



University of Belgrade,
Technical Faculty in Bor



Chamber of Commerce
and Industry of Serbia

XVI International Mineral Processing & Recycling Conference



Final program



28-30 May 2025
Belgrade, Serbia





28-30 May 2025, Belgrade, Serbia

GENERAL SPONSOR



*Conference is financially supported by the Ministry of
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WELCOMING ADDRESS

On behalf of the Organizing Committee, it is our great pleasure to welcome you to the XVI International Mineral Processing and Recycling Conference (IMPRC 2025).

The conference will be held from May 28-30, 2025 in Belgrade, Serbia. During these three conference days, we will dedicate a special focus to the issues and solutions related to mineral processing, recycling, environmental protection, and related aspects. We wish all conference participants a very pleasant and interesting time in Belgrade.

President of the Organizing Committee

Prof. Dr Zoran Štirbanović

GENERAL INFORMATION

Language:

The official languages of the Conference will be **English**.

Conference venue:

The Conference will be held at the Chamber of Commerce and Industry of Serbia, **13-15 Resavska Street**, Belgrade.

Conference program:

The Conference program includes keynote plenary, invited and session lectures, oral sessions, Metals Young Researcher Award session, poster sessions and sponsor presentations as follows:

- **Plenary lectures (30 min)**
- **Invited and session lectures (15 min)**
- **Oral and online sessions (10 min)**
- **Poster session (poster size 60 x 80 cm).**

Hybrid session:

All participants who wish to attend the Hybrid session can do so by using the following link:

<https://zoom.us/meeting/register/aj8Ray7fSXGOHUwp7v7wWA>.

Conference exhibition:

An exhibition will be held during the Conference, providing a good opportunity for companies working in the fields related to the Conference topics to showcase their products and services to a wider audience.

Conference registration fee:

The Conference fee is **300 EUR**. This includes participation in the Conference sessions, the Conference Proceedings and accompanying materials, the Gala Dinner, a Cocktail, two lunches and refreshments during the Conference.



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The Conference fee for the accompanying person is **250 EUR**. This includes all the items specified for participants with the exception of the Conference Proceedings and materials.

Gala Dinner:

The Gala Dinner will be organized on May 28 in one of the oldest and most beautiful hotels in Belgrade, **Hotel Moskva** (<https://hotelmoskva.rs/>), located in the heart of the old city, on Terazije Square, at the address **1 Balkanska Street**.

Cocktail:

After the closing ceremony of the Conference on May 29, we invite you to a Cocktail which will take place at **Le Teniza** (<https://leteniza.com/engleski/engindex.html>), a restaurant with a pleasant ambience at **23 Resavska Street**.

Visit to HBIS Serbia, Smederevo:

As part of the conference, a visit to the company HBIS Serbia in Smederevo will be organized on May 30. All interested conference participants must register via the following link: <https://imprc.tfbor.bg.ac.rs/excursion/> by **May 20** at the latest if they wish to participate in this visit.

PUBLISHING

Selected papers presented at the Conference can be submitted in an extended form in:

JOURNAL OF MINING AND METALLURGY, SECTION A: MINING

(<http://www.jmma.tfbor.bg.ac.rs>)

JOURNAL "RECYCLING AND SUSTAINABLE DEVELOPMENT"

(<http://www.rsd.tfbor.bg.ac.rs>)

SPECIAL ISSUE OF MINERALS: "Mineral Processing and Recycling Technologies for Sustainable Future"

(https://www.mdpi.com/journal/minerals/special_issues/AYGH2WR225)

SPECIAL ISSUE OF METALS: "Innovative Solutions for the Recovery of Metals from Primary and Secondary Raw Materials"

(https://www.mdpi.com/journal/metals/special_issues/IM4659CKQP)

INFORMATION

President of the Organizing Committee

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CONFERENCE SCHEDULE

Wednesday, 28 ^h May 2025	
09:00 – 18:00	Registration of participants (Conference desk)
10:00 – 10:30	Opening ceremony / Welcoming remarks (Hall 1)
10:30 – 11:30	Plenary Lectures I (Hall 1)
11:30 – 12:00	Coffee Break
12:00 – 13:00	Plenary Lectures II (Hall 1)
13:00 – 13:30	Presentation of Sponsors (Hall 1)
13:30 – 14:30	Lunch
14:30 – 16:30	Invited lectures (Hall 1)
16:30 – 17:00	Coffee break
17:00 – 19:00	Session I (Hall 1) / Session II (Hall 2)
20:00 – 24:00	Gala Dinner (Hotel Moskva)
Thursday, 29 th May 2025	
09:00 – 18:00	Registration of participants (Conference desk)
09:00 – 11:00	Session III (Hall 1)
11:00 – 11:30	Coffee break
11:30 – 12:10	Poster Session I (Hall 1)
12:20 – 13:00	Poster Session II (Hall 1)
13:00 – 14:00	Lunch
14:00 – 16:00	Session IV (Hall 1) / Session V – Hybrid session (Chamber's Club Hall)
16:00 – 16:30	Coffee break
16:30 – 18:00	Session VI – Metals Young Researcher Award Session (Hall 1)
18:00 – 19:00	Closing of the Conference (Hall 1) / Cocktail (Le Teniza Restaurant)
Friday, 30 th May 2025	
10:00 – 19:00	Visit to HBIS Serbia, Smederevo



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CONFERENCE PROGRAM

WEDNESDAY, 28th May 2025

10:00 – 10:30 Conference opening (Hall 1)

Moderator: Sandra Vasković (Serbia)

Welcoming remarks

Prof. dr Dejan Tanikić, Dean of Technical Faculty in Bor

Prof. dr Milan Trumić, President of the Scientific Committee

Prof. dr Zoran Štirbanović, President of the Organizing Committee

Representatives of relevant Ministries

10:30 – 11:30 Plenary lectures I (Hall 1)

Moderators: Dejan Tanikić, Milan Trumić, Zoran Štirbanović (Serbia)

PL-1. Corby G. Anderson, USA

HOW THE RARE EARTHS BECAME LANTHANIDES

PL-2. Pablo Brito-Parada, United Kingdom

A MINERAL'S JOURNEY – UNRAVELLING FLOTATION PHENOMENA THROUGH PARTICLE TRACKING

11:30 – 12:00 Coffee break

12:00 – 13:00 Plenary lectures II (Hall 1)

Moderators: Jovica Sokolović, Grozdanka Bogdanović (Serbia)

PL-3. Junbeum Kim, France

EMERGING TECHNOLOGIES AND EMERGING WASTES: CHALLENGES AND OPPORTUNITIES

PL-4. Srećko Stopić, Duško Kostić, Mitar Perušić, Richard Schneider, Bernd Friedrich, Germany, Bosnia and Herzegovina

RECOVERY OF VALUABLE METALS FROM BAUXITE RESIDUES USING DECARBONATED TECHNOLOGIES

13:00 – 13:30 Presentation of sponsors (Hall 1)

Moderators: Jovica Sokolović, Grozdanka Bogdanović (Serbia)

13:30 – 14:30 Lunch

14:30 – 16:30 Invited lectures (Hall 1)

Moderators: Alexandre Chagnes (France), Kerstin Forsberg (Sweden)

IL-1. Alexandre Chagnes, Pierrick Hubert, Safi Jradi, France

INNOVATIVE STRATEGIES FOR METAL RECOVERY FROM LFP-NMC LITHIUM-ION BATTERY BLENDS

IL-2. Przemysław Kowalczyk, Norway

CRITICAL RAW MATERIALS (CRM) RECOVERY FROM NORWEGIAN DEPOSITS: CHALLENGES AND OPPORTUNITIES



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IL-3. Kerstin Forsberg, Sweden

CRYSTALLIZATION CHALLENGES AND OPPORTUNITIES IN HYDROMETALLURGY

IL-4. Predrag Umičević, Ivica Karoglan, Gregor Radišić, Viktor Simončič, Croatia, Serbia

INNOVATIVE BIODEGRADABLE WASTE TREATMENT AS A POSSIBLE SOLUTION FOR RECULTIVATION OF TAILINGS AND ASH AND SLAG LANDFILLS

IL-5. Maria Sinche-Gonzalez, Finland

EDUCATION IN MINERAL PROCESSING AND FILLING THE GAP OF TALENTED MINERAL PROCESSING ENGINEERS

IL-6. Aleksandar Nikoloski, Pritam Singh, Tina Chanda Phiri, Australia

AN OVERVIEW OF GLOBAL COPPER SMELTING SLAG PRODUCTION AND REPROCESSING APPROACHES

IL-7. Belinda McFadzean, Avuyile Wali, Megan Becker, Stefan Geldenhuys, South Africa

CRITICAL MINERALS: CHALLENGES AND OPPORTUNITIES IN PLATINUM GROUP MINERAL FLOTATION

16:30 – 17:00 Coffee break

17:00 – 19:00 Session I (Hall 1)

Moderators: Firat Burat (Turkey), Carmen M. Neculita (Canada)

SL-1. Héctor Muñiz Sierra, Michal Šyc, Ayse Asya Arslanturk, Czech Republic, Turkey

THE APPLICATION OF PHYSICAL CONCENTRATION TECHNOLOGIES IN THE RECYCLING OF NEW WASTE STREAMS

I-1. Iyiola Olatunji Otunniyi, Oluwayimika Olasunkanmi Oluokun, South Africa

CLEAN GOLD SOLUTION FROM PRINTED CIRCUIT BOARD PHYSICAL PROCESSING DUST BY SELECTIVE COMPLEXATION

I-2. Fulya Mennik, Nazlım İlkyaz Dinç, Beril Tanç Kaya, Firat Burat, Turkey

THE RECYCLING OF PLASTICS AND METALS FROM END-OF-LIFE NMC-TYPE ELECTRIC VEHICLE LITHIUM-ION BATTERIES USING SELECTIVE FROTH FLOTATION

I-3. Vandana Kumari Jha, Christophe Duwig, Samaneh Teimouri, Kerstin Forsberg, Sweden

METAL RECOVERY FROM SPENT BATTERIES THROUGH ANTISOLVENT CRYSTALLIZATION IN A T-MIXER USING A COUPLED CFD-PBE APPROACH

I-4. Carmen M. Neculita, Flavia L. Braghiroli, Canada

VALORIZATION OF RESIDUAL MATERIALS IN THE PREVENTION AND TREATMENT OF CONTAMINATED MINE WATER AND AIR

I-5. Fatma Arslan, Gülay Bulut, Turkey

EVALUATION OF MINERAL PROCESSING AND METALLURGICAL PLANTS WASTES

I-6. Abhishek Gupta, Tom Newman, Frank Hrach, USA

BENEFICIATION OF MINERAL ORES USING TRIBO-ELECTROSTATIC SEPARATOR

I-7. Stefan Đorđević, Dragana Adamović, Miloš Đukić, Ana Petrović, Jelena Petrović, Zoran Štirbanović, Serbia

IMPROVEMENT OF BOR RIVER WATER QUALITY THROUGH TREATMENT AND RECIRCULATION OF MINING AND METALLURGICAL WASTEWATER

I-8. Aleksander Sokolov, Edvins Letko, Vitalijs Kuzmovs, Ulises Miranda Ordonez, Latvia

ON-LINE XRF ANALYSIS OF ELEMENTS IN MINERALS ON A CONVEYOR BELT



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I-9. Jelena Vučićević, Serbia

APPLICATION OF SPECIAL CHEMICAL FOR COAL MOISTURE REMOVAL AND IMPROVEMENT OF ENERGY EFFICIENCY IN ELECTRICITY PRODUCTION

17:00 – 19:00 Session II (Hall 2)

Moderators: Maria Sinche-Gonzalez (Finland), Julio Valenzuela Elgueta (Chile)

II-1. Moloud Nazeri, Maria Sinche-Gonzalez, Emad Abkhoshk, Finland, Iran

DISSOLUTION KINETICS OF LOW-GRADE ZINC SILICATE ORE IN HYDROXIDE SOLUTION

II-2. Branimir Farkaš, Ana Hrastov, Iva Štefičar, Croatia

POSSIBILITY OF INSTALLATION OF SOLAR POWER PLANTS IN EXPLOITATION SITES

II-3. Patrycja S. Bednarek, Nima Razavi, Przemysław B. Kowalczyk, Norway

THE ROLE OF ADDITIVE MANUFACTURING IN MINERAL AND METAL EXTRACTION

II-4. Zeynep Üçerler Çamur, Tülay Türk, Murat Olgaç Kangal, Turkey

INVESTIGATION OF SURFACE PROPERTIES OF PVC FOR SELECTIVE RECOVERY

II-5. Martin Straka, Czech Republic

ELECTROCHEMISTRY OF INDIUM IN METHYL-TRIOCTYLAMMONIUM BIS(TRIFLUOROMETHYLSULFONYL)IMIDE IONIC LIQUID

II-6. Seyed Hamzeh Amiri, Maria Sinche-Gonzalez, Finland

GRADE IMPROVEMENT OF IRON ORE CONCENTRATE BY APPLYING PLANT AUDITS, STANDARDIZATION AND PROCESS OPTIMIZATION

II-7. Luis Verdugo, Barbara Etschmann, Maryam Abdus-Salam, Andrew Hoadley, Jorge Menacho, Joel Brugger, Australia, Chile

MECHANOCHEMICAL LEACHING OF CHALCOPYRITE IN LOW MOISTURE CONDITIONS

II-8. Luka Ceyssens, Nina Miladinović, Giuseppe Granata, Tom Van Gerven, Belgium

MECHANOCHEMICAL ACTIVATION OF ARGON OXYGEN DECARBURIZATION SLAGS FOR IMPROVED MINERAL CARBONATION

II-9. Julio Valenzuela Elgueta, Silvia Ahualli Yapur, Angel Vicente Delgado Mora, Chile, Spain

INFLUENCE OF CATIONIC SURFACTANTS ON THE ELECTROKINETIC PROPERTIES AND STABILITY OF SILICA-KAOLINITE SUSPENSIONS UNDER COPPER HYDROMETALLURGY CONDITIONS

II-10. Amir Mohammad Bidmeshki, Mahmoud Abdollahy, Iran

SOLVENT EXTRACTION OF La, Ce, AND Nd ELEMENTS FROM THE NiMH BATTERIES LEACH SOLUTION

20:00 – 24:00 Gala Dinner (Hotel Moskva)



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THURSDAY, 29th May 2025

09:00 – 11:00 Session III (Hall 1)

Moderators: Gašper Tavčar (Slovenia), Semra Kurama (Turkey)

SL-2. Massoud Aghamirian, Vu Truong, Kristina Muntu, Jean-Gabriel Fraboulet, Sean Salour, Brian Kawenski Cook, Canada, France

INVESTIGATIONS INTO LITHIUM MINERALS PROCESSING

III-1. Gašper Tavčar, Davide Mombelli, Carlo Mapelli, Gianluca Dall'Osto, Dragan Radulović, Ivica Ristović, Mateusz Ciszewski, Jasna Kastivnik, Ana Mladenović, Alenka Mauko Pranjič, Slovenia, Italy, Serbia, Poland

OPTIMIZING METAL RECOVERY FROM EAF DUST: A COMPREHENSIVE APPROACH BEYOND THE WAELEZ KILN PROCESS

III-2. Semra Kurama, Hüseyin Boğaç Poyraz, Zahide Bayer Öztürk, Turkey

A PROPOSAL FOR ZERO WASTE IN THE IRON AND STEEL INDUSTRY: ZIRCONIA NOZZLE WASTE EVALUATION

III-3. Theodor Steller, Stefan Eisert, Bernd G. Lottermoser, Germany

EXPLORING ELECTROHYDRAULIC FRAGMENTATION FOR PROCESSING ELECTRIC ARC FURNACE SLAGS

III-4. Jasna Kastivnik, Gašper Tavčar, Dragan Radulović, Slovenia, Serbia

ENHANCING EU ECONOMIC RESILIENCE: EXPLORING NEW SOURCES AND BENEFICIATION OF CRITICAL RAW MATERIALS NIOBIUM AND TANTALUM FROM CENTRAL AFRICA

III-5. Valentine A. Chanturia, Igor Zh. Bunin, Maria Ryazantseva, Russian Federation

THE USE OF DIELECTRIC BARRIER DISCHARGE TO REGULATE THE TECHNOLOGICAL PROPERTIES OF CHALCOPYRITE AND SPHALERITE

III-6. Ugur Ulusoy, Firat Burat, Guler Bayar, Behrad Mojtahedi, Gulsah Guven, Turkey, Iran

CHARACTERIZATION AND COMPARISON OF THE PARTICLE SHAPE OF MICRONIZED GRAPHITE GROUND IN DIFFERENT MILLS USING DIA

III-7. Kristina Muntu, Jean-Gabriel Fraboulet, Sean Salour, Christine Bonnet, Enkhzul Bayarmagnai, Brian K. Cook, Massoud Aghamirian, Canada, France

VARIABILITY IN FLOTATION PERFORMANCE OF LEPIDOLITE SAMPLES FROM THE EMILI DEPOSIT, FRANCE

III-8. Sara Živojinović, Živko Đorović, Miloš Vuleta, Serbia

OPTIMIZATION RECYCLING IN IRON AND STEEL METALLURGY: UTILIZATION OF BY-PRODUCTS FOR EFFICIENCY AND SUSTAINABILITY

III-9. Fatma Arslan, Cüneyt Arslan, Turkey

RECYCLING OF WASTE CELL PHONES

11:00 – 11:30 Coffee break



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11:30 – 12:10 Poster session I (Hall 1)

Moderators: Ivana Smičiklas, Jovica Sokolović (Serbia)

PI-1. Vladimir Topalović, Ana Vujošević, Anja Antanasković, Veljko Savić, Marija Djošić, Zorica Lopičić, Jelena Nikolić, Serbia

CHEMICAL STABILITY AND FERTILIZER EFFICIENCY OF BIOGLASS AND BIOCHAR ON ROSE PLANTINGS

PI-2. Vladimir Topalović, Veljko Savić, Marija Djošić, Danijela Smiljanić, Snežana Zildžović, Snežana Grujić, Jelena Nikolić, Serbia

THE EFFECT OF FLUXING AGENT CATIONS IN FLY ASH-BASED GLASS ON CHEMICAL STABILITY

PI-3. Aleksandar Cvetković, Marija Petrović Mihajlović, Žaklina Tasić, Milan Radovanović, Ana Simonović, Vladan Nedelkovski, Serbia

INFLUENCE OF ORGANIC COMPOUND STRUCTURE ON BRASS CORROSION INHIBITION EFFICIENCY

PI-4. Aleksandar Cvetković, Vladan Nedelkovski, Dragana Medić, Sonja Stanković, Žaklina Tasić, Milan Radovanović, Snežana Milić, Serbia

WASTE TO RESOURCE TRANSFORMATION: INNOVATIVE APPROACHES TO RECYCLING CATHODE MATERIALS FROM LITHIUM-ION BATTERIES

PI-5. Aleksandra Mitrović, Jelena Vucicevic, Serbia

LABORATORY-SCALE REACTORS EMPLOYING MOVING BED BIOFILM REACTOR (MBBR) TECHNOLOGY: A COMPREHENSIVE REVIEW

PI-6. Vesna Marjanović, Emina Požega, Miomir Mikić, Milutin Stojadinović, Serbia

INCREASING RECYCLING RATES IN THE FIELD OF CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT BY IMPLEMENTING THE LEGAL ACT OF THE REPUBLIC OF SERBIA AND THE EUROPEAN UNION

PI-7. Radmila Marković, Vesna Marjanović, Aleksandra Ivanović, Milutin Stojadinović, Serbia

CHARACTERISTICS OF COPPER POWDER OBTAINED AT LOWER VALUES OF CATHODE CURRENT DENSITY

PI-8. Messai Ali, Berrekbia Linda, Meramria Ikram, Juan M. Menéndez-Aguado, Begoña Fernández Pérez, Vladimir Nikolić, Milan Trumić, Boustila Amir, Algeria, Spain, Serbia

POTENTIAL OF USING ZINC PROCESSING TAILINGS (ZPT's) IN THE PRODUCTION OF BURNT CLAY BRICKS

PI-9. Aleksandra Božić, Dominik Brkić, Marina Stamenović, Marija Miletić, Serbia

DETERMINATION OF PCB CONCENTRATION IN SOIL

PI-10. Stefan Milanović, Nikola Simić, Lazar Kričak, Milanka Negovanović, Miljan Gomilanović, Nikola Đokić, Serbia

ENVIRONMENTAL IMPACT WITH THE GREENHOUSE GASES AND AIR POLLUTANT PREDICTION BY DRILLING AND BLASTING WORKS

PI-11. Plamen Georgiev, Marina Nicolova, Irena Spasova, Mihail Iliev, Ralitsa Ilieva, Bulgaria
NON-FERROUS METALS BIOLEACHING FROM PYROMETALLURGY COPPER SLAG USING SPENT MEDIUM OF DIFFERENT FUNGAL SPECIES

PI-12. Janine Rodrigues Figueiredo, Érica Linhares Reis, Arthur Silva de Oliveira, Brazil

PROCESSING OF FINE LITHIUM MINERAL TAILINGS



28-30 May 2025, Belgrade, Serbia

PI-13. Milica Zdravković, Vesna Grekulović, Edina Huseinović, Robert Vianello, Nada Štrbac, Melita Huremović, Milan Gorgievski, Serbia, Bosnia and Herzegovina, Croatia

UV-VIS IDENTIFICATION OF COPPER COMPLEXES WITH INHIBITOR ORGANIC COMPONENTS IN THE ELECTROLYTE

PI-14. Ivana Smičiklas, Mihajlo Jović, Jelena Amidžić, Snežana Dragović, Serbia

EVALUATION OF WASTE MATERIALS FOR CADMIUM REMOVAL: COMPARATIVE STUDY OF SORPTION CAPACITY AND STABILITY

PI-15. Tanja Kalinović, Ana Radojević, Jelena Kalinović, Jelena Jordanović, Snežana Šerbula, Serbia

CASE STUDY ON METAL(LOID)S DISTRIBUTION IN LINDEN TREE PARTS, IN AREAS WITH HIGH ENVIRONMENTAL POLLUTION

PI-16. Marija Simić, Marija Kovačević, Katarina Stojanović, Branislava Savić Rosić, Dragana Vasić Anićijević, Tanja Brdarić, Danka Aćimović, Serbia

ELECTROCHEMICAL OXIDATION OF BISPHENOL S WITH SnO_2 -MWCNT ELECTRODES

PI-17. Marija Simić, Marija Kovačević, Katarina Stojanović, Marija Ječmenica Dučić, Dragana Vasić Anićijević, Danka Aćimović, Tanja Brdarić, Serbia

COMPARATIVE STUDY OF ELECTROCHEMICAL DEGRADATION OF RHODAMINE B USING GLASSY CARBON, STAINLESS STEEL, AND NICKEL ELECTRODES

PI-18. Marija Kovačević, Marija Simić, Katarina Stojanović, Danka Aćimović, Sanja Živković, Tanja Brdarić, Dragana Vasić Anićijević, Serbia

PHOTODEGRADATION OF CIPROFLOXACIN WITH COPPER-MODIFIED TITANIUM(IV)-OXIDE

PI-19. Francielle Câmara Nogueira, Carlos Alberto Pereira, Leandro Vinícius Alves Gurgel, Stephânia da Consolação Silva Nogueira, Iranildes Daniel Santos, Brazil

PROCESS WATER REUSE IN IRON ORE FLOTATION: REDUCING AMINE CONSUMPTION

PI-20. Jovica Sokolović, Ivana Đolović, Dejan Tanikić, Zoran Štirbanović, Ivana Ilić, Serbia

THE EFFECT OF PARTICLE SIZE ON THE FLOTATION KINETICS OF RAW AND WASTE COAL

PI-21. Zuzana Danková, Alexandra Bekényiová, Zuzana Kollová, Erika Fedorová, Pavel Bačo, Jaroslav Briančin, Slovakia

SLOVAK DOLOMITE AS A RAW MATERIAL SOURCE FOR METAL MAGNESIUM PRODUCTION

PI-22. Paul Delaney, Australia

PERFORMANCE OF IRON ALUMINIUM AND COPPER IRON BIMETALLIC PARTICLES IN REMOVAL OF HEAVY METALS AND METALLOIDS

PI-23. Henrique Dias Gatti Turrer, Josue Mesquita De Souza Junior, Gillian Nikka Omaga, Juliette Laine, Marcello Rodrigues Cruz, Nubia Bottosso, Vinicius Seerig, France

ADVANCEMENTS IN MINERAL PROCESSING: COLLABORATIVE EFFORTS AND TECHNOLOGICAL INNOVATIONS AT ARCELORMITTAL

PI-24. Zuzana Kollová, Pavel Bačo, Zuzana Danková, Zoltán Németh, Slovakia

THE POTENTIAL SOURCES OF CRITICAL RAW MATERIALS IN SLOVAKIA



28-30 May 2025, Belgrade, Serbia

12:20 – 13:00 Poster session II (Hall 1)

Moderators: Ivana Jelić (Serbia), Francesco Ferella (Italy)

PII-1. Miomir Mikić, Milenko Jovanović, Radmilo Rajković, Daniel Kržanović, Sandra Milutinović, Serbia

RECUltIVATION PROCEDURE OF FLOTATION TAILINGS AT THE LOCATION OF RTH IN BOR

PII-2. Miomir Mikić, Vesna Marjanović, Emina Požega, Radmilo Rajković, Serbia

TREATMENT OF ACIDIC MINE WATERS BY THE NEUTRALIZATION PROCESS

PII-3. Dragana Medić, Maja Nujkić, Žaklina Tasić, Vladan Nedelkovski, Stefan Đorđievski, Slađana Alagić, Snežana Milić, Serbia

CHARACTERIZATION OF ELECTRODE MATERIALS FROM SPENT BATTERIES IN THE PROCESS OF RECOVERING VALUABLE METALS

PII-4. Kristina Pavićević, Danica Jovašević, Maja Rajković, Ivana Jelić, Marija Janković, Marija Šljivić-Ivanović, Serbia

BIOCHAR IN WASTEWATER REMEDIATION: A BRIEF REVIEW OF CHARACTERISTICS AND PREPARATION MATERIALS

PII-5. Boris Borche Fidanchev, Afrodita Zendelska, North Macedonia

NEW SAG-BALL MILL AND FLOTATION LINE FOR RECONSTRUCTING OF "ZLETOVO" FLOTATION PLANT-PROBISHTIP, NORTH MACEDONIA

PII-6. Nela Vujović, Vesna Alivojvodić, Dragana Radovanović, Marija Štulović, Miroslav Sokić, Filip Kokalj, Serbia, Slovenia

POTENTIAL OF RECYCLING AND REUSE MINING WASTE IN SERBIA: CHALLENGES AND PROSPECTS

PII-7. Igor Zh. Bunin, Russian Federation

LOW-TEMPERATURE ATMOSPHERIC PLASMA IN THE COMPLEX PROCESSING OF HARD-BENEFICIATION MINERAL RAW MATERIALS

PII-8. Xiaopeng Peng, Lijie Guo, Xingshan Jin, China

THE STUDY ON THE STRESS CHARACTERISTICS OF BACKFILL BARRICADE IN UNDERGROUND METAL MINES BASED ON SIMULATION EXPERIMENTS

PII-9. Sonja Stanković, Vladan Nedelkovski, Milan Radovanović, Stefan Đorđievski, Dragana Medić, Snežana Milić, Serbia

SUSTAINABLE PRODUCTION OF GRAPHENE OXIDE AND ZINC OXIDE NANOPARTICLES FROM SPENT Zn-C BATTERIES

PII-10. Džafer Dautbegović, Mirsada Hasanbašić, Bosnia and Herzegovina

THE IMPACT OF THE TRANSFER STATION ON THE ORGANIZATION OF MUNICIPAL WASTE COLLECTION

PII-11. Genc Demi, Bukurosh Koci, Islam Nika, Albania

RECYCLING OF CHROMIUM TAILINGS IN BULQIZA PLANT

PII-12. Dragan S. Radulović, Jovica Stojanović, Gašper Tavčar, Vladimir Jovanović, Dejan Todorović, Branislav Ivošević, Sonja Milićević, Serbia, Slovenia

CHARACTERIZATION OF AN ORE SAMPLE FROM CONGO BASED ON TANTALUM AND NIOBIUM FOR POSSIBLE FURTHER TECHNOLOGICAL TESTS



28-30 May 2025, Belgrade, Serbia

P11-13. Dragan S. Radulović, Jovica Stojanović, Grozdanka Bogdanović, Vladimir Jovanović, Dejan Todorović, Branislav Ivošević, Vladimir Simić, Serbia

STUDY OF MINERALOGICAL AND PHYSICO-CHEMICAL PROPERTIES OF SAMPLES OF FLOTATION TAILINGS "RUDNIK" MINE

P11-14. Aleksandra Milosavljević, Marijana Pavlov - Kagadejev, Ana Kostov, Serbia

IR CAMERA APPLICATION IN CONTROL OF THE CURRENT STATE OF AN INDUCTION FURNACE IN LABORATORY CONDITIONS

P11-15. Milena Kostović, Sanja Bajić, Serbia

WASTE FOUNDRY SAND REGENERATION

P11-16. İlhan Buşatlı, Nadira Buşatlı, Nevzet Merdić, Nedžad Haračić, Lejla Mujezinović, Bosnia and Herzegovina

GEOPOLYMERS BASED ON FLY ASH WITH THE ADDITION OF GRANULATED BLAST FURNACE SLAG

P11-17. Sonja Milićević, Jovica Stojanović, Ivana Jelić, Snežana Zildžović, Vladimir Jovanović, Dejan Todorović, Serbia

ZEOLITE ACID (UN)STABILITY AS MAJOR DISADVANTAGE FOR ITS HUMAN CONSUMPTION

P11-18. Paweł Tomach, Jacek Feliks, Marta Łuczak, Grzegorz Fabijański, Poland

INVESTIGATION OF ULTRA-FINE GRINDING OF AGGLOMERATED BASALT DUST

P11-19. Francesco Ferella, Svetlana B. Zueva, Ionela P. Birloaga, Valentina Innocenzi, Nicolò M. Ippolito, Francesco Vegliò, Italy

PRODUCTION OF HIGH-PURITY QUARTZ FOR OPTICAL APPLICATIONS

P11-20. Roshanak Adavodi, Adriana Zuffranieri, Soroush Rahmati, Pietro Romano, Francesco Ferella, Francesco Veglio, Italy

SELECTIVE EXTRACTION OF MOLYBDENUM, NICKEL, AND COBALT FROM SECONDARY RESOURCES USING BIFUNCTIONAL IONIC LIQUIDS

P11-21. Predrag Stolić, Zoran Jovanović, Željko Mravik, Marko Jelić, Sonja Jovanović, Serbia

SELECTED ASPECTS OF SENSOR APPLICATION IN THE DESIGN AND IMPLEMENTATION OF INTELLIGENT INSTRUMENTATION FOR RECYCLING SYSTEMS

P11-22. Maja Trumić, Katarina Balanović, Tamara Gavrilović, Serbia

PREDICTION OF RESULTS OF FLOTATION PROCESS USING ARTIFICIAL NEURAL NETWORKS

P11-23. Tomasz Suponik, Paweł Friebe, Umut Kar, Dawid Franke, Pengbo Chu, Poland, USA

FINANCIAL AND TECHNOLOGICAL POTENTIAL OF ECO-EFFICIENT RECYCLING OF WASTE ELECTRONIC EQUIPMENT

P11-24. Anđelija Bogdanović, Hassene Affouri, Ivan Kojić, Ksenija Stojanović, Serbia, Tunisia

ORIGIN, DEPOSITIONAL ENVIRONMENT AND MATURITY OF ORGANIC MATTER IN EOCENE COALS FROM TUNISIA

P11-25. Yergeshev Akim Ruslanovich, Tokpayev Rustam Rishatovich, Khavaza Tamina Narimanovna, Karmeyeva Marina, Nauryzbayev Mikhail Kasymovich, Ignatkina Vladislava Anatolyevna, Russian Federation, Republic of Kazakhstan

REFRACTORY POLYMETALLIC ORES BY FLOTATION. DIRECTIONS FOR IMPROVING METALLURGICAL BALANCE

13:00 – 14:00 Lunch



28-30 May 2025, Belgrade, Serbia

14:00 – 16:00 Session IV (Hall 1)

Moderators: Aileen H. Orbecido (Philippines), Haldun Kurama (Turkey)

IL-8. Michal Šyc, Jiří Hykš, Czech Republic, Denmark

FROM LINEAR TO CIRCULAR ECONOMY – STORY OF THE BOTTOM ASH

IV-1. Valentin Alexeyevich Chanturia, Valeriy Valentinovich Morozov, Galina Petrovna Dvoichenkova, Elena Leonidovna Chanturia, Russian Federation

THE SELECTION OF APPLICATION MODES OF AGENTS MODIFYING DIAMOND SPECTRAL CHARACTERISTICS IN THE PROCESS OF X-RAY LUMINESCENCE SEPARATION

IV-2. Valeriy Valentinovich Morozov, Galina Petrovna Dvoichenkova, Irina Vasilyevna Pestryak, Valentina Anatolyevna Chut-Dy, Russian Federation

UP-TO-DATE METHODS AND TECHNOLOGIES FOR IMPROVING THE PERFORMANCE OF FOAM SEPARATION OF DIAMOND-BEARING KIMBERLITES

IV-3. Dragan Milošević, Jasmina Nešković, Pavle Stjepanović, Svetlana Polavder, Serbia

LANDFILL FOR COMBUSTION PRODUCTS FROM THE KOSTOLAC THERMOELECTRON

IV-4. Haldun Kurama, Turkey

DISSOLVED AIR FLOTATION: IS IT REALLY A SUITABLE SOLUTION FOR INDUSTRIAL PURIFICATION PROCESSES?

IV-5. Maria Cristina Vila, Maria Lurdes Dinis, Laura Ferrando-Climent, Nirosam Gajendra, Deniz Avsar, Duygu Yilmaz, Erika Levei, Iulia Török, Portugal, Norway, Romania

INNOVATIVE PRE-FEASIBILITY STUDIES TOWARDS THE SUSTAINABLE PRODUCTION OF RARE EARTH CONCENTRATES FOR SELF-SUPPLY IN EUROPE

IV-6. Randal Tzeou Hah Fauline, Agnès Grandjean, Antoine Leydier, Emeric Brun, Florian Herbelet, Xavier Heres, Justine Taurines, France

MODELING AND SIMULATION OF SOLID PHASE EXTRACTION FOR LEACHED ORE PURIFICATION

IV-7. Michelle Airah N. Pablo, Joshua P. Pocaan, Jacob Louies Rohi W. Paulo, Piolo N. Gervacio, Arnel B. Beltran, Carla Mae J. Pausta, Aileen H. Orbecido, Philippines

LEACHING OF CALCIUM FROM PHOSPHOGYPSUM FOR CARBON SEQUESTRATION

IV-8. Michael Angelo B. Promentilla, Philippines

A PROBLEMATIQUES APPROACH FOR UNDERSTANDING CIRCULAR ECONOMY INTEGRATION BARRIERS IN THE MINING AND MINERAL PROCESSING SECTOR

IV-9. Joshua Pocaan, Brian Gerald Bueno, Jaica Mae Pagaduan, Aileen Orbecido, Carlito Tabelin, Ana Santos, Anne Jungblut, Vannie Joy Resabal, Renan Ma. Tanhueco, Michael Angelo Promentilla, Arnel Beltran, Philippines, United Kingdom

DEVELOPMENT OF LIMESTONE-BASED PASSIVE TREATMENT SYSTEM FOR COPPER-RICH ACID MINE DRAINAGE



28-30 May 2025, Belgrade, Serbia

14:00 – 16:00 Session V – Hybrid session (Chamber's Club Hall)

Moderators: Samah S. Abdallah (Egypt), Godfrey Dzinomwa (Namibia)

V-1. Mafeni Samuel Ramatsoma, Veruska Govender, Deshenthree Chetty, Olga Bazhko, South Africa

KINETIC AMD PREDICTION FOR A MINE TAILINGS DUMP: A SOUTHERN AFRICAN MINE CASE STUDY

V-2. Sadaf Samadi-Tavanaa, Saeid Karimi, Mehdi Pourabdoli, Zoran Štirbanović, Iran, Serbia

RECYCLING OF PRINTED CIRCUIT BOARDS (PCBS) USING VARIOUS DEEP EUTECTIC SOLVENTS (DESS) AND INSIGHTS FROM DFT SIMULATIONS

V-3. David Oluwasegun Afolayan, Adamu Hassan Abubakar, Samuel Olumide Ogunmodimu, Nigeria, USA

GRAVITY CONCENTRATION OF FINE PARTICLES COMPLEX ORES-CONTAINING BARYTE USING LABORATORY-BUILT MINERAL JIG

V-4. Olajuyi Seun Isaiah, Afolayan David Oluwasegun, Ogunmodimu Samuel Olumide, Nigeria, USA
PRELIMINARY INVESTIGATION ON NIGERIAN LITHIUM ORES FOR EFFICIENT LITHIUM OXIDE EXTRACTION

V-5. Andriela Dutra Norberto de Oliveira, Luis Gonzaga Santos Sobral, Armando Lucas Cherem da Cunha, Brazil

THE INFLUENCE OF DIFFERENT FORMS OF MINERAL PROCESSING ON THE BIO-OXIDATION OF SULPHIDE MINERALS BEARING GOLD

V-6. Andriela Dutra Norberto de Oliveira, Luis Gonzaga Santos Sobral, Armando Lucas Cherem da Cunha, Brazil

BIODESULPHURISING HIGH SULPHUR CONTENT TAILINGS FROM COAL MINING IN BRAZIL

V-7. Samah S. Abdallah, Samah M. El-Sayed, Mohamed A. Abdel-Khalek, Egypt

SELECTIVE BIO-FLOCCULATION OF HEMATITE MINERAL USING BACILLUS SUBTILIS FOR PHOSPHOROUS REMOVAL FROM IRON ORES

V-8. Amalia Andreas, Titus Nghipulile, Godfrey Dzinomwa, Namibia

SELF-FLOTATION OF GALENA IN A COMPLEX SULPHIDE ORE FROM A COPPER MINE IN NAMIBIA

V-9. Titus Nghipulile, Theophile Mwaku, Godfrey Dzinomwa, Benjamin Mapani, Jaquiline Tatenda Kurasha, Namibia

REPROCESSING OLD MINE TAILINGS TO RECOVER COPPER AND PRECIOUS METALS USING FROTH FLOTATION

V-10. Perrin Mathilde, Billy Emmanuel, France

BLACKMASS FLOTATION OF END-OF-LIFE BATTERIES: HOW TO DO WITHOUT PRE-TREATMENT?

16:00 – 16:30 Coffee break

16:30 – 18:00 Session VI – Metals Young Researcher Award Session (Hall 1)

Moderators: Srećko Stopić (Germany), Zoran Štirbanović (Serbia)

V-1. Diego Poblete, Claudio Leiva, Maria Sinche-Gonzales, Claudio Acuña, Finland, Chile

HOLLOW DROP BUBBLES A PROPOSED NEW TECHNOLOGY FOR OPTIMIZED METAL EXTRACTION VALIDATED IN THE LABORATORY



28-30 May 2025, Belgrade, Serbia

VI-2. Wanjia Zhang, Zhitao Feng, Zhiyong Gao, China, USA

PREDICTION OF COLLECTOR FLOTATION PERFORMANCE BASED ON MACHINE LEARNING AND QUANTUM CHEMISTRY: A CASE OF SULFIDE MINERALS

VI-3. Helir Muñoz, Sophia Korili, Antonio Gil, Spain

SYNTHESIS OF MOF@ALUMINUM SALINE SLAG COMPOSITES FOR CO₂ CAPTURE AS A NEW STRATEGY OF VALORIZATION OF SECONDARY ALUMINUM WASTES

VI-4. Jernej Imperl, Mitja Kolar, Vilma Ducman, Gorazd Žibret, Lea Žibret, Slovenia

SELECTIVE SEPERATION OF MAGNESIUM FROM SLOVENIAN DOLOMITES

VI-5. Vladan Nedelkovski, Dragana Medić, Aleksandar Cvetković, Sonja Stanković, Žaklina Tasić, Milan Radovanović, Snežana Milić, Serbia

ANODE NANOMATERIAL RECOVERED FROM SPENT BATTERIES FOR PEROXIDE-ASSISTED CRYSTAL VIOLET PHOTOCATALYTIC DEGRADATION

VI-6. Dragana Marilović, Sonja Stanković, Grozdanka Bogdanović, Serbia

EFFECT OF TEMPERATURE ON THE LEACHING COPPER FROM FLOTATION TAILINGS WITH IONIC LIQUID

18:00 Closing Ceremony (Hall 1)

Moderators: Srećko Stopić (Germany), Zoran Štirbanović (Serbia)

Closing remarks

Prof. dr Zoran Štirbanović, President of the Organizing Committee

Prof. dr Milan Trumić, President of the Scientific Committee

18:00 – 19:00 Cocktail (Le Teniza Restaurant)

FRIDAY, 30th May 2025

10:00 – 19:00 Visit to HBIS Serbia

