

SIXTH INTERNATIONAL CONFERENCE ON ENGINEERING GEOPHYSICS (ICEG)

25 - 28 Oct 2021 | Virtual Conference

**PRELIMINARY
TECHNICAL
PROGRAMME
(AS OF OCTOBER 20)**

Houtson (GMT -5)		London (GMT)		Dubai (GMT +4)		Japan (GMT +9)		Paper	Program Details					
START	END	START	END	START	END	START	END							
SUNDAY 24 OCTOBER														
6:00		12:00		15:00		20:00			Innovation Award for Geophysics Competition					
MONDAY 25 OCTOBER														
5:30	6:00	11:30	12:00	14:30	15:00	19:30	20:00		Breakout Session/Activity					
6:00	6:10	12:00	12:10	15:00	15:10	20:00	20:10		Opening Ceremony					
6:10	6:20	12:10	12:20	15:10	15:20	20:10	20:20		Opening Speech - UAE University Chancellor					
6:20	6:30	12:20	12:30	15:20	15:30	20:20	20:30		Opening Speech - General Manager of Al Ain Municipality					
6:30	6:40	12:30	12:40	15:30	15:40	20:30	20:40		Announcing the Innovation Award Winners and Students' Papers Winners					
6:40	7:10	12:40	13:10	15:40	16:10	20:40	21:10	EGO1	KEYNOTE PRESENTER: John Bradford, Colorado School of Mines Taking the Power of Exploration Geophysics from the Oil Patch to Help Solve the World's Grand Challenges					
PANEL SESSION: Minerals and Metals Exploration in the Arabian Peninsula to Support the Energy Transition														
7:15	7:45	13:15	13:45	16:15	16:45	21:15	21:45	EGO2	PANEL KEYNOTE PRESENTER: Andrei Swidinsky, University of Toronto (I) Mineral Exploration in the Arabian Peninsula: A Review of Geophysical Activities.					
									Moderator: John Bradford, Colorado School of Mines					
7:45	8:45	13:45	14:45	16:45	17:45	21:45	22:45	Panel Speakers	Member 1: Sulaiman A. Alaabed (Alkaabi), UAEU					
									Member 2: Jeff L. Doebrich, U.S. Geological Survey					
									Member 3: Andrei Swidinsky, University of Toronto					
8:45	9:05	14:45	15:05	17:45	18:05	22:45	23:05		BREAKOUT SESSION: Networking and Product Demonstration by UAE University - 20 min					
9:05	9:35	15:05	15:35	18:05	18:35	23:05	23:35		BREAKOUT SESSION: Poster Presenters - 30 min					
SESSION 1: Engineering Geophysical Methods (Session Chairs: Haydar Baker & Reece Van Buren)														
9:35	10:05	15:35	16:05	18:35	19:05	23:35	0:05	EGO3	KEYNOTE PRESENTER: Richard D. Miller, University of Kansas Blurring the Lines Between Near Surface and Conventional Seismic Imaging					
					STREAM 1 (Session Chairs: Niels Grobbe & Hakim Saibi)					STREAM 2 (Session Chairs: Haydar Baker & Reece Van Buren)				
10:10	10:25	16:10	16:25	19:10	19:25	0:10	0:25	EGO4	Mark Burr, GeoTechnologies FZCO: Introduction of a Proven Geophysical Method to the United Arab Emirates: Resonance Acoustic Profiling (or RAP Method) for Geotechnical Surveys and Studies	EGO8	Lee D. Slater, Rutgers University Newark: Engineering Applications of Induced Polarization (D)			
10:25	10:40	16:25	16:40	19:25	19:40	0:25	0:40	EGO5	Hussein Abdulrahim Al-Saady, University of Baghdad: Detection of Subsurface Voids in Pumping Station of Bismayah Site using GPR, Southern Baghdad, Iraq (S)	EGO9	Chih-Ping Lin, National Yang Ming Chiao Tung University: Efficient Full-wavefield Computation and Seismic Attributes of Vertical Loading over an Elastic Layered Half-Space			
10:40	10:55	16:40	16:55	19:40	19:55	0:40	0:55	EGO6	Yassine Ben Boudiaf, Fugro: From Seismic Data Acquisition to Integrated Ground Model: An Innovative Approach for Data Treatment and Interpretation	EG10	Haydar Baker, UAEU: Interpretation and Delineation of Near-Surface Electrical Anomalies			
10:55	11:10	16:55	17:10	19:55	20:10	0:55	1:10	EGO7	Steve Sloan, U.S. Army Engineer Research & Development Center: Backscattered Surface Waves and the Relationship between Wavelength and Signature Response	EG11	Daniel Z. Feigenbaum, U.S. Army Engineer Research & Development Center: Prime Numbers and their Association with Anomalies in Shallow Seismic Data			
11:15	11:30	17:15	17:30	20:15	20:30	1:15	1:30		MODERATED DISCUSSION - 15 min (Session Chairs: Niels Grobbe & Hakim Saibi)					
11:30	12:00	17:30	18:00	20:30	21:00	1:30	2:00		BREAKOUT SESSION: On Demand Presenters - 30 min					

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START	END	START	END	START	END	START	END											
TUESDAY 26 OCTOBER																		
5:30	6:00	11:30	12:00	14:30	14:30	19:30	20:00		Breakout Session/Activity									
6:00	6:30	12:00	12:30	15:00	15:30	20:00	20:30	EG12	PANEL KEYNOTE PRESENTER: Chih-Ping Lin, National Yang Ming Chiao Tung University Towards Standardization of Engineering Geophysics - CHERT Example									
PANEL SESSION: Global Standards related to Engineering Geophysics																		
6:30	7:30	12:30	13:30	15:30	16:30	20:30	21:30	Panel Speakers	Moderator: Chih-Ping Lin, National Yang Ming Chiao Tung University									
									Member 1: Haydar Baker, UAE University									
									Member 2: Tomio Inazaki, National Institute of Advanced Industrial Science and Technology									
									Member 3: Thomas Fechner, Geotomographie									
									Member 4: George Tuckwell, RSK									
SESSION 2: Geotechnical : Geophysical Determination of Properties & Parameters (Session Chairs: Chih-Ping Lin & Ala Aldahan)																		
7:35	8:05	13:35	14:05	16:35	17:05	21:35	22:05	EG13	KEYNOTE PRESENTER: Ryosuke Uzuoka, Kyoto University Role of Geophysical Survey in Geotechnical Seismic Analysis									
					STREAM 1 (Session Chairs: Chih-Ping Lin & Ala Aldahan)					STREAM 2 (Session Chairs: John Bradford & Niels Grobbe)								
8:10	8:25	14:10	14:25	17:10	17:25	22:10	22:25	EG14	Jong-Sub Lee, Korea University: Mining Tailing Characterization using Elastic and Electromagnetic Waves (D)	EG17	Daniele Colombo, Saudi Aramco: Geophysical Parameter Determination via Physics-Deep Learning Coupled Inversions (D)							
8:25	8:40	14:25	14:40	17:25	17:40	22:25	22:40	EG46	Christos Orfanos, National Technical University of Athens: Integrated Spatial Geotechnical and Geophysical Evaluation Tool for Engineering Projects: A 3D Example at a Challenging Urban Environment in the City of Athens, Greece	EG18	Yuqing Chen, CSIRO: Seismic Inversion by Multiscale Newtonian Machine Learning Inversion							
8:40	8:55	14:40	14:55	17:40	17:55	22:40	22:55	EG16	Hasan Arman, UAEU: Variations of Ultrasonic Pulse Velocities Measurements of Rock Blocks versus Core Samples of Evaporitic Rocks from Coastal Sabkha of Abu Dhabi, United Arab Emirates.	EG19	Jorge Lopez-Alvis, Ghent University: Interpretation and Delineation of Near-Surface Electrical Anomalies Using a Variational Autoencoder and Geologically-Consistent Transformations to Model Spatial Prior Information for Geophysical Inversion (D)							
8:55	9:10	14:55	15:10	17:55	18:10	22:55	23:10		MODERATED DISCUSSION - 15 min (Session Chairs: John Bradford & Ala Aldahan)									
9:10	9:30	15:10	15:30	18:10	18:30	23:10	23:30		BREAKOUT SESSION: Networking and Product Demonstration by Fujian Survey & Geo Research - 20 min									
9:30	10:00	15:30	16:00	18:30	19:00	23:30	0:00		BREAKOUT SESSION: Poster Presenters - 30 min									
SESSION 3: Environmental & Geo-Hazards Studies																		
					STREAM 1 (Session Chairs: Zhengyong Ren & Khalid Bloushi)					STREAM 2 (Session Chairs: Richard D. Miller & Hitoshi Mikada)								
10:00	10:15	16:00	16:15	19:00	19:15	0:00	0:15	EG20	Wei-An Chao, National Yang Ming Chiao Tung University: Advances in Monitoring Deep-Seated Landslides Using Seismic Ambient Noise Interferometry (D)	EG24	Salem Issa, UAEU: A Remote Sensing Based Time-Series Land Use Land Cover Change (LULCC) Analysis: A Case Study from the United Arab Emirates (UAE)]							
10:15	10:30	16:15	16:30	19:15	19:30	0:15	0:30	EG21	José Fernández, Instituto de Geociencias (IGEO), CSIC: Geodetic Observation in Geodynamics and Engineering: Some Examples (D)	EG25	Khalid ElHaj, UAEU: Radon-222 as a Tracer of Groundwater Flow and Environmental Impact for Small Catchment Areas in an Arid Climate of the UAE (S)							
10:30	10:45	16:30	16:45	19:30	19:45	0:30	0:45	EG22	Vala Hjörleifsdóttir, Reykjavík Energy: Ten Years of Induced Earthquakes in the Húsmúli CO2 Injection Site, Hellisheiði, Iceland (I).	EG15	Khalid Amin Khan, Oil and Gas Development Company Ltd.: Site Characterization Using Geotechnical and Earthquake Engineering Parameters Derived From Seismic Refraction and Uphole Logging Survey in Rawat Area, Upper Indus Basin, Pakistan (D)							
10:45	11:00	16:45	17:00	19:45	20:00	0:45	1:00	EG23	Roshen Joseph, UAEU: Assessment of Seismic Risk Mitigation Alternatives for Concrete Buildings in the UAE (S)	EG27	Osman Abdelghany, UAEU: Sabkha Environment of the Lower Miocene Fars Formation Gypsiferous Sediments: Abu Dhabi, UAE							
11:05	11:20	17:05	17:20	20:05	20:20	1:05	1:20		MODERATED DISCUSSION - 15 min (Session Chairs: Zhengyong Ren & Hitoshi Mikada)									
11:20	11:50	17:20	17:50	20:20	20:50	1:20	1:50		BREAKOUT SESSION: On Demand Presenters - 30 min									

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WEDNESDAY 27 OCTOBER														
5:30	6:00	11:30	12:00	14:30	14:30	19:30	20:00		Breakout Session/Activity					
6:00	6:30	12:00	12:30	15:00	15:30	20:00	20:30	EG28	PANEL KEYNOTE PRESENTER: David Lumley, University of Texas at Dallas Long-Term Time-Lapse Seismic Monitoring Of CO2 Injection and Storage Projects for 50-100 Years of Regulatory Compliance.					
PANEL SESSION: CO2 Monitoring and Management														
6:30	7:30	12:30	13:30	15:30	16:30	20:30	21:30	Panel Speakers	Moderator: Wafik Beydoun, Regional Director of the International Association of Oil and Gas Producers					
									Member 1: David Lumley, University of Texas at Dallas					
									Member 2: Ziqiu Xue, Research Institute of Innovative Technology for the Earth (RITE)					
									Member 3: Dave Ponting, OpenGoSim					
7:30	7:50	13:30	13:50	16:30	16:50	21:30	21:50		BREAKOUT SESSION: Networking and Product Demonstration - 20 min					
SESSION 4 (Session Chairs: Jianghai Xia & Zhengyong Ren)														
7:50	8:20	13:50	14:20	16:50	17:20	21:50	22:20	EG29	KEYNOTE PRESENTER: Wenke Zhao, Zhejiang University Multi-Frequency GPR Data Fusion for Near-Surface Geophysical Survey					
					STREAM 1: Best of ICEEG (Session Chairs: Jianghai Xia & Zhengyong Ren)					STREAM 2: Near Surface Geophysics to Improve Exploration Geophysics (Session Chairs: Khalid Bloushi & Haydar Baker)				
8:25	8:40	14:25	14:40	17:25	17:40	22:25	22:40	EG30	Binbin Mi, Zhejiang University: Multisource Multichannel Analysis of Surface Waves for Near-Surface Characterization in Urban Areas (I)	EG34	Daniele Colombo, Saudi Aramco: Tackling Complex Near Surface Conditions with Surface-Consistent Transmission FWI (D)			
8:40	8:55	14:40	14:55	17:40	17:55	22:40	22:55	EG31	Zhaofa Zeng, Jilin University: Mechanism Analyzing and Delineation of Hot Dry Rock in Gonghe Basin, China (D)	EG35	Ping-Yu Chang, National Central University: Characterizing Subsurface Geology with Transient EM Methods and Machine Learning Techniques (D)			
8:55	9:10	14:55	15:10	17:55	18:10	22:55	23:10	EG32	Zhengyong Ren, Central South University: Workflow for Generating Complex Tetrahedral Grids of Three-Dimensional Geo-Electromagnetic Simulation for a Realistic Iron Deposit (I)	EG36	Muhammad Awais, KFUPM: Land-Streamer Data: Fast and Accurate Seismic Technique for Shallow Engineering Applications (I)			
9:10	9:25	15:10	15:25	18:10	18:25	23:10	23:25	EG33	Bin Liu, Shandong University: Research Progress and Prospect of Adverse Geology Forward-Prospecting and Intelligent Decision-Making of TBM Tunneling.	EG37	Pwavodi Joshua, University of Grenoble Alpes: Hydrogeological Properties at the Toe of the Nankai Accretionary Prism, using Borehole Geophysical and Petrophysical Data within Hole C0024A, Expedition 358 of IODP - NanTroSEIZE Project (S)			
9:25	9:40	15:25	15:40	18:25	18:40	23:25	23:40		MODERATED DISCUSSION - 15 min		MODERATED DISCUSSION - 15 min			
9:40	10:00	15:40	16:00	18:40	19:00	23:40	0:00		BREAKOUT SESSION: Networking and Product Demonstration by UAE University - 20 min					
SESSION 5														
10:00	10:30	16:00	16:30	19:00	19:30	0:00	0:30	EG38	KEYNOTE PRESENTER: Junzo Kasahara, ENAA Seismic Exploration for Geothermal Resources					
					STREAM 1: Geothermal & Hydrogeophysics (Session Chairs: Hitoshi Mikada & Reece Van Buren)					STREAM 2: Special Applications in Geophysics (Session Chairs: Steve Sloan & Rick Miller)				
10:35	10:50	16:35	16:50	19:35	19:50	0:35	0:50	EG26	Dalal Al Shamsi, UAEU: Evaluating Uranium-238 and Radium-226 Loading in Groundwater of the UAE	EG43	Christopher Leech, Geomatrix Earth Science Ltd.: Issues Surrounding the Acquisition of High Quality Data Using a UAV Deployed Magnetometer			
10:50	11:05	16:50	17:05	19:50	20:05	0:50	1:05	EG39	Naser Meqbel, National Observatory of Brazil: The Magnetotelluric Method: Examples from Uppermost Mantle to the Uppermost Crust (I)	EG44	Boris Gurevich, Curtin University: Borehole Seismic Monitoring of CO2 Storage Using Fiber-Optic Sensors: Otway Project Example (D)			
11:05	11:20	17:05	17:20	20:05	20:20	1:05	1:20	EG40	Anja Klotzsche, Institute of Bio- and Geosciences: Recent Development of the Crosshole Ground Penetrating Radar Full-Waveform Inversion for Hydrogeophysical Applications (I).	EG45	Boris Gurevich, Curtin University: Monitoring Variations in Subsurface Properties Using Direct-Wave Arrivals Recorded by Downhole Fiber-Optic Sensors (I)			
11:20	11:35	17:20	17:35	20:20	20:35	1:20	1:35	EG41	Rambhatla G. Sastry, IIT: Groundwater Prospecting in Hard Rock Region Using Micro-Gravity - A Case Study	EG47	Jing Li, Jilin University: Numerical Test of the Chang'E-5 Lunar Penetrating Array Radar Full Waveform Inversion			
11:35	11:50	17:35	17:50	20:35	20:50	1:35	1:50	EG42	Zoubida Nemer, University of Science and Technology Houari Boumediene: Hydrogeophysical Assessment of an Alluvial Aquifer's Protective Capacity in Eastern Mitidja Plain (S)					
11:50	12:05	17:50	18:05	20:50	21:05	1:50	2:05		MODERATED DISCUSSION - 15 min		MODERATED DISCUSSION - 15 min			
12:05	12:35	18:05	18:35	21:05	21:35	2:05	2:35		BREAKOUT SESSION: On Demand Presenters - 30 min					

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START	END	START	END	START	END	START	END							
THURSDAY 28 OCTOBER														
5:30	6:00	11:30	12:00	14:30	15:00	19:30	20:00		Breakout Session/Activity					
6:00	6:30	12:00	12:30	15:00	15:30	20:00	20:30	EG48	KEYNOTE PRESENTER: Niels Grobbe, University of Hawai'i at Manoa Integrating Structural and Fluid-flow Geophysical Data: a Passive Approach to Enhance our Understanding of Complex Groundwater Systems					
SESSION 6: Advanced Geophysical Imaging and Characterization Methods														
					STREAM 1: (Session Chairs: Hakim Saibi & Chris Leech)					STREAM 2: (Session Chairs: Zhengyong Ren & George Apostolopoulos)				
6:35	6:50	12:35	12:50	15:35	15:50	20:35	20:50	EG49	Dmitry Borisov, Kansas Geological Survey: Waveform Inversion of Shallow Seismic Data with Randomly Selected Sources (D)	EG52	Adam R. Mangel, Pacific Northwest National Laboratory: Spectral Induced Polarization measurements of variably saturated intact Hanford sediments)			
6:50	7:05	12:50	13:05	15:50	16:05	20:50	21:05	EG50	Christina Morency, Lawrence Livermore National Laboratory: Seismic To Electric Conversion for Carbon Storage Monitoring (I)	EG53	Ramabhatla G. Sastry, IIT: Numerical Borehole Tensorial Gravity Modelling and Possible Applications			
7:05	7:20	13:05	13:20	16:05	16:20	21:05	21:20	EG51	Sjoerd de Ridder, University of Leeds: High-Resolution Near-Surface Seismic-Velocity Mapping using Wavefield Gradiometry (I)	EG54	Hang Chen, Boise State University: Influence of Subsurface Heterogeneity on Critical Zone Characterizations with Electrical Resistivity and Seismic Refraction Tomography			
7:25	7:40	13:25	13:40	16:25	16:40	21:25	21:40		MODERATED DISCUSSION - 15 min (Session Chairs: Chris Leech & George Apostolopoulos)					
7:40	8:00	13:40	14:00	16:40	17:00	21:40	22:00		BREAKOUT SESSION: Networking and Product Demonstration by Fujian Survey & Geo Research - 20 min					
SESSION 7 (Session Chairs: TBC)														
8:00	8:30	14:00	14:30	17:00	17:30	22:00	22:30	EG71	KEYNOTE PRESENTER: Carlos Santamarina, KAUST Fluids, Soils and Rocks: Electromagnetic and NMR Signatures					
					STREAM 1: Geo-Resources (Session Chairs: Ala Aldahan & Chih-Ping Lin)					STREAM 2: Special Applications in Geophysics (Session Chairs: Jing Li & John Bradford)				
8:35	8:50	14:35	14:50	17:35	17:50	22:35	22:50	EG55	Maxim. Yu. Smirnov, Luleå University of Technology: Magnetotelluric Data Analysis in Near Mine Environment (D)	EG60	Yutaka Tanaka, Japan Petroleum Exploration Co., Ltd.: Geophysical Technologies and Geological Sequestration for Carbon Neutral Transition (D)			
8:50	9:05	14:50	15:05	17:50	18:05	22:50	23:05	EG56	Qorri Muttaqien, University of Sharjah: Identifying Wetting Front in Soil below Solar Panels. Preliminary Results of a Mutli-Discipline Approach of Geophysical and Hydrogeology Method (S)	EG62	Jiahe Yan, Jilin University: Electrical Resistivity Tomography with New Arrangement of Electrode System for Grottoes (S)			
9:05	9:20	15:05	15:20	18:05	18:20	23:05	23:20	EG57	Alejandra J. Angulo, Universidad Nacional de Colombia: Global Geothermal Gradient Estimation by Curie point Depth Based on a Magnetic Anomaly Data Inversion and from Interpolation of Global Geothermal Gradient Data (S)	EG63	Khalid AlBloushi, UAEU: Developing Drone (HAWAM) for Magnetic Survey Applications			
9:20	9:35	15:20	15:35	18:20	18:35	23:20	23:35	EG58	Biruk Abera Cherkose, UAEU: A Python Package for Magnetotelluric Data Visualization, Analysis, Modeling and Inversion (S)	EG64	Ahmad Bahaa Omar Ahmad, Kyushu University: Vehicles Detection Based on their Seismic Surface Waves Using Classification Techniques (S)			
9:35	9:50	15:35	15:50	18:35	18:50	23:35	23:50		MODERATED DISCUSSION - 15 min					
9:50	10:25	15:50	16:25	18:50	19:25	23:50	0:25		BREAKOUT SESSION: Networking and Product Demonstration - 35 min					
SESSION 8: Advances in Geophysical Methodology & Technologies														
					STREAM 1: (Session Chairs: Chris Leech & Steve Sloan)					STREAM 2: (Session Chairs: Reece Van Buren & Jing Li)				
10:25	10:40	16:25	16:40	19:25	19:40	0:25	0:40	EG65	Ziqiu Xue, Research Institute of Innovative Technology for the Earth: Developing and Demonstrating Distributed Fiber Optic Sensing for Industrial Deployment (D)	EG68	Yunyue Elita Li, Purdue University: Machine-Learning Based Activity Monitoring using Urban Ambient Seismic Noise (D)			
10:40	10:55	16:40	16:55	19:40	19:55	0:40	0:55	EG66	Khalid Amin Khan, Oil & Gas Development Company Ltd: Velocity-Moisture Transform for the Top Soil - A Case Study from Rawalpindi, Pakistan (S))	EG69	Michal Dyrda, SGPR.TECH: Building an End-to-End Data Science Pipeline with Deep Learning for Radar Data Analytics			
10:55	11:10	16:55	17:10	19:55	20:10	0:55	1:10	EG67	Khiem T. Tran, University of Florida: Deep Void Detection with 3D Seismic Waveform Tomography (I)	EG70	Weiqiang Liu, China University of Petroleum-Beijing: Data Acquisition and Processing of Distributed Full-Waveform Induced Polarization Exploration			
11:15	11:30	17:15	17:30	20:15	20:30	1:15	1:30		MODERATED DISCUSSION - 15 min (Session Chairs: Steve Sloan & Reece Van Buren)					
11:30	11:50	17:30	17:50	20:30	20:50	1:30	1:50		WRAP UP/CLOSING CEREMONY					
11:50	12:20	17:50	18:20	20:50	21:20	1:50	2:20		BREAKOUT SESSION: On Demand Presenters - 30 min					