

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;**

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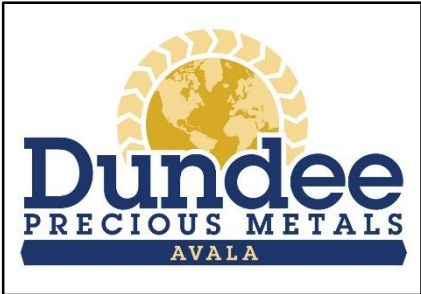
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FINAL PROGRAM

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

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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*
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17:15-18:15 **Poster Session 1** – Hotel lobby

Chairpersons: Uroš Stamenković, Jelena Milosavljević, Maja Nujkić

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1. *Students: Nizama Baručija, Resul Čehajić, Mahir Dreco; Mentors: Almida 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 Mitrović, Jovana Milosevic, Marko Rakita; Mentor: Filip Miletić (Serbia)*
MODELLING AND STRESS ANALYSIS OF MACHINE ELEMENTS IN SOLIDWORKS SOFTWARE
-

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17. Student: **Vesna Miljić**; Mentors: **Bojan Miljević, Snežana Vučetić** (Serbia)
VISIBLE-LIGHT PHOTOCATALYTIC DEGRADATION OF MODEL POLLUTANT (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 Pankalujić**; 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
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Saturday, October 21, 2023

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

Chairpersons: Ljubiša Balanović, Jelena Milosavljević, Uroš Stamenković

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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
-

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