3515 Miskolc-Egyetemváros, Egyetem út 1.
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ISDM 2026 – Conference Programme

International Student Day of Metallurgy · Miskolc, Hungary · 28–30 October 2026

Plenary Session – 09:00–09:30

Time	Presenter	Title of presentation
09:00–09:30	George Kaptay	Equilibria of nanomaterials

Session 1 – Green Steel & Extractive Metallurgy – 09:30–11:00

Time	Presenter	Title of presentation
09:30–09:45	Richard Rosner	Surfactant-Enhanced Thiourea Leaching of Gold from Waste Electrical and Electronic Equipment
09:45–10:00	Niklas Manzl	External magnetic field effects on plasma arc dynamics in hydrogen plasma smelting reduction
10:00–10:15	Paul Schönherr	Plasma torch produced hydrogen plasma as a reduction agent and heating source in pyrometallurgy
10:15–10:30	Péter Dézsi	Decarbonising the EU Steel Industry: Production Trends, Technology Pathways and DRI Energy Costs
10:30–10:45	Diána Sipőcz	Secondary Slag Optimization: Process Control Steps Towards Circular Metallurgy
10:45–11:00	Erik Borbás	Energy-Conscious Production Planning

Coffee break – 11:00–11:30

Session 2 – Casting & Solidification – 11:30–12:45

Time	Presenter	Title of presentation
11:30–11:45	Gergő Konc	Effect of vanadium alloying on intermetallic phases in connection with AlSi9Cu3(Fe) alloy
11:45–12:00	Levente Hajas	Development process of a Zr–B-containing grain refining flux and its comparison with an industrially applied Ti–B-containing flux
12:00–12:15	Dániel Molnár	Development of a Multi-Layered Casting Method
12:15–12:30	Burak Yörükçü	Pressure-Inferred Rotation Rates in RMF-Driven Liquid-Metal Flow: A Wall-Resolved RANS Analysis
12:30–12:45	Máté István Nagy	Defect Analysis of Continuously Cast Steel Billets

Lunch break – 12:45–13:45

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Session 3 – Materials Engineering, Testing & Industrial Sensing – 13:45–15:00

Time	Presenter	Title of presentation
13:45–14:00	Aymen Aouti	Thermal Behavior of Ni–Ti Nanomultilayers for Potential Low-Temperature Brazing Applications
14:00–14:15	Bence Biliczki	Modernizing Industrial Data Acquisition Systems: Best Practices and Lessons Learned
14:15–14:30	Paulina Anna Kała	Feasibility of Solid Heat Sinks for the Isothermal Quenching of 100Cr6 Steel
14:30–14:45	Muhammad Khaddam Al Jameh	Grain Refinement of an Al Alloy by Friction-Assisted Lateral Extrusion Process
14:45–15:00	Béla Pakucs	mmWave Radar for Worker Wellbeing

Coffee break – 15:00–15:30

Session 4 – Steelmaking & Metal Forming – 15:30–17:00

Time	Presenter	Title of presentation
15:30–15:45	Rajmond Gál	Development of a Plant Data-Based Material Balance Model for Electric Arc Furnace Steelmaking
15:45–16:00	Lambert Restás	Weighing Systems and Process Automation at ÓAM Ózd Steelworks
16:00–16:15	Csongor Mátyás Gál	Investigation of the Basicity of Secondary Steelmaking Slag
16:15–16:30	Péter Pál Juhász	Carbon Steel Rebar Roughing Train optimization
16:30–16:45	Gábor Gyurán	EAF Dust recovery internship
16:45–17:00	Ádám Zoltán Timár	EAF Process Anomaly Detection and Fault Analysis Using Impedance Measurements

Short break – 17:00–17:15

Session 5 – Selected Topics in Metallurgy – 17:15–17:45

Time	Presenter	Title of presentation
17:15–17:30	Petra Zsófia Csok	CCT Diagrams in Steel Heat Treatment
17:30–17:45	Sándor Molnár	Energy Consumption in the Global Metallurgical Industry