

▶ PROGRAM



ČESKÁ  
SLÉVÁRENSKÁ  
SPOLEČNOST



# 47. SLÉVÁRENSKÉ DNY®

S DOPROVODNOU VÝSTAVOU

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7. MEZINÁRODNÍ PHD KONFERENCÍ

23. - 24. ČERVNA 2010

HOTEL CONTINENTAL, KOUNICOVA 6, BRNO

14.15 – 17.30 SESSION „A“

(main conference hall CONTINENTAL)

14.15 – 15.45 Metallurgy of Foundry Alloys

„Effect of structural characteristics on mechanical properties of die-cast Al alloys“

Říhová M., Čech J., Brno University of Technology, Czech Republic

„Thermal processing of zinc alloys“

Machuta J., Technical University of Liberec, Czech Republic

„Determination of eutectic and liquidus temperatures of austenitic nickel cast irons“

Kaňa V., Brno University of Technology, Czech Republic

„Effect of metallurgical quality of cast iron on its graphitization“

Laštovica J., Brno University of Technology, Czech Republic

„Efficiency of steel castings filtration“

Pernica V., Tomek Z., Brno University of Technology, Czech Republic

„Segregation reinforced phase in AlSi-CrFeC composite cast“

Duleba A., Cholewa M., Silesian University of Technology, Gliwice, Poland

„Thermal derivative analysis of sulfur polymer for skeleton reinforcement Al-Si composites application“

Scelina D., Silesian University of Technology, Gliwice, Poland

„Presence of inclusions in the AlSi9Cu1 alloy“

Magat V., Bolibruchová D., University of Žilina, Slovakia

15.45 - 16.00 Coffee break

16.00 – 17.30 Metallurgy of Foundry Alloys II

„Matching methods for monitoring of dilatation changes during solidification and cooling of aluminium alloys castings“

Morávek J., Technical University of Liberec, Czech Republic

„Monitoring of linear changes during shrinking of zinc alloy castings“

Pěnička P., Technical University of Liberec, Czech Republic

„Statistical analysis of grain site distribution for different AZ91/SiC composites“

Gracz B., Zak P., Lelito J., Krajewski W., University of Science and technology, Cracow, Poland

„Thermal lattice Boltzmann method accuracy analysis for AZ91 alloy and AZ91/SiC composite“

Szucki M., Zak P., Lelito J., Suchy J., University of Science and technology, Cracow, Poland

„Modification mechanism of hyper eutectic aluminium silicon alloys“

Nguyen Hong Hai, Technical University of Ostrava, Czech Republic

„Investigation of Al-Zn foundry alloys with Sb addition“

Klančnik, G., University of Ljubljana, Slovenia

„Improvement of the extruding and heat treatment technology of Al-Mg-Si alloy“

Steinacher M., University of Ljubljana, Slovenia

„Investigations about the influence of casting methods on the strength properties of aluminium casting alloys in the series-production of cylinder crankcases“

Scharf S., Otto-von-Guericke University Magdeburg, Germany

„The influence of the location of the heat center on the thickness of the surface alloy layer“

Walasek A., Silesian University of Technology, Gliwice, Poland

14.15 – 17.45 SESSION „B“

(restaurant CONTINENTAL)

14.15 – 15.00 Sand Moulding Mixtures

„Moulding cement mixtures - ecological substitution for furan sands“

Burianová K., Brno University of Technology, Czech Republic

„Refractory ceramic shapes for moulds of massive castings“

Tomek L. et al., Brno University of Technology, Czech Republic

„Modification of zirconium coats by deoxidating additives“

Stachovec I., Brno University of Technology, Czech Republic

„The effect of sulphur content in chemically bonded sand moulds on the mechanism of penetration“ Miskolc

Svidró J.T., Technical University Miskolc, Hungary

15.00 – 16.00 Miscellaneous

„Cost evaluation of liquid metal production in electric furnaces - methodology development“

Figala V., Kavka V., Technical University of Ostrava, Czech Republic

„Developing of mould production cost model“

Polokova O. et al., Technical University of Ostrava, Czech Republic

„Non-destructive testing of iron castings by magnetic structurescope domena II – Promag“

Flanderka M., Technical University of Liberec, Czech Republic

„The application possibilities of computer tomography for casting properties“

Rehse Ch., Otto-von-Guericke University Magdeburg, Germany

„Requirements on the microstructure for bearing surfaces for the laser alloying of cylinder crankcases produced in gravity die casting“

Braunhardt M., Otto-von-Guericke University Magdeburg, Germany

16.00 - 16.15 coffee break

16.15 – 17.45 Simulation of Foundry Processes

„Mould filling simulation during wax injection process“

Kosour V., Brno University of Technology, Czech Republic

„Optimization of feeders with the use of computer simulation“

Fecko D., Vasková I., Technical University, Košice, Slovakia

„Free melt surface monitoring with the help of metal flow simulation in mould“

Kantorík R., Bolibruchová D., University of Žilina, Slovakia

„Assertion of controlling methods in foundry industry“

Volek J., Spojené slévárny, spol. s r.o., závod Krnov, Czech Republic

„Measuring and simulation calculations of temperature field in a plate casting“

Horáček J., Technical University of Liberec, Czech Republic

„Impact of the continuous casting process parameters on the crystallization front based on ANSYS FLUENT 12 simulation“

Sebzda W., Silesian University of Technology, Gliwice, Poland

„Selection of skeleton castings geometry based on mechanical 3D analysis“

Szuter T., Silesian University of Technology, Gliwice, Poland