



Organised by



**ASSOCIAZIONE
ITALIANA
DI METALLURGIA**



FEDERATION OF EUROPEAN
MATERIALS SOCIETIES



EUROPEAN FEDERATION OF CORROSION

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THE ITALIAN STEEL COMMUNITY

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**UNIVERSITÀ
DEGLI STUDI
DI BERGAMO**

circular economy

international
meeting **RAW
MATERIALS
& RECYCLING**

sustainability

metallurgical industry

BERGAMO . ITALY . 2-3 DECEMBER 2021



www.aimnet.it/rawmat.htm

TOPICS

The Meeting will be performed through invited presentations and on the basis of the selection of the abstracts sent by authors and companies interested in sharing their updated knowledge on the following topics. The deadline for the abstract undergoing the selection is on July 9, 2021, in order to fulfill the final program.

- Scrap
- Scrap conditioning and management
- Recycling
- Tramp elements
- Slag recycling
- Slag valorization
- Recovery of valuable elements from wastes
- Recovery and recycling of the refractories
- Management of the oxide scales
- Treatment of dust
- Sludges
- Biometallurgy
- Biotechnological system for waste treatment
- Heat harvesting for material recovery
- CO₂ capture and use

SCOPE

The environmental and economical sustainability of the metallurgical industry depends on the possibility to recover and recycle the metal products after their use. On the other hand, a new challenge is a zero-waste metallurgical process. Such an approach has to be faced from perspective involving commercial, economic and technical issues. Although recycling is an intrinsic feature of all the metallurgical processes, an efficient circular approach needs to take into account a correct selection and cleaning of the metallic and glassy-ceramic materials in order to allow their use in the process avoiding or limiting the exploitation and the consumption of the natural resources.

Such a view imposes a multidisciplinary approach where the application of complex mechanical system, innovative chemical plants, electromagnetic devices, biotechnological techniques and managing algorithm even ruled by artificial intelligence (i.e. for scrap selection, removal of the organic burden, extraction of valuable chemical elements etc.) have to be applied.

An efficient action inspired to the circular economy has to take into account a comprehensive vision where the recycling is associated to an efficient material and energy exploitation that implies an overall decrease of the polluting elements and greenhouse gases.

CALL FOR PAPERS

Prospective authors wishing to present are invited to submit a tentative title and an abstract of about 400 words (in English) to the Organising Secretariat **by July 9, 2021**. The abstract should provide sufficient information for a fair assessment.

Two ways to submit papers will be available:

- to fill in the form on the Meeting website at <http://www.aimnet.it/rawmat.htm>
- to send the title and the abstract, together with the requested information (Name and Surname, Affiliation, Mailing Address, Phone and e-mail) by e-mail to: aim@aimnet.it

IMPORTANT DATES

Titles and abstracts **July 9, 2021**
Notification of acceptance **September 18, 2020**
Opening of online registration: **October 2021**
Submission of presentations: **October 29, 2021**

PROCEEDINGS

Authors interested in publishing their papers in the electronic format proceedings are kindly requested to communicate it to the Organizing Secretariat, while submitting title and abstract.

Certain papers may be considered for publication in the AIM journal "La Metallurgia Italiana - International Journal of the Italian Association for Metallurgy" which is covered in the Science Citation Index Expanded by Thomson Reuters and in Scopus by Elsevier B.V.

LANGUAGE

The Meeting language will be English.

SPONSORSHIP OPPORTUNITIES

Companies interested in sponsoring the event may contact the Organising Secretariat: aim@aimnet.it • tel. +39 02 76021132. Information and forms will also be available on the Meeting website: www.aimnet.it/rawmat.htm

MEETING VENUE

The meeting will be held in Bergamo. Further information on the venue will be published on the meeting website: <http://www.aimnet.it/rawmat.htm>

BERGAMO

Bergamo greets visitors with its Venetian Walls. Surrounded by rivers and lush, verdant valleys, crossed by paths that widen to Parco dei Colli, the area's largest park, the city looks like a lounge filled with art, culture and nature, with a fascinating and complex history just waiting to be shared with others. The "upper and lower" city reveals a mixture of pleasant surprises and unexpected encounters, such as those with Gaetano Donizetti, the great composer of international renown, Bartolomeo Colleoni, the Bergamo leader who served under the Republic of Venice and Lorenzo Lotto, among the most famous Italian Renaissance artists who lived and worked in Bergamo for over a decade.

ORGANIZING SECRETARIAT



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MEETING CHAIRMAN

Carlo Mapelli - President of AIM Steelmaking Study Group

ORGANISING COMMITTEE

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