Programme

Soil Gases in Environmental and Geological Processes, 6th 11. 2026.
Budapest, Hungary

8:00-8:55	Registration		
9:00-9:15	Opening Ceremony	Zoltán Szalai	
		Lectures & PICO presentations	
9:15-9:45	Keynote: Orlando Vaselli	Revealing Hidden Information by Punctual and Diffuse Soil Gas Chemistry	
9:45-9:58	István János Kovács et al.	Geological CO_2 Emissions in Intraplate Regions: What Do We Know and What Remains Uncertain?	Chair: Márta Berkesi
9:58-10:11	Kis Boglárka Mercedesz et al.	The Challenges of CO_2 Flux Measurements in Inhabited Areas	
10:11-10:24	Mona Maghsoudlou et al.	Soil CO_2 Degassing and Its Source Discrimination in the Bakony–Balaton Highland Volcanic Field, Hungary: Insights from the Eger Creek and Zádor-spring Areas	
10:24-10:27	Eszter Kriska et al.	Soil Enzyme Activity and CO_2 Dynamics at Two Geologically Contrasting Sites in the Balaton Uplands, Hungary (PICO)	
10:27-10:30	Botond Bodor et al.	From Field to Flux: Soil CO_2 Efflux Measurements at Ciomadul Volcano (PICO)	
10:30-10:33	Dániel Kovács et al.	Advanced Soil Gas Monitoring: Integrated Geodynamic Station in the Bakony-Balaton Highland (Pannonian Basin) (PICO)	
	Coffee break with PICO discussions		

		Lectures & PICO presentations	
10:55-11:08	Ágota Horel et al.	Soil CO_2 Emission and its Relationships with Soil Properties and Vegetation Indices in Grassland Ecosystems	Chair: Gergely Jakab
11:08-11:21	János Balogh et al.	Components and Drivers of Soil CO_2 Efflux in Hungarian Croplands and Grasslands	
11:21-11:34	Niluka Wickramasinghe et al.	Biochar and Plant Presence Regulate CO_2 Emissions and Microbial Resource Acquisition in Metal(loid)s Contaminated Soil	
11:34-11:47	Ilham Nahal et al.	Seasonal Variation in Microbial Carbon-source Utilization and Heterotrophic	
11:47-12:00	Agampodi Gihan Shyamal Dharmendra De Silva et al.	The Effects of Soil Isolated Different Microalgae Inoculants on Soil Carbon Dioxide Emissions in Spring Barely	
12:00-12:13	Antonnella D'Ciofalo et al.	Soil Carbon Dioxide Emissions under Stress Conditions: Maize and Tomato	
12:13-12:16	Adrienn Tóth et al.	Rainfall-induced CO_2 Responses under Various Land Uses in the Top and Subsoil (PICO)	
	Coffee break with PICO discussions		
		Lectures & PICO presentations	
12:30-12:43	Eszter Békési et al.	Exploration and Monitoring of Natural Hydrogen Seepages with Synthetic Aperture Radar Interferometry and Backscatter Analysis	Chair: Dániel Breitner
12:43-12:56	Laura Horváth et al.	Preliminary Soil Gas Results from the Gyód Serpentinite Body: a Natural Hydrogen Case Study	
12:56-12:59	Mihály Petrás et al.	Fairy Circles as Indicators of Natural Hydrogen Seepage and a Potential Example From SW Hungary (PICO)	
12:59-13:02	Ildikó Kéri-Schmidthoffer et al.	Preliminary Results on the Effects of Natural Hydrogen on Photosynthesis in Herbaceous Plants (PICO)	
13:02-13:05	Gábor Kovács et al.	Initial Results of Natural Hydrogen Seepage in Western Hungary in Thick Overlying Sedimentary Layers and Along a Distributed Fault System (PICO)	
	Lunch break with PICO discussions		

		Lectures & PICO presentations	
13:50-14:03	James Cogan	CO_2 Monitoring at CCS Project Danube Removals	Chair: Juraj Francu
14:03-14:16	Dániel Jurdi	Continuous FT-IR Monitoring of Soil Gases for Geological and Environmental Applications	
14:16-14:29	Helen Taylor et al.	Is Soil Gas the Last Line of Defence? Lessons from Three Decades of Monitoring at BGS	
14:29-14:42	Zsuzsanna Szabó-Krausz et al.	Geochemical Modeling Approaches for Soil Gas Studies	
14:42-14:55	György Falus et al.	Soil Gas Monitoring - a Key to Safe Energy Transition	
14:55-15:08	Polina Iakunina et al.	Methane Emissions from Abandoned Oil & Gas Wells: Evaluation Using UAV-based TDLAS and In Situ Measurements	
Coffee break			
		Lectures & PICO presentations	
15:25-15:38	Dániel Breitner & Bence Molnár	Successful Indoor Radon Mitigation in the Velence Mountains - a Case Study	MS section, Chair: Bence Molnár
15:38-15:51	Judith Salupeto-Dembo et al.	Radon and Thoron Emanation from Soil-Based Building Materials: Revisiting the Angola Case Study	
15:51-16:03	Susana Barbosa et al.	Radon Gas Observations for Multidisciplinary Climate Research: the NuClim Project	
16:03-16:16	Péter Rell	Radon Activity Concentration in Hungarian Soils	
16:16-16:29	Anita Erőss et al.	Radon, as a Groundwater Discharge Phenomenon	
16:30-17:00	Final Discussion and Award Ceremony	From Research to Application: The Future of Soil Gas Studies	Moderator: Anita Erőss

