

Organizers:

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

FINAL PROGRAMME

MME SEE 2019

Metallurgical & Materials
Engineering Congress
of South-East Europe

Falkensteiner Hotel
June, 5th – 7th 2019, Belgrade, Serbia
www.mme-see.org



Wednesday, June 5th 2019

17:00 - 19:00 Registration

19:00 - 20:30 Welcome reception

Thursday, June 6th 2019

8:30 - 9:30 Registration

9:30 - 10:00 Congress opening: *Representatives of Organizers, Ministry of Education, Science and Technological Development, and Belgrade University*

Moderators: Željko Kamberović, Miljana Popović

10:00 - 10:30 *Plenary Lecture:* Prof. Dr. Bernd Friedrich, INNOVATIVE RECYCLING OF POLYMETALLIC EOL-PRODUCTS – CHALLENGES AT THE INTERFACES OF THE PROCESS CHAIN, RWTH Aachen University

10:30 - 11:00 *Plenary Lecture:* Mr. Tian Jinglei, APPLICATION AND PRACTICE OF MULTI-POLLUTANT COOPERATIVE CONTROL TECHNOLOGY FOR FLUE GAS IN IRON AND STEEL INDUSTRY, HBIS Technology Research Institute

11:00 - 11:30 Coffee break

Moderators: Dragomir Glišić, Jovana Ružić

11:30 - 12:00 *Plenary Lecture:* Wang Haibei, PRESENT DEVELOPMENT AND TENDENCY ABOUT THE TREATMENT OF SECONDARY RESOURCE IN CHINA, BGRIMM Technology Group

12:00 - 12:15 *Invited Lecture:* Mile Đurđević, PROPERTIES OF CAST ALUMINUM ALLOYS SUITABLE FOR PRODUCTION OF E-MOBILITY COMPONENTS

12:15 - 12:30 *Oral presentation:* Varužan Kevorkijan, INITIAL STEPS ON THE ROAD TO THE DIGITALISATION OF THE IMPOL ALUMINUM INDUSTRY

12:30 - 12:45 *Oral presentation:* Emre Özer, X-RAY DIFFRACTION ANALYSIS ON MECHANICALLY ALLOYED ALUMINUM COMPOSITE POWDERS CONSISTING OF NANO ALUMINA PARTICLES AND MULTIWALL CARBON NANOTUBES

12:45 - 13:00 *Oral presentation:* Franjo Kozina, INVESTIGATION OF EQUILIBRIUM AND NON-EQUILIBRIUM SOLIDIFICATION OF Al-2.2Mg-2.1Li ALLOY

13:00 - 13:15 *Oral presentation:* Demet Zalaoğlu, ON THE COMPRESSIBILITY BEHAVIOR OF ALUMINUM COMPOSITE POWDERS BEARING VARIOUS FRACTIONS OF TITANIUM DIBORIDE PARTICULATES ALLOY

13:15 - 14:30 Lunch break

Moderators: Karlo Raić, Milena Matijašević-Clarke

14:30 - 14:45 *Invited Lecture:* Pešić Batrić, ELECTRODEPOSITION OF LANTHANUM IN ROOM TEMPERATURE IONIC LIQUID ELECTROLYTE

14:45 - 15:00 *Invited Lecture:* Srećko Stopić, HYDROMETALLURGICAL TREATMENT OF PRIMARY AND SECONDARY MATERIALS IN THE PRODUCTION OF THE CRITICAL METAL OXIDES

15:00 - 15:15 *Oral presentation:* Vasiliki Karmali, VALORIZATION OF LEACHING RESIDUES OF LATERITES FOR THE PRODUCTION OF INORGANIC POLYMERS

15:15	-	15:30	<i>Oral presentation:</i> Milisav Ranitović, INTEGRATED RECYCLING OF THE CRITICAL RAW MATERIALS FROM WASTE ELECTRONICS
15:30	-	15:45	<i>Oral presentation:</i> Jelena Brankov, THE INFLUENCE OF THE ADDITION OF DIFFERENT TYPES OF LIME ON THE SINTERING PROCESS
15:45	-	16:00	<i>Oral presentation:</i> Liu Sanping, SCIENTIFIC COOPERATION THROUGH JOINT LABORATORY AND THE PRESENT DEVELOPEMENT AND TENDENCY ABOUT NICKEL LATERITE METALLURGY PROCESS
16:00	-	18:00	Poster session
20:00	-	00:00	Congress dinner

Friday, June 7th 2019

Moderators: Sanja Martinović, Mile Đurđević

10:00	-	10:30	<i>Plenary Lecture:</i> Ş. Hakan Atapek, CORSON ALLOYS: EFFECT OF MICROSTRUCTURAL FEATURES ON THE PROPERTIES, Kocaeli University, Faculty of Engineering, Turkey
10:30	-	11:00	<i>Invited Lecture:</i> Aleksandra Daković, CATIONIC SURFACANTS MODIFIED KAOLIN-EFFICIENT ADSORBENTS FOR MYCOTOXINS
11:00	-	11:15	<i>Oral presentation:</i> Milena Matijasevic-Clarke, CERTIFICATION PROCESS FOR THE MANUFACTURE OF METALLIC PARTS AND COMPONENTS USING ADDITIVE MANUFACTURING- 3D PRINT TECHNOLOGY
11:15	-	11:30	<i>Oral presentation:</i> Dejan Momčilović, STATISTICAL ANALYSIS OF SHEAR STRENGTH OF WELDS IN WELDED FABRIC FOR CIVIL ENGINEERING WITH APPLICATION OF NEW TOOL DESIGN
11:30	-	11:45	<i>Oral presentation:</i> Marios Kazasidis, THE EFFECT OF INCONEL 718 ADDITION ON THE CAVITATION EROSION OF NICKEL MATRIX COLD SPRAYED COATINGS
11:45	-	12:15	Coffee break
12:15	-	12:30	<i>Oral presentation:</i> Siniša Mesarović, COMPOSITION DEPENDENCE OF INTERFACE ENERGY AS A DRIVING FORCE FOR DIFFUSION BONDING OF CERAMICS
12:30	-	12:45	<i>Oral presentation:</i> Jovana Ružić, INVESTIGATION OF METAL POWDERS USING X-RAY COMPUTED TOMOGRAPHY
12:45	-	13:00	<i>Oral presentation:</i> Seyda Polat, THERMODYNAMIC MODELLING OF 3C-6Si-1W-1Al DUCTILE CAST IRON
13:00	-	13:30	Closing ceremony

Poster session

P1	Vuksanović Marija, EFFECT OF POLYHEDRAL OLIGO SILSESQUIOXANES (POSS) PARTICLES ON CAVITATION RESISTANCE OF HYBRID COMPOSITE FILMSCHARACTERIZATION
P2	Volkov Husović Tatjana, CAVITATION EROSION BEHAVIOR OF THE CuAlNi SHAPE MEMORY SAMPLES
P3	Savić Veljko, GLASS- CERAMICS OBTAINED FROM COPPER MINE TAILINGS AND GLASS CULLETS
P4	Topalović Vladimir, CHARACTERIZATION OF LANTHANUM-DOPED PHOSPHATE GLASS
P5	Bugarčić Mladen, SYNTHESIS AND CHARACTERIZATION OF COMPOSITES BASED ON EXPANDED VERMICULITE AND FERRITE SPINELS
P6	Ćosović Vladan, EFFECT OF In_2O_3 ADDITION ON STRUCTURE AND PROPERTIES OF HIGH-ENERGY MECHANICALLY MILLED Ag-SnO ₂
P7	Petronijević Nela, SOFTWARE SIMULATION OF THE PROPOSED INTEGRAL TREATMENT OF ACIDIC WASTE WATERS AND OVERBURDEN OF THE CERVOVO COPPER MINE
P8	Stanković Srđan, PROPOSAL FOR INTEGRAL TREATMENT OF THE ACIDIC WASTE WATERS AND OVERBURDEN OF THE CERVOVO COPPER MINE
P9	Pavkov Vladimir, CHARACTERIZATION OF METAL-GLASS COMPOSITES MATERIAL
P10	Mihailović Marija, CHARACTERIZATION OF Ti6Al4V ALLOY OBTAINED BY HOT FORGING PROCESS
P11	Avdušinović Hasan, HIGH TEMPERATURE TRANSFORMATION OF THE AUSFERRITE MICROSTRUCTURE
P12	Radović Ljubica, THE INFLUENCE OF PREFORMS QUALITY ON STEEL CARTRIDGE CASE PRODUCTION
P13	Marinković Jelena, RESISTANCE OF EN AW-7075 ALLOY IN T6 AND T77 TEMPER TO THE EXFOLIATION AND INTERGRANULAR CORROSION
P14	Delić Alen, THE INFLUENCE OF SOLUTION ANNEALING ON MICROSTRUCTURE AND MECHANICAL PROPERTIES HEAT-RESISTANT CAST STEEL HK30 MODIFIED BY NIOBIUM
P15	Laketić Slađana, SURFACE MODIFICATION OF A TITANIUM IMPLANT MATERIAL BY A PICOSECOND Nd:YAG LASER IN AIR AND ARGON ATMOSPHERE
P16	Bradarić Tomislav, END-BLOW CARBON CONTROL IN SMALL CAPACITY CONVERTERS - CHARACTERISTICS AND POSSIBLE IMPROVEMENTS
P17	Vasić Aleksandar, SOFTWARE FOR THE REGULATION OF BURDEN DESCENDING SPEED THROUGH BLAST FURNACE (SRDS)
P18	Petronijević Nela, POSITION OF CRITICAL RAW MATERIALS WITHIN THE CONCEPT OF CIRCULAR ECONOMY
P19	Mihajlović Slavica, QUARTZ SAND PROCESSING METHODS FOR THE APPLICATION IN WATER GLASS PRODUCTION
P20	Petrović Jelena, GRAPE POMACE HYDROCHARS AS POTENTIAL ADSORBENTS OF Cd(II) AND Al(III) FROM AQUEOUS SOLUTIONS
P21	Petrović Marija, ALKALI MODIFIED CORN COB HYDROCHAR AS BIOSORBENT OF Mn^{2+} IONS FROM AQUEOUS SOLUTIONS
P22	Polat Seyda, MICROSTRUCTURAL AND THERMAL CHARACTERIZATION OF 3.2C-5Si-1W NOVEL DUCTILE CAST IRON
P23	Dimitrijević Silvana, STABILITY OF GOLD COMPLEX BASED ON MERCAPTOTRIAZOLE IN ALKALINE MEDIA
P24	Dimitrijević Stevan, EFFECT OF ALUMINA COATINGS ON CORROSION BEHAVIOR OF X10CrAlSi7 STEEL IN SULFURIC ACID
P25	Manasijević Dragan, MICROSTRUCTURAL AND THERMAL ANALYSIS OF Cu-Al-Mn-Ag SHAPE MEMORY ALLOYS

P26	Balanović Ljubiša, THERMAL CONDUCTIVITY OF THE LOW-MELTING Bi-In EUTECTIC ALLOYS
P27	Dolić Natalija, EVALUATION OF EN AW-5083 ALUMINUM ALLOY INGOTS HOMOGENEITY BY MEASURING HARDNESS
P28	Slović Zoran, TUNDISH METALLURGY – ROUTE TO CLEAN STEEL MANUFACTURING
P29	Ivanović Aleksandra, Cu-Ni-Sn: INVESTIGATION OF THE EFFECT OF B AND Li ON MECHANICAL PROPERTIES
P30	Djordjević Nataša, Bi ₂ O ₃ INFLUENCE ON ELETRONIC CERAMICS SINTERING PROCESS AND FINALL PROPERTIES
P31	Djordjević Nataša, ACTIVATION AND RELAXATION TIME INFLUENCE ON CORDIERITE CERAMICS
P32	Hu Lianxi, FABRICATION AND PROPERTIES OF CU-BASED COMPOSITE REINFORCED WITH ULTRAFINE WC AND NANO Al ₂ O ₃ PARTICLES BY POWDER METALLURGY PROCESS
P33	Pavlović Marko, SYNTHESIS AND CHARACTERIZATION OF NEW REFRACTORY COATINGS BASED ON BASALT
P34	Martinović Sanja, REMOVAL OF COPPER BY PELLETIZED FLY ASH
P35	Spasic Aleksandar, ELECTROCOALESCENCE PROCESS BASED ON ELECTROHYDRODYNAMICS PRINCIPLES
P36	Özgenç Özlem, EFFECT OF WATERBORNE ACRYLIC VARNISHES CONTAINING BARK EXTRACT ON THE WEATHERING PERFORMANCE OF IMPREGNATED WOOD
P37	Vardanyan Arevik, BIOLEACHING OF PYRITE BY MIXED CULTURES OF IRON AND/OR SULPHUR OXIDIZING BACTERIA ISOLATED IN ARMENIA
P38	Janjušević Zoran, CONCEPTION OF TEXTURE IN METALLURGY, SCIENCE OF MATERIALS, GEOMORPHOLOGY, AND ARTS
P39	Dikić Stefan, INTRAGRANULAR NUCLEATION OF FERRITE IN TITANIUM-VANADIUM MICROALLOYED MEDIUM CARBON STEEL DURING ISOTHERMAL TRANSFORMATION
P40	Jovanović Gvozden, FINITE ELEMENT ANALYSIS OF THE CLEAVAGE FRACTURE IN MEDIUM CARBON V AND TiV MICROALLOYED FORGING STEELS
P41	Vitomir Jelenka, AGE HARDENING BEHAVIOR OF Al-Mg-Si ALLOYS WITH DIFFERENT Mg AND Si CONTENT
P42	Chaozhen Zheng, STUDY ON ROASTING PROCESS AND SILICON BEHAVIOR OF HIGH-SILICON ZINC CONCENTRATE
P43	Maruškinová Gréta, HYDROMETALLURGICAL TREATMENT OF EAF DUST BY ALKALINE LEACHING WITH THE AIM TO PRODUCE ZINC OXIDE WITH SPECIFIC CHARACTERISTICS
P44	de Souza T.F., STUDY OF A COLD DRAWING PROCESS BY SIMULATION AND EXPERIMENTAL TESTS
P45	Štrbac Nada, OXIDATION ROASTING OF PENTLANDITE SAMPLES AT ELEVATED TEMPERATURES
P46	Liu Sanping, A NOVEL LEACHING PROCESS FOR LATERITE NICKEL ORE
P47	Wang Haibei, STUDY ON A NOVEL CHLORIDIZING VOLATILIZATION PROCESS FOR THE TREATMENT OF JAROSITE
P48	Radovanović Dragana, LEACHING OF SOLIDIFIED/STABILIZED METALLURGICAL WASTE UNDER ENVIRONMENTAL CONDITIONS
P49	Šoštarić Tatjana, REMOVAL OF Mn(II) IONS FROM SYNTHETIC SOLUTION USING ADSORBENTS BASED ON APRICOT AND PEACH SHELLS

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