







LETTER FROM THE CEO & DIRECTOR

On behalf of United Research Forum, UK, we are delighted to announce the organization of the 4th International Congress on Earth and Geological Sciences, to be held at the Van der Valk Hotel Paris CDG Airport from July 21-22, 2025.

Our goal is to provide an international platform where researchers and professionals from various fields of the health sector can come together to exchange ideas, discuss current trends, share research outcomes, and explore practical experiences.

We look forward to welcoming all of you to France and to hosting an exceptional meeting with distinguished scientists from around the world, sharing new and exciting developments across the diverse subjects covered by the conference.

We hope you enjoy your stay in France and encourage you to take this opportunity to explore the beautiful historical sites the country has to offer. Finally, I extend my best wishes for a successful and fruitful conference, and express sincere thanks to our partners and the organizing team for making this event possible.

Sincerely,

Dr. Vanga

CEO, Director | United Research Forum United Kingdom

Day -1 Monday

4th International Congress on Earth and Geological Sciences

July 21-22, 2025 | Paris, France

Registrations + Badge Pickup & Opening Cermony (08:30-09:00)

	Keynote Forum	
09:00-09:30	Real-world consequences of High-Performance Competencies	
	Anthony Cockerill, University of Cambridge, United Kingdom	
09:30-10:00	Simulation and optimization of a dual-axis solar tracking	
	mechanism	
	Catalin Alexandru, Transilvania University of Brasov, Romania	
10:00-10:30	Urban mining for the recovery of critical metals from e-waste	
	Maria Holuszko, University of British Columbia, Canada	
	Refreshment Break & Group Photo (10:30 - 10:50)	
	Technical Session-I (10:50-12:55)	
10:50-11:15	Bimodal Miocene volcanism in the Hegau region (SW Germany) produced nosean phonolites by differentiation of primitive melilititic-nephelinitic magmas	
	Thomas Binder, Eberhard Karls Universität Tübingen, Germany	
11:15-11:40	Exploring the Potential of Cost-Effective Mobile Laser Scanning and Photogrammetry in Mine Shaft Sinking Processes	
	Wojciech Ru <mark>tko</mark> wski, PeBeKa S.A. <mark>/AGH U</mark> niversity of Krakow, Poland	
11:40-12:05	Quantitative flood disaster loss-resilience with the multilevel	
	hybrid evaluation model	
	Shaohong Wu, Chinese Academy of Sciences (IC2MP), China	
12:05-12:30	Synergistic chemical evolution of Fe-smectite and glycine during mineral crystallization	
	Rihab Fkiri, Institut de Chimie des Milieux et Matériaux de Poitiers (IC2MP), France	

Day -1 Monday

4th International Congress on Earth and Geological Sciences

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12:30-12:55

Mesozoic Intracontinental Deformation and Reactivation of the Southern Central Asian Orogenic Belt

Yiping Zhang, Chinese Academy of Geological Sciences, China

	Lunch @ Restaurant (12:55 -14:00)	
	Technical Session-II (14:00-18:25)	
14:00-14:25	Evaluation of wetlands as carbon sinks towards its contribution in offsetting GHG emission and climate change	
14.00-14.20	Subir Kumar <mark>N</mark> ag, ICAR-Central <mark>Inland F</mark> isheries Research Institute, India	
14:25-14:50	The study of historical mortars from Notre-Dame de Paris cathedral	
	Jean Michel Mechling, University of Lorraine, France	
	Estimation of 3D Permeability from Pore Network Models	
14:50-15:15	Constructed Using 2D Thin Section Images in Sandstone Reservoirs	
	Chengfei Luo, CNOOC EnerTech - Drilling & Production Co, China	
	Serpentinization of the oceanic lithosphere: Geological aspects and	
15:15- 15:40	environmental impact	
10.10 10.10	Toshio N <mark>oza</mark> ka, Okayama Universit <mark>y, Japan</mark>	
	Refreshment Break (15:40-16:00)	
	Poster Presentations-I (16:00-16:30)	
	Assessment of Water Quality in Emergency Supply Wells: A Case	
Poster 1	Study from Kraków	
	Anna Szczepaniec, AGH University of Krakow, Poland	
	Assessment of Water Chemistry across the Podhale Basin (Southern	
Poster 2	Poland)	
1 00101 2	Marta Kusy, AGH University of Krakow, Poland	
	Variability of hydrogen, methane and carbon dioxide concentrations	
	in soil gases along a geochemical profile across the Podhale Basin	
Poster 3	(Southern Poland) Potrycio Wiciósko ACH University of Krokow Poland	
	Patrycja Wisińska, AGH University of Krakow, Poland	

Day -1 Monday

4th International Congress on Earth and Geological Sciences

Poster 4	REE interferences in standard solutions – consequences for aqueous analyses by ICP-MS Piotr Dzień, AGH University of Krakow, Poland	
Poster 5	Validation of the ICP-MS method for lanthanum determination Błażej Markowski, AGH University of Krakow, Poland	
	Technical Session-II Continues	
16:30-16:55	Mechanisms of surface disturbance induced by coal seam mining	
	based on primary key strata analysis	
	Nan Wang, China U <mark>niversity of Minin</mark> g and Technology, China	
16:55-17:20	Environmental sustainability assessment of a new food waste	
	anaerobic digestion and pyrolysis hybridization system	
	Fuqing Xu, Xi'an Jiaotong Universitys, China	
17:20-17:45	Assessment and forecast of changes in Land use and land cover in	
	Bulandy district (Kazakhstan)	
	Onggarbek Alipbeki, Al-Faraby Kazakh National University, Kazakhstan	
17:45-18:10	Geochemical and REE Mineral Composition of the Rairakhol Alkaline	
	Complex, Odisha, India	
	Nikita Ram, RMIT University, Australia	

Day-1	Concl	lud	les

Pannel Discussions

Day -2 Tuesday

4th International Congress on Earth and Geological Sciences

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Keynote Talk 10:00-10:30	Crop water use and crop redistribution
	Wenjiao Shi, Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, China
	Virtual Reality technologies in Geography education – Research result and experiences
10:30-10:55	Gyöngyi Bujdosó, University of Debrecen, Hungary
10.55.11.00	Data Driven AI (Artificial Intelligence) detection furnish economic pathways for Microplastics
10:55-11:20	Shefali Arora, UPES, India
11:20-11:45	TBA
	Monika <mark>S</mark> uchowska-Kisielewicz, Univer <mark>sity of</mark> Zielona Góra, Poland
	Challenges and Opportunities in Northern Mendoza's Groundwater
11:45-12:10	Management María Laura Gomez, Argentine Institute for Arid Zones Research, Argentina
	Spatially explicit reconstruction of cropland cover in Europe from AD 1800 to 2000
12:10-12:35	Yu Ye, B <mark>eijin</mark> g Normal University, <mark>China</mark>
10.95 10.00	Biofilms as indicators of biogeochemical processes in groundwater
12:35-13:00	Litvinenko Z <mark>oia, Russian Academy of</mark> Sciences, Russia
	Experimental study of the impact of thunderstorms on ionospheric
13:00-13:25	parameters Valentina Antonova, Institute of Ionosphere, Kazakhstan
	Geo-inspired Fluorination of Layered Double Hydroxides: From
	Synthetic Clay-like Structures to Conversion Cathodes for All-Solid- State Lithium Batteries
13:25-13:50	Katia-GUERIN, UCA, France