

Beszámoló a Balkán Geofizikai Társulat 12. Kongresszusáról

A Balkán Geofizikai Társulat, amelynek a Magyar Geofizikusok Egyesülete is tagja, 12. Kongresszusát idén május 27-től 31-ig tartotta Szerbiában a Kopaonik Hegység sí- és természetjáró paradicsomában a „Kraljevi cardaci” hotelben.

A kongresszus, amelyen a szokásos előadásokon túl, számos meghívott előadás is elhangzott, sikerrel zárult *Snezana Komatina* professzor asszony és szerbiai kollégái

gái gondos szervező munkáját dicsérve. A kongresszus szervezését számos, geofizikában érdekelt vállalat és nemzetközi egyesület támogatta.

Az alábbiakban rövid áttekintést adunk a szakmai programról, melynek egyes előadásai az EAGE „Earth Doc” adatbázisában minden bizonnyal felelhetők lesznek.



Hotel Kraljevi Čardaci, Kopaonik Mt., Serbia

Május 27. Érkezés, regisztráció és egy közös vacsora

Május 28. A Kongresszus Megnyitója majd ezt követően három meghívott előadó:

Aldo Vesnaver: Amplitude and travelttime inversion for mono-channel Boomer surveys

Aleksandra Kolarski: Solar-Terrestrial Interactions: Solar Flares as Earth’s lower ionospheric Perturbors

Florina Chitea Tuluca: The role of geophysics and cross-sector technologies for methane abatement strategies in the Waste Sector

Délután:

Workshop: Learning how to use the EPOS Data Portal: harnessing cross-disciplinary research
Presenters: *Harald Nedrebø, Jan Michalek and George A. Donoso*

George A. Donoso (Luleå University of Technology, Sweden): Introduction to EPOS, the European Plate Observing System

Poszterbemutatók:

Ndreko Dhurata: Evaluation of the macroseismic field of moderate M4.8 of Klosi earthquake in Albania

Lule Arjol: Moderate to strong earthquakes of albania during this century and their seismogenic zones

Rumiana Bojilova: Ionospheric co-seismic effects after MW 5.9 earthquake in Greece on 29 March 2024

Dimcho Solakov: Seismological analysis of the swarm type seismicity in the Kresna seismogenic zone (Bulgaria)

Ormeni Rrapo: Seismotectonic activity of the curraj i epem-ragami transversal fault zone, Albania

Sunjay Sunjay: Carbon capture geological storage

Omoregbe Omoare: Hydrogeophysical investigation of Asaba area, Delta State, Nigeria

Technical Exhibition

Walking tour Čardaci 1

Ice-breaker reception

Május 29. *Előadások:*

Ndreko Dhurata: Some aspects of seismic activity during 2023 in Albania and surrounding area

Lule Arjol: Seismicity of Shkoder-Peje deep fault zone during this century

Ormeni Rrapo: Statistical analysis of the current seismicity in the Kurbnesh-kukesprizren zone, Albania

Marko Vanić: Lithology prediction using wave-equation based AVO seismic inversion in complex geological setting of the Pannonian Basin

Vita Kalashnikova: Method for spatial first break picking using neural network, QC, editing and smoothing

Andrei Voronin: Application of CRS technique to poor quality of seismic signal data

Laurențiu Asimopolos: Study about block size distribution curves and commercial boundaries of the marble quarries

Moataz Mohamed Gomaa Abdelrahman: Hybrid Singular Value Decomposition (SVD)-based interval inversion algorithm for robust petrophysical parameters prediction

Vita Kalashnikova: Lithology and fluid prediction using AI algorithms around the Shrek area in the Norwegian Sea

Christian Tzankov: Integrated geophysical study of the ancient city of Cabyle, Southern Bulgaria

Peter Tildy: Geophysical Investigation of Organic Contaminant Plume using ERT and IP – a case study from Hungary

Milena Marjanović (meghívott előadó): Insights into dike nucleation and eruption dynamics from high-resolution seismic imaging of magmatic system at the East Pacific Rise

Nádasi Endre Kázmér: Modeling the detectability of cavities under rebar structures in case of GPR measurements

Marjan Delipetrev: Potential for construction of a geothermal power plant in the Republic of North Macedonia

Natalia-Silvia Asimopolos: Analysis of the geomagnetic storm from March 23–24, 2024, which had a strong impact on the Earth

Magdalena Marković: Ophiolites in Serbia: An untapped energy source/storage rock

Maria Angela Capello, OSI (meghívott előadó): The strategic opportunity of sustainability in the energy sector

Koya Suto (meghívott előadó): Contribution of geophysics to disaster assessment and community development – An example from a GWB project

Boyko Ranguelov: Seismology of extra-terrestrial bodies in the Solar system

Filip Arnaut: River proximity data as a predictor for ophiolite classification: A machine learning approach with OSM data

Sherif M. Elkholy: Investigating the impact of reservoir temperature variation on the geological CO₂ storage capacity

Este: Gála vacsora

Május 30. *Előadások*:

Magdalena Marković (meghívott előadó): Postgraduate education in Earth sciences: where are we heading?

Florina Chitea Tuluca: Role of geophysics for security challenges in the world

Igbinedion Pedro Imafidon: Geophysical investigation of part of Ahmadu Bello University Farm, Nigeria

M. Salih Bayraktutan: Seismological analysis of the location of the ash landfill in KEC for the installation of solar panels

Dejan Bajić: Geothermal energy in Serbia and its potential

Dorđe Maroš: Response and criteria for CO₂ storage

Branislava Radišić: Non-renewable and renewable energy sources

Mbata Dennis-Godfrey Praise: Ownership of oil and gas in Nigeria

Marko Vanić (meghívott előadó): The adventure begins: Discovering joyful and simple ways to mastering skills for the future you want to create

Panel Discussion: *Carbon Capture Utilization Storage (CCUS)*

How to scaleup CCUS? From technology, to safety, considering economics, expanding policies, including social justice & equity

Moderator: *Mileva Radonjić*

Pierre Cerasi: Modelling of fracture healing due to creep of caprock shale in CO₂ geological sequestration

Sherilyn Williams-Stroud: Integrating induced seismicity with fault interpretation at the Decatur, IL CCS Projects

Camelia Knapp: Seismic inversion for carbon storage in onshore/offshore environments

Christine Ehlig Economides: Integrating hydrogen generation with CO storage

Yunxing Aron Lu: Advancing CCS with AI: Addressing regulatory complexities and enhancing public acceptance through Large Language Models (LLMs)

Ben Anderson: Integrated core analysis techniques for CCUS

Május 31. Poszterbemutatók:

Maya Tomova: Electrical resistivity tomography for mine planning and identifying potential hazards of underground operations

Marjan Delipetrev: High seismic activity of Republic of North Macedonia in the period 2015–2020

Atanas Kisyov: Application of the ERT method for mapping landslide bodies in tectonically disrupted rock masses

Kritikakis George: 3D electrical tomography for monitoring sea water intrusion at Samaria gorge National Park

Rumiana Boijlova: Ionospheric effects during annular solar eclipse on 14 October 2023

Kritikakis George: Application of MASW and SRT methods for nearshore antiquities imaging

Florina Chitea Tuluca: Geohazards in urban areas. Study case: Slanic town (Prahova county, Romania)

A Kongresszus bezárása



A Kongresszus résztvevői (elől középen a férfiak között *Snezana Komatina* professzor asszony)