

circular economy

international
meeting **RAW**
MATERIALS
& **RECYCLING**

sustainability

metallurgical industry

BERGAMO . ITALY . 1-2 DECEMBER 2021

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.

AIM is looking forward to welcoming you in Bergamo!

MEETING CHAIRMAN

Carlo Mapelli - President of AIM Steelmaking Study Group

ORGANIZING COMMITTEES

Silvia Barella - Politecnico di Milano

Federica Bassani - Associazione Italiana di Metallurgia

Sabrina De Donato - Associazione Italiana di Metallurgia

Gianpaolo Foglio - Feralpi Group

Aldo Imerito - ECOTEC

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Inigo Unamono - Sidenor

Mariachiara Zanetti - Politecnico di Torino

WEDNESDAY, 1 DECEMBER 2021

9:30 *Welcome coffee & Registration of attendees*

10:30 Welcome address
Carlo Mapelli - Meeting Chariman

CHAIRPERSON: CARLO MAPELLI

11:00 {RAW_007} Future production of by-products in a low carbon steel industry
D. Algermissen - FEHS Building Materials Institute, Duisburg, Germany

11:20 {RAW_006} Valorisation of secondary metallurgy steelmaking slag: their use in agriculture
D. Mombelli, C. Mapelli - Politecnico di Milano, Italy
R. Moreschi, R. Marras - Unicalce, Italy
R. Morandi - Acciaieria Arvedi, Italy

11:40 {RAW_022} A way to use Ladle slag to partially replace lime in BOF
DIGITAL R.K. Pathak, V. Gollapalli, M V. M. Rao, V S. Soumya, B.K. Guttula, S. Jee,
K. Bhaskar - Visakhapatnam Steel Plant, Visakhapatnam, India

12:00 {RAW_009} EAF Slag as reinforcing filler for Nitrile Butadiene Rubber
A. Gobetti, G. Cornacchia, G. Ramorino - Università di Brescia, Italy
M. La Monica - ENEA, Italy

12:20 lunch

WEDNESDAY, 1 DECEMBER 2021

CHAIRPERSON: MARCO ALLONI

13:30 {RAW_021} Survey of the slag quality due to raw-material fines recirculation in Electric Arc Furnace

D. Mombelli, C. Mapelli, M. Quadrio - Politecnico di Milano, Italy

T. Echterhof - RWTH Aachen University, Germany

L. Fernandez Aparicio - Sidenor Investigacion Y Desarrollo SA, Spain

C. Sorger, T. Griessacher - Stahl- und Walzwerk Marienhütte GesmbH, Graz, Austria

D. Müdersbach, S. Schüler - Max Aicher Umwelt GmbH, Meitingen, Germany

13:50 {RAW_016} Compaction of aluminium fraction from MSWI bottom ash as an alternative to salt-flux for improved oxide separation and coalescence

A. Vallejo-Olivares, G. Tranell - NTNU, Norway

R. Önen, M. Gökelma - IZTECH, Turkey

14:10 {RAW_023} Dry granulation of secondary metallurgy slag: from a “problem” to an “opportunity”

M. Guzzon, M. Bissoli, L. Bozzetti, E. Chiarullo, E. Malfa - Tenova, Italy

14:30 {RAW_024} Agglomeration technology for circular materials in the secondary DIGITAL copper refining industry

L. Marousek, T. Tripolt, A. Böhm - Montanuniversitaet Leoben, Austria

J. Pesl - Montanwerke Brixlegg, Austria

14:50 {RAW_020} A circular economy solution in the field of steelmaking refractories: ReStoRe technology

M. Proietti, R. Ceccolini, M. Faverjon - Deref, Italy

15:10 {RAW_018} Slag management for stainless-steel mills and foundries

P. Assadi, Y. Droste - REMONDIS Production GmbH, Germany

15:30 coffee break

WEDNESDAY, 1 DECEMBER 2021

CHAIRPERSON: MARC FAVERJON

16:00 {RAW_027} Mineralogical and chemical characterization of urban waste bottom ashes. Possibility to use in slag and refractory formulations

M. Alloni, R. Carli - Prosimet, Italy

G. Buonomo, M. Dapiaggi - Università di Milano, Italy

16:20 {RAW_010} Two step dust recycling - an innovative, green and zero waste dust recycling process

B. Voraberger, K. Pastucha, A. Fleischanderl, G. Wimmer - Primetals Technologies Austria GmbH, Austria

J. Antrekowitsch, M. Auer - Montanuniversität Leoben, Austria

16:40 {RAW_026} Mercury (Hg) - an environmental pollutant emitted during sintering process

C. Hledik, Y. Zeng, M. Fürhacker - University of Natural Resources and Life Sciences, Vienna, Austria

M. Goetz - Primetals Technologies Austria, Linz, Austria

17:00 {RAW_001} LINDE industrial gas applications in nonferrous processing: combining CFD with partial experimental verification & validation

W.J. Mahoney, V. Kilchyk, A.C. Deneys, J. Gan, A. Abdelwahab, V. Correia - Linde Technology Center, Tonawanda, USA

V. Alba - Linde Gas Italia, Arluno (MI), Italy

17:20 {RAW_029} Closing the loop: lower carbon technology driving circular economy solutions in refractories

C. Novais, D. Giunta - RHI Italia, Italy

17:40 {RAW_014} Novel furnace for precise control of metallurgy of aluminum and magnesium alloys from recycle (STEEDER Project)

F. D'Errico - Politecnico di Milano, Italy

G. Valota - Brembo, Italy

P. Odorico - Auril and Gond, Italy

M. Romeo - Insight, Italy

18:00 *Closure of the first day*

19:30 Departure of the transfer service

20:00 *Meeting Dinner at Il Pianone Restaurant*

THURSDAY, 2 DECEMBER 2021

CHAIRPERSON: ENRICO MALFA**8:50 {RAW_019} The ferrous scrap challenges in the European steelmaking scenario - A new R&D laboratory to cope with this new situation**

A. Vicente - ArcelorMittal, Spain

9:10 {RAW_003} Automatic Scrap classification: Central hub for the inbound material to ensure Scrap yard competitively

D. Armellini, C. Ponton - Danieli Automation, Buttrio (UD), Italy

9:30 {RAW_013} Lighthouse Plant "Acciaio_4.0": Tenova and ORI Martin build the next generation scrap management technology

R. Girelli, G. Bavestrelli - Tenova, Italy

M. Zanforlin, A. Panizza - ORI Martin, Italy

L. Merigo - CSMT Brescia, Italy

9:50 {RAW_017} Sustainable recycling of metallic fuels through the solar carbothermal reduction of oxides

Y. Berro, M. Balat-Pichelin - PROMES UPR CNRS, Font-Romeu, France

10:10 {RAW_002} Circular economy and industrial symbiosis in a recent analysis of the relevant European projects related to the steel industry

V. Colla, T.A. Branca - Scuola Superiore Sant'Anna, Pisa, Italy

A. Morillon, D. Algermissen - FEhS-Institut für Baustoff-Forschung, Duisburg, Germany

H. Granbom, S. Rosendahl - SWERIM, Lulea, Sweden

U. Martini - RINA Consulting-Centro Sviluppo Materiali, Roma, Italy

R. Pietruck - VDEh-Betriebsforschungsinstitut GmbH, Dusseldorf, Germany

D. Snaet - European Steel Technology Platform, Brussels, Belgium

10:30 coffee break

THURSDAY, 2 DECEMBER 2021

CHAIRPERSON: VALENTINA COLLA

10:50 {RAW_008} Laser OES in recycling - How speed outpaces precision as an analytical performance parameter

A. Schlemminger - QuantoLux GmbH, Kleve, Germany

11:20 {RAW_005} Study of a mechanical technique for rare earth magnets recycling

E. Pošković, L. Ferraris, F. Franchini, M. Actis Grande - Politecnico di Torino, Alessandria, Italy

11:40 {RAW_011} Silicon-PV panels recycling: technologies and perspectives

P. Cerchier, L. Pezzato - Università di Padova and 9-TECH, Italy

K. Brunelli, M. Dabalà - Università di Padova, Italy

G. Ansanelli, M. Tamaro - C.R. ENEA Portici, Italy

12:00 {RAW_015} An industrial experience of circular economy in the production of hardmetal, a strategic composite material

G.C. Marcheselli, G.P. De Gaudenzi, M. Garabelli, S. Tedeschi, F. Pirone, D. Ruggiero - F.I.L.M.S., Anzola d'Ossola (VB), Italy

R. Polini - Università di Roma Tor Vergata, Italy

A. Serpe, G. De Gioannis, S. Trudu, M. Cera - Università di Cagliari, Italy

12:20 {RAW_028} Raw Materials in steelmaking; perspectives?

S. Ferrari - Siderweb, Italy

12:50 *End of the Meeting*

GENERAL INFORMATION

VENUE

The Conference will be held in Bergamo at the Congress Center Giovanni XXIII, viale Papa Giovanni XXIII, 106 (www.congresscenter.bg.it).

LANGUAGE

The official language of the Meeting will be English.

PROCEEDINGS

Attendees will receive copy of the presentations in pdf format at the beginning of the Meeting.

AIM journal "La Metallurgia Italiana – International Journal of the Italian Association for Metallurgy" will dedicate an issue in the first half of 2022 to the topic of Circular Economy, Raw Materials & Recycling. Authors interested in publishing their papers on that issue, are invited to send their request to the editorial secretariat (met@aimnet.it), in order to receive information and instructions for preparing it.

REGISTRATION FEES

Early bird registration fees (**by November 12, 2021**)

N.B: Speaker registration deadline: **November 5, 2021**

FEES FOR DIGITAL PARTICIPATION ARE THE SAME AS ON-SITE ATTENDANCE FEES

ALL REGISTRATIONS ARE REVENUE STAMP INCLUDED	AIM MEMBER	NON MEMBER	MEETING REGISTRATION FEES INCLUDE:
<ul style="list-style-type: none"> • SPEAKER • SESSION CHAIRPERSON • COMMITTEE MEMBER 	€ 350	€ 440	<ul style="list-style-type: none"> • Admittance to technical sessions and to the exhibition • Meeting bag with electronic proceedings
PARTICIPANT (NON-PRESENTER)	€ 490 <small>AFTER 12 NOVEMBER</small> € 530	€ 580 <small>AFTER 12 NOVEMBER</small> € 620	<ul style="list-style-type: none"> • Meeting dinner on December 1 • Coffee breaks and lunch
STUDENT *	€ 330 (22% VAT included) <small>AFTER 12 NOVEMBER</small> € 370 (22% VAT included)		* Student will have to provide valid proof of student status. The Meeting dinner on December 1 is <u>not</u> included in the student registration fee

For non-members, the fee includes AIM Membership for the last quarter of 2021 and for the year 2022

Additional ticket for Meeting dinner for accompanying persons: € 110 (22% VAT included). (Includes only the Meeting dinner on December 1, 2021)

PAYMENT AND REMITTANCE

- by bank transfer, to the order of Associazione Italiana di Metallurgia - AIM at "CREDITO EMILIANO SpA", Branch no. 052 Milano Sede – Via Andegari, 14 - 20121 Milano - Italy, account no. 010000480455 cod. ABI 03032 - CAB 01600 - cin M
IBAN: IT33M0303201600010000480455, swift code BACRIT22MI
The transfer order must specify the name of the participant and the reference "RawMat2021". A copy of the transfer order must be sent to AIM, together with the Registration Form.
- by credit card online (www.aimnet.it/memo.htm).

SPEAKERS REGISTRATION

Please be aware that only presentation submitted on time and with presenting author regularly registered (registration fee paid) before **November 5, 2021** will be included in the final programme and published in the Meeting proceedings. Registration forms will not be processed without payment. A maximum of two papers will be accepted for each author registered in time.

SPEAKERS CANCELLATION AND REFUND POLICY

A refund, less 20% deduction for administrative costs, will be issued for written cancellations received **by November 5, 2021**. For speakers who notify their cancellation **after November 5, 2021** or will not attend the Meeting, **a charge of 100% of the conference fee will be withheld**. Their papers will be published anyway in the proceedings and a copy of the proceedings will be sent after the event.

ADVANCED REGISTRATION

If you plan to attend, please register online on the Meeting website <http://www.aimnet.it/rawmat.htm> or fill in the enclosed Registration Form and send it to the Organising Secretariat best before **November 5, 2021** (*early-bird registrations deadline*). Please use a separate form for each participant. Please contact the Organising Secretariat by fax or e-mail, if possible.

CANCELLATION AND REFUND POLICY

A refund, less 20% deduction for administrative costs, will be issued for written cancellations received by **November 12, 2021**. For attendees who notify their cancellation after **November 12, 2021** or will not attend the conference, **a charge of 100% of the conference fee will be withheld** and a copy of the proceedings will be sent after the event.

INSURANCE

The Organising Secretariat cannot assume any responsibility for personal accident, loss or damage to the private property of participants and accompanying persons, which may either occur during or arise from the Meeting. Participants should therefore take whatever steps they consider necessary as regards insurance.

EXHIBITION & SPONSORSHIP OPPORTUNITIES

As an integral element of the event, RawMat will feature a table top exhibition that will enable excellent exposure for company products, technologies, innovative solutions or services. At this opportunity, the Organizers will set an area strategically located. This area will be a focal point of the Meeting, so that enough time will be available to guarantee a perfectly targeted potential customer's environment.

Companies will be able to reinforce their participation and enhance their corporate identification by taking advantage of the benefits offered to them as Sponsor of the Conference. Companies interested in exhibiting and/or sponsoring the event may visit the Conference website: www.aimnet.it/rawmat.htm or contact the **RawMat Organising Secretariat**: e-mail: aim@aimnet.it / T. +39 02 76021132

VISA APPLICATION FORM

If you need an official invitation please send your request to the Organising Secretariat best before November 5, 2021 complete with family and first name, Mr/Mrs, birth date, passport number, arrival and departure dates, nationality and fax number of the Italian Embassy for your Country.

COVID-19 HEALTH AND SAFETY INFORMATION

AIM is working closely with the venue to ensure a safe and successful Conference. Closer to the event, we will provide registered attendees with the health and safety guidelines that must be strictly observed.

ATTENDEES WITH TRAVEL RESTRICTIONS

For speakers and attendees with travel restrictions, it will be possible to present and follow the presentations digitally.

MEETING DINNER

In order to give delegates the opportunity to meet informally, AIM organized a Meeting dinner will be held in the evening of December 1, at Il Pianone Restaurant – Bergamo Alta.

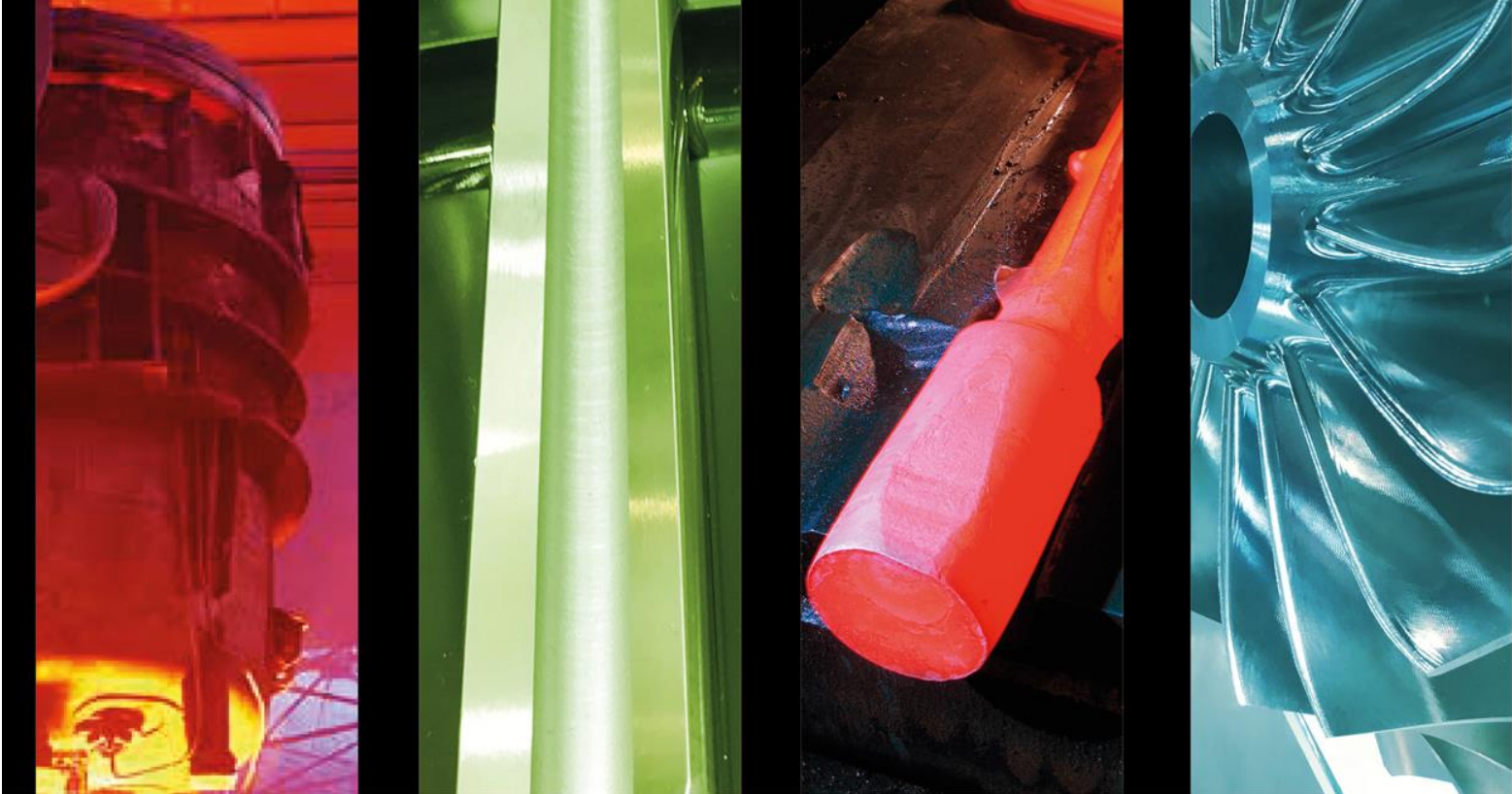
MOBILE/CELL PHONE

Mobiles must be kept turned off or in silent mode in all Meeting rooms.

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.

ACCOMMODATION [>>link](#)



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7th European Duplex Stainless Steel Conference & Exhibition

2022

Bardolino · Verona · Italy, 15-17 June 2022

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Please complete and return this form by **November 12, 2021**

to:

ASSOCIAZIONE ITALIANA DI METALLURGIA - via F. Turati 8 - 20121 Milano - Italy
 phone: +39 0276021132 or +39 0276397770 - e-mail: aim@aimnet.it - website: www.aimnet.it

FEES FOR DIGITAL PARTICIPATION ARE THE SAME AS ON-SITE ATTENDANCE FEES

ALL REGISTRATIONS ARE REVENUE STAMP INCLUDED	AIM MEMBER	NON MEMBER	MEETING REGISTRATION FEES INCLUDE:
<ul style="list-style-type: none"> SPEAKER SESSION CHAIRPERSON COMMITTEE MEMBER 	€ 350	€ 440	<ul style="list-style-type: none"> Admittance to technical sessions and to the exhibition Meeting bag with electronic proceedings Meeting dinner on December 1 Coffee breaks and lunch <p>* Student will have to provide valid proof of student status. The Meeting dinner on December 1 is <u>not</u> included in the student registration fee</p>
PARTICIPANT (NON-PRESENTER)	€ 490 AFTER 12 NOVEMBER € 530	€ 580 AFTER 12 NOVEMBER € 620	
STUDENT *	€ 330 (22% VAT included) AFTER 12 NOVEMBER € 370 (22% VAT included)		

FOR NON-MEMBERS, THE FEE INCLUDES AIM MEMBERSHIP FOR THE LAST QUARTER OF 2021 AND FOR THE YEAR 2022

Additional ticket for Meeting dinner for accompanying persons: € 110 (22% VAT included)
 (Includes only the Meeting dinner on December 1, 2021)

TO REGISTER PLEASE FILL-IN THE FOLLOWING REGISTRATION FORM IN ALL ITS PARTS. (IT IS ALSO POSSIBLE TO REGISTER ONLINE - www.aimnet.it/rawmat.htm)

PERSONAL DATA Please use **BLOCK** letters throughout form (photocopies can be used)

FAMILY NAME _____

FIRST NAME(S) _____

E-MAIL FOR CORRESPONDENCE _____

TEL. _____

INVOICING DATA

COMPANY NAME _____

COMPANY FISCAL ADDRESS _____

ZIP CODE _____ TOWN _____ COUNTRY _____

E-MAIL FOR INVOICING AND BILLING INFORMATION _____

VAT NUMBER _____ ORDER REF. NUMBER (IF REQUESTED ON THE INVOICE) _____

ONLY FOR ITALIAN SOCIETIES

Indirizzo posta elettronica certificate (PEC) _____

Codice destinatario _____

I WILL ATTEND: ON-SITE DIGITALLY

AS: DELEGATE (NON-PRESENTER) - SESSION CHAIRPERSON - EXHIBITOR/SPONSOR - COMMITTEE MEMBER - STUDENT* * A valid proof of student status is required.
 SPEAKER (PRESENTER) PAPER NR. RAW(N°) _____ AND RAW(N°) _____ (EACH REGISTRATION COVERS A MAXIMUM OF TWO PAPERS)

AIM MEMBER NON MEMBER €. _____

N° _____ ADDITIONAL TICKET(S) FOR SOCIAL EVENT (DECEMBER 1) FOR ACCOMPANYING PERSON €. _____

TOTAL AMOUNT BEING PAID: €. _____

PAYMENT AND REMITTANCE

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- by credit card online (<http://www.aimnet.it/rawmat.htm>)
- against invoice

PRIVACY

I, the undersigned, have read the Privacy notice at the following page and I accept that AIM processes my personal data in accordance with articles 13-14 of EU Regulation no. 679/2016 (GDPR). Furthermore, I authorize AIM:

- to send any invitations to events of interest from other worldwide metallurgical associations: yes no
- to insert my name in the list of event participants: yes no

DATE _____

SIGNATURE _____

PRIVACY NOTICE

Pursuant to artt. 13-14 EU REG. n. 679/2016 (GDPR)

AIM, Italian Association of Metallurgy (VAT number 00825780158), in person of the legal representative Eng. Federico Mazzolari (hereinafter the "Data Controller"), current in Milan, via Turati n. 8, informs you that, pursuant to art. 13 of the EU Regulation n. 2016/679 (hereinafter "GDPR"), your data will be processed in the manner and for the following purposes.

1. Personal Data.

The Data Controller processes personal identifying data (i.e.: name, surname, company name, address, telephone number, e-mail address, username, bank and payment details, hereinafter referred to as "Personal Data") that you have communicated on the occasion of the paper registration or through the website www.metallurgia-italiana.net.

2. Purpose of the treatment.

Your data will be processed by the Data Controller for the following possible purposes:

- transmission of periodic communications by e-mail;
- invitation to activities and/or events promoted by the Data Controller;
- in case of registration on the website www.metallurgia-italiana.net, registration on the site and creation of a user (username and password);
- in case of registration for events, inclusion in the list of participants at the event, receipt of invitations for relevant events from other worldwide metallurgical associations and invoicing of the fee for the participation at the event, if due;
- in case of association with AIM, sending of the membership card;
- in case of purchase of books or other material, delivery of the same and invoicing.

3. Processing methods.

The processing of your personal data is carried out by means of the operations indicated in art. 4 n. 2) GDPR and more precisely: collection, registration, organization, storage, consultation, processing, modification, selection, extraction, comparison, use, interconnection, blocking, communication, cancellation and destruction of data. Your personal data are subjected to both paper and electronic processing. The Data Controller will process personal data for the time necessary to fulfill the aforementioned purposes and in any case for no more than 10 years from the termination of the relationship.

4. Access to the Data.

Your data may be made accessible, for the purposes referred to in art. 2, to the employees and collaborators of the Data Controller, in their capacity as persons in charge and/or internal managers of the processing and/or system administrators.

5. Data communication and data transfer abroad.

The Data Controller may communicate your name, nationality and e-mail address to foreign associations, exclusively in the case of participation in itinerant congress editions.

The aforementioned associations, operating in countries located in or outside the EU, may not provide adequate data protection safeguards (a complete list of countries providing adequate data protection safeguards is available on the EU Guarantor's website for the Protection of Personal Data). In such cases, the transfer of your data will be carried out in compliance with the applicable international rules and agreements, as well as with the adoption of appropriate measures (e.g. standard contractual clauses).

Personal data are stored on servers located in Milan (IT), within the European Union. In any case, it is understood that the Data Controller, if necessary, will have the right to move the servers even outside the EU. In this case, the Data Controller hereby ensures that the transfer of non-EU data will take place in accordance with the applicable legal provisions, subject to the stipulation of the standard contractual clauses provided by the European Commission.

6. Rights of the Data Subject.

In your capacity as a Data Subject, you have the rights set forth in art. 15 GDPR and, precisely, the rights of:

- to obtain confirmation of the existence or not of personal data concerning you, even if not yet registered, and their communication in an intelligible form;
 - to obtain the indication: a) of the origin of personal data; b) of the purposes and methods of the processing; c) of the logic applied in case of treatment carried out with the aid of electronic instruments; d) of the identification details of the Data Controller, the data processors and the designated representative pursuant to art. 3, paragraph 1, GDPR; e) the subjects or categories of subjects to whom the personal data may be communicated or who may become aware of it in their capacity as designated representative in the territory of the State, managers or agents;
 - to obtain: a) updating, rectification or, when interested, integration of data; b) the cancellation, transformation into anonymous form or blocking of data processed unlawfully, including data whose retention is unnecessary for the purposes for which the data were collected or subsequently processed; c) the attestation that the operations referred to in letters a) and b) have been brought to the attention, also as regards their content, of those to whom the data have been communicated or disseminated, except in the case where such fulfillment is it proves impossible or involves a use of means manifestly disproportionate to the protected right;
 - to object, in whole or in part, for legitimate reasons to the processing of personal data concerning you, even if pertinent to the purpose of the collection.
- Where applicable, it also has the rights referred to in articles 16-21 GDPR (right of rectification, right to be forgotten, right of limitation of treatment, right to data portability, right of opposition), as well as the right of complaint to the Guarantor Authority.

7. How to exercise rights.

You can exercise your rights at any time by sending: a registered letter to AIM, Italian Association for Metallurgy, via Turati n. 8, Milan or an e-mail to info@aimnet.it.

8. Data Controller and person in charge.

The Data Controller is AIM, Italian Association of Metallurgy, via Turati n. 8, Milan. The person in charge of data processing is Ms. Federica Bassani, via Turati n. 8, Milan - e-mail info@aimnet.it.

The updated list of data processors is kept at the Data Controller's headquarters.



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