

Euroslag 2026

Monday 15 June 2026

12:00-19:00 Registration

17:00-19:00 Special session on Industrial symbiosis, *Martin & Ingemar*

17:00-17:20 Industrial Symbiosis in the Steel Industry: guidelines and roadmap in by-products use from RFCS Symbio-Steel project

***Agnieszka Morillon**; David Algermissen; Valentina Colla; Teresa Annunziata Branca; Alice Petrucciani; Claudia Sergi; Daphne Mirabile; Filippo Cirilli; Lina Kieush; Johannes Rieger; Chuan Wang; Erland Jarl Nylund; Han Yu; Tova Jarnerud Örell; Delphine Snaet*

17:20-17:40 Analysis of relevant results, trends and perspectives of Industrial Symbiosis solutions

***Valentina Colla**; Teresa Annunziata Branca; Alice Petrucciani; Agnieszka Morillon; David Algermissen; Claudia Sergi; Daphne Mirabile; Filippo Cirilli; Lina Kieush; Johannes Rieger; Chuan Wang; Erland Jarl Nylund; Han Yu; Tova Jarnerud Örell; Delphine Snaet*

17:40-18:00 KPI-Based Assessment of Industrial Symbiosis Solutions within the RFCS Symbio-Steel Project: Slag Recycling Evaluation

***Lina Kieush**; Johannes Rieger; Valentina Colla; Teresa Annunziata Branca; Alice Petrucciani; Claudia Sergi; Daphne Mirabile; Filippo Cirilli; Agnieszka Morillon; David Algermissen; Chuan Wang; Erland Jarl Nylund; Han Yu; Tova Jarnerud Örell; Delphine Snaet*

18:00-18:20 Slag as the supply chain interface – biocarbon meets scrap and H-DRI

***Erland Jarl Nylund**; Tova Jarnerud Örell; Johan Martinsson; Jim Allansson*

18:20-18:40 On Industrial symbiosis enablers: the importance of facing and solving technical and policy issues

***Daphne Mirabile**; Loredana Di Sante; Filippo Cirilli; Chiara Lanzini; Riccardo Monaci*

19:00-20:30 Reception

Tuesday 16 June 2026

08:00-09:00 Registration

09:00-09:20 Opening and welcome, *Lilla Salen*

09:00-09:20 Welcome to this Euroslag Conference

09:20-10:20 Introduction Day 1, *Lilla Salen*

09:20-09:50 KEYNOTE - Slag utilization in Europe after the transition of the steel industry

Andreas Ehrenberg, FEhS Institute

09:50-10:20 KEYNOTE - Physicochemical properties of slags for the mitigation of CO₂ emissions in steel industry

Joohyun Park, Hanyang University

10:20-10:50 Coffee break

10:50-12:05 Sponsor message and poster pitches, *Lilla Salen*

10:50-11:05 HARSCO – *Sponsor presentation*

11:05-11:08 Sustainable carbon for slag foaming from lab experiments to EAF pilot trials with hydrochar

Chuan Wang; Yu-Chiao Lu; Andrey Karasev; Erik Sandberg

11:08-11:11 Metallurgical slag in concrete for maritime structures – Results of 8 year practical field tes

Volkert Feldrappe; Andreas Ehrenberg; Lydia Becker

11:11-11:14 Recovery of metals from sludge and sediment using by-product slags – feasibility study

Agnieszka Renman; Frank Lipnizki; Gunno Renman; Fredrik Engström

11:14-11:17 Carbonation of BOF Slag considering Pressure, Temperature and Time Dependencies

Andreas Neumann; Zhenja Rozhkova; Ralf B. Wehrspohn

11:17-11:20 Circular Valorisation of EAF slag for CO₂ capture & Industrial Symbiosis using EAF slag slurry

Mahmood Shamsan, Shah Saud; Aditya Sinha; Thomas Descheyer; Precious Nwajei

11:20-11:23 Classification of Mineral Phases and Manganese Distribution in Steel Slag

Hiromi Eba; Yunosuke Aida

11:23-11:26 Demonstrating processed EAF slag at scale as a high-performance SCM

Laura Stefanini; Luke Hunter; Grace Gledden; Madeleine Quin; K. H. C. Yap; Alex Dawes; Syed Mughees; Will Knapp

11:26-11:29 Dissolution Behavior of Secondary Additives in Steelmaking Slags

Florian Kek; Alexander Halwax; Jan Eisbacher-Lubensky; Patrick Stahl

11:29-11:32 Effect of Treatment Processes on the Phase Structure and Stability of Steelmaking slag

Wenfeng Gu; Jiang Diao; Takayuki Iwama; Yasushi Sasaki; Ryo Inoue; Shigeru Ueda

11:32-11:35 Evaluation of EAF Slag as a Sustainable Aggregate in Counterweight Concretes within the Scope of Green Transformation

ÇETİN BAĞLAN; OĞUZ IŞIK; Sinan ARAS; Serdar ERDEMİŞ; Gözde KAYA; Mehmet Buğra UYSAL

11:35-11:38 FESEM-EBSD as a tool for slag characterization

***Anniina Merenluoto**; Rita Kallio; Matias Jaskari; Eetu-Pekka Heikkinen;
Ville-Valtteri Visuri; Jaakko Louhisalmi*

- 11:38-11:41 From Innovation to Application: Integrated Thermodynamics and AI Approaches for Focused Metal Extraction from Slags
***Alberto Rivera Romero**; Carola Celada-Alonso; Felix López Gómez*
- 11:41-11:44 Grinding aids for basic oxygen furnace slag: grindability and use in Portland cement and alkali-activated binders
***Milad Eskandarinia**; Elijah Adesanya; Brant Walkley; Juho Yliniemi*
- 11:44-11:47 Influence of Calcium Oxide Content on the Valorisation of Tantalum-containing Slag
***Joao Weiss**; Daniel Munchen; Bernd Friedrich*
- 11:47-11:50 Investigation on Electric Arc Furnace Slags and applications as Supplementary Cementitious Material
***Marco Cantaluppi**; Elijah Adesanya; Juho Yliniemi*
- 11:50-11:53 Effects of slag former quality on slag forming in the EAF process
***Markus Carlborg**, Mohamed Elsadek, Conny Engström, Matias Eriksson,
Markus Broström, Caisa Samuelsson*
- 11:53-11:56 Quantitative mineralogy and mineral processing of Waelz slag as an alternative secondary raw material
***Carsten Gondorf**; Christian Wuppermann; Lars Gronen; Volkert Feldrappe; Devrim Gürsel; Tobias Vreatz*
- 11:56-11:59 Valorisation of EAF slag aggregate as a sustainable filler for vegetated acoustic barriers
***José Manuel Baraibar**; Amaia Santamaria*
- 11:59-12:05 Phosphorus Refining of Slags and Sludges: Pathways Toward Sustainable Resource Recovery

Andrey Karasev; Mingsong Yang; Björn Glaser

12:05-13:00 Lunch break

13:00-14:10 Legislation, rules and standards, *Lilla Salen*

13:00-13:30 KEYNOTE - Iron and Steel slags in REACh: a long relation with hurdles
Hans Kobesen, Reach WkC

13:30-13:50 Informing Slag Management Policy through Modeling: A Multi-dimensional Approach to Predict Cr(VI) Water Emissions

Shana Joy Baumgartner; Alexey V. Cherkaev; Johan Berg Pettersen; Gabriella Tranell

13:50-14:10 French guidelines for the use of ferrous slags in civil engineering works: environmental and health risk assessment

Jérémie DOMAS

14:15-15:15 Supplementary Cementitious Materials I, *Lilla Salen*

14:15-14:35 SAF slags from DRI-based steel production as clinker substitute for low-carbon cements

Dominik Ebert; Daniel Schubert; David Algermissen; Andreas Ehrenber; Jannes König; Gökhan Karagülmez; Rüdiger Deike

14:35-14:55 Valorization of Future Electric Arc Furnace Slags as Supplementary Cementitious Materials: Case Studies

Anton Andersson; Andreas Lennartsson; Joohyun Park; Fredrik Engström

14:55-15:15 The research project DRI-EOS - Modification of DRI-based EAF slag for use in the cement industry

Joachim Schneider; Dominik Ebert; Jesko Gerlach; Sophie Wunderlich; Annika Henke; Markus Dorndorf; Andreas Ehrenberg; Burkart Adamczyk; Christian Adam; David Algermissen

- 14:15-15:15** **Research and Innovation I, Martin & Ingemar**
- 14:15-14:35 Considerations for Efficient Slag Practices in HPSR Steelmaking
Ville-Valtteri Visuri; Tero Vuolio; Iivari Lappeteläinen; Eeli-Matti Sassi; Michael Zarl
- 14:35-14:55 Sustainable Direct Alloying of Manganese in liquid steel by Aluminothermic Reduction from Ladle Refining Slag
Sripushpa Kakara; Elizaveta Cheremisina; Ryo Inoue; Takayuki Iwama; Shigeru Ueda; Ashok Kamaraj
- 14:55-15:15 Soil pH Improvement with Steelmaking Slag under Simulated Upland Wet–Dry Cycles
Takayuki Iwama; Shohei Koizumi; Megumi Obara; Ryo Inoue; Shigeru Ueda
- 15:15-16:00** **Coffe break and poster session**
- 16:00-17:20** **Slag treatment I, Lilla Salen**
- 16:00-16:20 Recovery of valuable metals from steelmaking slags – a view from a geometallurgical perspective
Lars Gronen; Simon Wölfelschneider; Devrim Gürsel; Andreas Bremen; Pavell Ivashechkin; Michael Dohlen; Gerald Stubbe; Volkert Feldrappe; Tobias Vraetz
- 16:20-16:40 Adaptation of the hydrogen-plasma smelting reduction (HPSR) process into stainless steelmaking
Mert Saraçoğlu; Joop van Deursen; Jérémy Chaulet; Muxing Guo; Bart Blanpain; Annelies Malfliet
- 16:40-17:00 Targeting the recovery of Co, Ta and Nb through the identification of EnAM in gas-phase synthesised fayalitic model slag
Apet Nikoyan; Manuel Vollbrecht; Krishnanjan Pramanik; Lucio Colombi Ciacchi; Lutz Mädler
- 17:00-17:20 Process sustainability: Use of internal ladle slag in the EAF

Sara Rosendahl; LIVIU BRABIE; Björn Haase; Susane Naeverno-Sand;
Mattias Warne; Per Johan Hogberg; André Ulmgren; Nazem Jalali Pooria;
Min Chen

16:00-17:20 Research and Innovation II, Martin & Ingemar

16:00-16:20 Physical properties of electrical steelmaking slags with industrial practices, a study through experiments and modeling

Xintong Du; Ali Emami; James Small; Shuigen Huang; Shuai Zhang;
Muxing Guo; Yoongu Kang; Marie-Aline Van Ende

16:20-16:40 Effect of alumina addition on the viscous behavior of iron silicate slag

Sohei Sukenaga; Juson kokubo; Masanori Tashiro; Ko Mibu; Junichi Takahashi; Jiang Liu; Yong Wang; Hiroyuki Shibata

16:40-17:00 Fate of Chromium and Vanadium after long-term liming with iron and steel slags in two German field trials.

Hans-Peter Koenig; Martin Rex; Lars Gronen; Uwe Pihl

17:00-17:20 Thermal behaviour of trace elements introduced by alternative raw materials in burning of cement clinker

Lukas Larsson; Markus Broström; Bodil Wilhelmsson; Matias Eriksson;
Markus Carlborg

18:30-22:00 Conference dinner at Elite Stadshotellet

Wednesday 17 June 2026

08:30-09:00 Registration

09:00-10:30 Introduction Day 2, Lilla Salen

09:00-09:30 KEYNOTE - Slag from Steelmaking in Sweden

Björn Haase**, Höganäs; **Christer Ryman

09:30-10:00 KEYNOTE - Composition and reactivity of engineered electric arc furnace slags and use as SCM for Portland cement

Frank Bullerjahn**, Heidelberg Materials; **Gerd Bolte

10:00-10:30 KEYNOTE - From innovation to application, development of a pozzolan SCM product

***Åke Roos**, Boliden Smelters*

10:30-11:00 Coffe break and poster session

11:00-12:20 Slag treatment II, Lilla Salen

11:00-11:20 Dry Granulation of Ladle Slag: From Pilot Trials to Patented Building Materials

Marta Guzzon**; **Mattia Bissoli**; **enzo Chiarullo**; **Enrico Malfa**; **Cristina Barbieri**; **Vincenzo Liuzzi**; **Alberto Spaggiari

11:20-11:40 Evaluating Technologies for Valorizing EAF Slag Suitable for the Cement Industry

Hugo Joubert**; **Piet Jonker**; **Orhan Demir

11:40-12:00 Production and characterization of thermophosphate fertilizer obtained by EAF ferronickel slag and bone ash.

Davide Mombelli**; **Matteo Reda**; **Carlo Mapelli**; **Guilherme Frederico Bernardo Lenz e Silva

- 12:00-12:20 Closing the Loop on EAF Slag: Silicon as a Key to Immobilizing Free Lime and Safely Binding Heavy Metals
Fiona Pickart, Phillip Donhause, Bernd Friedrich
- 11:00-12:20 Research and Innovation III, Martin & Ingemar**
- 11:00-11:20 Synthetic EAF-slag mineralogy, microstructure and leaching behaviour as function of chemistry and cooling practice
James Small; Jonathan Zepper; Jolien Linckens; Stefan Melzer; Dominik Ebert; David Algermissen; Burkart Adamczyk; Joachim Schneider; Mary van Wijngaarden; Christian Adam; Sieger van der Laan; Pieter Koopmans; Sander Everstein
- 11:20-11:40 Focus on titanium, vanadium, phosphorus and chromium when improving cementitious properties of EAF slags
Rita Kallio; Eetu-Pekka Heikkinen; Anniina Merenluoto; Petri Sulasalmi; Jaakko Louhisalmi; Anton Andersson
- 11:40-12:00 Evaluation of Slag Foaming in an Electric Arc Furnace under Pulverized-Coal Injection
Shigeru Ueda; Fuga Sato; Takayuki Iwama; Wenfeng Gu; Ryo Inoue
- 12:00-12:20 Standard Specification for Low Carbon Concrete using Ground Granulated Blast Furnace Slag and Fly Ash
Craig Heidrich; Stephen Foster
- 12:20-13:20 Lunch**
- 13:20-15:00 Valorization and best practices, Lilla Salen**
- 13:20-13:40 Two Decades of Full-Scale Field Experience with Stainless Steel Slags in Landfill Covers: Evidence from Hagfors, Sweden
Lale Andreas
- 13:40-14:00 Saint-Gobain's ladle slag processing plant in Raahe promotes circular economy in the construction industry.
Gunnar Lauren

- 14:00-14:20 Performance Evaluation of SMA Concrete Pavements Incorporating BOFS on Heavy Traffic Roads in Kaohsiung, Taiwan
Huang-Fu Chen; I-MIN WU; Jian-Shiuh Chen
- 14:20-14:40 Valorization of Ladle Furnace Slag via Accelerated Carbonation for Rubber Compound Applications as sustainable filler
Anna Gobetti; Giorgio Ramorino; Marcello Gelfi; Paolo Brazzo; Giovanna Cornacchia
- 14:40-15:00 Investigation on dry and wet natural carbonation of steelmaking slag
Davide Mombelli; Carlo Mapelli; Gianluca Dall'Osto; Andrea Riccardi; Elena Da Val; Roberto Moreschi; Giovanni Baldo
- 13:20-15:00 Research and Innovation IV, Martin & Ingemar**
- 13:20-13:40 Rapid chemical analysis of liquid slag
Jonas Petersson; David Malmström; Saga Bergqvist
- 13:40-14:00 Experimental and CFD based investigations on potentials of steel slags as thermal energy storage solution
Ming Chen; Akhil V. Panicker; Nikolaos Gavriilidis; Huilin Li; Gunvor M. Kirkelund; Lisbeth Ottosen
- 14:00-14:20 Distribution and Condensation Behavior of Samarium in CaO-SiO₂-FeO-P₂O₅-MgO Slag for Permanent Magnet Recycle
Ryo Inoue; Takayuki Iwama; Wenfeng Gu; Shigeru Ueda
- 14:20-14:40 Condensation Behavior of Vanadium in Specific Mineral Phases of Steelmaking Slag
Atsuki Miyoshi; Riku Tsuneda; Takayuki Iwama; Yukihiro Goda; Muneyoshi Sawayama; Shigeru Ueda; Ryo Inoue

14:40-15:00 In-situ observation of steel-slag separation behaviors in hydrogen-based direct reduction (DRI)

Qing Zhu; Xianfeng Hu; Wangzhong Mu

15:00-15:30 Coffee break and poster session

15:30-17:10 Supplementary Cementitious Materials II, Lilla Salen

15:30-15:50 Black granulated slag from EAF - a first milestone towards a sustainable future

David Algermissen; Elke Kaindl; Dirk Mudersbach; Dominik Ebert; Andreas Ehrenberg; Anna Sokol

15:50-16:10 EAF and BOF slags as components in low-carbon cements

Simon Blotevogel; Thomas Wattez; Katharina Schraut; Alexis Meriot; Roberta Alfani; Martin Cyr

16:10-16:30 Integrated Valorization of EAF and BOF Steel Slags for Metal Recovery and Modified Cementitious Material Production

Mats Åhlin; Elsayed Mousa; Paul Sandberg; Guozhu Ye

16:30-16:50 Comparative study of air and water granulation of DRI-EAF slag at 6-ton pilot scale

Mattia De Colle

16:50-17:10 Cementitious investigation of slags arising from the Hlsarna ironmaking process

Andreas Ehrenberg; Christiaan Zeilstra; Marcel Bruin; Cornelis Teerhuis

17:10-17:25 Closing ceremony, Lilla Salen

17:10-17:25 Closing remarks - See you at next Euroslag Conference

18:30-21:00 Visit to SWERIM including light meal/refreshments

Thursday 18 June 2026

09:00-16:00 Tour to Boliden Rönnskär smelter, *Bus 1*

10:00-15:00 Tour to SSAB steel plant, *Bus 2*

10:00-13:00 Tour to Gammelstad Church Town (UNESCO World Heritage Site),
Bus 3