



EUROSLAG

11th EUROPEAN SLAG CONFERENCE

COLOGNE

INSTITUT FÜR
BAUSTOFF
FORSCHUNG

FEHS

THE TRANSFORMATION OF THE STEEL INDUSTRY AND ITS EFFECTS ON THE SLAG VALUE CHAIN

Preliminary conference program

Tuesday, October 4th, 2022

- 18:00 – 19:00 Registration, Malzmühle Brewery, Cologne (next to the Maritim Hotel)
- 19:00 – 23:00 Reception in the Malzmühle Brewery

Wednesday, October 5th, 2022

- 08:00 – 09:00 Registration (Maritim Hotel)
- 09:00 – 09:15 **Opening and welcome**
Thomas Reiche, Chairman EUROSLAG
- 09:15 – 09:20 **Opening message (digital)**
Mona Neubaur, Ministry of Economics, Industry, Climate and Energy, Federal State of North Rhine-Westphalia



EUROSLAG

11th EUROPEAN SLAG CONFERENCE

COLOGNE

INSTITUT FÜR
BAUSTOFF
FORSCHUNG

FEHS

Session: Transformation

Chairperson: Jean-Paul Judson, Brussels

	Title	Speaker
09:20 – 09:40	Decarbonization at thyssenkrupp Steel Europe	Matthias Weinberg , thyssenkrupp Steel Europe AG
09:40 – 10:00	The steel production transformation process – consequences for the slag utilization	Andreas Ehrenberg FEhS-Institute, Germany
10:00 – 10:20	SAF-Slag conditioning within future sustainable steel production for a continued cooperation between steel and cement producers	Daniel Schubert thyssenkrupp Steel Europe AG, Germany
10:20 – 10:45	Utilization of DRI based EAF slag for the cement industry	David Algermissen FEhS-Institute, Germany
10:45 - 11:15	Q&A session	
11:15 – 11:45	Coffee break	
11:45 – 12:05	Accounting rules for CO ₂ emissions of granulated blast furnace slags: new national recommendations in France to update EPDs	Jérémie Domas CTPL, France
12:05 – 12:25	REU Steel dissemination on the R & D projects for by-products and residues of the steel industry	Valentina Colla SSSA, Italy
12:30 – 01:30	Lunch break	

EUROSLAG

11th EUROPEAN SLAG CONFERENCE

COLOGNE

INSTITUT FÜR
BAUSTOFF
FORSCHUNG

FEHS

Session: Building materials

Chairperson: Andreas Ehrenberg

	Title	Speaker
01:30 – 01:50	Beyond GGBFS: Can steel slag take over as premium cement constituent?	Arne Peys VITO NV, Belgium
01:50 – 02:10	Evaluating the potential of steel slags as an alternative raw material for Portland cement clinker production	Dilip Makhija JSW Steel Ltd, India
02:10 – 02:30	Standard specification for low carbon concrete using fly ash and slag	Craig Heidrich (digital) Australasian Slag Association, Australia
02:30 – 03:00	Coffee break	
03:00 – 03:20	New activation routes for early strength development of granulated blast furnace slag	Judith Kaknics ArcelorMittal Maizières Research SA, France
03:20 – 03:40	Strength Development and durability of non-OPC geopolymer mortar with GGBFS for low CO ₂ emissions	Myong-Shin Song Kangwon National University, Korea
03:40 – 04:00	Assessment of the damage of heavy concrete structure with steel slag aggregates	Ioanna Papayianni Aristotle University of Thessaloniki, Greece



EUROSLAG

11th EUROPEAN SLAG CONFERENCE

COLOGNE

INSTITUT FÜR
BAUSTOFF
FORSCHUNG

FEHS

Thursday, October 6th, 2022

Session: Road Construction

Chairperson: Thomas Merkel

	Title	Speaker
9:00 – 9:20	Regulatory developments on the unencapsulated use of EAF steel slag in the United States	Charles Ochola PhD. National Slag Association, United States of America
9:20 – 9:40	The use of steel slag as an aggregate and procedures for application in rural roads to improve traffic	Luis Felipe da Cunha Mendonca Kaeme Consultoria Ltda, Brazil
9:40 – 10:00	A real case of recovery and valorization of EAF slag and steelmaking slags landfill in SISE's trucks parking	Fausto Rancano Lejarraga Aridos siderurgicos Andaluces, Spain
10:00 – 11:00	Coffee break	



EUROSLAG

11th EUROPEAN SLAG CONFERENCE

COLOGNE

INSTITUT FÜR
BAUSTOFF
FORSCHUNG

FEHS

Session: Environment and Fertilizer

Chairperson: Hans Kobesen

	Title	Speaker
11:00 – 11:20	Valorization of secondary metallurgical steel slags in agriculture: a technical-regulatory evaluation in Italy and Europe	Davide Mombelli Politecnico di Milano Mechanical, Italy
11:20 – 11:40	Introduction to the new European Fertilizing Product Regulation - a challenge for by-products and recycling materials	Hans-Peter König FEhS-Institute, Germany
11:40 – 12:00	Characterization of natural radioactivity in iron and steel slags produced in France	Shahinaz Sayagh CTPL, France
12:00 – 12:20	Validation of a method for the preparation of EAF black slag samples to be subjected in the leaching test according to UNI EN 12457-2	Paolo Pedersini Sias srl chimica industria ambiente, Italy
12:20 – 12:40	Vanadium in electric arc furnace slags and measures to minimize its release into the environment	Anna Sokol FEhS-Institute, Germany
12:45 – 02:00	Lunch break	



EUROSLAG

11th EUROPEAN SLAG CONFERENCE

COLOGNE

INSTITUT FÜR
BAUSTOFF
FORSCHUNG

FEHS

Session: Metallurgy and analytics

Chairperson: Agnieszka Morillon

	Title	Speaker
02:00 – 02:20	Effect of basicity and sulfur on the self-dusting phenomenon of secondary metallurgical slags	Gianluca Dall’Osto Politecnico di Milano Mechanical, Italy
02:20 – 02:40	Agglomerating self-reducing fibre reinforced stamp press bricks out of by-products and residues from metallurgical processes	Carsten Gondorf RWTH Aachen University, Germany
02:40 – 03:00	Thermomechanical treatment of steel work dusts and sludges for the recovery of zinc and iron	Patrick Piehl BAM, Germany
03:00 – 03:30	Coffee break	
03:30 – 03:50	LIBS-based slag analysis in less than 2 minutes for fast feedback and on-time process adjustment	Amit Ahsan SECOPTA analytics GmbH, Germany
03:50 – 04:10	Increased by-product sales by treatment and further processing decisions based on slag analysis values	Alexander Schlemminger QuantoLux Innovation GmbH, Germany
04:10 – 04:15	Concluding remarks	Thomas Reiche, <i>EUROSLAG</i>



EUROSLAG

11th EUROPEAN SLAG CONFERENCE

COLOGNE

INSTITUT FÜR
BAUSTOFF
FORSCHUNG

FEHS

Friday, October 7th, 2022

Technical visit

Please note that the time schedule is indicative. Since the visits will take place outside the city of Cologne, there is the possibility of slight variations (± 30 minutes), due to unforeseen circumstances, such as traffic delays etc.

Visit to a steelworks (HKM Duisburg)

9:00	Departure from Conference Hotel (Maritim Cologne)
10:00	Arrival at steelworks (HKM Duisburg)
11:30	Site visit
01:00	Departure from site
02:00	Arrival at Conference Hotel (Maritim Cologne)

alternatively: Guided tour of Cologne

10:00	Meeting Point Lobby Conference Hotel (Maritim Cologne)
10:00 – 12:00	Guided tour of Cologne