouda
P3	#3560	Ground Penetrating Radar Investigations around Al Dhaid Fort: Implications of Survey Resolution and Orientation	Hamdan Hamdan
P3	#3705	Decoding shelf-scale depositional dynamics of Red Sea phosphorites through component-resolved petrographic classification	Mahmoud Abu Saima
P3	#4072	Quartzites From Dibba Zone, United Arab Emirates: Mineralogy, Geochemistry and Potential for High Purity Silica	Amnah Alzeyoudi
P4	#5388	Large-Scale Experimental Study of Proppant Transport and Placement in Rough Fractures of Conglomerate Reservoirs	Shixin Qiu

Session	ID	Poster title	Presenter
P4	#5440	Integrated Magnetic Data Interpretation Revealing Structural Influences on Groundwater Accumulation in EL-Gallaba Plain, Western Desert, Egypt	Mohammad Shehata
P4	#5649	Geochemical, Mineralogical and isotopic characteristics of Magnesite Veins in Serpentinized Peridotites of the Semail Ophiolite (United Arab Emirates): Implications for Ore Genesis and Carbon Sequestration	Ahad Al-Ahbab
P4	#5674	Biostratigraphy of the Tertiary Carbonate Rocks, Jabal Hafit, Al Ain, UAE	Abrar Mohammed
P4	#5847	Comparative Optimization of Subsurface Resistivity Models Using the Python-Based Framework pyGIMLi and Commercial Software	Ronak Dahiya
P4	#5891	Interaction Mechanisms between Disconnected Rivers and Groundwater in the Ziya River Plain Based on Multi-Source Hydrological Tracers	Peng Chen
P4	#6085	Integrated Geophysical Investigation of Falāj Mezyad: Mapping Subsurface Pathways and Aquifer Structures in Al-Ain Using ERT, AMT, and MASW	Saud Alsenaani
P4	#6457	Exploring the Potential of Natural Hydrogen in Egypt: Preliminary Geophysical and Geochemical Results for Wadi Ghadir ophiolites, Eastern Desert	Soha Hassan
P5	#6799	Geotourism in the United Arab Emirates: Protecting the UAE's Geological Heritage	Osman Abdelghany
P5	#7032	Detecting sedimentary structure in Yigong Lake by using distributed acoustic sensing	Heng Zhang
P5	#7039	Anthropogenic Imprints on Shallow Aquifers: A Spatial-Statistical Appraisal from the Gadoon-Amazai Industrial Estate, Pakistan	Tofeeq Ahmad
P5	#7537	Weighted Photolineaments Factor (WPF): An Enhanced Method to delineate the probable sites of radioactive mineralization, a Case Study in Nugrus Area, Southeastern Desert, Egypt.	Salama Bahr
P5	#7744	Spatial Evaluation of Groundwater Distribution in the Quaternary Aquifer between Jabal Hafit and the Oman Border, Eastern UAE	Helal Alnasri
P5	#7887	Geometric Nonlinearity of Hydraulic Fractures and Proppant Transport Response in Laminated Shale	Xiaodong Guo
P5	#8212	Redox dynamics and productivity-driven organic matter enrichment in Maastrichtian black shales	Douaa Fathy
P6	#8237	Geotechnical Evaluation of Unstable Rock Slopes Along the Karakoram Highway Using Kinematic and Limit Equilibrium Analyses	Tofeeq Ahmad
P6	#8968	A Microgravity Investigation of the Subsurface at the United Arab Emirates University Campus	Fidha Farzana Ismail
P6	#9374	Experimental Assessment of CO ₂ Mineralization Potential in UAE Mafic and Ultramafic Rocks under Simulated Subsurface Conditions	Xun Zhao
P6	#9403	Sensitivity Analysis of Polymer Flooding for Improved Oil Recovery in Heterogeneous Reservoirs	Rana Saqer
P6	#9593	Earthquake Hazard and Impact in İznik, NW Türkiye	Yelçin Utkucu
P6	#0993	Integrating SAR and Optical Remote Sensing Data for Improved LULC Classification: A Comparative Analysis Using Google Earth Engine	Mubbashra Sultan



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