



Balkan Union of Metallurgist (BUM)
 Association of Metallurgical Engineers of Serbia (AME)
 Faculty of Technology and Metallurgy (TMF), Belgrade
 Vinca Institute of Nuclear Sciences, Belgrade
 Institute of Chemistry, Technology and Metallurgy, Belgrade
 Serbian Chemical Society, Belgrade

TUESDAY September 26th, 2006

- 17:00 Registration of participants
- 20:00 Welcome cocktail

WEDNESDAY September 27th, 2006

Lecture hall 1

- 09:00 Opening of Conference; President of BUM, President of Organizing Committee, Representative of Host Company, Representative of Serbian Ministries

Chairpersons: Endre Rombanji and Vesna Maksimović

- 10:00 Pnias, Consequences of Environmental Issues on Sustainability of Metal Industries in Europe: The Case Study of BOR
- 10:30 Friedrich, Advanced melt treatment techniques for high performance copper products
- 11:00 Hlady, The Iron and Steel Industry in South East Europe
- 11:30 COFFEE BREAK
- 11:45 Masurenko (EUROPEAN NICKEL), Nickel Laterites in the Ophiolite Belts of the Alpine-Himalayan System
- 12:00 Purkiss (EUROPEAN NICKEL), Çaldag Nickel Laterite Atmospheric Heap Leach Project
- 12:15 Radošević (EUROPEAN NICKEL), Nickel-a great potential for expansion of metals industry in Serbia
- 12:30 Pogrebnoy, First Discovery of the Monomineral Manganite Ores in the Ukrainian Shield and Prospectives of Finding of New Objects for the Manganese Metallurgical Production
- 12:45 Radulović, Possibilities for Obtaining of Coated Quicklime from the "Limekiln USSB-Kučevo" Used for Steel Desulphurization in Steel mill "US-Steel Smederevo
- 13:00 Obradović, Characterization and dewatering of metallurgical waste waters
- 13:15 Stopić, Electrolytic recovery of copper from highly contaminated wastewaters
- 13:30 Paunova, Thermodynamics And Kinetics Of Reduction With Solid Carbon Of The Waste Emission Of Steelmaking Production Of "Stomana- Factory" Ad, Bulgaria
- 13:45 LUNCH

Chairpersons: Nenad Radović and Miljana Popović

- 15:30 Seetharaman, Challenges in Process Metallurgy
- 16:00 Grijzenhout (ELSEVIER), Engineering Village: the globally accepted resource of choice for engineering communities
- 16:15 COFFEE BREAK
- 16:30 Sokolov, The Twenty Years of Scientific Collaboration with Pobuzhne Integrated Ferronickel Mill
- 16:45 Venini, Electromagnetic Stirring in Continuous Casting Machine
- 17:00 Venini, Use of Electromagnetic Equipment for Slab and Thin Slab Steel Continuous Caster using electromagnetic stirring technologies
- 17:15 Yordanov, Obtaining Of Ferrous Carbon Powder Alloys After Reduction Of Scale In En Electrothermal Rotary Bed Conditions
- 17:30 S&B Industrial Minerals - STOLLBERG division

(Wednesday 26th, contd.)

- 18:00 POSTER SECTION
- 20:30 CONFERENCE DINNER

POSTER SECTION

Lecture hall 3

- P1 Marković, Recycling of silicon carbide from waste crucibles for smelting and its application in grey iron production
- P2 Čirković, Investigation of influence of temperature and duration of boridization on kinetics of growth the boride layers on pressed samples
- P3 Jovanović, Pelletization Of Waste Metallurgical Powder Using Different Binding Agents With Particular Review On Mechanical Properties Of Obtaining Products
- P4 Kovačević, Analysis of As, Sb and Bi content in the sludges generated from Chemical Precipitation of Metallurgical Waste Water in RTB Bor
- P5 Lalović, Waste Utilization and Air Enrichment Effects on the Process of Industrial Steel Heating
- P6 Marinković, Recovery of precious metals from copper concentrate and polymetallic mineral resources
- P7 Čosović A., Copper Removal From Contaminated Water Using Sinapis Alba L.
- P8 Korać, Characterization of wastewater streams from RTB Bor Site, Serbia & Montenegro
- P9 Apostolovski-Trujić, Pollution prevention and control techniques in the Copper Institute
- P10 Sokić, Mineralogical characterization of the polymetallic ore concentrate from the Rudnik mine flotation
- P11 Sokić, A study of copper(I) sulphide leaching with sulphuric acid solution containing sodium nitrate
- P12 Venini, Electromagnetic Stirring in Ladle Furnace
- P13 Venini, New ABB automation for the aluminium hot rolling mill at Impol Seval, Sevojno-Serbia
- P14 Avramović Lj., Solvent extraction of palladium from chloride solutions
- P15 Čirić M., Defining Of The Available Secondary Energy In The Production Process Of Sulphuric Acid The Process Of Sulphuric Acid Production
- P16 Filipović D., Reduction of tungsten oxide in vertical tube reactor. Mathematical model for estimate of time reduction
- P17 Grigorova, The Technological Parameters Of Fayalite Concentrate Agglomeration - Sintering And Pelletization
- P18 Marinov, Thermodynamics Of Some Interactions In The System Mn-Fe-Si-V-Ca-O-C
- P19 Paunović, Effect Of Po43- To The Morphology Of Ag Deposited By Non-Stationary Current Regimes
- P20 Zlatičanin, Mathematical model for microsegregation of Cu rich Al-Cu15wt.-%-Mg Alloys
- P21 Sladojević, Quality control of rails
- P22 Cvijović I., High-temperature Cyclic Oxidation of Ti3Al-Based Alloys
- P23 Patarić, Characterization of Electromagnetic Casting 2024 Al Alloy Ingots
- P24 Radović Ž., Thermal shrinkage during steel solidification
- P25 Stojanović, Usage Mechanochemical Activated Natural Apatite For Removing Uranium From Contaminated Soil

4th Balkan Conference on Metallurgy

Scientific achievements and perspectives of metals industry in South-East Europe

27 - 29 September, 2006
 Zlatibor, SERBIA

CONFERENCE PROGRAMME

Supported by:

Ministry of Science and Environmental Protection
 Republic of Serbia



Lecture hall 1

Chairpersons: Milisav Lalović and Ana Kostov

- 09:00 Romhanji, Problems and Prospect of Al-Mg Alloys Application in Marine Constructions
- 09:30 Radmilović, Core-Shell Structures And Precipitation Kinetics Of $Al_3(Sc,Zr) L_{12}$ Intermetallic Phase In Al-Rich Alloy
- 10:00 Pavlović (MESSER-TEHNOGAS), Application of oxygen for melting process of metals
- 10:15 Pavlović (MESSER-TEHNOGAS), Greater economy in the extrusion of aluminium sections
- 10:30 Grigorova, Electric-Arc-Carbothermic Processing Of Agglomerated Fayalite Waste
- 10:45 Karbowniczek, Influence of high chromium oxide content in slag on its foaming possibilities
- 11:00 Manolov, Mathematical modeling of the processes of ferromanganese nitriding
- 11:15 Popovski, Silver Electrorefining by Non-Stationary Potential Current Regimes
- 11:30 COFFEE BREAK
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- 11:45 Nikolić, Influence of organic impurities on the phenomena of crystallization process of $Al(OH)_3$ from caustic soda solutions
- 12:00 Drndarević, Modelling Of Sintering Process
- 12:15 Elmaghraby, Reductive Leaching of Manganese Dioxide Ore Concentrate in Sulphuric Acid Using Sugar, Molase, Starch and Scum

Lecture hall 2

Chairpersons: Dragana Živković and Dimitrios Panias

- 10:30 Žák, Phase Composition And Structure Of The Rapid Quenched Nd-Fe-B Alloys
- 10:45 Talijan N., Electrical And Mechanical Properties Of Silver Based Electrical Contact Materials
- 11:00 Asanović, The Mechanical Behavior And Shape Memory Recovery Of Cu-Zn-Al Alloys
- 11:15 Đaković, Recrystallisation of CuZn30 alloy with small contents of Fe and P and the implied consequences for deep drawing processing
- 11:30 COFFEE BREAK
- 11:45 Delijić, Mechanical Behavior and Corrosion Resistance of AA8006 sheets
- 12:00 Filipović M., Application of the Thermal Analysis Technique for Characterization of Cu Phases in Al-Si-Cu Alloys
- 12:15 Dimitriu, The advantages of substitution the composites for high technologies with titanium alloys
- 12:30 Dhuka, A Quantitative Investigation of Multiphase Diffusion in the Fe-Zn Binary System
- 12:45 LUNCH
- 13:00 EXCURSION to Mokra Gora and Šarganska osmica
- 18:30 POSTER SECTION

Lecture hall 3

- 10:30 ROUND TABLE: "Actual position of metallurgical branch and education in Serbian industry", moderator Dr. Toplica Pavlović

POSTER SECTION

- P26 Martinović, Application of hydro-isolating and anticorrosive coatings based on secondary sulfur
- P27 Martinović, Sulfur agglomeration of power-plant ashes and removing of sub-micro ash particles
- P28 Mišić, Technological aspect processing and dead roasting mechanism of polymetallic sulfide concentrates
- P29 Obradović, Gold leaching with thiourea from old bor flotation tailings
- P30 Vatandooost, Control of Effective Parameters on Particle Size of Electrolytic Copper Powder by Qualitek Software
- P31 Kasemi, The evolution characters of a-3 steel in corrosive environment of vlorabay
- P32 Anđić, Synthesis and sintering of Cu- Al_2O_3 nanocomposite powders produced by thermochemical route
- P33 Čirković, Industrial investigations of brass scrap recycling in the aim of copper and zinc-oxide production
- P34 Cvijović M., Influence of the termomechanical treatment on dispersion of Pb in brass CuZn39Pb3 products and the ways of chemical determination of Pb after that treatment
- P35 Gomidželović, Thermodynamic analysis of AuIn - Sb system using Oelsen calorimetry
- P36 Karastojković, The analyse of thermal stresses when the elongation is free or hindered
- P37 Katavić, Chemical And Structural Inhomogeneity Of The Centrifugally Casted Cr-Mo Steel Tubes
- P38 Maksimović, Morphology of electrodeposited silver powder particles
- P39 Radojević, Microhardness Of Nickel Electrodeposits On Different Substrates
- P40 Radojević, A Brick-Wall Model for Calculating Young's Modulus of Particulate Polymer Composites
- P41 Rajković, Copper matrix hardening by commercial alumina particles
- P42 Volkov-Husović, Implementation of Image Analysis for Characterization of Refractories and Ceramic Fibres
- P43 Volkov-Husović, A Thermal shock investigation in alumina based refractory: anisotropy, temperature and stress distribution
- P44 Avramović Z., The Corrosion of Brass and its Inhibition in Acidic Sulphate Solutions
- P45 Ivanov, The influence of gelatine on the corrosion behaviour of cold worked copper wire in alkaline media
- P46 Kostov, Comparative Thermodynamic Study of Semiconductor Ga-Ge-Sb System
- P47 Radović Lj., The influence of thermo mechanical treatment on recrystallization of AlMg4.5Cu0.5 alloy
- P48 Gavrilovski, The Possibility Of Improving The Methodology For Economic-Metallurgic Iron Ores Valuation
- P49 Martinović, Optimization of non-transparent non-crystal silica production process

Lecture hall 1

- 09:00 Ilić, Theoretical and practical aspects of aluminium alloying with refractory metals
- 09:15 Boccacini, Characterization of thermal shock damage in cordierite-mullite refractory materials by non-destructive methods
- 09:30 Maksuti, The influence of vanadium on the microstructure and mechanical properties, of submerged-arc welded metal
- 09:45 Mišković, The Structure And Mechanical Properties Of An Aluminium A356 Alloy Base Composite With Al_2O_3 Particle Additions (MMC)
- 10:00 Nestorović, The Strengthening by Anneal Hardening Effect in a Cast CuAl10 and CuZn10 Alloys
- 10:15 Vencl, Tribological properties of Al-Si alloy A356 reinforced with Al_2O_3 particles
- 10:30 Gulšija, Improvement the Production Technology of Ductile Iron Radial Castings
- 10:45 Čirić R., Distribution Of Alloying Elements In The Frictionally Welded 1060 and M2 Steel Joint
- 11:00 Maksimović, Morphology and composition of electrodeposited Ni-Co alloy powders
- 11:15 Adewuyi, Experimental characterisation of effect of isothermal transformation on the mechanical properties and microstructure of austempered ductile iron
- 11:30 Amer, Special Steels And The Requirements of Heat Treatment
- 11:45 COFFEE BREAK
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- 12:00 CLOSING CEREMONY

Other Events

General Assembly of BUM

Wednesday 27th at 13:00h, Lecture Hall 2

XII Meeting of Administrative Board of BUM

Wednesday, 27th at 18:00h, Lecture Hall 2

General Assembly of Association of Metallurgical Engineers of Serbia

Thursday, 28th at 12:00, Lecture Hall 3