



5th INTERNATIONAL STUDENT CONFERENCE ON TECHNICAL SCIENCES

28 September - 1 October 2018, Technical Faculty in Bor, Serbia

FINAL PROGRAM

Friday, September 28, 2018

**13:00 – 14:00 – Conference desk opening /
Registration of participants** – *Faculty amphitheater lobby*

18:00 – 20:00 – BONIS visiting – *Gathering in front of House of culture*

Saturday, September 29, 2018

**09:00 – 10:00 – Conference desk opening /
Registration of participants** – *Faculty amphitheater lobby*

10:00 – 10:15 – Conference opening – *Faculty amphitheater*

10:15 – 11:30 – Oral session – *Faculty amphitheater*

11:30 – 12:30 – Cocktail

12:30 – 13:30 – Poster session – *Faculty amphitheater lobby*

17:00 – 20:00 – City tour

The duration of oral presentations is supposed to be up to 8 min plus 2 min for questions and discussion. We kindly ask students to keep strictly to this time limit.

Sunday, September 30, 2018

10:00 – 11:30 – Technical Faculty in Bor visiting – *Faculty laboratories*

11:30 – 12:00 – Coffee break

12:00 – 14:00 – Open pit Bor visiting

Monday, October 1, 2018

09:00 – 09:15 – Closing of the ISC2018 – *Faculty amphitheater*

Saturday, September 29, 2018

10:15 – 11:30 – Oral session – Faculty amphitheater

Chairpersons: Ilhan Bušatlić, Nada Štrbac, Duško Minić

1. Student: **Senka Čelik**, Mentor: Farzet Bikić (Zenica, Bosnia and Herzegovina)
TESTING THE INFLUENCE FACTORS ON THE ANALYTICAL SIGNAL STRENGTH IN DIFFERENTIAL PULSE ANODIC STRIPPING VOLTAMMETRY
2. Students: **Arijana Arifović, Aida Travančić**; Mentor: Adnan Mujkanović (Zenica, Bosnia and Herzegovina)
DETERMINATION OF GRANULATED BLAST-FURNACE SLAG CRUSHING RESISTANCE
3. Students: **Midheta Bečirović, Amina Kulalić, Elvis Agović**; Mentor: Marina Jovanović (Zenica, Bosnia and Herzegovina)
CASTABLES BASED ON CHAMOTTE WASTE WITH THE ADDITION OF FLY ASH
4. Students: **Lejla Mujezinović, Amina Čaušević**; Mentor: Sulejman Muhamedagić (Zenica, Bosnia and Herzegovina)
CONCENTRATION OF SULFUR DIOXIDE IN THE AIR IN 2017 IN THE CITY OF ZENICA
5. Students: **Milica Bošković**; Mentors: Vesna Grekulović, Mirjana Rajčić Vujasinović, Aleksandra Mitovski (Bor, Serbia)
ELECTROCHEMICAL BEHAVIOR OF STEEL IN PRESENCE OF MENTHA SPICATA MACERATE
6. Students: **Ammar Sejdinoski, Emina Vardo**; Mentor: Hasan Avdušinović (Zenica, Bosnia and Herzegovina)
MATERIAL MODELING BY DEEP ROLLING WITH MEANS OF MCALIBRATION®
7. Students: **Emina Vardo, Ammar Sejdinoski**; Mentors: Almajda Gigović-Gekić, Hasan Avdušinović (Zenica, Bosnia and Herzegovina)
DILATOMETRIC ANALYSE OF MARTENSITE MICROSTRUCTURE DECOMPOSITION

Saturday, September 29, 2018

12:30 – 13:30 – Poster session – Faculty amphitheater lobby

Chairpersons: Hasan Avdušinović, Milena Premović, Milan Gorgievski

8. Student: **Tarik Kurtiši**; Mentor: Nadira Bušatlić (Zenica, Bosnia and Herzegovina)
REDUCTION OF CO₂ EMISSION IN CEMENT INDUSTRY
9. Student: **Tarik Kurtiši**; Mentor: Marina Jovanović (Zenica, Bosnia and Herzegovina)
THE INFLUENCE OF CIGARETTE BUTTS ON THE PROPERTIES OF DRIED AND FIRED CLAY BRICKS
10. Student: **Edin Durak**; Mentor: Ilhan Bušatlić (Zenica, Bosnia and Herzegovina)
GEOPOLYMER CONCRETE
11. Student: **Anesa Ključanin**; Mentor: Farzet Bikić (Zenica, Bosnia and Herzegovina)
THE EFFECT OF TEMPERATURE ON PITTING CORROSION OF CERTAIN ALUMINUM ALLOYS
12. Student: **Miljan Marković**; Mentors: Milan Gorgievski, Vesna Grekulović (Bor, Serbia)
THE CHANGE OF pH VALUE DURING THE ADSORPTION OF Cu²⁺ IONS ONTO OAT STRAW, AND IT'S INFLUENCE ON THE ADSORPTION CAPACITY
13. Student: **Marko Banković**; Mentor: Ivana Marković (Bor, Serbia)
INFLUENCE OF HEAT TREATMENTS ON PROPERTIES OF NICKEL ALUMINIUM

BRONZE

14. Students: **Bojan Zdravković, Milica Bošković**; Mentors: Vesna Grekulović, Dragan Manasijević, Mirjana Rajčić Vujasinović (Bor, Serbia)
CORRELATION ANALYSIS OF COMPOSITE NICKEL COATINGS WITH THE ADDITION OF PARTICLES TiO₂
15. Student: **Jasmina Petrović**; Mentor: dr Srba Mladenović (Bor, Serbia)
REVIEW OF THE MOST IMPORTANT PROPERTIES OF MMC-s REINFORCED WITH Al₂O₃ AND SiC
16. Students: **Almedina Podojak, Almedina Dedić-Vrbanić, Anna Hodžić**; Mentor: Diana Ćubela (Zenica, Bosnia and Herzegovina))
A MICROSTRUCTURE ANALYSIS OF THE 17-7PH STEEL WITH MODIFIED CHEMICAL COMPOSITION AFTER CREEP TESTING
17. Student: **Zorica Eraković**; Mentors: Stanko Žerajić, Ivana Mladenović-Ranisavljević (Leskovac, Serbia)
MARKET DEVELOPMENT OPPORTUNITIES IN RECYCLING AGGREGATE FROM CONSTRUCTION WASTE
18. Students: **Aleksandar Đorđević, Milica Tomović, Bojan Todorović**; Mentor: Milena Premović (Kos. Mitrovica, Serbia)
INVESTIGATION OF THE TERNARY Ge-Sn-X (X=In,Zn) SYSTEMS
19. Students: **Milica Tomović, Aleksandar Đorđević**; Mentor: Duško Minić (Kos. Mitrovica, Serbia)
DESCRIPTION OF TERNARY Ag-Ge-Ga SYSTEM
20. Students: **Jelena Martić, Ana Petrović, Dragana Škundrić, Dragana Adamović**; Mentor: dr Marija Petrović Mihajlović (Bor, Serbia)
THE INFLUENCE OF BENZOTRIAZOLE ON CORROSION BEHAVIOR OF BRASS IN ARTIFICIAL BLOOD PLASMA
21. Students: **Jelena Martić, Vladan Nedelkovski, Miljan Marković, Nemanja Milošević, Kota Ishizaka, Yoko Ishiyama, Arata Katamura, Aoi Kamata**; Mentors: Daizo Ishiyama, Milan Radovanović (Bor, Serbia); (Akita, Japan)
COPPER CONTENT IN RIVER WATER NEAR BOR MINING AREA
22. Students: **Ana Petrović, Dragana Škundrić, Jelena Martić, Dragana Adamović**; Mentor: Marija Petrović Mihajlović (Bor, Serbia)
BENZOTRIAZOLE AS AN INHIBITOR OF STEEL CORROSION IN A SOLUTION OF ARTIFICIAL BLOOD PLASMA
23. Student: **Anna Rogleva**; Mentors: Daniela Grigorova, Rossitza Paunova (Bulgaria, Sofia)
DETERMINATION OF ACTIVITY IN COMPLEX SYSTEM
24. Students: **Stanislava Krasteva, Vasil Trenchev**; Mentor: Maria Krasteva (Bulgaria, Sofia)
INVESTIGATION OF POSSIBILITY OF APPLICATION OF CARBONIZED RICE HUSKS AS AN ANTIBURN-ON SAND MOULD COAT
25. Students: **Maria Parfenova, Marina Lamueva**; Mentors: Anna Zelenaya, Vasily Lutsyk (Tomsk, Ulan-Ude, Russia)
CRYSTALLIZATION PATHS IN THE SYSTEMS FeO-SiO₂-Fe₂O₃ AND Mg₂SiO₄-CaAl₂Si₂O₈-SiO₂
26. Students: **Marina Lamueva, Maria Parfenova**; Mentors: Anna Zelenaya, Vasily Lutsyk (Tomsk, Ulan-Ude, Russia)
COMPUTER MODELS OF T-x-y DIAGRAMS ON THE BOUNDARY OF QUATERNARY

SYSTEM CaO-MgO-Al₂O₃-SiO₂

27. Student: **Sonja Stanković**; Mentor: *Milan Radovanović (Bor, Serbia)*
ELECTROCHEMICAL BEHAVIOR OF TITANIUM IN RINGER'S SOLUTION WITH ADDITION OF AMOXICILLIN
28. Students: **Vladan Nedelkovski, Jelena Martić, Nemanja Milošević, Miljan Marković, Kota Ishizaka, Yoko Ishiyama**; Mentors: *Milan Radovanović, Daizo Ishiyama (Bor, Serbia); (Akita, Japan)*
MONITORING OF FERROUS IONS CONTENT, FLOW RATE AND TOTAL IRON CONTENT, COMPARISON FOR 2018 AND 2011
29. Students: **Bojan Vojinović, Dragan Milojević, Vanja Trifunović, Yudai Kosawa, Haruna Someya, Yohei Maekawa, Seiji Miyazawa, Ryota Yoshida**; Mentors: *Kazutoshi Haga, Grozdanka Bogdanović (Bor, Serbia); (Akita, Japan)*
HIGH PRESSURE LEACHING (HPL) OF FLOTATION TAILINGS
30. Students: **Bojan Vojinović, Dragan Milojević, Vanja Trifunović, Yudai Kosawa, Haruna Someya, Yohei Maekawa, Seiji Miyazawa, Ryota Yoshida**; Mentors: *Masahiko Bessho, Grozdanka Bogdanović (Bor, Serbia); (Akita, Japan)*
NEUTRALIZATION AND PRECIPITATION OF ACID MINE WASTE WATER
31. Student: **Kristina Božinović**; Mentors: *Ljubiša Balanović, Aleksandra Mitovski, Nada Štrbac (Bor, Serbia)*
SEM/EDS ANALYSIS OF COPPER CONCENTRATE AND MIXTURE OF COPPER CONCENTRATE AND ANTIMONY (III) SULFIDE
32. Student: **Željka Krčić**; Mentor: *Tamara Holjevac Grgurić (Sisak, Croatia)*
EFFECT OF DIFFERENT ALUMINUM CONTENT ON Cu-BASED SHAPE MEMORY ALLOYS
33. Students: **Miloš Stojanović, Milan Stajić, Nikola Jovčić**; Mentor: *Igor Svrkota (Bor, Serbia)*
DETERMINATION OF STRESS STATE TO THE TUNNEL WITH APPLICATION ANALYTICAL AND NUMERICAL
34. Student: **Vladimir Nikolić**; Mentor: *Jovica Sokolović (Bor, Serbia)*
CHARACTERISTICS OF GRAVITY SEPARATORS: ADVANTAGES AND DISADVANTAGES
35. Students: **Mladen Radovanović, Stevan Jelić**; Mentor: *Vitomir Milić (Bor, Serbia)*
ANALYSIS OF THE POSSIBILITY FOR APPLICATION OF LONGWALL MINING METHOD IN THE STRMOSTEN PIT