

Programme

How decarbonisation, digitalisation and circular solutions
forge the sustainable European steel future

POSTER SESSION

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| Monitor 1 | MSCA Doctoral Network HELIOS - Using hydrogen in stainless steel production and process residue valorisation
<i>Annelies Malfliet, KULeuven</i> |
| Monitor 2 | ABS Roads EVO - Sustainability and innovation in permeable pavements
<i>Mauro Scocco, Acciaierie Bertoli Safau</i> |
| Monitor 3 | Development and successful full-scale implementation of hydrogen as a fuel in flameless oxyfuel combustion
<i>Mikhail Lukin & Joachim von Scheele, Linde</i> |
| Monitor 4 | CiSMA: Circular steel for mass market applications
<i>Jaume Pujante Agudo, EURECAT</i> |
| Monitor 5 | Nozzle clogging in steel continuous casting: multi-phase multi-physics simulations
<i>Hadi Barati, K1-MET</i> |
| Monitor 6 | Biocarbon for fossil-free metallurgy: Technical feasibility and pathways from the HåBiMet project
<i>Tova Jarnerud, SWERIM</i> |
| Monitor 7 | Decarbonization solutions for the integrated steel plants: first of the kind installations
<i>Maryam Baniyadi, SMS Goup</i> |
| Monitor 8 | From copper to steel: on-site renewable biosyngas as a scalable pathway to decarbonise high-temperature processes
<i>Thomas Bräck, Meva Energy</i> |
| Monitor 9 | Hybrid AI approach for yield improvement and scrap mix optimisation in DRI-EAF steelmaking
<i>Vikas Goel, Tvarit</i> |

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| Monitor 10 | Increased metallization in a shaft furnace equipped with a Christmas tree
<i>Antoine Marsigny, Université Lorraine - Institut Jean Lamour</i> |
| Monitor 11 | A modular edge AI framework for industrial environments
<i>Nikolaos Matskanis, CETIC</i> |
| Monitor 12 | TGA/MS analysis as a tool for assessing biomass utilisation in iron ore sintering process
<i>Paulina Copik, GIT-Lukasiewicz</i> |
| Monitor 13 | Upscaling at CRM to support EU iron- & steelmaking de-carbonization and circular economy roadmaps
<i>Jean Borlée, CRM Group</i> |
| Monitor 14 | Production of low carbon H₂ by nuclear powered electrolysis and implications for European clean steel production
<i>Dirk Rabelink, ULC-Energy</i> |
| Monitor 15 | Predicting matrix phase composition and properties using CALPHAD-guided thermokinetic simulations with MatCalc
<i>Markus Führer, Technische Universität Wien</i> |
| Monitor 16 | AI support system for dimensional control in steel production
<i>Francesca Motta, Danieli Automation</i> |
| Monitor 17 | ProcTwin – A distributed AI platform for optimizing and visualisation of steel manufacturing process chains
<i>Gunnar Mathiason, University of Skövde</i> |