



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

## 43<sup>rd</sup> OCTOBER CONFERENCE on Mining and Metallurgy

### FINAL PROGRAM

October 12 – 15, 2011/ Hotel "Aquastar Danube"  
Kladovo (Serbia)

## SCHEDULE OF EVENTS

### **Wednesday, October 12, 2011**

18:00 – 19:00 – Conference desk opening / Registration of participants  
19:00 – 21:00 – *Dinner*

### **Thursday, October 13, 2011**

07:00 – 9:00 - *Breakfast*  
08:00 – 19:00 - Conference desk working hours / Registration of participants  
**09:30 – 10:00 – Conference opening**  
**10:00 – 11:00 – Plenary lectures**  
11:00 – 11:30 – Coffee break  
**11:30 – 12:30 – Plenary lectures**  
*13:00 – 15:00 – Lunch*  
**15:00 – 17:30 – Session 1A**  
**15:00 – 17:30 – Session 1B (V TDPD)**  
17:30 – 18:00 – Coffee break  
**18:00 – 19:00 – Poster Session 1**  
*20:00 – 23:00 – Conference Dinner*

### **Friday, October 14, 2011**

*07:00 – 9:00 - Breakfast*  
08:30 – 19:00 - Conference desk working hours  
**09:00 – 11:30 – Session 2A**  
**09:00 – 11:30 – Session 2B**  
11:30 – 12:00 – Coffee break  
**12:00 - 13:00 – Poster Session 2**  
*13:00 – 15:00 – Lunch*  
**15:00 – 17:30 – Session 3A**  
**15:00 – 17:30 – Session 3B**  
17:30 – 18:00 – Coffee break  
**18:00 – 19:00 – Poster Session 3**  
*19:00 – 21:00 – Dinner*

### **Saturday, October 15, 2011**

*07:00 – 09:00 – Breakfast*  
*09:00 – 11:00 – Visiting Kladovo*  
**Closing of the Conference**

# LIST OF PRESENTATIONS

## Plenary lectures

***Thursday, October 13, 2011 at 10:00 – 11:00, Conference room A***

1. **Vladimir Krstić (Canada)**  
Overview of research and development in advanced ceramics at Queen's university
2. **Vladislav Kecojević (USA)**  
Risk assessment for haul truck-related fatal injuries in surface mining

***Thursday, October 13, 2011 at 11:30 – 12:30, Conference room A***

3. **George Kaptay (Hungary)**  
*In the frame of 5<sup>th</sup> Symposium on Thermodynamics and Phase diagrams*  
Base physical quantities and laws of nature: What is our knowledge based on?
4. **Anđelka Mihajlov (Serbia)**  
Mining waste management: Strategic framework

# Oral presentations

## Session 1A

**Thursday, October 13, 2011 at 15:00 – 17:30, Conference room A**

*Chairmen: Velizar Stanković, Mirko Gojić*

1. **Batrić Pešić (USA)**  
Removal of heavy metals from mine waters by lignocellulosic materials
2. **Milan Bizjak, Ladislav Kosec, Blaž Karpe, Janez Kovač (Slovenia)**  
The precipitation kinetics of rapidly solidified Cu–Cr and Cu–Cr–Fe alloys
3. **Imre Gombkötő, Csilla Papp (Hungary)**  
Metal extraction using Knelson concentrator in Hungary
4. **Batrić Pešić, Natalie Gese (USA)**  
Lithium electrochemistry in molten salts- effect of moisture
5. **Svetlana Risteska (Republic of Macedonia)**  
An investigation of serrated yielding and TEM images in series aluminum alloys
6. **T. Večko Pirtovšek, I. Peruš, M. Fazarinc, G. Kugler, M. Terčelj (Slovenia)**  
Increasing hot workability of BRM2 high speed steel
7. **Boris Katavić, Bojan Gligorijević, Ana Alil, Zoran Odanović, Mile Đurđević (Serbia, Austria)**  
Plastic deformation and heat treatment of thin walled centrifugally cast high strength crmonb steel tubes
8. **Dragica Jevtić, Aleksandar Savić, Aleksandar Radević, Ana Nastić (Serbia)**  
Simultaneous application of admixtures in contemporary concrete mixtures
9. **Bisenija Petrović, Ljubica Radović, Dušan Vračarić (Serbia)**  
Effect of microstructure on metallic coating microhardness
10. **Srećko Manasijević, Srđan Marković, Marko Stakić, Radomir Radiša (Serbia)**  
Effect of low frequency magnetic field on microstructures and mechanical properties of casting 6060 aluminium alloy
11. **Snežana Dević, Mihovil Logar, Mira Cocić (Serbia)**  
Characterization of particular mineral raw materials of serbian deposits in order to expand their application
12. **Slavka Zeković, Miodrag Vujošević (Serbia)**  
Key business risks in the mining development in the Bor basin of copper
13. **Dejan Bogdanović, Đorđe Nikolić, Predrag Đorđević (Serbia)**  
Sustainable development and ecomanagement
14. **Radmilo Nikolić, Nenad Vušović, Vitomir Milić, Aleksandra Fedajev, Igor Svrkota (Serbia)**  
Some characteristics of RTB Bor business economy in transition period
15. **Radoje Pantović, Miodrag Žikić, Saša Stojadinović, Daniel Krzanović, Zoran Stojković (Serbia)**  
Monitoring of deformations in collector under tailings from the open pit Veliki Krivelj

## Session 1B (V TDPD)

Thursday, October 13, 2011 at 15:00 – 17:30, Conference room B

Chairmen: **Živan Živković, Dragana Živković, Nadežda Talijan**

1. **Dragana Živković, Živan Živković**  
O aktivnostima komiteta za termodinamiku i fazne dijagrame Srbije i Crne Gore u proteklom period
2. **Dragan Manasijević, Duško Minić, Dragana Živković, Iwao Katayama, Jan Vřešťál, D. Petković**  
Thermodynamic prediction and experimental investigation of the Bi-Ga-Sn phase equilibria
3. **Ana Kostov**  
Factsage termohemijski softver za određivanje faznih dijagrama
4. **Lidija Gomidželović, Dragana Živković, Nadežda Talijan, Vladan Čosović, Bata Marjanović, Emína Požega**  
Investigation of structural, mechanical and electrical properties of Au-Ga alloys with low gold content
5. **Duško Minić, Dragan Manasijević, Jelena Đokić, Nadežda Talijan, Dragana Živković, Milena Premović**  
Phase transformations in the ternary Ag-Ga-Sb system
6. **Aleksandra Milosavljević, Dragana Živković, Dragan Manasijević, Yong Du, Nadežda Talijan, Mengjie Bu, Ana Kostov**  
Contribution to phase equilibria investigation of quaternary Ag-In-Sn-Cu system
7. **Svetlana Nestorović, Desimir Marković, Ivana Marković, Bata Marjanović**  
Ispitivanje efekta ojačavanja žarenjem kod sinterovanih CuPd i CuAg legura
8. **Svetlana Ivanov, Dragana Živković, Svetlana Nestorović, Nadežda Talijan**  
Primena metode simpleks planova pri boriranju železnih materijala dobijenih tehnologijom metalurgije praha
9. **Milena Premović, Duško Minić, Dragan Manasijević, Vladan Čosović, Dragana Živković, Nadežda Talijan, Miljana Marković**  
Characterization of alloys and liquidus projections of ternary Bi-Sb-Sn system
10. **Dragana Živković, Tamara Holjevac, Dijana Čubela, Dragan Manasijević, Ljubiša Balanović, Aleksandra Mitovski**  
Comparative thermodynamic analysis of the Ga-Sn-Zn system
11. **Aleksandra Milosavljević, Dragana Živković**  
Tin activity determination in Cu-In-Sn system by geometric solution model
12. **Branislav Marković, Dragana Živković, Jan Vřešťál, Dragan Manasijević, Miroslav Sokić, Nadežda Talijan, Vladan Čosović**  
Ispitivanje faznih ravnoteža legura u sistemu Bi-Cu-Ni
13. **Mirjana Rajčić-Vujasinović, Vesna Grekulović, Zoran Stević**  
Ciklična voltometrija i promena sastava legure AgCu duž prečnika žice
14. **Miroslav Sokić, Branislav Marković, Nada Štrbac, Dragana Živković, Vladislav Matković, Ivan Mihajlović**  
Određivanje mehanizma oksidacionog luženja halkopiritnog koncentrata sumpornom kiselinom primenom termijske analize
15. **Milorad Ćirković, Vladan Andrejić, Aleksandra Mitovski, Ivan Mihajlović, Nada Štrbac**  
Primena termijske analize u proučavanju procesa oksidacije u sistemu Cu-Fe-S-O
16. **Aleksandra Ivanović, Predrag Djordjević, Aleksandra Mitovski, Ivan Mihajlović, Nada Štrbac, Miroslav Sokić**  
Primena termijske analize za karakterizaciju polimetalnog koncentrata

## Session 2A

**Friday, October 14, 2011 at 9:00 – 11:30, Conference room A**

*Chairmen: George Kaptay, Vladimir Krstić*

1. **Ndue Kanari, Nourredine Menad, Frederic Diot, Lev Filippov, Fabien Thomas, Jacques Yvon (France)**  
Beneficiation of PVC wastes in iron oxide reduction
2. **Zdenka Zovko Brodarac, Natalija Dolić, Faruk Unkić (Croatia)**  
Influence of chemical composition on microstructure development of en AB AlSi9Cu3 alloy
3. **Bashir Raddad, M. Al-Maghrabi, Alajali Abosdell, Abdulbaset Frefer (Libya)**  
An investigation of metal flow behavior between flat and overlapping dies during copper forging
4. **Ali M. Tajouri, Moftah M. Abozbada, Mosbah Ali Akreem (Libya)**  
Lisco skimmed slag and construction
5. **Dobrescu Mircea, Dimitriu Sorin, Vasilescu Marius (Romania)**  
Considerations on fatigue resistance of supersonic airplanes
6. **Dragoslav Randić, Dejan Randić (Serbia)**  
Flotation tailings scavenging with new 4C hydrocyclones with recirculation flow
7. **Radomir Radiša, Srećko Manasijević, Zvonko Gulišija, Vladimir Kvirgić, Srđan Marković (Serbia)**  
Business cluster (Bc) for the development of foundry industry with the application of CAE techniques of metal casting
8. **Katarina Gerić, Aleksandar Čabrilo (Serbia)**  
Microstructure and properties of cast stainless steel
9. **Dragana Dražić, Milorad Veselinović, Biljana Nikolić, Nebojša Todorović, Vesna Golubović Curguz, Nevena Čule, Suzana Mitrović (Serbia)**  
Energy biomass production in Kolubara lignite basin deposols – towards sustainable use of res and non-res
10. **Saša Stojadinović, Miodrag Denić, Nenad Vušović, Daniel Kržanović (Serbia)**  
The overview and the analysis of the hauling fleet condition at Veliki Krivelj open pit mine
11. **Jelena Avdalović, Vladimir Beškoski, Srđan Miletić, Mila Ilić, Miroslav Vrvic (Serbia)**  
Acidic and bacterial leaching of the fly ash - environmental protection technology
12. **Radoje Pantović, Nenad Vušović, Igor Svrkota, Dejan Petrović, Zvonko Damjanović (Serbia)**  
Stress-deformation monitoring of N.A.T.M. Support system in ore body T of Jama Bor
13. **Aleksandra Milosavljević, Dragana Živković, Radiša Todorović, Ana Kostov (Serbia)**  
Indium activity determination in Cu-In-Sn system
14. **Ljubic Ivanić, Svetlana Ivanov, Srba Mladenović (Serbia)**  
Secondary porosity in oxygen-free copper
15. **Dragana Božić, Milan Gorgievski, Velizar Stanković, Nada Štrbac, Suzana Dragulović, Zdenka Stanojević-Šimšić, Zorica Ljubomirović (Serbia)**  
Adsorption of nickel ions onto beech sawdust

## Session 2B

**Friday, October 14, 2011 at 9:00 – 11:30, Conference room B**

Chairmen: **Ana Kostov, Svetlana Nestorović**

1. **Zdenka Stanojević Šimšić, Suzana Dragulović, Zorica Ljubomirović, Vesna Conić, Dragana Božić, Milan Gorgievski, Danijela Simonović (Serbia)**  
An overview of the plating bath preparation from recycled rhodium to rhodium (III)-sulphate
2. **Saša Marjanović, Biserka Trumić, Draško Stanković, Aleksandra Ivanović, Aleksandar Devečerski, Vesna Krstić (Serbia)**  
Strengthening effect of platinum with the content change of palladium as the alloying element
3. **Emina Požega, Vesna Krstić, Jelena Ćosić, Stela Uruioac, Mariana Albuлесcu, Lidija Gomidželović (Serbia, Romania)**  
Presence of lead in airborne particles: Bor region, Serbia
4. **Petru Hreniuc, Iosif Pasca, Mihai Schvab, Gabriel Badescu (Romania)**  
Reversal of mines general ventilation in case of endogen fires by water spraying into the ventilation shaf
5. **Petru Hreniuc, Gabriel Badescu, Iosif Pasca, Balaj Dorel (Romania)**  
New technologies to recover gold and silver from ores and concentrates
6. **Dijana Dujak, Aleksandar Karač, Slobodan Vrhovac (Bosnia and Herzegovina, Serbia)**  
Effects of the inelasticity of granules and the density of granular systems on the cooling process
7. **Ekrem Bektašević, Alen Baraković (Bosnia and Herzegovina)**  
Determination of potential landslide in rock massif using the finite element method on the example of PK „Sklop“ near Gračanica
8. **Milica Gvozdеноvić, Branimir Jugović, Jasmina Stevanović, Tomislav Trišović, Branimir Grgur (Serbia)**  
Electrochemical polymerization of protective polyaniline coating on copper
9. **Sulejman Muhamedagić, Hasan Avdusinović (Bosnia and Herzegovina)**  
Production of sinter using limonite ore Omarska
10. **Silvana Dimitrijević, Mirjana Rajčić-Vujasinović, Radmila Jančić-Hajneman, Jelena Bajat, Vlastimir Trujić, Dejan Trifunović (Serbia)**  
Temperature efect on the surface roughness of decorative gold coatings
11. **Aleksandra Ivanović, Vesna Marjanović, Slavica Milojević, Biserka Trumić, Branka Petković, Radoica Đalović (Serbia)**  
Optimized atmospheres for sintering brass
12. **Slađana Krstić, Miomir Mikić, Milenko Ljubojev, Omer Musić, Vesna Ljubojev (Serbia, Bosnia and Herzegovina)**  
Conditions of drainage of flotaion tailing of Veliki Krivelj
13. **Vasile Hotea, Jozsef Juhasz, Elena Pop, Gheorghe Iepure, Gabriel Badescu, Aurica Pop (Romania)**  
Thermodynamic study on the Cu-O system using solid electrolyte
14. **Lidija Gomidželović, Vesna Krstić, Jelena Ćosić, Stela Uruioac, Mariana Albuлесcu, Emina Požega (Serbia, Romania)**  
Air pollution by airborne particles in Bor city, Serbia: Problem of cadmium
15. **Miodrag Banješević, Nenad Vušović, Zoran Vaduvesković, Daniel Kržanović (Serbia)**  
Systematization and geological data processing of the Veliki Krivelj copper deposit

16. **Vladimir Adamović, Zorica Lopičić, Aleksandar Ćosović, Jelena Avdalović, Vladan Milošević (Serbia)**  
Impact of pollution in atmosphere on the characteristics of precipitation as a phase of hydrologic cycle
17. **Vladan Kasić, Jovica Stojanović, Slobodan Radosavljević, Radule Tosović, Melina Vukadinović (Serbia)**  
Geology of the deposit zeolitic tuff Slanci near Beograd
18. **Vladan Kasić, Živko Sekulić, Slavica Mihajlović, Vladimir Jovanović, Branislav Ivošević (Serbia)**  
Geology of the deposit of limestone Dobrilovici near Loznica (Serbia)
19. **Sonja Petković, Rodoljub Stanojlović, Jovica Sokolović, Aleksandar Petković (Serbia)**  
Possibilities for magnetic separation process valorization copper and iron from RTB Bor smelter slag
20. **Vasile Hotea (Romania)**  
Lead recovery from flue dusts in non ferrous metallurgy

## Session 3A

**Friday, October 14, 2011 at 15:00 – 17:30, Conference room A**

*Chairmen: Milan Bizjak, Vladan Ćosović*

1. **Radomir Jovičić, Olivera Popović, Aleksandar Bukvić, Dejan Jovičić, Milica Pilipović, Iva Najvirt (Serbia)**  
Effect of basic material on tensile properties austenitic- ferritic welded joints
2. **Radiša Janković, Ljubinko Savić, Srđa Kovačević, Novica Staletović (Serbia)**  
Selection of parameters for drilling – blasting works at the open pit Platac
3. **Miodrag Žikić, Saša Stojadinović, Radoje Pantović, Daniel Kržanović, Zoran Vaduvesković, Milan Živković (Serbia)**  
3D model of bor open pit as a base for the analysis of available space for disposal of waste and tailings from Veliki Krivelj open pit
4. **Vitomir Milić, Igor Svrkota, Dejan Petrović (Serbia)**  
Analysis of current situation, possibilities and perspective of underground mining in Jama Bor
5. **Dejan Petrović, Vitomir Milić, Igor Svrkota, Milan Dubočanin (Serbia)**  
Remaining ore reserves in ore body P2A in Bor mine Jama and proposal of exploiting ways
6. **Nenad Vušović, Miodrag Denić, Vojin Ćokorilo, Saša Stojadinović (Serbia)**  
GIS/GPS/GPRS based mechanization monitoring dispatch system at open pits
7. **Radoje Pantović, Saša Perišić, Saša Stojadinović, Miodrag Žikić (Serbia)**  
Blasting demolition of reinforced concrete structures in sulfuric acid factory of RTB-Bor
8. **Miodrag Miljković, Rodoljub Stanojlović, Jovica Sokolović (Serbia)**  
Defining the model for determining optimal ore granulation
9. **Lidija Gomidželović, Dragana Živković, Ljubiša Balanović, Dragan Manasijević, Aleksandra Mitovski, Ana Kostov, Emina Požega (Serbia)**  
Thermodynamic calculation of quaternary Au-Ga-In-Sb system
10. **Saša Marjanović, Biserka Trumić, Draško Stanković, Lidija Gomidželović, Aleksandra Ivanović, Vesna Krstić (Serbia)**  
Redistribution of platinum metals within an ammonia oxidation plant

11. **Slobodan Stojadinović, Jasmina Pekez, Nikola Bajić (Serbia)**  
The analysis of hardening of metal materials depending on structural level of deformation and parameters of thermomechanical treatment
12. **Milenko Jevtić, Ivan Milojković, Nedeljko Stojnić (Serbia)**  
Laboratory investigation of the performance of pulse electrohydrodynamics in sewer cleaning and blockage removal
13. **Aleksandra Tripić-Stanković, Aleksandar Ćosović, Tihomir Popović, Vladimir Adamović (Serbia)**  
Influence of metallurgical and mining industry on regional pollution-heavy metal content in precipitation
14. **Peter Fečko, Josef Valeš, Eva Pertile, Monika Podešvova, Barbora Lyčkova, Jaroslav Kusy, Lukaš Koval, Michal Guziurek (Czech Republic)**  
Brown-coal pyrolysis tars in the flotation of black coal
15. **Duško Đukanović, Miodrag Denić, Goran Bojić, Dušan Dragojević (Serbia)**  
Economic feasibility mechanized construction of underground spaces in mines JP Peu Resavica

## Session 3B

**Friday, October 14, 2011 at 15:00 – 17:30, Conference room B**

**Chairmen: Duško Minić, Svetlana Ivanov**

1. **Mirjana Rajčić-Vujasinović, Svetlana Nestorović, Zoran Stević, Vesna Grekulović, Ivana Marković, Slavko Simov (Serbia)**  
Electrochemical behavior of cast and sintered CuAg4at.% alloy in alkaline medium
2. **Sanja Martinović, Milica Vlahović, Marina Dojčinović, Tatjana Volkov-Husović (Serbia)**  
Implementation of image analysis on study of refractory concrete resistance
3. **Milica Vlahović, Sanja Martinović, Tamara Boljanac, Predrag Jovanić, Tatjana Volkov-Husović (Serbia)**  
Assessment of sulfur concrete corrosion resistance
4. **Vladimir Jovanović, Živko Sekulić, Vladan Kašić, Branislav Ivošević, Velimir Antanasković (Serbia)**  
Application of lithotamnian limestone for flue gas desulphurization in thermal power plants
5. **Milan Petrov, Dejan Todorović, Ivana Jovanović, Melina Vukadinović (Serbia)**  
Concentration gradient and mass transfer by flotation treatment
6. **Srđan Trivković, Nikola Petrašinović, Slobodan Stupar, Aleksandar Simonović (Serbia)**  
Briquetting of aluminum alloy chips waste materials from aircraft production industry
7. **Zorica Lopičić, Mirjana Stojanović, Jelena Milojković, Tatjana Šoštarić, Marija Mihajlović, Jelena Avdalović (Serbia)**  
Agricultural waste material as potential adsorbent for removing copper from water solutions
8. **Zoran Janjušević, Zvonko Gulišija, Marija Mihailović, Aleksandra Patarić, Zagorka Aćimović-Pavlović, Zoran Karastojković, Zorica Kovačević (Serbia)**  
The influence of annealing parameters on microstructure of a HSLA steel
9. **Viša Tasić, Milena Jovšević-Stojanović, Renata Kovačević, Novica Milošević (Serbia)**  
Comparison of the Grimm EDM 180 with reference gravimetric method for PM10 measurements in ambient air



10. **Ivan Jovanović, Dejan Bogdanović, Predrag Đorđević** (*Serbia*)  
Optimization of the batch for pyrometallurgical process of copper production
11. **Aleksandar Grujić** (*Serbia*)  
Progress of research on polymer bonded Nd-Fe-B magnetic materials
12. **Edita Lazarová, Víťazoslav Krúpa** (*Slovak Republic*)  
Assessment of utilization of TBM in excavation of exploratory adits in Slovakia
13. **Víťazoslav Krúpa, Edita Lazarová** (*Slovak Republic*)  
Method of the determination properties of rock mass from monitored data from TBM tunneling
14. **Hatim Issa, Marija Korać, Nikola Dimitrijević, Vesna Nikolić, Željko Kamberović** (*Serbia*)  
Possibility of serbian eafd stabilization in concrete
15. **Tomislav Trišović, Branimir Jugović, Milica Gvozdrenović, Jasmina Stevanović, Branimir Grgur** (*Serbia*)  
Electrochemical water treatment devices
16. **Radmila Lučić, Julijana Mirčevski** (*Serbia*)  
Software support to the recycling technology dictionary
17. **M. Petrović, D. Marković, N. Elezović** (*Serbia, Montenegro*)  
Selection of optimal drilling and blasting parameters for tunneling of horizontal and slightly inclined roads in Rudnik mine, Gornji Milanovac
18. **Mirad Delić, Adila Nurić, Samir Nurić, Vlado Radulović** (*Bosnia and Herzegovina*)  
Wet material dumping technology with spreader on the open pit mine Dubrave
19. **Radiša Todorović, Aleksandra Milosavljević, Ana Kostov, Ljubinka Todorović** (*Serbia*)  
Determination of carbide phase shape and distribution in cobalt based BSEM 647. Casts

## Poster presentations

### Poster Session 1

**Thursday, October 13, 2011 at 18:00 – 19:00, Conference room A**

*Moderators: Ana Kostov, Vladan Čosović*

1. **Ana Kostov, Dragana Živković** (*Serbia*)  
Thermodynamic characterization of shape memory Al-Ni-based alloys
2. **Ana Kostov, Radiša Todorović, Aleksandra Milosavljević, Emina Požega, Lidija Gomidželović** (*Serbia*)  
Physico-mechanical characterisation of Cu-Zn-Al shape memory alloy
3. **Zorica Kovačević, Zoran Karastojković, Zoran Janjušević, Mladen Mladenović** (*Serbia*)  
Microstructure analysis of high-pressure steam turbine housing after more than 100000 hours of creep exposure
4. **Radiša Perić, Zoran Karastojković, Zorica Kovačević, Dragoslav Gusković** (*Serbia*)  
Hardness changes in Ag925Cu75 jewel alloy after tempering of as-casted, rolled and quenched states
5. **Žarko Radović, Mirjana Lalović, Nebojša Tadić** (*Montenegro, Serbia*)  
Sulphide capacity of steelmaking slags on the basis of white bauxite

6. **Milisav Lalović, Žarko Radović, Nebojša Tadić** (*Montenegro*)  
Decarburization of low-alloy steel
7. **Zlatko Ječmenica, Svetlana Renović, Rajko Tomić, Nada Listeš, Gavriilo Đokić, Jovana Ječmenica** (*Bosnia and Herzegovina, Serbia*)  
Geological structure and potentiality of Mezgraja-Tobut coal area
8. **Vučković Dragan, Gajić Vlado** (*Bosnia and Herzegovina*)  
Computation of the limit the depth of open pit Ugljevik Istok
9. **Marica Dugić, Pero Dugić, Zoran Petrović** (*Bosnia and Herzegovina*)  
Lubricant greases for mining mechanisation lubrication
10. **Jelena Avdalović, Zorica Lopičić, Vladimir Adamović, Tatjana Šoštarić** (*Serbia*)  
The potential application of zeolite for water and wastewater treatment
11. **Dragan Đurović, Dragoljub Urošević, Ana Veljašević, Marina Savić, Jovan Jovanović, Mića Jovanović, Aleksandar Spasić** (*Serbia*)  
Conceptual design of thermal power plant wastewater treatment
12. **Dragan Đurović, Dragoljub Urošević, Jelena Tanasijević, Marina Savić, Jovan Jovanović, Mića Jovanović, Aleksandar Spasić** (*Serbia*)  
Power plant coal storage design: prevention of water pollution
13. **Sanja Bugarinović, Milan Čekerevac, Ljiljana Nikolić-Bujanović, Zoran Stević** (*Serbia*)  
Electrochemical oxidation of mineral covellite in strong alkaline solution
14. **Mirko Gojić, Ladislav Vrsalović, Stjepan Kožuh, Senka Gudić, Maja Kliškić, Marko Matulić** (*Croatia*)  
Corrosion and microstructural properties of AISI 316L stainless steel after welding
15. **Đorđe Nikolić, Milica Arsić, Ivan Mihajlović, Živan Živković, Predrag Đorđević** (*Serbia*)  
The examination of SO<sub>2</sub> episodes using back trajectory analysis and surface data in vicinity of copper smelter
16. **Zoran Stojković, Ninoslav Cvetanović, Radoje Pantović, Zvonko Damjanović, Dragana Labović** (*Serbia*)  
Integrated analysis of main factors on the cyclic movement of international (global) market copper
17. **Slobodanka Marinković, Prvoslav Trifunović, Rade Tokalić, Aleksandra Kostić-Pulek** (*Serbia*)  
Recycling of coal ashes from Serbian Nicola Tesla power plant
18. **Dijana Dujak, Aleksandar Karač, Slobodan Vrhovac** (*Bosnia and Herzegovina, Serbia*)  
The influence of the coefficient of restitution on deviation from the Haff's law for granular materials
19. **Pop Aurica, Vida-Simiti Ioan, Iepure Gheorghe** (*Romania*)  
Kinetic modeling of the Pb ions' retention from wastewaters on zeolitic volcanic tuff
20. **Pop Aurica, Vida-Simiti Ioan, Iepure Gheorghe, Pop Elena, Hotea Vasile, Juhasz Jozsef** (*Romania*)  
Experimental studies on the usage of zeolite volcanic tuffs for the reduction of concentration of heavy metal ions from wastewaters
21. **Elena Pop, Vasile Hotea, Jozsef Juhasz, Aurica Pop, Gheorghe Iepure** (*Romania*)  
Defects of rolled copper wire
22. **Jozsef Juhasz, Vasile Hotea, Elena Pop, Gheorghe Iepure, Aurica Pop** (*Romania*)  
The new concept of pelletising to the copper oxide concentrates for the melting process
23. **Slavica Lazarević, Violeta Arsovski, Bojan Jokić, Ivona Janković-Častvan, Đorđe Janačković, Rada Petrović** (*Serbia*)  
Adsorption of nickel ions from aqueous solutions by manganese oxide-coated sepiolite
24. **Snežana Grujić, Mihajlo Tošić, Vlada Živanović, Jelena Nikolić, Srđan Matijašević, Sonja Ždrale** (*Serbia*)  
The temperature rang of nucleation of potassium germanate glass studied by DTA method

25. **Snežana Ilić-Stojanović, Ivana Mladenović-Ranisavljević, Vesna Nikolić, Dragan Stojiljković, Ljiljana Takić, Staniša Stojiljković, Ljubiša Nikolić (Serbia)**  
Thermo-responsive hydrogels for controlled release of paracetamol
26. **Slađana Alagić, Snežana Šerbula, Ana Ilić, Tanja Kalinović, Jelena Strojčić (Serbia)**  
Heavy metal content in particulate matter originated from mining-metallurgical processes in Bor

## Poster Session 2

**Friday, October 14, 2011 at 12:00 – 13:00, Conference room A**

*Moderators: Svetlana Nestorović, Duško Minić*

1. **Branko Despotović, Tatjana Botić (Bosnia and Herzegovina)**  
Degradation analysis of engine oil quality levels API CF-4/SG
2. **Dragoslav Gusković, Mirjana Rajčić-Vujasinović, Saša Marjanović, Desimir Marković, Svetlana Ivanov (Serbia)**  
Dies sizing calibration process modeling via electrolytic cell
3. **Dragana Živković, Ljubiša Balanović, Dragan Manasijević, Ana Kostov, Aleksandra Mitovski, Živan Živković, Nikola Kostić (Serbia)**  
Thermodynamics and phase diagram investigation of Al-Ga alloys
4. **Nadežda Talijan, Vladan Čosović, Dragana Živković, Živan Živković, Duško Minić, Ljubiša Balanović (Serbia)**  
Properties of advanced silver/metal oxide contact materials
5. **Marija Petrović, Milan Radovanović, Ana Stamenković, Snežana Milić, Milan Antonijević (Serbia)**  
Influence of cysteine on electrochemical behaviour of copper in borax buffer
6. **Svetlana Ivanov, Ljubica Ivanić, Dragoslav Gusković, Desimir Marković, Srba Mladenović (Serbia)**  
Design of the optimal regime of aging in alloy Al-5wt%Cu-Pb-Bi by applying simplex methods
7. **Ivana Marković, Svetlana Nestorović, Desimir Marković (Serbia)**  
The effect of annealing on the properties of cold-rolled Cu-Ag alloy
8. **Svetlana Nestorović, Ivana Marković, Desimir Marković (Serbia)**  
Property improvement of Cu with alloying and thermomechanical treatment
9. **Dragana Živković, Edin Begović, Ana Kostov, Sabahudin Ekinović (Serbia, Bosnia and Herzegovina)**  
Lead-free alternatives for traditional free machining brasses
10. **Milan Antonijević, Snežana Milić, Mile Dimitrijević, Maja Nujkić (Serbia)**  
Heavy metal concentrations in soils and native plants surrounding old flotation tailings of Mining and smelting complex Bor (Serbia)
11. **Daniela Urošević, Mile Dimitrijević, Snežana Milić, Zoran Stevanović, Dragan Milanović (Serbia)**  
Copper leaching from copper smelter slag and copper slag flotation tailings
12. **Andrei Rotaru, Jiri Kucerik, Crisan Popescu, Marius Dumitru, Constantin Neaga (Romania, Germany)**  
Thermokinetic study of bituminous coal and lignites from southern Romania
13. **Milovan Vuković, Batrić Pešić, Nada Štrbac, Ivan Mihajlović, Miroslav Sokić (Serbia, USA)**  
Corrosion behavior of metals in the presence *Thiobacillus ferrooxidans* bacteria

14. **Duško Minić, Dragana Živković, Milena Premović, Nadežda Talijan, Vladan Ćosović, Dragan Manasijević, Ana Kostov (Serbia)**  
Investigation of the allz in high-temperature Ag-Bi-Zn ecological solder system
15. **Milena Premović, Duško Minić, Miljana Marković (Serbia)**  
Microstructure, hardneaa and electric conductivity alloy of ternary Ag-Sb-Zn system
16. **Srđan Matijašević, Mihajlo Tošić, Snežana Grujić, Jovica Stojanović, Vladimir Živanović, Jelena Nikolić, Marija Đošić, Sonja Ždrale (Serbia)**  
Crystallization of germanium phosphate glass
17. **M. Pavlov, V. Despotović, D.R. Milivojević, V. Tasić, D. Brodić (Serbia)**  
Overview of electrical energy costs in metallurgical plants of copper mining and Smelting complex Bor
18. **Vojka Gardić, Daniela Urošević, Ljubiša Obradović, Aleksandra Ivanović, Tatjana Apostolovski-Trujić (Serbia)**  
Removal of fluoride ion from waste water plant of aluminium can production by electrocoagulation
19. **Aurel Prstić, Zagorka Aćimović-Pavlović, Snežana Grujić, Milutin Đuričić, Ljubiša Andrić (Serbia)**  
Different ceramic linings for application in foundry
20. **Milena Ćosić, Zagorka Aćimović-Pavlović, Ilija Bobić, Ljubiša Andrić, Milan Đuričić (Serbia)**  
Influence of rheocasting process on the microstructural characteristics of piston alloys
21. **Jelena Stanković, Branislav Rajković, Zoran Ilić (Serbia)**  
Designing of the bridge over the Krivelj River for primary crushed ore transport by belt conveyor
22. **Dana Stanković, Ljiljana Mladenović, Vlastimir Trujić, Biserka Trumić, Draško Stanković (Serbia)**  
Obtaining and refining of palladium from PdAg50 alloy for Pd-catcher
23. **Dragan Ignjatović, Milenko Ljubojev, Lidija Đurđevac Ignjatović, Vesna Ljubojev (Serbia)**  
Geomechanical IN SITU researches on dam II-A
24. **Dragan Ignjatović, Milenko Ljubojev, Lidija Đurđevac Ignjatović, Vesna Ljubojev (Serbia)**  
Physical mechanical characteristics of shotcrete applied in ore body T
25. **Lidija Đurđevac Ignjatović, Milenko Ljubojev, Dragan Ignjatović, Jelena Petrović (Serbia)**  
Preparing of investigation activities for new line of the Krivelj River tunnel

## Poster Session 3

**Friday, October 14, 2011 at 18:00 – 19:00, Conference room A**

*Moderators: Svetlana Nestorović, Svetlana Ivanov*

1. **Daniela Urošević, Dragan Milanović, Branislav Rajković, Zoran Ilić, Radomir Mijović, Aleksandar Milenković (Serbia)**  
Belt conveyors program verification in primary and secondary crushing facilities in Veliki Krivelj
2. **Lidija Đurđevac Ignjatović, Milenko Ljubojev, Dragan Ignjatović, Milenko Jovanović (Serbia)**  
Principle of tunnel making with new Austrian tunneling method
3. **Vesna Conić, Suzana Dragulović, Vladimir Cvetkovsk, Zdenka Stanojević Šimšić, Zorica Ljubomirović, Branka Pesovski, Danijela Simonović (Serbia)**  
Solvent extraction of copper and platinum group of metals

4. **Ružica Lekovski, Branislav Rajković, Radmilo Rajković** (*Serbia*)  
Bor's environmental protection from dust from old flotation tailing Bor
5. **Vesna Krstić, Stela Uruioc, Smaranda Mâșu, Mariana Albuлесcu, Lidija Gomidzelović, Emina Pozega** (*Serbia, Romania*)  
Transfer of heavy metals to spontaneous flora from soil developed on a mining area (SW Romania)
6. **Nevenka Petrović, Brankica Anđelić, Vesna Krstić, Mirjana Šteharik, Jelena Petrović** (*Serbia*)  
Comparative methods of chemical analysis of macro and micro elements in coal
7. **Brankica Anđelić, Nevenka Petrović, Vesna Krstić, Jelena Petrović** (*Serbia*)  
Qualitative determination of copper pigment: Volumetric method
8. **Ljiljana Mladenović, Dana Stanković, Biserka Trumić, Draško Stanković, Vlastimir Trujić** (*Serbia*)  
Hydrometallurgical treatment of PdNi5 alloy with the aim of obtaining high purity palladium
9. **Anja Terzić, Nina Obradović, Ljubica Pavlović, Zagorka Radojević** (*Serbia*)  
Investigation of low cement content refractory concrete sintering process using DTA method
10. **Mirjana Stojanović, Jelena Milojković, Zorica Lopičić, Marija Mihajlović, Dragan Radulović, Deana Ileš** (*Serbia*)  
In situ immobilisation of uranium using aluminosilicate minerals as sequestering agents
11. **Zoran Stojanović** (*Serbia*)  
Concept and necessary conditions for exploitation the ore body Borska Reka in the underground mine Bor
12. **Miomir Mikić, Daniel Kržanović, Slađana Krstić** (*Serbia*)  
Overview of the current situation of major facilities of the flotation tailing dump Veliki Krivelj near Bor with special review to the collector of the Krivelj River
13. **Miloš Radović, Zagorka Aćimović-Pavlović, Zvonko Gulišija, Ljubiša Andrić, Ilija Belić** (*Serbia*)  
Application of HIP process for manufacturing of equipments parts with high properties
14. **Sanja Martinović, Milica Vlahović, Jelena Majstorović, Tatjana Volkov-Husović** (*Serbia*)  
Mechanical properties of alumina based low cement castable: Influence of heating temperature
15. **Sanja Martinović, Milica Vlahović, Tamara Boljanac, Sonja Milićević, Vladan Milošević** (*Serbia*)  
Removal of copper from aqueous solutions by low cost adsorbent-lignite: Influence of pH and contact time
16. **Milica Vlahović, Sanja Martinović, Tamara Boljanac, Sonja Milicević, Vladan Milosević** (*Serbia*)  
Influence of adsorbent amount and initial solution concentration on copper removal
17. **Milica Vlahović, Sanja Martinović, Tamara Boljanac, Tatjana Volkov-Husović** (*Serbia*)  
Strength degradation modeling based on non-destructive testing
18. **Tatjana Apostolovski-Trujić, Jelena Petrović, Sasa Ivanović, Suzana Stanković** (*Serbia*)  
Air pollution as a result of performing the work activities in the underground pit
19. **Saša Ivanović, Ljubiša Mišić, Milan Gorgievski, Bane Čađenović, Tatjana Apostolovski-Trujić, Dragana Božić** (*Serbia*)  
The manufacturing of chamotte pots and magnesite cupels intended for cupellation analysis of precious metals
20. **Vesna Grekulović, Mirjana Rajčić-Vujasinović, Zoran Stević** (*Serbia*)  
Influence of BTA on electrochemical behavior of AgCu(50mass. %) alloy
21. **Radosavljević Slobodan, Stojanović Jovica, Kasić Vladan** (*Serbia*)  
Mineralogical and chemical study of gold in polymetallic ore of the Lece mine-Medveđa

22. **Mirjana Steharnik, Renata Kovačević, Zorica Ljubomirović, Branka Pešvska, Danijela Simonović, Radica Jonović** (*Serbia*)  
Direct determination of trace elements in refined platinum samples by AES-ICP technique
23. **Branislav Rajković, Zoran Ilić, Radomir Mijović** (*Serbia*)  
Power and load distribution of belt conveyor for ore with two driving pulleys
24. **Zoran Vaduvesković, Daniel Kržanović, Miodrag Žikić** (*Serbia*)  
A review of previous exploratory works in the complex Cerovo cementacija and data processing in the software GEMCOM
25. **Vladimir Cvetkovski, Milorad Ćirković, Svetlana Ivanov, Vesna Conić, Suzana Dragulović, Branka Pešovski, Danijela Simonović** (*Serbia*)  
Bioleaching of the pollymetallic sulfide concentrate
26. **Branka Pešovski, Vladimir Cvetkovski, Danijela Simonović, Vesna Marjanović** (*Serbia*)  
The new titanium dimensionally stable electrodes surface activated by mixed metal okside layer
27. **Dana Stanković, Vladimir Cvetkovski, Zdenka Stanojević-Šimšić, Ljiljana Mladenović, Branislav Čađenović** (*Serbia*)  
Characterization of the gold – bearing polymetallic concentrate from the site Čoka Marin
28. **Ivana Jovanović, Vladan Milošević, Milan Petrov, Milena Kostović, Ljiljana Miličić, Dejan Todorović** (*Serbia*)  
Physical properties of hydraulic binders with a high amount of fly ash
29. **Ivana Jovanović, Dejan Todorović, Vladan Milošević, Zoran Bartulović, Sonja Miličević, Ljubiša Andrić** (*Serbia*)  
Influence of phosphine-based collector on the recovery of copper and precious metals from ore deposit Tenka-3
30. **Dejan Todorović, Ivana Jovanović, Vladan Milošević, Zoran Bartulović, Milan Petrov, Sonja Miličević** (*Serbia*)  
Influence of ethoxycarbonyl thiourea based collector on the recovery of copper from ore deposit Tenka-3
31. **Vesna Krstić, Mariana Albuлесcu, Livia Turugă, Stela Uruioc, Lidija Gomidželović, Emina Požega** (*Serbia, Romania*)  
Heavy metals in surface and groundwater in metallurgical industry areas from west of Romania
32. **Zvonimir Stanković, Vesna Grekulović, Vladimir Cvetkovski, Milovan Vuković, Ivana Marković** (*Serbia*)  
Telur impurities in anodic copper and kinetics and mechanism of dissolution and deposition of copper
33. **Ivana Mladenović-Ranisavljević, Ljubiša Nikolić, Snežana Ilić-Stojanović, Staniša Stoiljković, Ljiljana Takić, Dragan Stoiljković, Vesna Nikolić** (*Serbia*)  
Polymer nanocomposites with bentonite