

Organizers:

Association of Metallurgical Engineers of Serbia
Faculty of Technology and Metallurgy, University of Belgrade
Serbian Foundrymen's Society
Institute for Technology of Nuclear and Other Mineral Raw Materials
Institute of Chemistry, Technology and Metallurgy
Vinča Institute of Nuclear Sciences
Lola Institute
Metallurgical Academic Network of SEE Countries

FINAL PROGRAMME

MME SEE

2015

Metallurgical & Materials
Engineering Congress
of South-East Europe

Crowne Plaza Hotel
June, 3rd – 5th 2015, Belgrade, Serbia
www.mme-see.org



Wednesday, June 3rd 2015

17:00 - 19:00 Registration

19:00 - 20:30 Welcome reception

Thursday, June 4th 2015

9:30 - 10:00 Congress opening:

Prof. Dr. Željko Kamberović, president AMES

Prof. Dr. Đorđe Janačković, dean TMF

Prof. Dr. Branko Bugarski, dep. Minister, Ministry of Education, Science and Technological Development, Republic of Serbia

Moderators: Željko Kamberović, Nadežda Talijan

10:00 - 10:30 Kemal Delijić, CHALLENGES AND OPPORTUNITIES FOR ALUMINUM BASED MATERIALS - RESEARCH AND INDUSTRIAL PERSPECTIVES IN EU AND SEE STATES

10:30 - 11:00 Marjan Mačkošek, FUTURE PROSPECTS OF STEEL

11:00 - 11:30 Coffee break

Moderators: Milan Jovanović, Vesna Maksimović

11:30 - 11:45 Varužan Kevorkijan, RESEARCH PRIORITIES IN THE DEVELOPMENT OF FUTURE GENERATIONS OF WROUGHT ALUMINIUM ALLOYS

11:45 - 12:00 Srđan Milenković, PHYSICAL SIMULATION OF SOLIDIFICATION: FROM PREDICTING CAST MICROSTRUCTURES TO HIGH-THROUGHPUT SCREENING OF SOLIDIFICATION-MICROSTRUCTURE RELATIONSHIPS

12:00 - 12:15 Iztok Naglič, SYNTHESIS, CHARACTERIZATION AND MECHANICAL PROPERTIES OF ALUMINIUM ALLOYS WITH QUASICRYSTALS

12:15 - 12:30 Celine Dewaghe, IMPACTS OF LIME QUALITY ON ALUMINA PRODUCTION USING THE BAYER PROCESS

12:30 - 12:45 Vaso Manojlović, SECONDARY ALUMINIUM AS A REDUCING AGENT IN THE ALUMINOTHERMIC PROCESSES

12:45 - 13:00 Jarmila Trpčevska, CHARACTERIZATION OF INTERMEDIATE PRODUCTS DURING SECONDARY COPPER PRODUCTION

13:00 - 15:00 Lunch break

Moderators: Martin Debelak, Miljana Popović

15:00 - 15:30 Mile Đurđević, NEMAK SOLUTIONS FOR HIGHLY LOADED CYLINDER HEADS

15:30 - 16:00 Boštjan Markoli, PHYSICAL-METALLURGICAL ASPECT OF FORMATION OF CORE-SHELL AND HOLLOW NANOSPHERES

16:00 - 16:15 Daniela Dragomir, CARBURIZING PROCESS ACCELERATION IN THE PRESENCE OF ALKALINE - EARTH OXIDES

16:15 - 16:30 Vladan Ćosović, PREPARATION OF SILVER NANOPARTICLE METAL OXIDE COMPOSITE POWDERS WITH MULTIPLE OXIDES USING TEMPLATE METHOD

16:30 - 16:45 Ana Alil, INTERGRANULAR CORROSION SUSCEPTIBILITY OF AN AA5083 Al-Mg ALLOY PROCESSED BY ACCUMULATIVE ROLL BONDING (ARB)

17:00 - 18:00 Poster session

20:00 - 23:00 Congress dinner

Friday, June 5th 2015

Moderators: Tatjana Volkov-Husović, Karlo Raić

| | | |
|-------|---------|--|
| 10:30 | 10:45 | Milena Matijašević-Clarke, PRESSURE EQUIPMENT DIRECTIVE 97/23/EC- FUNDAMENTAL SAFETY PRINCIPALS, IMPLICATIONS AND CHALLENGES FOR BUSINESS |
| 10:45 | - 11:00 | Vasily Lutsyk, 3D Models Assembling of T-x-y Diagrams Fe(Ni)-Cu-S |
| 11:00 | - 11:15 | Martina Laubertova, SAMPLING PROCEDURE OF INPUT MATERIALS AT SECONDARY COPPER PROCESSING |
| 11:15 | - 11:30 | Vasily Lutsyk, DETERMINATION OF MICROCONSTITUENT SETS BY MEANS OF MASS BALANCE DIAGRAMS |
| 11:30 | - 11:45 | Ana Beroš, THE INFLUENCE OF THERMAL STRESS INDUCED ON THE MEASURED HARDNESS BILLETS ALLOYS EN AW6060 PRODUCED DIRECT CHILL CASTING PROCEDURE |
| 11:45 | - 12:15 | Coffee break |
| 12:15 | - 12:30 | Ana Tomova, CHEMICAL FUNCTIONALIZATION OF CNTS FOR GAS SENSOR APPLICATION |
| 12:30 | - 12:45 | Gvozden Jovanović, CALCULATION OF LOCAL CLEAVAGE FRACTURE STRESS IN A MEDIUM-CARBON V MICROALLOYED STEEL USING FINITE ELEMENT ANALYSIS |
| 12:45 | - 13:00 | Vesna Nikolić, UTILIZATION PROPERTIES OF Ni-Pd/Al ₂ O ₃ CATALYST SUPPORTED ON ALUMINA BASED FOAM |
| 13:00 | - 14:00 | Networking |
| 14:00 | - 14:30 | Closing ceremony <i>Željko Kamberović, Nenad Radović</i> |

Congress is financially supported by:

**The Ministry of Education, Science
and Technological Development
Republic of Serbia**



Le Belier Kikinda



Impol-Seval Sevojno



Kefo Beograd



Poster session

- P1 Miroslav Sokić, COPPER LEACHING FROM CHALCOPYRITE CONCENTRATE IN OXIDATIVE SULPHURIC ACID SOLUTION
- P2 Nada Štrbac, THERMODYNAMIC AND KINETIC ASPECTS OF COPPER CONCENTRATE ROASTING PROCESS FROM THE ORE DEPOSIT VELIKI KRIVELJ
- P3 Milan Petrov, MECHANOCHEMICALLY HEAT TREATMENT TO OBTAIN THE MASK PIGMENT
- P4 Rossitza Paunova, COMPARATIVE KINETICS INVESTIGATION OF THE TERNARY SYSTEM Fe_2O_3 - MnO - V_2O_5 , USING WASTE PRODUCT
- P5 Aleksandar Maslarević, MICROSTRUCTURAL CHARACTERIZATION OF WC AND CRC BASED COATINGS APPLIED BY DIFFERENT PROCESSES
- P6 Silvana Dimitrijević, THE EFFECT OF GOLD COMPLEX BASED ON MERCAPTOTRIAZOLE ON PHOTORESIST LAYER OF PRINTED CIRCUIT BOARD
- P7 Zoran Karastojković, WETTING CHARACTERISTICS AND SOLDERING OF CHEMICAL NICKEL COATINGS
- P8 Aleksandra Patarić, ELECTROMAGNETIC FIELD AS A GRAIN REFINING TOOL IN Al ALLOYS
- P9 Dragutin Nedeljković, THE APPLICATION OF THE DENSE COMPOSITE POLYMER MEMBRANES FOR THE WASTE GASES TREATMENT
- P10 Aleksandra Ivanović, EFFECTS OF THE ANNEALING TEMPERATURE AND TIME ON THE MICROSTRUCTURAL CHANGES AND CORRESPONDING MECHANICAL PROPERTIES OF COLD-ROLLED PdNi5 WIRES
- P11 Pal Terek, IMPROVEMENT OF EJECTION TEST USED FOR EVALUATION OF SOLDERING TENDENCY BETWEEN CASTING AND DIE MATERIALS
- P12 Mirjana Stojanović, LONG-TERM BEHAVIOR OF DEPLETED URANIUM IN THE ENVIRONMENT
- P13 Branislav Marković, MECHANISM OF COPPER (I) SULPHIDE LEACHING IN OXIDATIVE HYDROCHLORIC ACID SOLUTION
- P14 Zoran Janjušević, INTERPHASE PROCESSES BETWEEN LIQUID METAL AND SILICONE MOULD
- P15 Peter Majerič, CONTROLLED SYNTHESIS OF GOLD NANOPARTICLES WITH USP
- P16 Biserka Trumić, THE EFFECT OF MICROALLOYING PLATINUM WITH ZIRCONIUM AND TITANIUM ON ITS MECHANICAL CHARACTERISTICS
- P17 Mohammed Jasim Kadhim, EFFECT OF SENSITIZATION ON PITTING CORROSION RESISTANCE OF LASER MELTING 304 STAINLESS STEEL
- P18 Aleksandar Mihajlović, SLOW COOLING OF FLASH FURNACE AND CONVERTER SLAG-MICROSTRUCTURAL INVESTIGATIONS
- P19 Waleed Omymen, ELECTROCHEMICAL SYNTHESIS OF PROTECTIVE POLYANILINE COATING ON ALUMINUM
- P20 Ayad Salem, CORROSION OF STEEL WITH COMPOSITE POLYANILINE COATINGS
- P21 Stjepan Kožuh, MICROSTRUCTURAL ANALYSIS OF CARBON STEEL AFTER SHIELDED METAL ARC WELDING PROCESS
- P22 Anđelika Bjelajac, EFFECT OF MERCAPTO SILANE CONCENTRATION ON CDS NANOPARTICLES STABILIZATION
- P23 Natalija Dolić, ANALYSIS OF THE MICROSTRUCTURAL CONSTITUENTS OF ALUMINUM ALLOY Al-Mg IN CAST AND HOMOGENIZED STATE
- P24 Jelena Pantić, SYNTHESIS AND CHARACTERIZATION OF SILVER NANO-POWDER
- P25 Nataša Tomić, TESTING OF THE ADHESION EFFECTS OF EPOXY AND ACRYLIC ADHESIVES ON OPTICAL FIBERS
- P26 Radomir Radiša, USING MAGMA⁵ TO OPTIMIZE THE PARAMETERS OF CASTING AN EXCAVATOR TOOTH HOLDER
- P27 Vesna Conić, SX-EW TREATMENT OF THE SOLUTION OBTAINED AFTER ACID LEACHING RTB BOR FLOTATION TAILING