

ISDM 2025, 10 th of April Conference schedule				
Time	HS Kupelwieser			
08:10-08:30	Opening words from vice rector and professor for non ferrous metallurgy Univ.-Prof. Dipl.-Ing. Dr.mont Helmut Antrekowitsch			
08:30-09:00	Opening words and company presentation by our main sponsor, 			
Start of the students' conference				
Time	HS Kupelwieser	SR D	HS AMAG (SR F)	HS Umweltschutz
09:00-09:20	Concept for Microstructure Optimization of Ti-6Al-4V in Wire Arc Additive Manufacturing via Ultrasonics, Marcel Czipin	Horizontal Continuous Casting: optimization of process parameters for a better billet center quality of soft martensitic stainless steels at BGH Freital steel mill , Jonas Uhlig	Microstructure and texture development of a Mg-6.8Y-2.5Zn-0.4Zr alloy (WZ73) under varying twin roll casting conditions , Franziska Ueberschär	
09:20-09:40	Digital Infrastructure for Advanced Automation in Open-Die Forging , Roy Rechenberg	Company Presentation : Treibacher Industrie AG 	As-cast condition of AlSi10Mg alloy depending on the cooling effect of the plaster mold , Kateřina Miczková	
09:40-10:00	Copper Alloys in Selective Laser Melting, Phillipp Novak	Binder optimization in the steel casting industry , Elenor Schwarz	The Heterogeneous Nucleation of Intermetallic Compound Phases on Oxides in Aluminum Alloys , Gyarmati Gábor	
 RHI Magnesita Coffee Break				

Time	HS Kupelwieser	SR D	HS AMAG (SR F)	HS Umweltschutz
10:30-10:50	Thermodynamic-kinetic Study of Pro-Eutectoid Phase Formation in Steel: Continuous Cooling Diagram Establishment via Thermal Analysis, Emre Akalin		Production Technology Development of a Gravity Casting , Levente Hajas	
10:50-11:10	CFD Modelling of Flow Characteristics in the Tundish Under Different Steel Bath Levels, Jiri Cupek		Recycling of WC-Co with vaporous zinc , Jann Warmuth	
11:10-11:30	Company Presentation: Inteco melting and casting technologies GmbH 		The effect of different grain refining fluxes and master alloy addition on the casting quality of an aluminum alloy , Levente Bogoly	
11:30-11:50	Solidification and Hot Tearing in Boron-Alloyed Steel Castings: Insights from Lab-Scale Experiments, Test Castings, and Simulations , Stefan Breyer		Investigations into Groove Rolling of the Magnesium Alloys ZAX210 and AZ80 , Jennifer Mantel	
 Inteco melting and casting technologies lunch break				

Time	HS Kupelwieser	SR D	HS AMAG (SR F)	HS Umweltschutz
13:10-13:30		Modification of non-metallic inclusions with alkali-elements , Benjamin Suppan	Company Presentation: AMAG Austria Metall AG 	Effect of Hydrogen on the Integrity of Low Alloy Steel Pipes Used in Natural Gas Transmission Systems , Tibor Bedö
13:30-13:50	Reduction and simultaneous carburization of fine ores in the fluidized bed , Andreas Seiberl	Influence of cobalt on the thermophysical properties of fayalite slags , Stefan Andrä	Investigation of different filter structures and materials for the removal of iron from a secondary Al-Si alloy by means of molten metal filtration on an industrial scale , Paul Schönherr	Investigation of higher amounts of tramp elements under reheating conditions of different steel grades by means of STA measurements , Mitra Madani
13:50-14:10	Atomization of Stainless Steel in the VIGA Process with Preheated Argon Gas , Alberto Angelini	An experimental investigation on material properties dependence from annealing method in case of low carbon mild steel , Bela Kondas		The Design of an Analog Camera-Based Image Processing System for Billet Tracking in Steel Manufacturing , Zsófia Forgács
14:10-14:30	Company Presentation: RHI Magnesita 			
Break				

Time	HS Kupelwieser	SR D	HS AMAG (SR F)	HS Umweltschutz
14:50-15:10	<i>Historical steel production and green steel technologies review ,</i> Peter Dézsi, Ramona Veszpremi	<i>Effect of the composition of metallurgical slags on the quality of the finished reinforcing steel product ,</i> Rajmond Gál	<i>Making Biathlon Trophy from Brass Waste ,</i> Klára Němčíková	<i>Computer Simulation Techniques of Ductile Iron Casting in Research & Development ,</i> Daniel Molnar
15:10-15:30	<i>Comparison of different evaluation methods to determine the recrystallization of austenite during hot working through double hit compression testing ,</i> Paul Gawes	<i>Development of an EERZ Model for the EAF Process Using Computer-Aided Thermodynamics ,</i> Hannes Prousch	<i>Numerical evaluation of pre-finishing passes for rebars ,</i> Richard Pfeifer	<i>Quality improvement of reinforcement steels ,</i> Fábián Bence
15:30-15:50	<i>Heat Treatment in the Rolling Mill - Steel Industry ,</i> Szabó Noémi Piroska	<i>Electrical Systems in EAF Steelmaking: Power Supply, Electrode Control, and Automation ,</i> Máté Jaczkó	<i>The Conceptual Design of an Automated Material Tracking System for Steel Production ,</i> Erik Borbás	<i>Utilization of Multimetallic Composites in FESS Technology ,</i> Jana Růžička
15:50-16:10	<i>Rolling Mill Process Technology Development and Optimization ,</i> Loksa Gergő	<i>Troubleshooting the arc regulator of the electric arc furnace ,</i> Tímár Ádám Zoltán	<i>Data Management Developments in a Hungarian Electric Steel Plant: Challenges and Solutions ,</i> Krisztián Wizner	