

University of Belgrade
Technical Faculty in Bor,
Mining and Metallurgy
Institute Bor



54th International October Conference on Mining and Metallurgy

18-21 October 2023, Bor Lake, Serbia

FINAL PROGRAM



SCIENTIFIC COMMITTEE

54th INTERNATIONAL OCTOBER CONFERENCE **on Mining and Metallurgy**

- | | |
|--|--|
| Prof. Dr Dejan Tanikić (Serbia) - president | Dr Milenko Ljubojev (Serbia) |
| Prof. Dr Nada Štrbac (Serbia) - vice-president | Prof. Dr Milovan Vuković (Serbia) |
| Prof. Dr Radoje Pantović (Serbia) - vice-president | Prof. Dr Mira Cocić (Serbia) |
| Dr Ana Kostov (Serbia) | Mirjam Jan-Blažić (Slovenia) |
| Prof. Dr Adam Grajcar (Poland) | Prof. Dr Mirjana Rajčić Vujasinović (Serbia) |
| Prof. Dr Adina Negrea (Romania) | Prof. Dr Mirko Gojić (Croatia) |
| Dr Andrei Rotaru (Romania) | Dr Miroslav Sokić (Serbia) |
| Prof. Dr Batrić Pešić (USA) | Prof. Dr Mirsada Oruč (Bosnia and Herzegovina) |
| Dr Biserka Trumić (Serbia) | Dr Nadežda Talijan (Serbia) |
| Prof. Dr Boštjan Markoli (Slovenia) | Prof. Dr Natalija Dolić (Croatia) |
| Dr Branislav Marković (Serbia) | Prof. Dr Nedeljko Magdalinović (Serbia) |
| Prof. Dr Cornelia Muntean (Romania) | Prof. Dr Nenad Radović (Serbia) |
| Prof. Dr Daniela Grigorova (Bulgaria) | Prof. Dr Nenad Vušović (Serbia) |
| Prof. Dr Dejan Ivezić (Serbia) | Prof. Dr Nicanor Cimpoesu (Romania) |
| Prof. Dr Desimir Marković (Serbia) | Prof. Dr Nobuyuki Masuda (Japan) |
| Prof. Dr Dimitris Pnias (Greece) | Prof. Dr Onuralp Yucel (Turkey) |
| Prof. Dr Dimitriu Sorin (Romania) | Prof. Dr Pavel Broz (Czech Republic) |
| Prof. Dr Dmitry Vasilyev (Russia) | Prof. Dr Petr Solozhenkin (Russia) |
| Dr Dragan Komljenović (Canada) | Prof. Dr Petrica Vizureanu (Romania) |
| Prof. Dr Dragan Manasijević (Serbia) | Dr Sun Zhongmei (China) |
| Dr Dragan Milanović (Serbia) | Prof. Dr Ridvan Yamanoglu (Turkey) |
| Prof. Dr Dragan Milovanović (Serbia) | Prof. Dr Rodoljub Stanojlović (Serbia) |
| Prof. Dr Dragoslav Gusković (Serbia) | Prof. Dr Rositsa Paunova (Bulgaria) |
| Prof. Dr Dušan Oráč (Slovakia) | Prof. Dr Sead Čatić (Bosnia and Herzegovina) |
| Prof. Dr Duško Minić (Serbia) | Prof. Dr Sergey Krasikov (Russia) |
| Prof. Dr Endre Romhanji (Serbia) | Dr Slavomír Hredzák (Slovakia) |
| Prof. Dr Essen Suleimenov (Kazakhstan) | Prof. Dr Snežana Milić (Serbia) |
| Prof. Dr Farzet Bikić (Bosnia and Herzegovina) | Prof. Dr Snežana Šerbula (Serbia) |
| Prof. Emeritus Fathi Habashi (Canada) | Prof. Dr Srba Mladenović (Serbia) |
| Prof. Dr Grozdanka Bogdanović (Serbia) | Dr Srećko Stopić (Germany) |
| Prof. Dr György Kaptay (Hungary) | Prof. Dr Stojan Groudev (Bulgaria) |
| Prof. Dr Ivan Mihajlović (Serbia) | Prof. Dr Sulejman Muhamedagić (Bosnia and Herzegovina) |
| Prof. Dr Iveta Vaskova (Slovakia) | Prof. Dr Svetlana Ivanov (Serbia) |
| Prof. Dr Jakob Lamut (Slovenia) | Prof. Dr Tatjana Volkov-Husović (Serbia) |
| Prof. Dr Jasmin Suljagić (Bosnia and Herzegovina) | Prof. Dr Tomaš Havlik (Slovakia) |
| Dr Jasmina Stevanović (Serbia) | Prof. Dr Velimir Radmilović (Serbia) |
| Dr Jasna Stajić Trošić (Serbia) | Prof. Dr Velizar Stanković (Serbia) |
| Prof. Dr Jovica Sokolović (Serbia) | Prof. Dr Vesna Grekulović (Serbia) |
| Prof. Dr Jožef Medved (Slovenia) | Dr Vladan Čosović (Serbia) |
| Prof. Dr Kaikun Wang (China) | Vladan Mihailović (Serbia) |
| Prof. Dr Karl Heinz Spitzer (Germany) | Dr Vladan Kašić (Serbia) |
| Prof. Emeritus Karlo Raić (Serbia) | Prof. Dr Vladimir Krstić (Canada) |
| Prof. Dr Kemal Delijić (Montenegro) | Prof. Dr Vladislav Kecojević (USA) |
| Prof. Dr Komnitsas Konstantinos (Greece) | Dr Walter Valery (Australia) |
| Prof. Dr Kostas Matis (Greece) | Prof. Dr Xuewei Lv (China) |
| Prof. Dr Krzysztof Fitzner (Poland) | Prof. Dr Yong Du (China) |
| Prof. Dr Luis Filipe Malheiros (Portugal) | Prof. Dr Žarko Radović (Montenegro) |
| Prof. Dr Milan Antonijević (Serbia) | Prof. Dr Zdenka Zovko Brodarac (Croatia) |
| Prof. Dr Milan Trumić (Serbia) | Dr Zoran Stevanović (Serbia) |
| Dr Mile Bugarin (Serbia) | Prof. Dr Željko Kamberović (Serbia) |
-

ORGANIZING COMMITTEE

54th INTERNATIONAL OCTOBER CONFERENCE on Mining and Metallurgy

Prof. dr Ljubiša Balanović (UB TF Bor) - president
Prof. dr Saša Stojadinović (UB TF Bor) - vice-president
Prof. dr Srba Mladenović (UB TF Bor) - vice-president
Dr Ana Kostov (MMI Bor) - vice-president

Prof. dr Nada Štrbac (UB TF Bor)
Prof. dr Dragan Manasijević (UB TF Bor)
Prof. dr Vesna Grekulović (UB TF Bor)
Prof. dr Đorđe Nikolić (UB TF Bor)
Prof. dr Milan Radovanović (UB TF Bor)
Prof. dr Marija Petrović Mihajlović (UB TF Bor)
Prof. dr Zoran Štirbanović (UB TF Bor)
Prof. dr Milan Gorgievski (UB TF Bor)
Prof. dr Saša Marjanović (UB TF Bor)
Prof. dr Ivana Marković (UB TF Bor)
Prof. dr Žaklina Tasić (UB TF Bor)
Doc. dr Dejan Petrović (UB TF Bor)
Doc. dr Anđelka Stojanović (UB TF Bor)
Doc. dr Uroš Stamenković (UB TF Bor)
Dr Jasmina Petrović (UB TF Bor)
Vladimir Nikolić (UB TF Bor)
Milica Zdravković (UB TF Bor)
Miljan Marković (UB TF Bor)
Milijana Mitrović (UB TF Bor)
Milan Nedeljković (UB TF Bor)
Avram Kovačević (UB TF Bor)
Sandra Vasković (UB TF Bor)
Oliver Marković (UB TF Bor)
Violeta Aleksić (UB TF Bor)



**Conference is financially supported by
The Ministry of Science, Technological
Development and Innovation
of the Republic of Serbia**

Platinum Donors



Gold Donors



Silver Donor



Exhibitions



Friends of the Conference



THE FOUNDATION 'B.SC. ENG. BOŠKO INJAC'



FINAL PROGRAM

SCHEDULE OF EVENTS

Wednesday, October 18, 2023

18:00 – 20:00 – Conference desk opening / Registration of participants
20:00 – 00:00 – **Welcome party**

Thursday, October 19, 2023

08:00 – 18:00 – Conference desk working hours / Registration of participants
10:00 – 10:30 – Conference opening – Room A
10:30 – 11:00 – Plenary lecture 1 (Velimir Radmilović) – Room A
11:00 – 12:00 – Sponsor presentations 1 - Platinum sponsors – Room A
 11:00 – 11:20 – Serbia Zijin Mining DOO Bor
 11:20 – 11:40 – Serbia Zijin Copper DOO Bor
 11:40 – 12:00 – Copper Mill Sevojno AD
12:00 – 12:40 – Welcome cocktail – Hotel lobby
12:40 – 13:10 – Plenary lecture 2 (Xuewei Lv) – Room A
13:10 – 13:40 – Sponsor presentations 2 – Room A
 13:10 – 13:20 – HBIS GROUP Serbia
 13:20 – 13:40 – Trokutttest Group
14:00 – 15:00 – Lunch break
15:00 – 15:40 – Invited lectures 1, 2 (Batric Pesic; Yaima Filiberto) – Room A
15:40 – 16:40 – Session 1 – Oral presentations 1 – Room A
16:40 – 17:00 – Coffee break
17:00 – 17:40 – Invited lectures 3, 4 (Qi Fenglai; Satyananda Patra) – Room A
17:40 – 18:20 – Session 2 – Oral presentations 2 – Room A
17:00 – 18:10 – Session 3 – Oral presentations 3 – Room B
18:20 – 19:00 – Poster Section 1 – Hotel lobby
20:00 – 00:00 – **Conference Dinner**

Friday, October 20, 2023

08:00 – 18:00 – Conference desk working hours
09:00 – 14:00 – Professional visit - Zijin Copper Bor
14:00 – 15:00 – Lunch break
15:00 – 15:20 – Invited lecture 5 (Ridvan Yamanoglu) – Room A
15:20 – 16:40 – Session 4 – Oral presentations 4 – Room A
15:00 – 15:50 – Session 5 – Oral presentations 5 – Room B
16:40 – 17:00 – Coffee break
17:00 – 17:20 – Invited lecture 6 (Yuhui Zhang) – Room A
17:20 – 18:30 – Session 6 – Oral presentations 6 – Room A
18:30 – 19:00 – Poster Section 2 – Hotel lobby
20:00 – 23:00 – Dinner

Saturday, October 21, 2023

08:00 – 14:00 – Conference desk working hours
09:30 – 13:00 – Professional visit - Zijin Mining Bor
14:00 – 15:00 – Lunch break
15:00 – 16:00 – Closing the Conference

The duration of oral presentations is supposed to be 10 min plus 3 min for questions and discussion. We kindly ask you to keep strictly to this time limit. During the Conference working days, sponsors exhibition will be organized in hotel lobby.

8th International Student Conference on Technical Sciences – ISC 2023, will be held in the frame of IOC 2023 on 20 - 21 October 2023



LIST OF PRESENTATIONS

Thursday, October 19, 2023

Conference opening

Thursday, October 19, 2023 at 10:00 – 10:30, Room A

Chairpersons: Dejan Tanikić, Ljubiša Balanović, Dragan Manasijević, Mile Bugarin

Moderator: Sandra Vasković

Plenary lecture 1

Thursday, October 19, 2023 at 10:30 – 11:00, Room A

Chairpersons: Dejan Tanikić, Ljubiša Balanović, Dragan Manasijević, Mile Bugarin

1. Velimir R. Radmilović (SERBIA)

Energy: one of the biggest challenges in 21st century

Sponsor presentations 1

Thursday, October 19, 2023 at 11:00 – 12:00, Room A

Chairpersons: Dejan Tanikić, Ljubiša Balanović, Dragan Manasijević, Mile Bugarin

11:00 – 11:20 – Serbia Zijin Mining DOO Bor

11:20 – 11:40 – Serbia Zijin Copper DOO Bor

11:40 – 12:00 – Copper Mill Sevojno AD

Plenary lecture 2

Thursday, October 19, 2023 at 12:40 – 13:10, Room A

Chairpersons: Vladan Ćosović, Tatjana Volkov-Husović, Srba Mladenović

1. Jing Yu, Mingshui Luo, Junyi Xiang, Yang You, Zhixiong You, Xuwei Lv (CHINA)

Efficient extraction of vanadium from vanadium slag

Sponsor presentations 2

Thursday, October 19, 2023 at 13:10 – 13:40, Room A

Chairpersons: Vladan Ćosović, Tatjana Volkov-Husović, Srba Mladenović

13:10 – 13:20 – HBIS GROUP Serbia

13:20 – 13:40 – Trokutttest Group

Thursday, October 19, 2023

Session 1 - Oral presentations

Thursday, October 19, 2023 at 15:00 – 16:40, Room A

Chairpersons: Velimir R. Radmilović, Iveta Vasková, Milovan Vuković

Invited lectures 1, 2 - 15:00 – 15:40

1. **Batrić Pešić** (UNITED STATES)
The ongoing restructuring of universities to adopt the sophistication offered by internet
2. **Yaima Filiberto, Alberto Montenegro, Eugenio Alvarez** (SPAIN)
Machine learning applied to improving the scrap recycling and melting process in all types of ferrous alloys and steel

Oral presentations 1 - 15:40 – 16:40

1. **Tatjana Volkov-Husović, Sanja Martinović, Ana Alil, Milica Vlahović** (SERBIA)
Application of image analysis for cavitation erosion resistance monitoring of some engineering materials
2. **C. Prochaska, E. Kokkinos, D. Merachtsaki, A. Lampou, E. Peleka, K. Simeonidis, G. Vourlias, A. Zouboulis** (GREECE)
Recovery of metallic fractions from medical products labelled for single use
3. **Jarmila Trpčevská, Iveta Vasková, Katarína Pauerová, Martina Laubertová, Dušan Oráč** (SLOVAKIA)
Zinc volatilization in the primary and the secondary zinc production
4. **Deniz Eylül Akpınar, Batuhan Turgut, Ugur Gurol, Savas Dilibal** (TURKEY)
Characterization of wire arc additively manufactured wear-resistant bimetallic component
5. **Tamara Ristić, Nenad Milosavljević, Dobrica Milovanović** (SERBIA)
Measures for the processing of iron with a higher incoming phosphorus content at the steel shop
6. **Peter Polyak** (SERBIA)
Finishing mill automation upgrade at hot strip mill

Thursday, October 19, 2023

Session 2 - Oral presentations

Thursday, October 19, 2023 at 17:00 – 18:20, Room A

Chairpersons: *Xuwei Lv, Vladan Mihailović, Savas Dilibal*

Invited lectures 3, 4 - 17:00 – 17:40

1. **Slobodan Kostić, Qi Fenglai, Savo Pirgić, Nenad Botić, Dobrica Milovanović, Čedomir Sušić, Igor Zlatković (SERBIA)**
Construction of a new sintering plant 180 m2 within the HBIS Group Serbia Iron & Steel
2. **Satyananda Patra (INDIA)**
Acid activation of bentonite: Physico-Chemical characterization and application in goethitic iron ore green pelletization

Oral presentations 2 - 17:40 – 18:20

1. **Jianbo Zhao, Xinnan Zhao, Donglai Ma, Yang You, Zhixiong You, Xuwei Lv (CHINA)**
Preparation of ferronickel by semi-molten smelting a mixture of two types of laterite ore
2. **Alexey M. Amdur, Sergei A. Fedorov, Andrey A. Forshev, Nikolay V. Grevtsev, Vera V. Yurak (RUSSIA)**
Technological aspects of the use of peat as a component of pulverated coal fuel for blast furnaces
3. **Mehmet Ali Yildiz (SERBIA)**
Hot strip mill walking beam slab reheating project
4. **Yang You, Jiabao Guo, Zhixiong You, Xuwei Lv (CHINA)**
Investigation of the mixing and granulation behavior of iron ore fines in horizontal high-shear granulator

Thursday, October 19, 2023

Session 3 - Oral presentations

Thursday, October 19, 2023 at 17:00 – 18:10, Room B

Chairpersons: *Saša Stojadinović, Jovica Sokolović, Jelena Ivaz*

Oral presentations 3 - 17:00 – 18:10

1. **Desislav Ivanov, Irena Peytcheva, Marko Holma (BULGARIA)**
Horizon Europe AGEMERA project - Agile Exploration and Geo-modelling for European Critical Raw Materials: The potential of Assarel porphyry copper deposit for critical raw materials
2. **Branislav Potić, Ana Arifović (SERBIA)**
The metallurgical testing results of the boron mineralized material from Valjevo-Mionica basin
3. **Hasan Ali Taner, Vildan Onen (TURKEY)**
Evaluation of the efficiency of different collectors in the chalcopryrite flotation
4. **Zoran Stevanović, Radmila Marković, Ljiljana Avramović, Vojka Gardić, Jelena Petrović, Dragana Božić (SERBIA)**
Sustainable and smart mining
5. **Daniel Ogochukwu Okanigbe, Shade Rouxzeta Van Der Merwe (SOUTH AFRICA)**
Rocks of Obafemi Awolowo University and Environ, Nigeria: structural analysis of geological contact
6. **Duško Đukanović, Nemanja Đokić, Zoran Aksentijević, Daniel Radivojević, Branislav Stakić (SERBIA)**
Methane as an untapped energy potential of the "Soko" brown coal mine
7. **Hasan Ali Taner, Ali Aras, Muhammad Hashim Rasa (TURKEY)**
Investigation of the effect of depressant and collector conditioning times on cobalt recovery by flotation

Friday, October 20, 2023

Session 4 - Oral presentations

Friday, October 20, 2023 at 15:00 – 16:40, Room A

Chairpersons: Ridvan Yamanoglu, Ivana Marković, Vaso Manojlović

Invited lecture 5 - 15:00 – 15:20

1. **Ridvan Yamanoglu** (TURKEY)

Production of metal-based powders by atomization techniques

Oral presentations 4 - 15:20 – 16:40

1. **Esra Dokumaci Alkan, Nurdan Ari, Murat Alkan** (TURKEY)

A coating application of IN718 via self-propagating high-temperature synthesis method

2. **Vaso Manojlović, Miroslav Sokić, Gordana Marković, Jovana Ružić, Dušan Milojkov** (SERBIA)

Designing biocompatible high entropy alloys using Monte Carlo simulations

3. **Muhamad Ghulam Isaq Khan, Filip Rajković, Miljana Popović, Dejan Prelević, Aleksandar Ćitić, Tamara Radetić** (SERBIA)

Initiation of abnormal grain growth in cold-rolled sheet of AA5182 Al-Mg alloy: role of texture

4. **Ordinartsev Denis, Nadezhda Pechischeva, Svetlana Estemirova, Andrey Rempel** (RUSSIA)

Cr(VI) photosorption on composite sorbent of montmorillonite with amorphous TiO₂

5. **Uğur Gürol, Ceren Çelik, Müesser Göçmen, Mustafa Koçak** (TURKEY)

Microstructural and mechanical characterization of armor steel joint welded with sandwich design

6. **Murat Alkan, Esra Dokumaci Alkan, Dilan Ugurluer, Aslihan Karakanat** (TURKEY)

Production of AlCoCrCuXFeNi alloys via self-propagating high-temperature synthesis method

7. **Saba Nourozi, Fatemeh Poursagharian, Ahmad Khodadadi Darban** (IRAN)

Recovery of copper from low-grade copper ore using organic acid

Friday, October 20, 2023

Session 5 - Oral presentations

Friday, October 20, 2023 at 15:00 – 15:50, Room B

Chairpersons: Dejan Petrović, Miomir Mikić, Zoran Štirbanović

Oral presentations 5 - 15:00 – 15:50

1. **Ivan Jelić**, Nikola Lekić, Nikola Stanić, Miomir Mikić (SERBIA)
Selection of an optimal route for relocation of the Čehotina river bed
2. **Daniel Kržanović**, Radmilo Rajković, Ivana Jovanović, Milenko Jovanović, Miomir Mikić (SERBIA)
Determination the final contour of the open pit Veliki Krivelj for the mining capacity 23.1 million tons of ore
3. **Mohammed Derqaoui**, Abdelmoughit Abidi, Abdelrani Yaacoubi, Khalid El Amari, Omar Oabi, Abdelaziz Bacaoui (MOROCCO)
Apatite flotation from low-grade sedimentary phosphate ore
4. **Bojana Živković**, Jelisaveta Marjanović, Jelena Đokić, Maja Petrović (SERBIA)
Soil and rock properties as a basis for the sanitary landfill

Friday, October 20, 2023

Session 6 - Oral presentations

Friday, October 20, 2023 at 17:00 – 18:30, Room A

Chairpersons: Milan Gorgievski, Milena Zečević, Marija Petrović Mihajlović

Invited lecture 6 - 17:00 – 17:20

1. **Yong Du, Rainer Schmid-Fetzer, Jincheng Wang, Shuhong Liu, Jianchuan Wang, Qiang Lu, Yuhui Zhang, Kai Li (CHINA, GERMANY)**
Computational design of engineering materials: case studies for a cemented carbide and a heat resistant Al alloy

Oral presentations 6 - 17:20 – 18:30

1. **Srba Mladenović, Bojan Novaković, Ivana Marković, Uroš Stamenković (SERBIA)**
Effect of casting speed and water flow on tensile strength, elongation and microstructure of continuous cast copper wire
2. **Ivana Mikavica, Dragana Randelović, Milena Obradović, Jovica Stojanović, Jelena Mutić (SERBIA)**
Microplastic textile fibers in urban soils of Serbia
3. **Zoran Karastojković, Dragoslav Gusković, Ognjen Ristić, Zorica Kovačević (SERBIA)**
About the “relative plasticity” between steel matrix and non-metallic inclusions
4. **Uroš Stamenković, Ivana Marković, Srba Mladenović, Saša Marjanović, Avram Kovačević, Milijana Mitrović, Filip Basarabić (SERBIA)**
The influence of quenching media on different properties of C45 carbon steel
5. **Marko Pavlović, Marina Dojčinović, Muhamed Harbinja, Atif Hodić, Dragan Radulović, Mirjana Stojanović, Zagorka Aćimović (SERBIA, BOSNIA AND HERZEGOVINA)**
Effects of the application of pyrophyllite in the composition of protective coatings
6. **Shehret Tilvaldyev, Uzziel Caldiño Herrera, Jose Omar Davalos, Manuel Alejandro Lira Martinez, Marlenne Alejandra Hernandez Lira, Diego Adan Villordo Melendez (CANADA)**
Problems of anthropogenic pollution of space
7. **Olivera Dragutinović, Vaso Manojlović, Đorđe Veljović, Stefan Dikić, Marko Simić (SERBIA)**
Investigation of the properties of Co-Cr-W and Co-Cr-Mo alloys coated with hydroxyapatite for use in dental implants

Poster presentations

Thursday, October 19, 2023

Poster Section 1

Thursday, October 19, 2023 at 18:20 – 19:00, Hotel lobby

Chairpersons: Ana Simonović, Anđelka Stojanović, Maja Nujkić

1. **Žarko Radović, Nebojša Tadić** (MONTENEGRO)
Analytical simulation of EAF dust enrichment
2. **Nebojša Tadić, Žarko Radović** (MONTENEGRO)
Thermal and mechanical relaxation of residual stresses in cold rolled aluminium alloy strips
3. **Dragan Šabaz, Miloš Stojanović, Dejan Petrović** (SERBIA)
Selection of anchor type using AHP method
4. **Miloš Stojanović, Veljko Lapčević, Ivica Vojinović** (SERBIA)
Blast fragmentation analysis in Jama Bor by using WipFrag software
5. **Jelena Đorđević, Jelena Stefanović, Sandra Guševac, Ivan Jelić, Stefan Trujić** (SERBIA)
Life cycle analysis (LCA) of asphalt layers containing recycled asphalt pavement
6. **Jelena Ivaz, Dejan Petrović, Predrag Stolić, Mladen Radovanović, Dragan Zlatanović, Saša Stojadinović, Pavle Stojković** (SERBIA)
Occupational injuries in underground coal mining: statistical analysis of data
7. **Jelena Ivaz, Dejan Petrović, Mladen Radovanović, Dragan Zlatanović, Saša Stojadinović, Pavle Stojković** (SERBIA)
Prediction of methane emissions in coalmine - Soko
8. **Dragan Manasijević, Ljubiša Balanović, Ivana Marković, Uroš Stamenković** (SERBIA)
Latent heat of some aluminium based phase change alloys for thermal energy storage
9. **Anđelka Stojanović, Ivica Nikolić, Isidora Milošević** (SERBIA)
Position of European countries in sustainable resource management
10. **Aleksandar Đorđević, Duško Minić, Milena Zečević, Dragan Manasijević** (SERBIA)
Mechanical and electrical properties of the ternary Ag-Ge-Sn alloys
11. **Milena Zečević, Duško Minić, Aleksandar Đorđević, Dragan Manasijević** (SERBIA)
Effect of chemical composition on the corrosion resistance of the ternary Ag-Ge-Sn alloys

12. **Viša Tasić**, Tatjana Apostolovski-Trujić, Bojan Radović, Nevena Ristić, Tamara Urošević, Vladan Kamenović, Zvonko Damnjanović (SERBIA)
Air quality measurements in the Bor city during the reconstruction of the copper smelter Bor in 2022
13. **Slavica Miletić**, Biserka Trumić, Suzana Stanković (SERBIA)
Application of control charts in the laboratory for testing the metallic materials
14. **Ljiljana Avramović**, Zoran Stevanović, Vanja Trifunović, Radmila Marković, Dragana Božić, Daniela Urošević, Silvana Dimitrijević (SERBIA)
Hydrometallurgical treatment of mining waste from Bor - Serbia in aim of copper recovery
15. **Vladan Marinković**, Miroslava Maksimović, Milenko Jovanović, Goran Pačkovski (SERBIA)
The use of unmanned aerial vehicles for making the precise 3D topo models and orthophoto images
16. **Dejan Tanikić**, Andela Stojić, Jelena Đoković, Miloš Stoljiljković (SERBIA)
Mechanical characteristics of the shape memory alloy Cu-Zn-Al
17. **Ljiljana Avramović**, Vanja Trifunović, Zoran Stevanović, Radmila Marković, Dragana Božić, Dejan Bugarin, Silvana Dimitrijević (SERBIA)
Copper recovery from RE-flotation tailings by combined process
18. **Milenko Jovanović**, Daniel Kržanović, Radmilo Rajković, Vladan Marinković, Miroslava Maksimović, Miomir Mikić (SERBIA)
Application of hybrid geogrids in mining
19. **Stefan Trujić**, Miroslava Maksimović, Vladan Marinković, Ljiljana Avramović, Vanja Trifunović, Dragana Božić (SERBIA)
Geological exploration of the technogenic deposit - old flotation tailing pit - Bor with the possibility of leaching
20. **Jovan P. Šetrajčić**, **Siniša M. Vučenović** (BOSNIA AND HERZEGOVINA)
Modified basic properties of electrons in layered nanocrystals with a complex lattice
21. **Irena Nikolić**, Milena Tadić, Dijana Đurović, Nevena Cupara, Ivana Milašević (MONTENEGRO)
Kinetic and thermodynamic aspects of strontium adsorption by steelmaking slag
22. **Miomir Mikić**, Milenko Jovanović, Sandra Milutonović, Daniel Kržanović, Radmilo Rajković (SERBIA)
New flotation plant Veliki Krivelj monitoring plan
23. **Miomir Mikić**, Radmilo Rajković, Daniel Kržanović, Sandra Milutinović (SERBIA)
Recultivation of open pit Veliki Krivelj
24. **Farzet Bikić**, Khaola Awad, Halim Prcanović, Mirnes Duraković (BOSNIA AND HERZEGOVINA)
Analysis of influenced factors on tropospheric ozone content in the city of Zenica during 2020

25. **Sandra Milutinović, Ljubiša Obradović, Daniel Kržanović, Miomir Mikić, Radmilo Rajković** (SERBIA)
Flotation tail storage methods
26. **Sandra Milutinović, Milena Kostović, Ljubiša Obradović, Srđana Magdalinović, Sanja Petrović** (SERBIA)
Methods of transportation and discharge of tails to flotation tailings pond
27. **Branka Pešovski, Milan Radovanović, Vesna Krstić, Danijela Simonović, Silvana Dimitrijević** (SERBIA)
Electrochemical characteristics of the anodized titanium oxide films in sulfuric acid
28. **Žaklina Tasić, Marija Petrović Mihajlović, Ana Simonović, Milan Radovanović, Maja Nujkić, Milan Antonijević** (SERBIA)
Electrochemical methods for the determination of tryptophan and caffeine
29. **Isidora Milošević, Anđelka Stojanović, Sanela Arsić, Ivica Nikolić, Ana Rakić** (SERBIA)
Circular economy in the era of Industry 5.0
30. **Almaida Gigović-Gekić, Elvis Agović, Belma Fakić, Hasan Avdušinović** (BOSNIA AND HERZEGOVINA)
Effect of delta ferrite on microstructure and hardness welded joints of steel S21800
31. **Radmila Marković, Dragana Božić, Zoran Stevanović, Tatjana Apostolovski Trujić, Vojka Gardić, Ljiljana Avramović, Vesna Marjanović** (SERBIA)
Combining neutralization and adsorption methods for metals removal from Saraka stream
32. **Danijela Voza, Hesam Dehghani, Milica Veličković** (SERBIA)
The dissolved oxygen prediction based on the machine learning techniques
33. **Zdenka Stanojević Šimšić, Ana Kostov, Aleksandra Milosavljević, Slavica Miletić** (SERBIA)
Experimental investigations of CuAlNi alloys with 70 at%Cu
34. **Ana Kostov, Aleksandra Milosavljević, Zdenka Stanojević Šimšić, Ivan Jovanović** (SERBIA)
Determination of melt properties in Cu-Fe alloys
35. **Vladimir Nikolić, Milan Trumić** (SERBIA)
A simple method of determining of bond work index for finer samples
36. **Ivan Jovanović, Novica Staletović** (SERBIA)
Management of risk assessment in environmental protection in surface copper mine
37. **Jovan P. Šetrajčić, Stevo K. Jaćimovski, Siniša M. Vučenović** (BOSNIA AND HERZEGOVINA)
Possibility of localized electron states appearance in ultrathin layered crystalline structures
38. **Jovica Sokolović, Ivana Ilić, Dragiša Stanujkić, Zoran Štirbanović** (SERBIA)
Application of VIKOR method for comparison of the washability of coals
39. **Vladan Kašić, Ana Radosavljević Mihajlović, Jovica Stojanović, Slavica Mihajlović, Melina Vukadinović, Nataša Đorđević, Ivana Jelić** (SERBIA)
Study of thermally treated zeolitic tuffs of Serbia, deposits "Zlatokop" and "Općiste"-Beočin

Poster presentations

Friday, October 20, 2023

Poster Section 2

Friday, October 20, 2023 at 18:30 – 19:00, Hotel lobby

Chairpersons: Vesna Grekulović, Uroš Stamenković, Jelena Milosavljević

1. **Vladimir Jovanović, Dejan Todorović, Branislav Ivošević, Dragan Radulović, Sonja Milićević, Marija Ercegović, Slavica Mihajlović (SERBIA)**
The process of obtaining biochar and the development of the products thus obtained
2. **Dragan Ignjatović, Lidija Đurdevac Ignjatović, Vanja Đurdevac, Katarina Milivojević, Ivan Jovanović (SERBIA)**
Application of the numerical method in the definition of a substrate of circular cross section
3. **Dragan Ignjatović, Lidija Đurdevac Ignjatović, Vanja Đurdevac, Mladen Supić, Dušan Tašić (SERBIA)**
Influence of the subsoil bearing capacity during formation of high landsfills
4. **Milan Gorgievski, Miljan Marković, Nada Štrbac, Vesna Grekulović, Kristina Božinović, Milica Zdravković, Marina Marković (SERBIA)**
Adsorption kinetics for copper ions adsorption onto onion peels
5. **Maria Krasteva (BULGARIA)**
Methodology and equipment for researching corrosion cracking processes in steel 3H14L (BDS 3692-78)
6. **Jasmina Nešković, Pavle Stjepanović, Nenad Milojković, Dejan Lazić, Klara Konc Janković, Svetlana Polavder, Ivana Jovanović (SERBIA)**
Testing the Bond work index on limestone from flue gas desulphurization plant in TPP Ugljevik
7. **Nadezhda Kazakova, Alexandar Popov, Georgi Chernev (BULGARIA)**
Influence of the distribution and content of limestone particles on the properties of blended cements
8. **Vesna Grekulović, Aleksandra Mitovski, Milica Zdravković, Nada Štrbac, Milan Gorgievski, Milovan Vuković, Miljan Marković (SERBIA)**
Electrochemical behavior of copper in chloride medium in the presence of nettle extract
9. **Mladen Radovanović, Dejan Petrović, Jelena Ivaz, Dragan Zlatanović (SERBIA)**
Possibility of copper ores exploitation using in situ leaching method

10. **Milica Zdravković**, Vesna Grekulović, Bojan Zdravković, Nada Štrbac, Milan Gorgievski, Miljan Marković (SERBIA)
Electrochemical behavior of steel in 0.1 mol/dm³ HCl in the presence of potato peel juice
11. **Ivana Marković**, Dalibor Jović, Uroš Stamenković, Dragan Manasijević, Ljubiša Balanović, Milan Gorgievski (SERBIA)
Microstructure and thermal properties of leaded brass after quenching
12. **Jovica Sokolović**, Grozdanka Bogdanović, Velizar Stanković, Gracijan Strainović, Ivana Ilić, Milan Gorgievski, Miljan Marković (SERBIA)
Investigation on beneficiation of iron from copper ore of Mauritania Copper Mine (MCM) by magnetic separation
13. **Vesna Conić**, Dragana Božić, Miodrag Janošević, Ljiljana Avramović, Vanja Trifunović, Dejan Bugarin, Ivan Jovanović (SERBIA)
A pyro-hydrometallurgical process for the recovery of zinc from jarosite waste
14. **Maria Krasteva**, Rumen Petkov (BULGARIA)
Research the rate of chemical corrosion of steel 3X14H2 (BDS 3692-78)
15. **Nadira Bušatlić**, Ilhan Bušatlić, Dženana Smajić-Terzić (BOSNIA AND HERZEGOVINA) *Dependence of compressive strength of geopolymers based on fly ash and alkaline activator ratio*
16. **Dragana Marilović**, Grozdanka Bogdanović, Sanja Petrović (SERBIA)
Leaching of flotation tailings with a solution of sulfuric acid and ionic liquid
17. **Ivana Jovanović**, Vesna Conić, Dragan Milanović, Daniel Kržanović, Tanja Stanković, Daniela Urošević, Miloš Janošević (SERBIA)
Determination of Bond rod mill work index of a very low-grade copper ore
18. **Aleksandar Cvetković**, Žaklina Tasić, Marija Petrović Mihajlović, Maja Nujkić, Milan Radovanović, Ana Simonović (SERBIA)
Microplastics
19. **Sanja Petrović**, Srdana Magdalinović, Ljubiša Obradović, Sandra Milutinović, Bojan Drobnjaković, Slađana Krstić (SERBIA)
Tailing management: tailings filtering equipment
20. **Jelena Stefanović**, Jelena Đorđević, Sandra Guševac (SERBIA)
XRD analysis of corrosion product formed in an industrial aggressive environment
21. **Ana Petrović**, Radmila Marković, Emina Požega (SERBIA)
CNTs as potential material for wastewater purification: a review
22. **Ivana Jovanović**, Dragan Milanović, Oliver Dimitrijević, Vesna Conić, Igor Svrkota (SERBIA)
Role of wing tank in DMS process. Suspension velocity through the seal leg orifice – case study

23. **Dejan Petrović**, Jelena Ivaz, Saša Stojadinović, Predrag Stolić, Dragan Zlatanović (SERBIA)
Risk management and mining machines maintenance – A brief review
24. **Stefan Đordjević**, Dragana Adamović (SERBIA)
History of surface water pollution by mining and metallurgical activities in Bor, Serbia
25. **Aleksandar Jovanović**, Mladen Bugarčić, Milena Milošević, Marija Vuksanović, Muna Abdualatif Abduarahman, Miroslav Sokić, Aleksandar Marinković (SERBIA, LIBYA)
Modified hybrid cellulose membrane for Nickel(II) ions removal from industrial wastewater
26. Elena Todorova, **Nadezhda Kazakova**, Georgi Chernev (BULGARIA)
Structural investigation via SEM analysis of silica hybrid materials
27. **Tanja Kalinović**, Jelena Kalinović, Jelena Milosavljević, Ana Radojević, Snežana Šerbula (SERBIA)
Atmospheric bulk deposition as environmental quality indicator
28. **Milan Nedeljković**, Srba Mladenović, Jasmina Petrović, Milijana Mitrović (SERBIA)
Changes in the structure and density of copper during the refining smelting process
29. **Jasmina Petrović**, Srba Mladenović, Ivana Marković, Milan Nedeljković, Milijana Mitrović (SERBIA)
Microstructure analysis of EN AW 6061 alloy using a SEM microscope after artificial aging
30. **Milijana Mitrović**, Saša Marjanović, Biserka Trumić, Jasmina Petrović, Milan Nedeljković (SERBIA)
Effects of cold rolling and annealing processes on the microstructure and properties of micro-alloyed copper
31. **Zoran Štirbanović**, Vesna Vojinović, Jovica Sokolović, Maja Trumić (SERBIA)
Analysis of the effectiveness of different methods for cutting samples
32. **Ivica Nikolić**, Isidola Milošević, Anđelka Stojanović (SERBIA)
Land turnover increases due to mining: An empirical analysis of Bor, Serbia, 2013-2022.
33. **Mikhail Korovkin**, Ludmila Ananyeva, Andrey Zherlitsyn, Sergey Kondratyev, Olesya Savinova (RUSSIA)
Electro-pulse crushing in high-purity quartz production
34. **Veljko Lapčević**, Toma Jovičić, Slavko Torbica (SERBIA)
Mine ventilation model validation by PQ survey
35. Nataša Sarap, **Marija Janković**, Vojislav Stanić, Ivana Jelić, Marija Šljivić-Ivanović (SERBIA)
Analysis of gross alpha and gross beta activity in samples around former uranium mine Gabrovnica

36. **Tatiana Aleksandrova**, Nadezhda Nikolaeva (RUSSIA)
Extraction of low-dimensional structures of nonferrous and noble metals from refractory raw materials
37. **Snežana Ignjatović**, Ivana Vasiljević, Branislav Sretković, Milanka Negovanović (SERBIA) *Using gravity data to define structural correlation affecting the formation of Neogene basins*
38. **Mistreanu Sebastian**, Ramona Cimpoeșu, Dragoș Achitei, Mihai Popa, Daniela Lucia Chicet, Vasile Manole, Ana-Maria Scripcariu, **Nicanor Cimpoeșu** (ROMANIA)
Sandblasting process influence on stainless steel cutting element properties
39. **Đorđe Petrović**, Katarina Stanković, Latinka Slavković Beškoski, Ksenija Kumrić (SERBIA)
Removal of Cu(II) from aqueous solutions using adsorbent based on chitosan hydrogel beads
40. **Jelena Petrović**, Marija Ercegović, Marija Simić, Marija Koprivica, Jelena Dimitrijević, Marija Marković (SERBIA)
Mg/Fe-modified hydrochar with promoted adsorption performances
41. **Biljana Zlatičanin**, Sandra Kovačević (MONTENEGRO)
Impact of titanium addition on microstructure and properties of as-cast Al-Cu15 alloys
42. **Biljana Zlatičanin**, Sandra Kovačević (MONTENEGRO)
Effect of cooling rate on mechanical properties of binary Al-Cu23 alloys
43. **Essen Suleimenov**, **Rustam Sharipov**, Galymzhan Maldybayev, Zhibek Orazaliyeva (KAZAKHSTAN)
Investigation of the influence of pulsed electric current on the efficiency of decomposition of aluminate solution
44. **Lovro Liverić**, Tamara Holjevac Grgurić, Sunčana Smokvina Hanza, Wojciech Sitek, Vedrana Špada, Marko Kršulja (CROATIA)
Influence of silver content on martensitic transformation of Cu-Al-Ag alloy
45. **Gergana Meracheva**, Efrosima Zaneva-Dobranova, Nikolay Hristov (BULGARIA)
Hydrocarbon potential of the Lower Paleozoic sediments in NE Bulgaria by geochemistry and well-logging
46. **Hasan Acan**, Hasan Ergin (TURKEY)
A novel model for minimizing mine closure costs and the optimum final quarry boundary
47. **Makedonka Dimitrova**, Jasminka Dimitrova Kapac (MACEDONIA)
Unlocking energy efficiency: financing preferences for SMEs in the Republic of North Macedonia

UNIVERSITY OF BELGRADE, TECHNICAL FACULTY IN BOR



FINAL PROGRAM

8TH INTERNATIONAL STUDENT CONFERENCE ON TECHNICAL SCIENCE, ISC 2023
20-21 October 2023, Bor Lake, Serbia

Is organized by

UNIVERSITY OF BELGRADE, TECHNICAL FACULTY IN BOR

and co-organized by

University of Zenica, Faculty of engineering and natural sciences, Zenica, Bosnia and Herzegovina

**University in Priština, Faculty of Technical Science, Kosovska Mitrovica,
Serbia;**

University of Montenegro, Faculty of Metallurgy and Technology, Podgorica, Montenegro;

University of Tuzla, Faculty of Technology, Tuzla, Bosnia and Herzegovina;

**University of Chemical Technology and Metallurgy, Faculty of Metallurgy and Material Science,
Sofia, Bulgaria;**



FINAL PROGRAM

Friday, October 20, 2023

- 14:00-15:00** Conference desk opening and registration of participants, Putting up posters for Poster Session – Hotel lobby
- 15:00-15:10** Conference opening - Room C
- 15:10-15:30** Invited lecture - Room C
- 15:30-16:45** Oral Session 1 - Room C
- 16:45-17:15** *Coffee break*
- 17:15-18:15** Poster Session 1 – Hotel lobby

Saturday, October 21, 2023

- 11:00-12:45** Oral Session 2 - Room C
- 12:45-13:00** Conference closing - Room C

Friday, October 20, 2023

15:10-16:45

Oral Session 1 - Room C

Chairpersons:

Dragan Manasijević, Ljubiša Balanović, Milan Gorgievski

-
1. Invited lecture: **Yuhui Zhang, Shuhong Liu, Yuling Liu**; Mentor: **Yong Du** (China)
MICROSTRUCTURAL SIMULATION OF AGEING PRECIPITATION BASED ON THE
DIFFUSION STUDY OF THE HCP_A3 PHASE IN Mg-Al-Sn ALLOYS
 2. Student: **Marina Marković**; Mentor: **Milan Gorgievski** (Serbia)
REMOVAL OF COPPER IONS FROM AQUEOUS SOLUTIONS USING ONION PEELS
AS AN ADSORBENT
 3. Student: **Aleksandra Radić**; Mentor: **Danijela Voza** (Serbia)
METHODS FOR PRIORITISATION OF SUSTAINABLE DEVELOPMENT GOALS (SDGS)
- AN OVERVIEW
 4. Student: **Marija Kovač**; Mentor: **Snežana Vučetić** (Serbia)
NON-DESTRUCTIVE TESTING OF INORGANIC MATERIALS AS
DECISION TOOL IN CULTURAL HERITAGE
 5. Student: **Aleksandar Nikolajević**; Mentor: **Ljubiša Balanović** (Serbia)
CHARACTERIZATION OF COPPER ALLOYS MANUFACTURED IN SEVOJNO COPPER
MILL
-

17:15-18:15

Poster Session 1 - Room C

Chairpersons:

Uroš Stamenković, Jelena Milosavljević, Maja Nujkić

-
1. Students: **Nizama Baručija, Resul Čehajić, Mahir Dreco**; Mentors: **Almaida Gigović-Gekić, Amna Hodžić** (Bosnia and Herzegovina)
INFLUENCE OF MIXING OF QUENCHING MEDIA ON MICROSTRUCTURE AND
HARDNESS OF STEEL 23MnB4
 2. Students: **Mahir Dreco, Armin Čaušević**; Mentors: **Branka Muminović, Behar Alić, Almaida Gigović-Gekić** (Bosnia and Herzegovina)
TESTING OF WELDED JOINTS WITH LIQUID PENETRANTS
 3. Students: **Vedran Milanković, Tamara Tasić**; Mentor: **Tamara Lazarević-Pašti** (Serbia)
REMOVAL OF CHLORPYRIFOS AND MALATHION USING SPENT COFFEE GROUNDS
– ISOTHERM STUDY
 4. Student: **Milena Stajić**; Mentor: **Uroš Stamenković** (Serbia)
EFFECT OF THE AUSTENITIZING TEMPERATURE ON THE PROPERTIES OF 51CrV4
SPRING STEEL
 5. Students: **Željka Nikolić, Nebojša Radović**; Mentor: **Olga Tešović** (Serbia)
WHY SHOULD USED CREOSOT IMPREGNATED WOOD WASTE
BE CHARACTERIZED AS HAZARDOUS?
 6. Students: **Nebojša Radović, Željka Nikolić**; Mentor: **Ksenija Stojanović** (Serbia)
CAPTURING SULFUR DIOXIDE AT ITS SOURCE: SIMPLE AND
EFFICIENT METHOD FOR SAMPLING AND QUANTIFICATION
-

7. Student: **Milan Nedeljković**; Mentors: **Srba Mladenović, Jasmina Petrović** (Serbia)
STUDIES OF THE INFLUENCE OF GRAPHENE NANOSHEETS ON THE WETTABILITY OF LEAD-FREE SOLDER ALLOYS
8. Students: **Tamara Tasić, Vedran Milanković**; Mentor: **Tamara Lazarević-Pašti** (Serbia)
ACTIVATED POROUS CARBON MATERIALS DERIVED FROM VISCOSE FIBERS FOR CHLORPYRIFOS REMOVAL FROM WATER
9. Students: **Veljko Pelić, Sandra Milićević**; Mentors: **Žaklina Tasić, Maja Nujkić** (Serbia)
THE EFFICIENCY OF NICKEL ION ADSORPTION FROM SYNTHETIC SOLUTIONS USING MULLEIN
10. Students: **Sandra Milićević, Veljko Pelić**; Mentors: **Maja Nujkić, Žaklina Tasić** (Serbia)
THE EFFICIENCY OF ZINC ION ADSORPTION FROM SYNTHETIC SOLUTIONS USING MULLEIN
11. Student: **Andreja Grujić**; Mentor: **Srba Mladenović** (Serbia)
APPLICATION OF SOFTWARE PACKAGES IN THE VISUALIZATION OF THE CASTING PROCESS-EXPERIENCE
12. Students: **Jovana Mitrović, Milica Borisavljević, Vanja Milovanović, Predrag Radulović**; Mentor: **Filip Miletić** (Serbia)
ANALYSIS OF WORKING EFFICIENCY OF THE BUCKET WHEEL EXCAVATOR SCHRS 1400.28/3 ON OPEN CAST MINE FIELD C
13. Students: **Marko Krpić, Aleksandar Đorđević**; Mentor: **Boris Rajčić** (Serbia)
INVESTIGATION ON THE CO₂ BREAKTHROUGH BEHAVIOUR OF DIFFERENT MATERIALS
14. Students: **Željka Nikolić, Adrijana Šutulović, Boris Rajčić, Dubravka Milovanović, Vladimir Nikolić, Zoran Šaponjić**; Mentor: **Milica Marčeta** (Serbia)
TRACKING THE ABSORPTION ABILITY OF EXHAUST GASES MODEL MIXTURE USING AN AQUEOUS SOLUTIONS OF NaOH AND KOH
15. Students: **Nebojša Radović, Željka Nikolić**; Mentor: **Olga Tešović** (Serbia)
MANAGING THE HAZARDOUS CHEMICAL WASTE IN LABORATORIES: ARE WE ON THE RIGHT PATH?
16. Students: **Marija Divac, Lana Mitrovic, Jovana Milosevic, Marko Rakita**; Mentor: **Filip Miletić** (Serbia)
MODELLING AND STRESS ANALYSIS OF MACHINE ELEMENTS IN SOLIDWORKS SOFTWARE
17. Student: **Vesna Miljić**; Mentors: **Bojan Miljević, Snežana Vučetić** (Serbia)
VISIBLE-LIGHT PHOTOCATALYTIC DEGRADATION OF MODEL POLLUTANT (M-METHYL ORANGE) IN SOLID-STATE
18. Student: **Avram Kovačević**; Mentor: **Uroš Stamenković** (Serbia)
COMPARATIVE ANALYSIS OF TENSILE STRENGTH IN EN-AW 7075 ALUMINUM ALLOY: EMPIRICAL VS. THEORETICAL ASSESSMENT
19. Student: **Miljan Pankalujć**; Mentor: **Ivana Marković** (Serbia)
PROPERTIES OF SOME COINS IN CIRCULATION FROM SERBIA
20. Student: **Nemanja Marić**; Mentor: **Ivana Marković** (Serbia)
STUDY OF ISOTHERMAL AGEING IN Cu-Al-Ni-Fe ALLOY
21. Student: **Olivera Dragutinović**; Mentors: **Đorđe Veljović, Vaso Manojlović** (Serbia)
INVESTIGATION OF THE EFFECTS OF Ca/P RATIO AND DIFFERENT POLYMER-BASED COATINGS ON THE PROPERTIES OF MACROPOROUS CALCIUM PHOSPHATE MATERIALS

-
22. Student: **Ognjen Stanković**; Mentors: **Milovan Stanković, Mirjana Filipović, Vaso Manojlović** (Serbia)
THE FAVORABLE INFLUENCE OF Ni ON THE REDUCTION OF SEGREGATIONS DURING SOLIDIFICATION OF LEAD-TIN BRONZES CuSn10Pb10
-
23. Student: **Nemanja Prvulović**; Mentor: **Ana Radojević** (Serbia)
RECYCLING OF END-OF-LIFE VEHICLES
-
24. Student: **Dalibor Jovanović**; Mentor: **Milan Gorgievski** (Serbia)
REMOVAL OF COPPER IONS FROM AQUEOUS SOLUTIONS USING HAZELNUT SHELLS AS AN ADSORBENT
-

Saturday, October 21, 2023

11:00-12:45 Oral Session 2 - Room C

Chairpersons: Ljubiša Balanović, Jelena Milosavljević, Uroš Stamenković

-
1. Students: **Nizama Baručija, Armin Čaušević, Merjem Delibašić**; Mentor: **Hasan Avdušinić** (Bosnia and Herzegovina)
INFLUENCE OF GRAPHITE MORPHOLOGY ON THERMAL CONDUCTIVITY
-
2. Student: **Alexandr Chesnyak**; Mentor: **Tamara Tikhomirova** (Russia)
WAYS TO SOLVE ALTERNATIVE ENERGY SOURCES
-
3. Student: **Nikolay Palienko**; Mentor: **Tamara Tikhomirova** (Russia)
DEVELOPMENT OF GEOTHERMAL ENERGY IN THE WORLD
-
4. Student: **Andrey Slyunkin**; Mentor: **Tamara Tikhomirova** (Russia)
THE USE OF BIOENERGY RESOURCES IN THE PRODUCTION OF ELECTRICITY
-
5. Students: **Alida Kusić, Ilma Bošnjak**; Mentor: **Miliša Todorović** (Bosnia and Herzegovina)
SAFETY AND HEALTH IN COKING PLANTS THROUGH THE APPLICATION OF ENGINEERING MEASURES
-
6. Student: **Edita Bjelić**; Mentors: **Mersiha Suljkanović, Jasmin Suljagić** (Bosnia and Herzegovina)
HYDROPHOBIC DEEP EUTECTIC SOLVENTS: PROMISING GREEN MEDIA FOR BIOMASS TREATMENT
-
7. Student: **Miloš Vuleta**; Mentor: **Jasmina Petrović** (Serbia)
CONSIDERATION OF THE INFLUENCE OF STIR CASTING PROCESS PARAMETERS ON OBTAINING MMC CASTINGS
-

Platinum Donors



Gold Donors



HBIS SERBIA



Silver Donor



Exhibitions



REFRATEC

Foundry of non-ferrous metals
Buntmetall giesserei



Friends



LOLA INSTITUT

DONCAFÉ



DONAU LAB BEOGRAD



THE FOUNDATION
'B.SC. ENG. BOŠKO INJAC'