

MINING AND METALLURGY INSTITUTE BOR



TECHNICAL FACULTY IN BOR, UNIVERSITY OF BELGRADE

55th INTERNATIONAL OCTOBER CONFERENCE on Mining and Metallurgy



FINAL PROGRAM



15 – 17 October 2024 Hotel "Đerdap" Kladovo, Serbia

Financially supported by:

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55th International October Conference on Mining and Metallurgy

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55th International October Conference on Mining and Metallurgy

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WELCOMING ADDRESS

The 55th International October Conference on Mining and Metallurgy, organized annually, aims at providing a forum for presentation and discussion the scientific research, technological development and practice on the subjects of geology, mining, metallurgy, materials science, technology, environmental protection, energy efficiency, mechanical, civil and related engineering topics.

The Conference is organized jointly by the Mining and Metallurgy Institute Bor and the Technical Faculty in Bor, the University of Belgrade. Firstly, it was a national conference, then a conference with the international participation and, since 2002, it has been organized as an international conference.

The Conference work will be organized in sessions, including the plenary lectures, session lectures, oral and poster presentations.

The Conference will provide a good opportunity for meeting the old friends, making the new contacts and exchanging the useful information as well.

TIME AND VENUE

55th IOC will be held from 15 to 17 October 2024 at Hotel "Derdap", Bor, Serbia, about 250 km south-east of Belgrade.

The Conference office will be opened on: 15 October.

LANGUAGE

The Conference language will be English.

PRESENTATIONS

Plenary Lecture - 20 min

Oral presentation - 10 min

Poster presentation on space max of 70 cm x 100 cm

Electronic form of presentation will be possible only in MS Power Point due to its widespread use. For oral presentation, personal computer and LCD Projector will be at author's disposal.

PUBLISHING

The Conference Proceedings will be published only the papers accepted by the Scientific Committee.

The authors can prepare their papers in extended form and submit them as full-length research papers in:

- Journal Mining and Metallurgy Engineering Bor (https://irmbor.co.rs/izdavastvo//)
- Bakar / Copper (https://irmbor.co.rs/izdavastvo//)
- Journal of Mining and Metallurgy, Section A: Mining (<u>www.jmma.tfbor.bg.ac.rs</u>) and Section B: Metallurgy (<u>www.jmmab.com</u>),
- Recycling and Sustainable Development (<u>http://www.rsd.tfbor.bg.ac.rs/)</u>

after reviewing and appropriate revisions.

CONFERENCE FEE

The Conference fee is \notin 150 or 18000 RSD, VAT included. It includes admission to the Conference sessions, Conference Proceedings and the accompanying materials, conference dinner, and refreshments during the Conference.

The Conference fee for the accompanying person is € 120 or 15000 RSD, VAT included. It includes all items specified for the participants except the Conference Proceedings and accompanying materials.

The Conference fee for publishing the accepted papers is € 70 or 9000 RSD, VAT included.

a) Domestic participants in RSD:

Institut za rudarstvo i metalurgiju Bor Br. računa: 160-42434-38 Naznaka: 55IOC

b) Foreign participants:

Instruction for customer transfer in EUR:

- 56: Intermediary: BCITITMM INTESA SANPAOLO SPA MILANO, ITALY
- 57: Account with institution:

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59: Beneficiary:

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The participants, who do not pay the Conference fee in advance, may pay it during the registration at the Conference desk.

HOTEL ACCOMMODATION

Accommodation will be provided for the participants at Hotel "Derdap" Kladovo. For all hotel information and reservations, please use:

- Website https://www.hoteldjerdap.com/
- E-mail: agencija@djerdapturist.co.rs, recepcija@djerdapturist.co.rs
- Phone: +381 (0) 19 80 10 10, +381 (0) 19 80 82 34
- Fax: +381 (0) 19 80 14 75

Payment of the hotel bill can be made upon arrival at the reception desk or in advance.

WEATHER CONDITIONS

Weather conditions are very changeable in October and temperature could vary from 10° to 25°C, so you should take some clothes for warn and cold weather.

PERSONAL INSURANCE

The organizers cannot be held responsible for any accidents involving the Conference participants or the accompanying persons, for damage, or loss of their personal property or for cancellation expenses, regardless of cause. Participants should, therefore, make their own insurance arrangements and are advised to consult their local insurance agents regarding coverage.

CORRESPONDENCE

Correspondence related to the Conference should be addressed to the President of the Organizing Committee,

Dr Ana Kostov:

E-mail: ioc@irmbor.co.rs Phone: +381 (0) 30 454 108 Web site: https://ioc.irmbor.co.rs/

TIME TABLE OF THE CONFERENCE

	Hall/Session	Tuesday 15 October	Wednesday 16 October	Thursday 17 October
Conference Office	Hotel Lobby	16:00 - 18:00	08.00 - 18.00	08.00-10.00
Dinner		18.00 - 20.00		
Breakfast			07.00 - 10.00	
Opening Ceremony	Conference room		10:00 - 10:30	
Presentation of the Institute	Conference room		10:30 - 10:45	
Plenary Lectures 1	Conference room		10:45 - 11:15	
Welcome Cocktail	Hotel terrace with a view of the Danube		11:15 - 12:00	
Plenary Lectures 2	Conference room		12:00 - 12:20	
Plenary Lectures 3	Conference room		12:20 - 12:40	
Plenary Lectures 4	Conference room		12:40 - 13:00	
Lunch			13:00 - 15:00	
Plenary Lectures 5	Conference room		15:00 - 15:20	
Oral Session	Conference room		15:20 - 16:30	
Coffee Break	Hotel Lobby		16:30 - 17:00	
Poster Session	Conference room		16:30 - 18:00	
Conference Diner	Restaurant		20:00	
Breakfast				07:00 - 09:00
Oral / Poster Session	Conference room			09:00 - 10:00
Danube cruise				10:00 - 13:00
Closing of the Conference				13:00

Plenary Lectures - limited to 20 min, Oral presentations - limited to 10 min.

SCIENTIFIC PROGRAM

PLENARY LECTURES

Wednesday, 16 October 2024, 10:45 - 11:15 Chairperson: Igor Svrkota

Daniel Villa

PARAMETRIC MINE DESIGN APPLIED TO BLOCK CAVING & OPTIMIZATION FOR OPEN PIT TO BLOCK CAVE TRANSITION

PLENARY LECTURES

Wednesday, 16 October 2024, 12:00 - 13:00

Chairperson: Dragan Milanović, Dragana Božić

Carlos Frias HYDROMETALLURGY FOR THE MINE-TO-METAL PRODUCTION

Yousef Ghorbani

FORGING A SUSTAINABLE PATH: SHAPING THE FUTURE SUPPLY OF ENERGY MATERIALS/METALS FOR THE GREEN ENERGY TRANSITION

Diana-Larisa Roman, Bianca-Vanesa Boros, Mariana Adina Matica, Constantina-Bianca Vulpe, Adriana Isvoran EFFECTS OF TRIAZOLE FUNGICIDES ON THE SOIL HEALTH TOWARDS A SUSTAINABLE AGRICULTURE

Vesna Conić, Dragan Milanović, Ivana Jovanović VALORIZATION OF USEFUL COMPONENTS FROM THE SEDEX TYPE ORE THROUGH THE HORIZON 2020 "INTMET" PROJECT

SECTION LECTURES

Wednesday, 16 October 2024, 15:20 - 16:30

Chairperson: Ana Kostov, Vesna Marjanović

Zita Takacova, Tomáš Vindt, Jakub Klimko, Andrea Miskufova, Dušan Oráč INDUSTRIAL PROCESSING OF SPENT PORTABLE LITHIUM BATTERIES – A BRIEF OVERVIEW

Aleksandar Ćitić, Tamara Radetić, Miljana Popović THE EFFECT OF HOMOGENIZATION AND ANNEALING ON IGC SUSCEPTIBILITY OF HOT-ROLLED AA5182 ALUMINUM ALLOY

Stefano Utili, Andrea Agosti, Nelson Morales, Cristobal Valderrama, Robert Pell, G. Albornoz OPTIMAL PITWALL SHAPES TO INCREASE THE FINANCIAL RETURN AND DECREASE THE CARBON FOOTPRINT OF THE OPEN PIT MINES

Aleksandar Jankovic, Walter Valery, Cameron Gargaro, Kristy Duffy, Thi Nguyen MODIFIED BOND AND RITTINGER ENERGY-SIZE MODELS FOR THE LABORATORY ISAMILL

POSTER SESSION

Wednesday, 16 October 2024, 16:30 - 18:00

Thursday, 17 October 2024, 09:00 – 10:00

Chairpersons: Aleksandra Milosavljević, Marijana Pavlov-Kagadejev

Radmilo Rajković, Daniel Kržanović, Miomir Mikić, Milenko Jovanović, Emina Požega FORMATION OF A REACTIVE MATERIAL DUMP FROM THE "ČUKARU PEKI" MINE NEAR BOR

Daniel Kržanović, Milenko Jovanović, Radmilo Rajković, Nikola Stanić, Miljan Gomilanović ANALYSIS OF THE IMPACT OF LANDSLIDE REHABILITATION IN THE EASTERN PART OF THE OPEN PIT JUŽNI REVIR ON THE ECONOMY OF THE MAJDANPEK COPPER MINE

Daniel Kržanović, Nikola Stanić, Miljan Gomilanović, Aleksandar Doderović, Saša Stepanović EVALUATION OF EXPLOITABLE LEAD AND ZINC ORE RESERVES AT THE RIBNIK DEPOSIT, REPUBLIC OF MONTENEGRO

Miomir Mikić, Sandra Milutinović, Radmilo Rajković, Milenko Jovanović IMPACT ON THE ENVIRONMENT AND RECLAMATION OF THE LANDFILL SARAKA, VELIKI KRIVELJ

Radmilo Rajković, Miljan Gomilanović, Daniel Kržanović, Saša Stepanović, Miomir Mikić, Milenko Jovanović PROTECTION AGAINST FLYING PIECES DURING BLASTING AT THE OPEN PIT SEVERNI REVIR OF THE MAJDANPEK COPPER MINE

Slavica Mihajlović, Nataša Đorđević, Vladan Kašić, Srđan Matijašević STRUCTURAL STABILITY OF CALCITE MINERAL AFTER SURFACE MODIFICATION

Jelena Ivaz, Milan Stajić, Dragan Zlatanović, Dejan Petrović, Mladen Radovanović, Milivoje Zlatić STUDY OF APPLICATION THE ANOVA TEST FOR INDICATORS OF SAFETY AND HEALTH AT WORK IN THE MINING INDUSTRY

Ivan Jovanović, Dušan Tašić, Novica Staletović RISKS AND PROTECTIVE MEASURES FOR MINING OPERATION WITH A BALL MILL

Milenko Jovanović, Daniel Kržanović, Radmilo Rajković, Miomir Mikić, Miroslava Maksimović APPLICATION OF GEOMATERIALS FOR SECURING AND PROTECTING THE LANDFILLS

Aleksandra Ilić, Jovica Sokolović, Vladimir Nikolić A SHORT REVIEW OF APPLICATION THE UAV REMOTE SENSING TECHNOLOGY IN THE SURFACE COAL MINE RECLAMATION

Stefan Milanović, Nikola Simić, Lazar Kričak, Milanka Negovanović, Nikola Đokić, Miljan Gomilanović FRAGMENTATION SIZE PREDICTION OF BLASTED MATERIAL USING A SPECIALIZED SOFTWARE FOR DRILLING AND BLASTING

Dušan Tašić, Dragan Ignjatović, Vanja Đurđevac, Dragana Savić GEOPHYSICAL TESTS OF THE SMELTER SLAG DEPOSITS AT THE CONSTRUCTION SITE OF FACILITIES IN BOR

Miljan Gomilanović, Stefan Milanović, Nikola Stanić , Miloš Živanović, Saša Stepanović, Aleksandar Doderović, Tanja Stanković PROTECTIVE CHANNELS TO PREVENT A POTENTIAL ROCKFALL DURING BLASTING

Saša Stepanović, Nikola Stanić, Aleksandar Doderović, Miljan Gomilanović, Jelena Stefanović, Ivan Jelić TECHNICAL SOLUTION FOR SLOPE STABILIZATION IN THE ZONE OF THE DURUTOVIĆI CEMETERY AND THE NEW ĆEHOTINA RIVER BED Vladan Marinković, Miroslava Maksimović, Željana Novaković, Milutin Strahinjić, Milenko Jovanović INTERPRETATION AND CREATION OF THE BLOCK MODEL OF THE Zn, Pb DEPOSIT RIBNIK-ŠUPLJA STIJENA

Snežana Ignjatović, Ivana Vasiljević, Branislav Sretković DETECTING THE BOUNDARIES OF GRAVITY ANOMALY SOURCES USING THE VERTICAL AND TILT DERIVATIVE

Ivana Jelić, Jovica Stojanović, Aleksandar Pačevski, Nikola Vuković, Alena Zdravković, Ana Radosavljević-Mihajlović, Vladan Kašić OXIDATION PRODUCTS OF ARSENOPYRITE AND OTHER SULFIDES FROM THE ORE DEPOSIT SASTAVCI, SERBIA

Aleksandar Doderović, Miljan Gomilanović, Saša Stepanović, Nikola Stanić, Daniel Kržanović, Petar Marković, Tanja Stanković CONSTRUCTING DEWATERING FACILITIES TO STABILISE THE SLOPE OF AN UNSTABLE OPENCAST MINE

Stefan Trujić, Milenko Jovanović, Daniel Kržanović, Radmilo Rajković, Vladan Marinković, Emina Požega ENVIRONMENTAL BENEFITS OF APPLYING THE NATURAL MATERIALS IN GEOGRIDS

Dragan Zlatanović, Jelena Ivaz, Dejan Petrović, Mladen Radovanović, Milan Stajić SERBIAN MINING AT THE CROSSROADS: SOCIAL ACCEPTANCE OF MINING PROJECTS

Ivica Vojinović, Miloš Stojanović, Dragan Šabaz IIOT IN MINING - POTENTIAL APPLICATION OF "LOW-COST" SENSORS AND THE ARDUINO PLATFORM

Ivana Jovanović, Dragan Milanović, Vesna Conić, Tanja Stanković, Miloš Janošević THE ROLE OF BANANA SCREEN IN DMS PROCESS – CASE STUDY

Oliver Dimitrijević, Ivana Jovanović, Dragan Milanović, Vesna Conić, Daniela Urošević THE ROLE OF DEWATERING SCREEN FOR FINE FRACTIONS SIEVING IN DMS PROCESS – A CASE STUDY

Sanja Petrović, Srđana Magdalinović, Ljubiša Obradović, Sandra Milutinović, Nenad Magdalinović, Emina Požega, Slađana Krstić CERAMIC FILTRATION IN THE IN MINERAL PROCESSING OPERATIONS

Katarina Milivojević, Dušan Tašić, Tanja Stanković DETERMINATION OF THE SHEAR STRENGTH PARAMETERS OF CLAY FOR THE HIGH-SPEED TRAFFIC LINE NOVI SAD-RUMA

Nikola Stanić, Miljan Gomilanović, Saša Stepanović, Ivan Jelić, Daniel Krzanović, Dejan Bugarin CONSTRUCTION OF THE CEHOTINA RIVER BYPASS AND RELIEF IN THE WESTERN AND SOUTHWESTERN PARTS OF THE POTRLICA OPEN PIT WITH THE FUNCTION OF LANDSLIDE REHABILITATION AND CREATION SAFE COAL EXPLOITATION CONDITIONS IN 2024

Lazar Žujović, Aleksandar Cvjetić, Miljan Gomilanović, Nikola Stanić, Aleksandar Doderović, Dejan Bugarin IMPROVING MINERS' SAFETY TRAINING BY UTILIZING 360 DEGREES CONTENT

Mladen Radovanović, Ivana Radovanović, Dragan Zlatanović, Milivoje Zlatić, Dejan Petrović, Jelena Ivaz POSSIBILITY OF STOCHASTIC METHODS APPLICATION ON ORE DRAWING FOR BLOCK CAVING MINING METHOD

Vanja Đurđevac, Snezana Ignjatović, Dragan Ignjatović TERM AND TYPES OF SOIL STABILIZATION Dragan Ignjatović, Snežana Ignjatović, Vanja Đurđevac, Lidija Đurđevac Ignjatović, Dušan Tašić SUBSOIL STABILIZATION WITH LIME

Dragan Šabaz, Miloš Stojanović, Ivica Vojinović TECHNOLOGIES FOR THE DEVELOPMENT OF SLOT RAISE DURING THE FORMATION FREE SURFACE

Ljubiša Obradović, Sandra Milutinović, Srđana Magdalinović, Sanja Petrović DETERMINATION A DIAMETER OF THE SEDIMENTAL LAKE OF THE NEW FIELD OF THE LEAD AND ZINC FLOTATION TAILING DUMP IN LEPOSAVIĆ

Nenad Vušović, Milica Vlahović

GIS-BASED STOCHASTIC METHOD FOR PREDICTING MINE SUBSIDENCE

Zoran Karastojković, Ana Kostov, Radiša Perić REASONS FOR BRAZING WITH COPPER FILLER METAL ALLOYED WITH THE COPPER (I) AND IRON (III) OXIDES

Emina Požega, Dragana Božić, Vera Požega, Vesna Marjanović, Danijela Simonović, Tomica Mančić, Dragan Sokolov CHECKING THE LABORATORY OVERALL WORK

Uroš Stamenković, Ivana Marković, Vladan Ćosović, Boštjan Markoli IMPACT OF AGING PARAMETERS ON DIFFERENT PROPERTIES OF THE EN AW-6082 ALUMINUM ALLOY

Nebojša Tadić, Mitar Mišović, Žarko Radović ANALYSIS OF STRUCTURAL AND MECHANICAL CHARACTERISTICS OF

ANALYSIS OF STRUCTURAL AND MECHANICAL CHARACTERISTICS OF HE EN AW-4043 ALLOY INGOTS

Ana Radosavljević-Mihajlović, Srđan Matijašević, Jelena Nikolić METHOD OF A HIGH TEMPERATURE THERMAL INDUCED PHASE TRANSFORMATION OF ZEOLITE IN THE PROCESS OF OBTAINING THE DIFFERENT MATERIALS OF FELDSPAR TOPOLOGY

Vladan Kašić, Ana Radosavljević Mihajlović, Jovica Stojanović, Slavica Mihajlović, Melina Vukadinović, Nataša Đorđević, Ivana Jelić PROCEDURES FOR OBTAINING THE PRODUCTS BASED ON ZEOLITE MINERALS

Biljana Zlatičanin, Branislav Radonjić

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