

ESTEP SPRING DISSEMINATION EVENT

5-6 JUNE 2025
KRAKOW (POLAND)

Venue : Galaxy Hotel
(ul. Gęsia 22A, 31-535 Kraków)

Find out more on www.estep.eu



The European Steel Technology Platform (ESTEP) **Spring Dissemination Event 2025** will take place in-person on **05 & 06 June 2025** in Krakow (Poland) at the Galaxy Hotel (Gęsia 22A, 31-535 Kraków).

Optional : A visit of the **Ogniochron factory** (in Andrychów) is foreseen on Friday 06 June 2025 (in the morning).

The main purpose of the event is to share results and knowledge gained from research & innovation projects related to the steel sector.

The topics will cover projects from RFCS, Clean Steel Partnership (CSP), other EU or national projects, etc., with a particular focus on digitalisation and people aspects.

More information about logistics & registration: available on the [event webpage](#)

PROGRAMME

SESSION 1 & 2

DAY 1 – 5 June (part I)

- 07:45 – 08:30 Registration
- 08:30 Welcome & opening *Klaus Peters (ESTEP)*
- 08:40 Steel policy overview (*title tbc*) – *Jürgen Tiedje (European Commission DG RTD E3)*
- 08:55 - 10:55 **1st session: Decarbonisation topics – Agnieszka Morillon**
- 08:55 Polish steel sector: main facts – *Marta Zagorska (Polish Steel Association)*
- 09:10 ArcelorMittal Poland: existing investments and decarbonisation plans – *Aleksandra Kania (ArcelorMittal Poland)*
- 09:25 Synergies between RFCS Projects on Hydrogen application in the Blast Furnace process – *Hauke Bartusch (BFI)*
- 09:40 Investigation of the use of hydrogen as reducing agent in the Direct Reduction of low-grade iron ore pellets - *Claudia Sergi (RINA-CSM)*
- 09:55 MaxH2DR - Maximise H2 Enrichment in Direct Reduction Shaft Furnaces – *Thorsten Hauck (BFI)*
- 10:10 Production of the highest quality cast steel using the AOD converter process - *Artur Zak (Łukasiewicz – GIT)*
- 10:25 Turning biowaste into steel-grade biocoal to decarbonize the steelmaking process – *Andrea Salimbeni (RE-CORD)*
- 10:40 Energy Balanced Technology for Recycling Iron Oxide Waste in the EAF Process – *Alicja Szemalikowska (Łukasiewicz – GIT)*
- 10:55 – 11:15 Coffee break
- 11:15 - 12:45 **2nd session: People topics – Michael Kohlgrüber**
- 11:15 Empowerment and Recruitment of People in the Steel Industry – *Antonius Schröder (TU Dortmund)*
- 11:30 SUPER project: Sustainable future steel production and people recruiting and skilling – *Thorsten Hauck (BFI)*
- 11:45 Hubs for Circularity in Europe: focus on stakeholders – *Karina Maldonado-Mariscal (TU Dortmund)*
- 12:00 SkillMine : a dynamic AI-Powered Skills Mining Engine with industry specificity to identify emerging trends and changing skills needs – *Andrew Barker (Steeluniversity)*
- 12:15 Artificial Intelligence in steel production: Questions of augmentation, optimisation and accountability – *Dean Stroud (Cardiff University)*
- 12:30 Digitalisation: The Universal Environmental Data model - the PRISMA project – *Jerker Delsing (LTU)*
- 12:45 – 13:45 Lunch break
- 13:45 Research Fund for Coal and Steel: future funding opportunities – *Sebastiano Fumero (European Commission, REA)*
- 14:00 - 16:35 **3rd session: Decarbonisation topics – Jarosław Marcisz**

PROGRAMME

DAY 1 – 5 June (part II)

SESSION 3 & 4

14:00 - 16:35 3rd session: Decarbonisation topics – *Jarosław Marcisz*

- 14:00 Power4Steel with MemKoWI – CO₂- & H₂-separation from process gases by advancing membrane technology R&D to pilot testing– *Susanne Bethlehem-Seidel (Dillinger)*
- 14:15 Resurgence project - Supporting the green and digital transition of the EU processes industries – *Krzysztof Grzybowski (CELSA Poland)*
- 14:30 TransZeroWaste - Upgrading of low-quality iron ores and mill scale with low carbon technologies – *Gerald Stubbe(BFI)*
- 14:45 Safe H-DRI - Safe handling and transport of hydrogen-based direct reduced iron for a decarbonisation of the steel industry – *Melanie Leitner (K1-MET)*
- 15:00 Eyes on Steel: AI-Powered Monitoring for Enhanced EAF Safety and Efficiency – *Marco Vannucci (SSSA)*
- 15:15 Development of a technology of manufacturing of welding pipes made of multiphase steels CP and DP – *Lukasz Poloczek (Łukasiewicz – GIT)*
- 15:30 Overview of the first one and a half years of the Horizon EU project H2PlasmaRed – *Henri Pauna (University of Oulu)*

15:45 – 16:05 Coffee break

- 16:05 Effect of Hydrogen combustion atmosphere on the properties of steel surface scale – *Filippo Cirili (RINA-CSM)*
- 16:20 HBI C-Flex – Reoxidation behaviour and stability of direct reduced and hot briquetted iron with variable iron and carbon content – *Melanie Leitner (K1-MET)*

16:35 – 17:35 4th session: Digitalisation topics – *Akhilesh Swarnakar*

- 16:35 DIGREES - Demonstration of digital twins for a green steel value chain – *Madalina Rabung (Fraunhofer)*
- 16:50 AI-Driven Copper Detection in Scrap Metal: Advancing Digitalization in Sustainable Steelmaking (PURESCRAP) – *Marco Vannucci (SSSA)*
- 17:05 Integrated modelling for sustainable and optimized steel manufacturing processes (ProcTwin project) – *Tania Irebo Schwartz (SWERIM)*
- 17:20 Enhanced Steel Production Efficiency Through Fuzzy Logic Aided Genetic Algorithms – *Marco Vannucci (SSSA)*
- 17:35 Closing comments & future perspectives – *Klaus Peters (ESTEP)*
- 17:45 End of conference
- 19:30 Dinner at Galaxy Hotel

DAY 2 – 6 June

08:00 – 13:00 Optional visit of the Ogniochron factory (Przemysłowa 42, Andrychów, Poland))

A bus will depart from the Galaxy Hotel at 8h, and will be back around 13h at the Galaxy Hotel.

The maximum number of participants for the plant visit is up to 45 people. The participants will be divided into 3 groups of 15 people. Duration of the visit approximately 2h (from 9h30 - 11h30).