

Venue: CNR Research Area 1, Via Corti 14 - Milano - Italy

PROGRAM

08:45 – 09:15 - Attendess registration

09:15 – 09:30

Welcome to ECIG2025

Giuliano Angella - Research Institute CNR-ICMATE

09:30 – 09:50

Classification of graphite particles in metallographic images of cast irons – Quantitative Image Analysis versus Deep Learning

Lionel Germain - Université de Lorraine, France

Jon Sertuchac, Alain Hazottea, Jacques Lacazec - Université de Toulouse

09:50 – 10:10

First-principles investigation of graphite nucleation in cast iron

Adam Götz, Leander Michels, Jaakko Akola - Elkem, Norway

10:10 – 10:30

Stereological study of micro-shrinkage porosities in ductile iron using synchrotron CT data

Rodger Romero Ramirez - Linköping University

10:30 – 11:00 - Coffee break

11:00 – 11:20

Characterisation of a cast iron alloy produced with the addition of TiC nanoparticles

Beti Garazi Ereña - Azterlan, Spain

Izaskun Gil de Muro - Universidad del País Vasco UPV/EHU, Spain

Jon Sertucha - Azterlan, Spain

11:20 – 11:40

Ductile Iron Rolls - The Metallurgical Challenge - Case study

Adel Nofal - CMRDI, Egypt

11:40 – 12:00

Performance Enhancement of Abrasion Resistant Iron Alloys

Noha Elbanna, Abdel-Hamid Hussein, Mahmoud Tash, Adel Nofal - Cairo University, Egypt

12:00 – 12:20

Sustainable milling in cast iron

Oskar Bohlin - Volvo Group Trucks Operations, Sweden

12:20- 13:30 - Lunch Break

13:30 – 13:50

Ausferrite stability in thin sections

Giuliano Angella - Research Institute CNR-ICMATE, Italy

Bogdan Cygan - Teksid Iron Poland, Poland

Łukasz Gondek, Jan Marosz, Marcin Gorny - AGH University of Krakow, Poland

13:50 – 14:10

Austempered ductile iron (ADI) components with high wall thicknesses and their inhomogeneous mechanical properties

Patrick Lachart, Babette Tonn - TU Clausthal, Department of Foundry Technology, Germany

14:10 – 14:30

Isothermal Ductile Iron (IDI): Assessment of the Proposal for the Inclusion into the European Standard

Riccardo Zanardi - Zanardi Fonderie S.p.A., Italy

14:30 – 15:10 - Coffe break

15:10 – 15:30

Effect of binder type on properties of molding sands dedicated to 3D printing

Katarzyna Major-Gabryś, Dawid Halejcio - AGH University of Krakow, Poland

15:30 – 15:50

Defossilization of iron foundries through the use of electric melting units in the cotext of the German energy transition and considering site-specific factors ('CASTeRON')

Carsten Gondorf, Christian Wuppermann, Martin Commer, Andreas Bührig-Polaczek - RWTH Aachen University, Germany

15:50 – 16:10

Perspectives about raw materials aimed at supporting the development of ductile irons

Carlo Mapelli - Politecnico di Milano, Italy

16:10 – 16:50

Round table: Literature survey on cast iron research, publication trends

Attila Diószegi, Vasile Lucian Diaconu - Jönköping University, Sweden

16:50 – 17:00 - Conclusion of the day

20:00 - Social Dinner

Restaurant Carlsberg Øl

Bastioni di Porta Nuova, 9 - Milano (<https://www.carlsbergol.it/#>)

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