

**9TH INTERNATIONAL CONFERENCE
MINING AND ENVIRONMENTAL PROTECTION**

MEP 23

Programme of Conference



**9. Međunarodna konferencija
RUDARSTVO I ZAŠTITA ŽIVOTNE SREDINE**

Program konferencije

Sokobanja

24-27.05.2023.

PROGRAMME
OF THE 9th INTERNATIONAL CONFERENCE ON
MINING AND ENVIRONMENTAL PROTECTION

24.05.2023. WEDNESDAY

15.00 – 20.00	Arrival and Registration of Participants
20.00	Welcome Cocktail

25.05.2023. THURSDAY

08.00-11.00	Arrival and Registration of Participants
11.00-11.30	The Opening Ceremony of the Symposium
11.30-12.00	MDPI - Open Access Journals: Minerals and Membranes

PLENARY LECTURES

12.00-12.30	EU Project - Horizon Europe -FutuRam
James Horne, Ronald Arvidsson: <i>FutuRaM - Future Availability of Secondary Raw Materials</i>	
12.30-13.00	EU Project - EIT RawMaterials - Reco2Mag
Robert Šajn, Jasminka Alijagić, Ivica Ristović: <i>Secondary deposits as potential source of REEs in the West Balkan region</i>	
13.00-13.30	Plenary lecture
Trajče Stafilov, Robert Šajn: <i>Studies on the pollution of various environmental media with potentially toxic elements in North Macedonia</i>	
13.30-14.00	Plenary lecture
Srečko Stopic, Bernd Friedrich: <i>Role of the unit operations in non-ferrous metallurgy for environmental protection</i>	
14.00-16.00	Lunch Break

25.05.2023. THURSDAY

16.00-19.00	First Working session Chairman Goran Vižintin
Gašper Tavčar, Davide Mombelli, Dragan Radulović, Ivica Ristović: <i>Preliminary physical-chemical and mineralogical characterization of furnace dust samples, the basis for the selection of samples for research within the project EIT RawMaterials Dustrec</i>	
Gorazd Žibret: <i>Vision of the mine of the future</i>	
Ognjen Adamović, Lisa Hallberg, Erik Emilsson, Ivica Ristović: <i>Life cycle assessment of fly ash landfills from lignite combustion process in thermal power plants in Serbia</i>	
Emilija Širadović: <i>Social life cycle assessment in artisanal, industrial and sustainable mining</i>	
Carlota García, Jorge Loredó, Rodrigo Álvarez, Carmen García, Fernando Alberquilla, Almudena Ordóñez: <i>Determination of the thermal conductivity of rocks by the needle thermal probe method: practical application</i>	
Vladimir Malbašić, Nenad Stojanović, Zoran Govedar: <i>Biomass production management model on surfaces degraded by mining exploitation</i>	
Željko Vukelić, Darian Božič, Jurij Šporin: <i>Modeling hydrogeological parameters and pressure for design underground coal excavation in Velenje coal mine</i>	
Nebojša Atanacković, Vladimir Živanović, Ana Vranješ, Sava Magazinović, Marinko Toljić, Ana Arifović, Branislav Potić: <i>Synergy between the mineral deposit exploration and geothermal resources assessment on the example of "Valjevo" boron and lithium deposit in Serbia</i>	
Zoran Despodov, Stojanče Mijalkovski, Bojan Despodov: <i>Some technical solutions in Macedonian mining with a high degree of environmental protection</i>	
Nikolinka Doneva, Afrodita Zendelska, Marija Hadzi-Nikolova, Dejan Mirakovski, Gorgi Dimov: <i>Tailings in-pit disposal and covering techniques - case study</i>	
Marija Živković, Boban Pavlović, Dejan Ivezić, Aleksandar Mijatović: <i>Possibilities for reduction of energy-related air pollution in Serbia - exploring energy scenarios</i>	
Milanka Negovanović, Lazar Kričak, Stefan Milanović, Jovan Marković, Nikola Simić, Snežana Ignjatović: <i>Split-desktop software for the analysis of fragment size distribution of blasted rock mass</i>	
19.00	Poster Section

26.05.2023. FRIDAY

09.00-13.00	Second Working session Chairman Zoran Despodov
Jana Fabianová, Gabriel Fedorko, Marek Ondov, Vierošlav Molnár, Peter Michalik, Nikoleta Mikušová, Gabriel Tóth: <i>Optimization of material flow: a case study of a cement plant</i>	
Marek Ondov, Andrea Rosová, Gabriel Fedorko, Jana Fabianová, Vierošlav Molnár, Peter Michalik: <i>Basic modules for modeling mining transport systems</i>	
Aleš Lazar, Goran Vižintin: <i>Detection of moisture in underground objects by using laser scanning</i>	
Andrej Biro, Eva Koren, Goran Vižintin: <i>Modeling the influence of surface waters on the head of Prekmursko polje groundwater body</i>	
Darian Božič, Ivan Supovec: <i>Water drainage of multi-layer aquifer at coal-mine Velenje</i>	
Dejan Bogdanović: <i>Multi criteria analysis of the advantages of applying multi project management in underground mines</i>	
Branko Stević, Jovan Tošić, Nina Milojević: <i>Development plan for expanding the ash and slag landfill at PK Čirikovac at the completion of phase I and II</i>	
Snežana Aleksandrović, Vesna Damjanović, Ilija Jeftenić: <i>Estimation of the remaining life-time of power transformers depending on the type of loading</i>	
Stevan Đenadić, Aleksandar Mirković, Jovana Mitrović, Filip Miletić, Predrag Jovančić, Dragan Ignjatović: <i>Analysis of the exhaust emissions inventory from auxiliary mining machines</i>	
Aleksandar Madžarević, Predrag Jovančić, Stevan Đenadić, Filip Miletić, Miodrag Ristović, Miroslav Crnogorac: <i>Projection of SO₂ emissions in coal power plants in Serbia</i>	
Dragan Radulović, Ivana Jovanović, Dejan Todorović, Vladimir Jovanović, Branislav Ivošević, Vesna Conić: <i>Testing of grinding media performances at the conditions of Pb-Zn smelting slag wet milling and prediction of balls consumption by ann-based models</i>	
Bogoljub Vučković, Bojan Dimitrijević: <i>Heavy metals in lignite and soil of Kostolac-Kovin coal basin, Eastern Serbia - comparative analysis with selected cities in Serbia, region, europe and world</i>	
Ognjen Popović, Vladimir Milisavljević, Ružica Vukosavljević, Marko Živković: <i>Thermal behavior of Li-ION 18650 cells during discharging AT 0.25 – 1C rates</i>	

Suzana Lutovac, Miloš Gligorić, Jelena Majstorović, Luka Crnogorac: *Analysis of a simplified model for determining rock mass oscillation velocity at the Kovilovača open pit*

Snezana Savković, Jelena Majstorović: *Theory of decision-making between subjectivity and objectivity in conditions of uncertainty (in mining)*

Slobodan Kokerić, Dejan Dramlić, Nemanja Stanisavljević, Zoran Aksentijević, Dražana Tošić, Jelena Trivan: *Coal mining system in the conditions of the "Soko" Sokobanja black lignite deposit*

Đorđe Fići, Miljana Milković, Daniel Radivojević, Zoran Aksentijević, Slobodan Kokerić: *Hydrogeological opportunities in the conditions of the coal deposit of mine "Soko" in Sokobanja*

13.00-15.00	Lunch Break
15.00-19.00	Third Working session - Chairman Vierošlav Molnár

Aleksandra Tomić: *Impact of mining waste on the environment in the Republic of Serbia*

Radule Tošović: *The relationship between environmental costs and direct economic effects of valorization of mineral raw materials from ore deposits*

Natalija Pavlović, Ivan Janković, Tomislav Subaranović: *Conceptual solution of recultivation for the next 12 years at the dacite open pit mine Ceramide dump near Rudnik*

Sanja Bajić, Dragoljub Bajić, Branko Gluščević, Radmila Gaćina: *Application of Vikor method in the selection of an optimal solution of excavation "Borska Reka" ore deposit*

Radmila Gaćina, Bojan Dimitrijević, Sanja Bajić: *Conversion of land areas after coal mine closure and reclamation*

Nevena Stojković, Milutin Đorđević: *Calculation of discontinuous transport for transport of mineral raw materials in mine "Grot"*

Veljko Savić, Vladimir Topalović, Jelena Nikolić, Srdjan Matijašević, Marija Djošić, Snežana Zildžović, Snežana Grujić: *Recycling of glass waste into foam glass: a review*

Milica Tomović, Irma Dervišević, Dragan Manojlović, Jelena Đokić, Marija Janačković: *The effect of an abandoned asbestos mine on environmental pollution*

Miroslav Čantrak, Vasilije Gašić: *Construction waste management in the Republic of Serbia*

Irina Kandić, Milan Kragović, Jelena Gulicovski, Katarina Nikolić, Neda Nišić, Vesna Karadžić, Marija Stojmenović: *Removal of potentially toxic cyanobacteria by using activated carbons obtained from biowaste*

Irina Kandić, Milan Kragović, Jelena Petrović, Peđa Janačković, Milan Gavrilović, Miloš Momčilović, Marija Stojmenović: *Assessment of the risk of consumption of toxic metals through herbal infusions*

Zorica Lopičić, Domenico Morabito, Tatjana Šošarić, Jelena Milojković, Anja Antanasković, Yassine Chafik, Sylvain Bourgerie: *The application of biochar onto soils-benefit for overall environment*

Katarina Nikolić, Andrijana Vasić, Milan Kragović, Milena Rosić, Ivona Janković-Častvan, Marija Stojmenović, Jelena Gulicovski: *Analysis of chemical and structural features of waste vitreous enamel produced during the heating device manufacturing process*

Katarina Nikolić, Milan Kragović, Marija Stojmenović, Andrijana Vasić, Irina Kandić, Neda Nišić, Jelena Gulicovski: *Activated carbon from almond pits as low-cost material for electrochemical application*

Neda Nišić, Milan Kragović, Jelena Gulicovski, Katarina Nikolić, Andrijana Vasić, Milan Žunić, Marija Stojmenović: *Characterization of innovative high-temperature resistant adhesives with addition of aluminosilicate waste*

Neda Nišić, Milan Kragović, Milan Žunić, Jelena Gulicovski, Andrijana Vasić, Irina Kandić, Marija Stojmenović: *Application of a new system of solid ionic conductors based on multi-doped ceria as electrolytes for it-sofc technology- test in a single cell*

Andrijana Vasić, Marija Stojmenović, Katarina Nikolić, Irina Kandić, Jelena Gulicovski, Miodrag Ristović, Milan Kragović: *Removal of xanthate from aqueous solutions using modified waste slag as adsorbent*

Andrijana Vasić, Marija Stojmenović, Katarina Nikolić, Neda Nišić, Jelena Gulicovski, Radmila Lišanin, Milan Kragović: *Xanthate removal as a function of pH and the point of zero charge*

Bojana Janežič, Goran Vižintin: *Review of geothermal potential of low enthalpy resources of pre-neogene aquifers in the Mura - Zala basin through hydrogeological conceptual model*

Nataša Elezović, Krstimir Pantić: *Possibilities of introducing environmental management systems (EMS) in SMEs enterprises*

19.00	Closing Session
20.00	Official Dinner

27.05.2023. SATURDAY

10.00-13.00	Excursions
13.00-15.00	Lunch
15.00	Departure of participants