



XIII European Slag Conference

Luleå, Sweden, June 16-18, 2026

PROGRAM

XIII European Slag Conference 2026

From Innovation to Application: The Future of Steel Slags

Monday 15 June 2026

12:00-19:00 **Registration, Kulturens Hus 4th floor**

17:00-19:00 **Special session on Industrial symbiosis, Lilla Salen, 5th floor**

Session chairs: Valentina Colla (Scuola Superiore Sant'Anna); Han Yu (Swerim AB)

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

Agnieszka Morillon¹

David Algermissen¹, Valentina Colla², Teresa Annunziata Branca², Alice Petrucciani², Claudia Sergi³, Daphne Mirabile³, Filippo Cirilli³, Lina Kieush⁴, Johannes Rieger⁴, Chuan Wang⁵, Erland Nylund⁵, Han Yu⁵, Tova Jarnerud Örell⁵, Delphine Snaet⁶

¹ FEhS Institut fuer Baustoff-Forschung e.V., 47229 Duisburg, Germany

² Scuola Superiore Sant'Anna, TeCIP, ICT-COISP, 56124, Pisa, Italy

³ RINA CONSULTING - Centro Sviluppo Materiali SPA, 00128 Castel Romano, Italy

⁴ K1-MET GmbH, 4020 Linz, Austria

⁵ Swerim, 97125 Lulea, Sweden

⁶ European Steel Technology Platform ASBL, 1000 Brussels, Belgium

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

Valentina Colla¹

Teresa Annunziata Branca¹, Alice Petrucciani¹, Agnieszka Morillon², David Algermissen², Claudia Sergi³, Daphne Mirabile³, Filippo Cirilli³, Lina Kieush⁴, Johannes Rieger⁴, Chuan Wang⁵, Erland Nylund⁵, Han Yu⁵, Tova Jarnerud Örell⁵, Delphine Snaet⁶

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⁴ K1-MET GmbH

⁵ Swerim AB

⁶ European Steel Technology Platform ASBL

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

Lina Kieush¹

Johannes Rieger¹, Valentina Colla², Teresa Annunziata Branca², Alice Petrucciani², Claudia Sergi³, Daphne Mirabile³, Filippo Cirilli³, Agnieszka Morillon⁴, David Algermissen⁴, Chuan Wang⁵, Erland Nylund⁵, Han Yu⁵, Tova Jarnerud Örell⁵, Delphine Snaet⁶

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⁵ Swerim, 97125 Lulea, Sweden

⁶ European Steel Technology Platform ASBL, 1000 Brussels, Belgium

18:00-18:20 Industrial Symbiosis between Biomass Processing and Steelmaking: Insights from the BioReSteel Project

Chuan Wang¹

¹ Swerim AB, Luleå, Sweden

18:20-18:40 Slag as the supply chain interface – biocarbon meets scrap and H-DRI

Erland Jarl Nylund^{1, 2}

Tova Jarnerud Örell¹, Johan Martinsson^{1, 3}, Jim Allansson²

¹ Swerim AB, Kista, Sweden

² Luleå University of Technology (LTU), Luleå, Sweden

³ KTH Royal Institute of Technology, Stockholm, Sweden

18:40-19:00 On Industrial symbiosis enablers: the importance of facing and solving technical and policy issues

Daphne Mirabile¹

Loredana Di Sante¹, Filippo Cirilli¹, Chiara Lanzini², Riccardo Monaci²

¹ Rina Consulting - Centro Sviluppo Materiali SpA

² Confindustria Brescia

19:00-20:30 **Reception, Exhibition, 5th floor**

Tuesday 16 June 2026

08:00-09:00 **Registration, 4th floor**

09:00-09:20 **Opening and welcome, Stora Salen, 4th floor**

09:00-09:20 Welcoming address

Christer Ryman, Jernkontoret, chair of the 2026 Euroslag conference

Thomas Reiche, FEhS Institute, chair of the Euroslag association

09:20-10:20 **Introduction Day 1, Stora Salen, 4th floor**

Session chairs:

Fredrik Engström (Luleå University of Technology); Marko Mäkikyrö (SSAB Europe)

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

Andreas Ehrenberg¹

¹ FEhS - Institut für Baustoff-Forschung e.V.

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

Joohyun Park¹

¹ Hanyang University

10:20-10:50 Coffee break, Exhibition 4th floor

10:50-12:05 Sponsor message and poster pitches, Stora Salen, 4th floor

Session chairs: Mikael Larsson (Swerim AB); Christer Ryman (Jernkontoret)

10:50-11:05 HARSCO - Gold sponsor lecture: An environmentally friendly method for handling, processing and cooling slag

François Schaeffer¹

Lars Lindqvist²

¹ Harsco Environmental

² Harsco Metals Sweden AB

11:05-11:08 Poster: Sustainable carbon for slag foaming from lab experiments to EAF pilot trials with hydrochar - **Chuan Wang**; Yu-Chiao Lu; Andrey Karasev; Erik Sandberg; Björn Glaser

11:08-11:11 Poster: Metallurgical slag in concrete for maritime structures – Results of 8-year practical field test - **Volkert Feldrappe**; Andreas Ehrenberg; Lydia Becker

11:11-11:14 Poster: 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 Poster: Carbonation of BOF Slag considering Pressure, Temperature and Time Dependencies - **Andreas Neumann**; Zhenja Rozhkova; Ralf B. Wehrspohn

11:17-11:20 Poster: Circular Valorisation of EAF slag for CO₂ capture & Industrial Symbiosis using EAF slag slurry - **Mahmood Shamsan**; Aditya Sinha; Shah Saud; Thomas Descheyer; Precious Nwajei

11:20-11:23 Poster: Classification of Mineral Phases and Manganese Distribution in Steel Slag - **Hiromi Eba**; Yunosuke Aida

- 11:23-11:26 Poster: 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 Poster: Dissolution Behavior of Secondary Additives in Steelmaking Slags - **Florian Kek**; Alexander Halwax; Jan Eisbacher-Lubensky; Patrick Stahl
- 11:29-11:32 Poster: 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 Poster: 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 Poster: 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 Poster: 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 Poster: 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 Poster: Influence of Calcium Oxide Content on the Valorisation of Tantalum-containing Slag - **Joao Weiss**; Daniel Munchen; Bernd Friedrich
- 11:47-11:50 Poster: Investigation on Electric Arc Furnace Slags and applications as Supplementary Cementitious Material - **Marco Cantaluppi**; Elijah Adesanya; Juho Yliniemi
- 11:50-11:53 Poster: 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 Poster: 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
- 11:56-12:05 Poster: Phosphorus Refining of Slags and Sludges: Pathways Toward Sustainable Resource Recovery - **Andrey Karasev**; Mingsong Yang; Björn Glaser
- 12:05-13:00 Lunch break, 4th floor**
- 13:00-14:10 Legislation, rules and standards, Stora Salen, 4th floor**
- Session chairs: Craig Heidrich (Australasian Slag Association); Anna Sokol (FEhS - Institute)*

13:00-13:30 KEYNOTE - Iron and Steel slags in REACH: a long relation with hurdles

Hans Kobesen¹

¹ Tata Steel Netherlands and Convenor Working Committee REACH registration

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

Shana Joy Baumgartner¹

Alexey V. Cherkaev², Johan Berg Pettersen¹, Gabriella Tranell¹

¹ Department of Materials Science, NTNU, Alfred Getz' vei 2B, Trondheim, 7034, Sør Trøndelag, Norway.

² Minerals Processing Division, Mintek, 200 Malibongwe Dr, Randburg, 2194, Gauteng, South Africa.

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

Jérémie DOMAS¹

¹ C.T.P.L. – Technical and Promotional Centre for iron and steel sLags

14:15-15:15 Supplementary Cementitious Materials I, Stora Salen, 4th floor

Session chairs: Gerd Bolte (Heidelberg Materials); Caisa Samuelsson (Future Eco North Sweden AB)

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

Dominik Ebert¹

Daniel Schubert², David Algermissen¹, Andreas Ehrenberg¹, Jannes König³, Gökhan Karagülmez⁴, Rüdiger Deike⁴

¹ FEhS - Building Materials Institute

² thyssenkrupp Steel Europe AG

³ Heidelberg Materials AG

⁴ University of Duisburg-Essen, Institute for Technologies of Metals

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

Anton Andersson^{1, 2}

Andreas Lennartsson¹, Joo Hyun Park², Fredrik Engström¹

¹ Luleå University of Technology, Process Metallurgy

² Hanyang University, Department of Materials Science and Chemical Engineering

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

Joachim Schneider¹

Dominik Ebert², Jesko Gerlach³, Sophie Wunderlich⁴, Annika Henke⁵, Markus Dorndorf⁶, Andreas Ehrenberg², Burkart Adamczyk¹, Christian Adam¹, David Algermissen²

¹ Bundesanstalt für Materialforschung und -prüfung (BAM)

² FEhS – Institut für Baustoff-Forschung e.V.

³ Holcim (Deutschland) GmbH

⁴ Salzgitter Mannesmann Forschung GmbH

⁵ GP Friedrich GmbH

⁶ LOI Thermprocess GmbH

14:15-15:15 Research and Innovation I, Lilla Salen, 5th floor

Session chairs: Sander Everstein (Tata Steel Netherlands); Valentina Colla (Scuola Superiore Sant'Anna)

14:15-14:35 Considerations for Efficient Slag Practices in HPSR Steelmaking

Ville-Valtteri Visuri¹

Tero Vuolio¹, Iivari Lappeteläinen¹, Eeli-Matti Sassi¹, Michael Zarl²

¹ Process Metallurgy Research Unit, University of Oulu, Finland

² K1-MET GmbH, Austria

14:35-14:55 Experimental and CFD based investigations on potentials of steel slags as thermal energy storage solution

Akhil V. Panicker¹, Nikolaos Gavriilidis¹, Huilin Li², Gunvor M. Kirkelund², Lisbeth Ottosen², **Ming Chen¹**

¹ Dept. of Energy Conversion and Storage, Technical University of Denmark, Denmark

² Dept. Of Environmental and Resource Engineering, Technical University of Denmark, Denmark

14:55-15:15 Soil pH Improvement with Steelmaking Slag under Simulated Upland Wet–Dry Cycles

Takayuki Iwama¹

Shohei Koizumi², Megumi Obara¹, Ryo Inoue¹, Shigeru Ueda¹

¹ Tohoku University

² Nippon Steel

15:15-16:00 Coffe break and poster session, Exhibition, 5th floor

16:00-17:20 Slag treatment I, Stora Salen, 4th floor

Session chairs: Davide Mombelli (Politecnico di Milano); Rita Kallio (University of Oulu)

16:00-16:20 Recovery of valuable metals from steelmaking slags – a view from a geomettallurgical perspective

Lars Gronen¹

Simon Wölfelschneider², Devrim Gürsel³, Andreas Bremen⁴, Pavell Ivashechkin², Michael Dohlen⁵, Gerald Stubbe², Volkert Feldrappe¹, Tobias Vraetz³

¹ FEhS Institut für Baustoff-Forschung e.V.

² VDEh - Betriebsforschungsinstitut GmbH (BFI)

³ Advanced Mineral Processing Technologies Teaching and Research Unit, RWTH-Aachen University

⁴ Co-reactive GmbH

⁵ tkMSS – thyssenkrupp MillServices and Systems GmbH

16:20-16:40 Adaptation of the hydrogen-plasma smelting reduction (HPSR) process into stainless steelmaking

Mert Saraçoğlu¹

Joop van Deursen¹, Jérémy Chaulet², Muxing Guo¹, Bart Blanpain¹, Annelies Malfliet¹

¹ KU Leuven, Department of Materials Engineering, 3001, Belgium

² Aperam Stainless Europe, R&D, Isbergues, France

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 Nikoyan¹

Manuel Vollbrecht², Krishnanjan Pramanik¹, Lucio Colombi Ciacchi¹, Lutz Mädler^{1, 2}

¹ University of Bremen

² Leibniz Institute for Materials Engineering IWT

17:00-17:20 Process sustainability: Use of internal ladle slag in the EAF

Liviu Brabie¹, **Sara Rosendahl²**, Björn Haase³, Susane Naeverno-Sand⁴, Mattias Warne⁵, Per Johan Hogberg⁴, André Ulmgren⁶, Nazem Jalali Pooria⁷, Min Chen⁸

¹ Swerim AB

² SSAB formerly Swerim AB

³ Höganäs Sweden AB

⁴ Celsa Nordic

⁵ Allied Mineral Products Europe BV formerly Höganäs AB

⁶ Carbomax AB

⁷ ABB formerly Höganäs Sweden AB

⁸ Swerim AB

16:00-17:20 Research and Innovation II, Lilla Salen, 5th floor

Session chairs: Anton Andersson (Luleå University of Technology); Ryo Inoue (Tohoku University)

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

Xintong Du¹

Ali Emami¹, James Small¹, Shuigen Huang², Shuai Zhang², Muxing Guo², Yoongu Kang³, Marie-Aline Van Ende³

¹ R&D, Tata Steel Netherlands, 1951JZ, IJmuiden, the Netherlands

² Department of Materials Engineering, KU Leuven, BE-3001 Leuven, Belgium

³ Department of Mechanical Engineering, TU Eindhoven, 5612AZ, the Netherlands

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

Sohei Sukenaga¹

Junson kokubo¹, Masanori Tashiro¹, Ko Mibu², Junichi Takahashi³, Jiang Liu³, Yong Wang⁴, Hiroyuki Shibata¹

¹ Tohoku University

² Nagoya Institute of Technology

³ Sumitomo Metal Mining Co., Ltd.

⁴ Wuhan University of Science and Technology

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 Koenig¹

Martin Rex¹, Lars Gronen¹, Uwe Pihl²

¹ FEhS-Institut für Baustoff-Forschung

² thyssenkrupp Steel Europe AG

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

Lukas Larsson¹

Markus Broström¹, Bodil Wilhelmsson^{1, 2, 3}, Matias Eriksson^{1, 3}, Markus Carlborg¹

¹ Umeå Universitet

² Heidelberg Materials Cement Sverige AB

³ MinFo - Swedish Mineral Processing Research Association

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

Wednesday 17 June 2026

08:30-09:00 **Registration, 4th floor**

09:00-10:30 **Introduction Day 2, Stora Salen, 4th floor**

Session chairs: Fabritius Timo (University of Oulu); Andreas Ehrenberg, (FEhS Institute)

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

Björn Haase¹

Christer Ryman²

¹ Höganäs Sweden AB

² Jernkontoret

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

Frank Bullerjahn¹

Gerd Bolte¹

¹ Heidelberg Materials AG

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

Åke Roos¹

¹ Boliden

10:30-11:00 Coffe break and poster session, Exhibition, 5th floor

11:00-12:20 Slag treatment II, Stora Salen, 4th floor

Session chairs: David Algermissen (FEhS Institute); Hans Kobesen (Tata Steel Netherlands and Convenor Working Committee REACH registration)

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

Marta Guzzon¹

Mattia Bissoli¹, enzo Chiarullo¹, Enrico Malfa¹, Cristina Barbieri², Vincenzo Liuzzi²,
Alberto Spaggiari²

¹ Tenova S.p.A.

² Kerakoll

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

Hugo Joubert¹

Piet Jonker¹, Orhan Demir¹

¹ Tenova Pyromet

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

Davide Mombelli¹

Matteo Reda¹, Carlo Mapelli¹, Guilherme Frederico Bernardo Lenz e Silva²

¹ Politecnico di Milano, Dipartimento di Meccanica, Via La Masa 1, 20156 Milano, Italy

² Universidade de São Paulo, Escola Politécnica. Avenida Professor Mello Moraes, 2463, Cidade Universitária, 05508030 São Paulo (SP), Brazil

12:00-12:20 Closing the Loop on EAF Slag: Silicon as a key to safely bind heavy metals and enable the use as an alternative binder

Fiona Pickart¹, Philipp Donhause ¹, Bernd Friedrich ¹

¹ IME Process Metallurgy and Metal Recycling at RWTH Aachen University

11:00-12:20 Research and Innovation III, Lilla Salen, 5th floor

Session chairs: Joohyun Park (Hanyang University); Elsayed Mousa (Swерim AB)

11:00-11:20 Synthetic EAF-slag mineralogy, microstructure and leaching behaviour as function of chemistry and cooling practice

James Small¹

Jonathan Zepper², Jolien Linckens¹, Stefan Melzer¹, Dominik Ebert³, David Algermissen³, Burkart Adamczyk⁴, Joachim Schneider⁴, Mary van Wijngaarden¹, Christian Adam⁴, Sieger van der Laan^{1,2}, Pieter Koopmans¹, Sander Everstein¹

¹ Tata Steel Netherlands, IJmuiden, The Netherlands

² Eindhoven University of Technology, The Netherlands

³ FEhS – Institut für Baustoff-Forschung, Duisburg, Germany

⁴ Federal Institute for Materials Research and Testing (BAM), Berlin, Germany

11:20-11:40 Focus on titanium, vanadium, phosphorus and chromium when improving cementitious properties of EAF slags

Rita Kallio^{1, 2}

Eetu-Pekka Heikkinen², Anniina Merenluoto², Petri Sulasalmi², Jaakko Louhisalmi³, Anton Andersson⁴

¹ GTK (Geological survey of Finland)

² University of Oulu

³ SSAB Europe, Finland

⁴ Luleå University of Technology, Sweden

11:40-12:00 Evaluation of Slag Foaming in an Electric Arc Furnace under Pulverized-Coal Injection

Fuga Sato¹, Takayuki Iwama¹, Wenfeng Gu¹, Ryo Inoue¹, **Shigeru Ueda**¹

¹ Tohoku University

12:00-12:20 Standard Specification for Low Carbon Concrete using Ground Granulated Blast Furnace Slag and Fly Ash

Craig Heidrich¹

Stephen Foster²

¹ Australasian (iron & steel) Slag Association

² UNSW School of Civil and Environmental Engineering Sydney

12:20-13:20 **Lunch, 4th floor**

13:20-15:00 **Valorization and best practices, Stora Salen, 4th floor**

Session chairs: Frank Bullerjahn (Heidelberg Materials); Björn Haase (Höganäs AB)

13:20-13:40 Two Decades of Full-Scale Field Experience with Stainless Steel Slags in Landfill Covers: Evidence from Hagfors, Sweden

Lale Andreas¹

¹ Luleå University of Technology

13:40-14:00 Saint-Gobain's ladle slag processing plant in Raahe promotes circular economy in the construction industry.

Gunnar Lauren¹

Jaakko Louhisalmi²

¹ Saint-Gobain Weber, Finland

² SSAB Europe, Finland

14:00-14:20 Performance Evaluation of SMA Concrete Pavements Incorporating BOFS on Heavy Traffic Roads in Kaohsiung, Taiwan

I-MIN WU¹, Jian-Shiuh Chen², **Huang-Fu Chen**¹

¹ CHC Resources Co., Ltd., Kaohsiung, Taiwan

² Department of Civil Engineering, National Cheng Kung University, Tainan, Taiwan

14:20-14:40 Valorization of Ladle Furnace Slag via Accelerated Carbonation for Rubber Compound Applications as sustainable filler

Anna Gobetti¹

Giorgio Ramorino¹, Marcello Gelfi¹, Paolo Brazzo², Giovanna Cornacchia¹

¹ University of Brescia, Department of Mechanical and Industrial Engineering, Brescia (BS), Italy

² Resilco S.r.l., Bergamo (BG), Italy

14:40-15:00 Investigation on dry and wet natural carbonation of steelmaking slag

Carlo Mapelli¹, **Davide Mombelli**¹, Gianluca Dall'Osto¹, Andrea Riccardi¹, Elena Da Val², Roberto Moreschi², Giovanni Baldo²

¹ Politecnico di Milano, Dipartimento di Meccanica, Via La Masa 1, 20156 Milano, Italy

² Fassa Bortolo S.r.l., via Lazzaris 3, 31027 Spresiano (TV), Italy

13:20-15:00 Research and Innovation IV, Lilla Salen, 5th floor

Session chairs: Eetu-Pekka Heikkinen (Oulu University); Maria Öström (Heidelberg Materials)

13:20-13:40 Rapid chemical analysis of liquid slag

Jonas Petersson¹, David Malmström¹, Saga Bergqvist¹

¹ Swerim AB

13:40-14:00 Sustainable Direct Alloying of Manganese in liquid steel by Aluminothermic Reduction from Ladle Refining Slag

Sripushpa Kakara^{1,2}, Elizaveta Cheremisina², Ryo Inoue², Takayuki Iwama², Shigeru Ueda², Ashok Kamaraj¹

¹ Sustainable Metallurgy & Industrial Technologies (SMITH) Research Lab, Department of Materials Science and Metallurgical Engineering, Indian Institute of Technology Hyderabad, Sangareddy, India 502282

² Institute of Multidisciplinary Research for Advanced Materials, Tohoku University, Japan

14:00-14:20 Distribution and Condensation Behavior of Samarium in CaO-SiO₂-FeO-P₂O₅-MgO Slag for Permanent Magnet Recycle

Takayuki Iwama¹, Wenfeng Gu¹, Shigeru Ueda¹, **Ryo Inoue**¹

¹ Institute of Multidisciplinary Research for Advanced Materials, Tohoku University

14:20-14:40 Condensation Behavior of Vanadium in Specific Mineral Phases of Steelmaking Slag

Riku Tsuneda¹, Takayuki Iwama¹, **Atsuki Miyoshi**², Yukihiro Goda², Muneyoshi Sawayama², Shigeru Ueda¹, Ryo Inoue¹

¹ Institute of Multidisciplinary Research for Advanced Materials, Tohoku University

² R&D Laboratory, Kobe Steel

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

Qing Zhu^{1, 2}, Xianfeng Hu³, **Wangzhong Mu**^{1, 4}

¹ Engineering Materials, Department of Engineering Science and Mathematics, Luleå University of Technology, 97187, Luleå, Sweden

² Key Laboratory of Electromagnetic Processing of Materials (Ministry of Education), School of Metallurgy, Northeastern University, Shenyang 110819, P.R. China

³ Swerim AB, Aronstorpsvägen 1, SE-974 37, Luleå, Sweden

⁴ Department of Materials Science and Engineering, KTH Royal Institute of Technology, Brinellvägen 23, Stockholm, SE-100 44 Sweden

15:00-15:30 **Coffee break and poster session, Exhibition 5th floor**

15:30-17:10 **Supplementary Cementitious Materials II, Stora Salen, 4th floor**

Session chairs: Mikael Larsson (Swerim AB); Åke Roos (Boliden Smelters)

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

Elke Kaindl¹, **David Algermissen**², Dirk Mudersbach¹, Dominik Ebert², Andreas Ehrenberg², Anna Sokol²

¹ Max Aicher Umwelt GmbH

² FEhS - Institut für Baustoff-Forschung e.V.

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

Simon Blotevogel^{1, 2}, Katharina Schraut^{1, 2}, Alexis Meriot¹, Roberta Alfani¹, Martin Cyr²

¹ Ecocem Materials Ltd

² Université de Toulouse

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

Elsayed Mousa¹, **Mats Åhlin**², Paul Sandberg², Guozhu Ye¹

¹ Swerim AB, Aronstorpsvägen 1, 974 37 Luleå, Sweden

² Cemvision AB, Box 2376, 10318 Stockholm, Sweden

16:30-16:50 INSGEP: investigation and modification of next generation slags

Mattia De Colle¹

¹ ArcelorMittal Global Research and Development - Maizieres

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

Christiaan Zeilstra¹, **Andreas Ehrenberg**², Marcel Bruin³, Cornelis Teerhuis¹

¹ Tata Steel Europe

² FEhS

³ Heidelberg Materials

17:10-17:25 **Closing ceremony, Stora Salen, 4th floor**

17:10-17:25 Closing remarks

Christer Ryman, Jernkontoret, and, **Thomas Reiche**, FEhS Institute & Euroslag

17:45-21:00 **Visit to SWERIM including light meal/refreshments, Buses from the entrance**

Thursday 18 June 2026

09:00-16:00 **Tour to Boliden Rönnskär smelter, Bus 1, departs from Kulturens hus**

10:00-15:00 **Tour to SSAB steel plant, Bus 2, departs from Kulturens hus**

10:00-13:00 **Tour to Gammelstad Church Town (UNESCO World Heritage Site), Bus 3, departs from Kulturens hus**