Scope

After few years of sanitary restrictions, S2P Conference is back in full in-person mode!

On behalf of the Organizing Committee, we are pleased to invite you to the 17th International Conference on Semi Solid Processing of Alloys and Composites (S2P2023), which will be held from September 6th to 8th, 2023 in Brescia, Italy.

The 17th S2P International Conference focuses on the advancement in fundamental knowledge and development of materials and industrial processes for semi-solid manufacturing of high-performance metal components. This conference will continue a successful series of conferences on semi-solid processing of alloys and composites started in 1990.

We are looking forward to welcoming you in Italy!

Previous Conferences
• 1990 – Sophia-Antipolis, France
• 1992 – Cambridge, MA, USA
• 1994 – Tokyo, Japan
• 1996 – Sheffield, England
• 1998 – Denver, CO, USA
• 2000 – Torino, Italy
• 2002 – Tsukuba, Japan
• 2004 – Limassol, Cyprus
• 2006 – Busan, Korea
• 2008 – Aachen, Germany and Liège, Belgium
• 2010 – Beijing, China
• 2012 – Cape Town, South Africa
• 2014 – Muscat, Oman
• 2016 – Salt Lake City, USA
• 2018 – Shenzhen, China
• 2021 – Leoben, Austria
Conference chairperson
Prof. Annalisa Pola

Local Organization Committee
Marialaura Tocci – Università di Brescia
Federica Bassani – Associazione Italiana di Metallurgia
Annalisa Pola – Università di Brescia
Michael Modigell – RWTH Aachen University
Ahmed Rassili – CRM Group
Mario Rosso – Politecnico di Torino
Marta Verderi – Associazione Italiana di Metallurgia

International Scientific Committee
Frank Czerwinski – CanmetMATERIALS, Canada
Pradip Dutta – Indian Institute of Science, India
Merton Flemings – Massachusetts Institute of Technology, USA
Toshio Haga – Osaka Institute of Technology, Japan
Anders E.W. Jarfors – Jönköping University, Sweden
Jufu Jiang – Harbin Institute of Technology, China
Yonglin Kang – University of Science and Technology, China
Daquan Li – General Research Institute for Nonferrous Metals, China
Jiehua Li – Montanuniversität Leoben, Austria
Michael Modigell – RWTH Aachen University, Germany
Steve Midson – The Midson Group, Colorado, USA
Behzad Niroumand – Isfahan University of Technology, Iran
Annalisa Pola – Università di Brescia, Italy
Ahmed Rassili – CMR Group, Belgium
Mario Rosso – Politecnico di Torino, Italy
Sagren Govender – Council for Scientific and Industrial Research, South Africa
Chi Yuan Tsao – National Cheng Kung University, Taiwan
Johannes Winklhofer – SAG Motion GmbH, Austria
Xiangjie Yang – Nanchang University, China
Qiang Zhu – Southern University of Science and Technology, China
8:30  Welcome coffee & Registration of attendees

9:00  Opening ceremony
Welcome from the Organizing Committee and from the Director of the Department of Mechanical and Industrial Engineering (Prof. L.E. Zavanella)

9:30  Keynote lecture
Current state of semisolid processing
Prof. A.E.W. Jarfors - Jönköping University, Sweden

MATERIAL DEVELOPMENT AND CHARACTERIZATION I
Chairperson: Ahmed Rassili

10:10  A comparison of microstructure, casting defects and die soldering of rheocasting and thixocasting AL-7si-0.3mg based alloy
S2P_054
J. Li, I. Spacil - Montanuniversität Leoben, Austria
J. Winklhofer, F. Hofstätter, S. Griesebner - SAG Business Improvement GmbH, Austria

10:30  Fatigue properties of thixoformed Al-6wt%Si-2.5wt%Cu
S2P_006
E. J. Zoqui - University of Campinas, Brazil
W. L. Beil - Federal Institute of Education, Science and Technology, Brazil

10:50  Coffee break - photo taking
MATERIAL DEVELOPMENT AND CHARACTERIZATION II

Chairperson: Frank Czerwinski

11:20  
**Mechanical and microstructural investigations on a symmetric mould processed with Semi-Solid Aluminum RheometalTM: analysis of the as cast properties**  
V. Magrin, F. Bonollo - Università di Padova, Italy  
Z. Li, A. E. W. Jarfors - Jönköping University, Sweden

11:40  
**A comparative study on microstructure, mechanical property, and electrical conductivity of Al-7Si-0.6Mg alloy produced by high pressure die casting and semisolid die casting**  
J. Feng, S. Chen, D. Li - GRINM Group Co., Ltd. - GRIMAT Engineering Institute Co., Ltd., China  
S. Zhu, Y. Sui - Kunming University of Science and Technology, China

12:00  
**Preliminary investigation on the use of recycled A356 alloy for semi solid processing**  
A. Mantelli, L. Girelli, L. Montesano, A. Pola - University of Brescia, Italy  
R. Arcaleni, L. Tonelli - University of Bologna, Italy

12:20  
Lunch

MATERIAL DEVELOPMENT AND CHARACTERIZATION III

Chairperson: Annalisa Pola

14:00  
**Variation of Semi-Solid microstructure and mechanical properties of Mg98.5Ni0.5Y1.0 alloy with solidification pressure**  
S. Wu, S. Lü, X. Yang, W. Guo - Huazhong University of Science and Technology, China

14:20  
**Heat-treatment characteristics and structure-property relationships of thixomolded AZ91 and ultralight LAZ771 Magnesium alloys**  
T.C. Su, T.Y. Lai, Y.Y. Kuo, S.Y. Hu - National Taiwan University, Taiwan

14:40  
**Evolution of microstructure and mechanical properties of the rheo diecast Mg-12Gd-3Y-1Zn-0.4Zr alloy during heat treatment**  
D. Li, J. Feng - GRINM Group Co., Ltd. - GRIMAT Engineering Institute Co., Ltd., China  
Z. Chang, L. Peng, Y. Wu - Shanghai Jiao Tong, University, Shanghai, China

15:00  
**Development of high-performance semi-solid magnesium alloy and large thixomolding machine**  
L. Gu, J. Wang, X. Zeng - Shanghai Jiao Tong University, China  
J. Deng, S. Fan - BOLE Intelligent Machinery Co., China

15:20  
Coffee break
On the liquid portion composition deviation in the rheometal process
A.E.W. Jarfors - Jönköping University, Sweden

A Study on microstructure and properties of aluminum alloy bracket produced by a new semi-solid rheo-diecasting process
S. Chen, D. Li - GRINM Group Co. - GRIMAT Engineering Institute Co., China
F. Zhang, J. Feng, F. Zhang, - GRINM Group Co. - GRIMAT Engineering Institute Co., China

Flow length influence of cores made of high-temperature composite in semi-solid AZ91 produced in Thixomolding
A. Schilling, C. Schütz, A. P. Fros, M. Fehlbier - University of Kassel, Germany

Microstructure design of semi-solid slurry for metal direct writing
Z. Li, X.G. Hu, H.X. Lu, Q. Zhu - Southern University of Science and Technology, China

End of the first day
### MATERIAL DEVELOPMENT AND CHARACTERIZATION IV

**Chairperson:** Mario Rosso

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:30</td>
<td>Influence of reinforcement particle parameters on the homogeneity of particle distribution in semi-solid formed aluminium matrix composites</td>
<td>M. Speth, K. R. Riedmüller, M. Liewald - University of Stuttgart, Germany</td>
</tr>
<tr>
<td>9:50</td>
<td>Microstructure Evolution during Cooling slope Rheoprocessing of novel Al-15Mg2Si-4.5Si composite</td>
<td>P. Das - Indian Institute of Science, India</td>
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<tr>
<td>10:30</td>
<td>Semi-Solid casting of AlN reinforced Mg-Matrix composites and their thermophysical properties</td>
<td>L. Chen, J. Qin, J. Li, S. Lü, W. Guo, S. Wu - Huazhong University of Science and Technology, China</td>
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### SEMISOLID SLURRY PREPARATION AND PROCESSING TECHNOLOGIES II

**Chairperson:** Anders E.W. Jarfors

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
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</thead>
<tbody>
<tr>
<td>11:20</td>
<td>Impact of processing conditions on the fluidity and consistency of GISS processed Semi-Solid aluminum alloys</td>
<td>S.P. Midson - Colorado School of Mines, USA</td>
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<td>X. Liang, H. Yao, A. Wei - Ningbo IKD Semi-solid Technology CO., China</td>
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<td>11:40</td>
<td>High speed roll casting of Al-5%Mg strip at semisolid condition</td>
<td>T. Haga, K. Yamazaki - Osaka Institute of Technology, Japan</td>
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<td>S. Nishida - Gunma University, Japan</td>
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<tr>
<td>12:00</td>
<td>Quality control of semi-solid die casting by filling pressure based on machine learning method</td>
<td>Z. Wang, X.G. Hu, H.X. Lu, Q. Zhu - Southern University of Science and Technology, China</td>
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</tbody>
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12:20 Lunch
<table>
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<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
<th>Institutions</th>
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<tbody>
<tr>
<td>14:00</td>
<td>Liquid-induced heat treatment for eliminating the anisotropy in</td>
<td>F. Zhou, X.G. Hu, Z. Li, Q. Zhu</td>
<td>Southern University of Science and Technology, China</td>
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<td>mechanical properties of laser additive manufactured IN718 alloy</td>
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<tr>
<td>14:20</td>
<td>A molecular dynamics study of nucleation and grain growth of novel</td>
<td>I. Mukherjee, P. Das</td>
<td>Indian Institute of Science, India</td>
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<td></td>
<td>Al-15Mg2Si-4.5Si composite during rapid cooling based semi solid</td>
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<td>slurry preparation</td>
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<tr>
<td>14:40</td>
<td>Insert molding of aluminum alloy A7075 and alumina plate by semi</td>
<td>S. Yasuhara, H. Ueno, S. Okubo, Y. Otake, S. Nishida</td>
<td>Gunma University, Japan</td>
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<td></td>
<td>solid forging</td>
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<td>S. Furuta, T. Tanaka, M. Sasada</td>
<td>Doshisha University, Japan</td>
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<tr>
<td></td>
<td></td>
<td>T. Haga</td>
<td>Osaka Institute of Technology, Japan</td>
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<tr>
<td>15:00</td>
<td>Coffee break</td>
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</tbody>
</table>
15:30  **Comparison of solidification microstructure evolution of Al-10Si and recycled aluminium beverage can strips made in a strip caster**

A. De Padua Lima Filho, L. Veronez Goulart Ferreira, P. Barbosa de Oliveira Neto, R. A. Nunes de Oliveira - Unesp-São Paulo State University, Brazil
F. Hois - Technische Universitaet Wien (TU Wien), Austria
M. Borodiak - Votorantim Metais/Companhia Brasileira de Aluminio, Brazil

15:50  **Characterisation of residual stresses of rheocast Al alloy**

E. Fracchia, M. Actis Grande - Polytechnic of Turin, Italy
I. Gattelli - Fonderia Gattelli Srl, Italy

16:10  **Effect of Mn additions on microstructure, mechanical properties and die soldering of Rheocasting Al-7Si-0.3Mg based alloys**

J. Li, I. Spacil - Montanuniversität Leoben, Austria
J. Winklhofer, F. Hofstätter, S. Griesebner - SAG Business Improvement GmbH, Austria

17:30  **Guided city tour**

*Meeting point at Capitolium Brescia (via dei Musei, 55)*

20:00  **Conference dinner at “La Sosta”**
ECONOMIC ASPECTS AND INDUSTRIAL APPLICATIONS I

Chairperson: Qiang Zhu

9:30  An Application of Injection Molding to Semisolid Processing of Metallic Alloys: A Role of SIMA in Feedstock Transformation
F. Czerwinski - CanmetMATERIALS, Canada

9:50  Gas Induced Superheated Slurry: industrial applicability, energy savings and sustainability in die casting
T. Botter - Mambretti Tech, Italy
Y. He - 2GISSCO Co. Ltd., China
J. Wannasin - Prince of Songkla University, Thailand
D. Schiavon - Costampress, Italy
S. Paramento - Sira Group, Italy
A. Mambretti - Mambretti Metalli, Italy

10:10 Performance and fundamental differences between rheocast and high-pressure vacuum die cast Al-Si-Mg alloys
F. Breton - Rio Tinto Alcan, Canada
J. Fourmann - Rio Tinto Alcan, USA
P. Jansson - Comptech i Skillingaryd AB, Sweden

10:30 New addressable applications for Rheocasting to escape from an over-supply market
F. Niklas - Casting-Campus GmbH, Switzerland

10:50 Coffee break
ECONOMIC ASPECTS AND INDUSTRIAL APPLICATIONS II

Chairperson: Jiehua Li

11:20 Producing structural high integrity castings with minimum carbon footprint with the comptech-rheocasting process
S2P_061
M. Hartlieb, P. Jansson - Comptech AB, Sweden
J. Tawil, S. Bergeron - Dynatool Industries, Canada

11:40 From Thixo to Rheo, the 90's and 2000's decades: glories, hardships and current situation of semi-solid processes in Italy
S2P_066
M. Rosso - INSTM-Politecnico di Torino, Italy

12:00 A novel vacuum semi-solid dosing concept for high quality HPDC parts of tomorrow
S2P_073
S. Frank, L. Kiessling, A. Betz - LKR Leichtmetallkompetenzzentrum Ranshofen GmbH, Austria
R. Burgstaller, A. Harrison, R. Rapp - MELTEC Industriebau GmbH, Austria

12:20 Thixocasting 2.0: from chips to parts with MAXImolding® reactor attachment for semi-solid slurry generation and dosing
S2P_072
E. Meyer, A. Stone - MAXImolding! Technology GmbH, Germany

12:40 Lunch

RHEOLOGY, MODELLING AND SIMULATION I

Chairperson: Annalisa Pola

14:00 Thixomolding of magnesium – Efficient process industrialization by combining a digital twin and systematic casting trials
S2P_058
H. Bramann, H. Rockmann, Y. Zhang, S. Yandamuri - MAGMA GmbH, Germany - YIZUMI Germany GmbH, Germany

14:20 On the possibility of replacing Scheil-Gulliver modelling with machine learning and neural network models
S2P_028
Z. Li - Comptech i Skillingaryd AB, Sweden - Jönköping University, Sweden
H. Tan, L. Lattanzi, A. E.W. Jarfors - Jönköping University, Sweden
P. Jansson - Comptech i Skillingaryd AB, Sweden

14:40 Rheological Modeling of 7075 Aluminum Alloy Semi-Solid Slurry and its Application in the Simulation of SEED Rheocasting Process
S2P_037
H. Lu, X. Meng, N. Bunnareaksathya, Q. Zhu - Southern University of Science and Technology, China

15:00 Coffee break
RHEOLOGY, MODELLING AND SIMULATION II
Chairperson: Marialaura Tocci

15:30  
**S2P_041**  
**CALPHAD optimization of the composition of EN AC-46000 secondary alloy for semi-solid casting processes**  
S. Ferraro, A. Bongiovanni - University of Turin, Italy  
I. Suarez Lopez - 2A spa, Santena, Italy  
M. Palumbo, M. Baricco, A. Castellero - University of Turin, Italy - National Interuniversity Consortium of Materials Science and Technology (INSTM), Italy

15:50  
**S2P_007**  
**Rheological behaviour of semi-solid Al-Si-Cu alloys produced by ECAP**  
L. Vanderlei Torres - Federal Institute of Education, Science and Technology, Brazil  
C. T. Weishaupt Proni, E. J. Zoqui - University of Campinas, Brazil

17:30  
Guided city tour  
*Meeting point at Capitolium Brescia (via dei Musei, 55)*

20:00  
Conference dinner at “La Sosta”
RHEOLOGY, MODELLING AND SIMULATION III
Chairperson: Michael Modigell

9:30  
**Rheological behaviour of secondary AlSi7Mg alloy for semi-solid processing**  
M. Tocci, A. Pola – Università di Brescia, Italy  
M. Modigell - German University of Technology in Oman (GUtech), Oman

9:50  
**Numerical simulations of the squeeze flow of thixotropic semisolid slurries**  
G. C. Florides, G. C. Georgiou - University of Cyprus, Cyprus  
M. Modigell - German University of Technology in Oman, Oman  
E.J. Zoqui - University of Campinas, Brazil

10:10  
**Semi-solid deformation behavior, microstructure of GH3536 superalloy and numerical simulation of thixotropic forging process for disc component**  
M. Huang, J. Jiang, Y. Wang - Harbin Institute of Technology, China

10:30  
**Comparison of rheological models to simulate die filling process of A356 semisolid alloy**  
G. Sanjuan-Sanjuan, Á. E. Chavez-Castellanos - Universidad Nacional Autónoma de México, México  
I. J. Ramírez-Calera - Universidad UniverMilenium, México

10:50  
Coffee break
Venting systems in semisolid processing of aluminium

S2P_018

M. Pammer - Montanuniversität Leoben, Austria
P. Hofer-Hauser - Österreichisches Gießerei-Institut, Austria
P. Jansson - Comptech AB, Sweden
P. Schumacher - Montanuniversität Leoben, Austria - Österreichisches Gießerei-Institut, Austria

Study on processing conditions for semi-solid forging of magnesium alloys

S2P_021

S. Furuta, H. Nakagawa, T. Tanaka - Doshisha University, Japan
M. Sasada, S. Nishida, S. Yasuhara, H. Ueno - Gunma University, Japan

Twin roll casting of aluminum alloy A7075 under low speed and high Pressure

S2P_070

H. Ueno, S. Yasuhara, S. Okubo, Y. Otake, S. Nishida - Gunma University, Japan
T. Haga - Osaka Institute of Technology, Japan

Closing of the Conference

12:30

Lunch

12:45-

Scientific committee meeting (room TB)

13:45

Transfer to Idra

14:30

Visit to Idra group
GENERAL INFORMATION

Conference venue
The Conference will be held in in Brescia, Campus of Engineering (Via Branze 38 – 25124 Brescia).

Language
The official language of the Conference will be English.

Proceedings
The full texts of all accepted papers will be published, after single-blind peer-review, in Solid State Phenomena (https://www.sciencedirect.com/journal/solid-state-phenomena), indexed in the main databases (Scopus,...).

Registration Information

REGISTRATION FEES

All above registration fees are Revenue Stamp included

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<th>STANDARD (by August 28, 2023)</th>
<th>AIM member</th>
<th>NON member</th>
</tr>
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<tbody>
<tr>
<td>Chairperson / Committee member</td>
<td>€ 590,00</td>
<td>€ 680,00</td>
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<td>€ 890,00</td>
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<tr>
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All registration fees are revenue stamp included, except for the students fees, which are VAT included

Additional ticket for the social event for accompanying persons:
(includes only the social event on September 7)

|                                                   | € 90,00   |
|                                                   | plus 22% vat |

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<th>LATE AND ON-SITE (from August 29, 2023)</th>
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<td>Chairperson / Committee member</td>
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<td>€ 570,00</td>
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<td>22% VAT included</td>
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We consider speaker (presenter) one author for each paper, the other authors shall register as regular participants.
Each registered speaker can present a maximum of two papers. **Over 2 papers, speakers are requested to pay an additional fee of 100 € (vat included) for each paper.**
Speakers failing to register or to pay by the deadline, will not be included in the program and their paper will not be published.

** Students (either speaker or delegate) will have to provide valid proof of student status to avail of the reduced student fee. If speakers, they will have to register by 30 April 2023.

**Conference Registration Fees include:**
- admittance to technical sessions and to the exhibition
- social event on September 7, 2023
- coffee breaks
- lunches
For non-members (students excluded) the fee includes AIM Membership for the last quarter of 2023 and for the year 2024.

**Social event**
In order to give delegates the opportunity to meet informally, AIM organized a Conference dinner in the evening of September 7, 2023, at the restaurant *La Sosta*, via S. Martino della Battaglia, 20, Brescia, anticipated by a guided tour of the city center of Brescia.
Throughout the years, the EAF meetings have become a key-event for the industrial and academic experts involved in the EAF steelmaking. Not only they allow the improvement of technology, but most important they guarantee the “know-how inheritance”; transfer, sharing and recording of the knowledge within the company at any level. Besides the improvement in process efficiency, continuous measurements and automatic control contribute decisively to all aspects related to safety and environment. On the other hand, the transition to circular economic and the action against the climate change implies new challenges: improvement of scrap quality, use of DRI/HBI, substitution of coal injection, improvement of slag quality, control of slag composition, possible exploitation of hydrogen-burners etc. The Workshop aims at gathering and sharing information on all aspects of EAF technology, among delegates with academic and industrial backgrounds. Such an event, capable of bringing together suppliers and manufacturers, will allow the comparison between the current and future needs and will set the ground to satisfy these demands now or in the future.

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 (aim@aimnet.it). For more info visit www.aimnet.it

DEADLINES

Submission of abstracts ........................................................................................................... 30 September 2023
Information on acceptance ...................................................................................................... 13 October 2023
Opening online registration ............................................................................................... 13 October 2023
Submission of pdf presentations ......................................................................................... 10 November 2023
Submission of full papers (optional) .................................................................................. After the Conference

CONTACTS

Associazione Italiana di Metallurgia
Via Filippo Turati 8
20121 Milano - Italy
t. +39 0276021132 or +39 0276397770
aim@aimnet.it - www.aimnet.it
AIM is glad to announce the 9th European Coke and Ironmaking Congress (ECIC) to be held in Bardolino, Italy, on 16-18 October 2024.

ECIC 2024 will focus on the newest technologies in coke making, sintering, pelleting, pyrolyzing the biomasses and ironmaking (blast furnaces, direct reduction and carbon-based smelting processes).

The 2025 goal of carbon neutrality and the related intensive efforts of the steel industry will significantly affect the technologies for iron ore reduction. In this perspective, the shortage of iron ores matching the requirement for direct reduction by gas and for melting in electric arc furnace makes important proposal of new technologies and devices that can ensure the carbon neutrality even for the coal based routes.

This Congress will focus on technologies that can achieve such a goal improving the efficiency of the existing process, applying the devices that avoid a net emission of green house gases and to point out new routes based on exploitation of biomasses whose net emission is intrinsically neutral.

**SCOPE AND TOPICS**

The 9th ECIC will address both fundamental research work and evaluation and plant operational results and plant construction. The Congress will bring together a wide range of experts, coming from plant operation, plant suppliers, universities and research institutes, who share expertise in:

- Cokemaking
- Production of Biocoal/biochar
- Industry 4.0 in ironmaking
- Sintering, pelleting, briquette production
- Direct reduction and Smelting reduction
- Blast furnace ironmaking

The event will provide a forum for best practise and state-of-the-art technology, new developments, new ideas and research results.

**IMPORTANT DATES & DEADLINES**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>29 February 2024</td>
<td>Abstract submission</td>
</tr>
<tr>
<td>12 April 2024</td>
<td>Notification of acceptance &amp; delivery of speaker guidelines</td>
</tr>
<tr>
<td>12 July 2024</td>
<td>Full paper submission</td>
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<tr>
<td>30 September 2024</td>
<td>PowerPoint presentation slides</td>
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<tr>
<td>16-18 October 2024</td>
<td>ECIC Congress</td>
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**ORGANIZING SECRETARIAT**

ASSOCIAZIONE ITALIANA DI METALLURGIA

Via Filippo Turati 8 - 20121 Milano MI - Italy
tel. +39 02 76021132
aim@aimnet.it - www.aimnet.it

www.aimnet.it/ecic
TIMETABLE

**WEDNESDAY 6 SEPTEMBER 2023 – ROOM “SALA CONSILIARE”**

<table>
<thead>
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<td>8:30</td>
<td>Welcome coffee &amp; Registration of attendees</td>
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<td>Opening ceremony</td>
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<td>9:30</td>
<td>Keynote lecture</td>
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<tr>
<td>10:10</td>
<td>MATERIAL DEVELOPMENT AND CHARACTERIZATION I</td>
</tr>
<tr>
<td>10:50</td>
<td>Coffee break - photo taking</td>
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<tr>
<td>11:20</td>
<td>MATERIAL DEVELOPMENT AND CHARACTERIZATION II</td>
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<td>12:20</td>
<td>Lunch</td>
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<tr>
<td>14:00</td>
<td>MATERIAL DEVELOPMENT AND CHARACTERIZATION III</td>
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<tr>
<td>15:20</td>
<td>Coffee break</td>
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<tr>
<td>15:50</td>
<td>SEMISOLID SLURRY PREPARATION AND PROCESSING TECHNOLOGIES I</td>
</tr>
<tr>
<td>17:10</td>
<td>End of the first day</td>
</tr>
</tbody>
</table>

**THURSDAY 7 SEPTEMBER 2023**

**ROOM “SALA CONSILIARE”**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:30</td>
<td>MATERIAL DEVELOPMENT AND CHARACTERIZATION IV</td>
</tr>
<tr>
<td>9:30</td>
<td>ECONOMIC ASPECTS AND INDUSTRIAL APPLICATIONS I</td>
</tr>
<tr>
<td>10:50</td>
<td>Coffee break</td>
</tr>
<tr>
<td>11:20</td>
<td>SEMISOLID SLURRY PREPARATION AND PROCESSING TECHNOLOGIES II</td>
</tr>
<tr>
<td>12:40</td>
<td>Lunch</td>
</tr>
<tr>
<td>14:00</td>
<td>MATERIAL DEVELOPMENT AND CHARACTERIZATION V</td>
</tr>
<tr>
<td>14:00</td>
<td>RHEOLOGY, MODELLING AND SIMULATION I</td>
</tr>
<tr>
<td>15:00</td>
<td>Coffee break</td>
</tr>
<tr>
<td>15:30</td>
<td>MATERIAL DEVELOPMENT AND CHARACTERIZATION VI</td>
</tr>
<tr>
<td>15:30</td>
<td>RHEOLOGY, MODELLING AND SIMULATION II</td>
</tr>
<tr>
<td>17:30</td>
<td>Guided city tour</td>
</tr>
<tr>
<td>20:00</td>
<td>Conference Dinner</td>
</tr>
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**FRIDAY 8 SEPTEMBER 2023 – ROOM “SALA CONSILIARE”**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>9:30</td>
<td>RHEOLOGY, MODELLING AND SIMULATION III</td>
</tr>
<tr>
<td>10:50</td>
<td>Coffee break</td>
</tr>
<tr>
<td>11:20</td>
<td>SEMISOLID SLURRY PREPARATION AND PROCESSING TECHNOLOGIES III</td>
</tr>
<tr>
<td>12:20</td>
<td>Closing of the Conference</td>
</tr>
<tr>
<td>12:30</td>
<td>Lunch</td>
</tr>
<tr>
<td>12:45</td>
<td>Scientific committee meeting (room TB)</td>
</tr>
<tr>
<td>14:00</td>
<td>Transfer to Idra</td>
</tr>
<tr>
<td>14:30</td>
<td>Visit to Idra Group</td>
</tr>
</tbody>
</table>