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 Wollmar 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 YuanTsao – 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

9:30   Opening ceremony - Keynote lecture

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

S2P_029  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

S2P_035  J. Feng, S. Chen, D. Li - GRINM Group Co., Ltd., China - 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

S2P_059  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 I

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., China - 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

SEMISOLID SLURRY PREPARATION AND PROCESSING TECHNOLOGIES I

Chairperson: Johannes Winklhofer

15:50 On the liquid portion composition deviation in the rheometal process

S2P_004 A. E. W. Jarfors - Jönköping University, Sweden

16:10 A Study on microstructure and properties of aluminum alloy bracket produced by a new semi-solid rheo-diecasting process

S2P_062 S. Chen, D. Li - GRINM Group Co. - GRIMAT Engineering Institute Co. - General Research Institute for Nonferrous Metals, China
F. Zhang, J. Feng, F. Zhang, - GRINM Group Co. - GRIMAT Engineering Institute Co., China

16:30 Flow length influence of cores made of high-temperature composite in semi-solid AZ91 produced in Thixomolding

S2P_036 A. Schilling, C. Schütz, A. P. Fros, M. Fehlbier - University of Kassel, Germany

16:50 Microstructure design of semi-solid slurry for metal direct writing

S2P_032 Z. Li, X.G. Hu, H.X. Lu, Q. Zhu - Southern University of Science and Technology, China

17:10 End of the first day
**MATERIAL DEVELOPMENT AND CHARACTERIZATION IV**

**Chairperson:** Mario Rosso

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

**SEMISOLID SLURRY PREPARATION AND PROCESSING TECHNOLOGIES II**

**Chairperson:** Anders Wollmar Jarfors

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>11:20</td>
<td>Impact of processing conditions on the fluidity and consistency of</td>
<td>S. P. Midson - Colorado School of Mines, USA</td>
</tr>
<tr>
<td></td>
<td>GISS processed Semi-Solid aluminum alloys</td>
<td>X. Liang, H. Yao, A. Wei - Ningbo IKD Semi-solid Technology CO., China</td>
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<td></td>
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<tr>
<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></td>
<td></td>
<td>S. Nishida - Gunma University, Japan</td>
</tr>
<tr>
<td>12:00</td>
<td>Quality control of semi-solid die casting by filling pressure based</td>
<td>Z. Wang, X.G. Hu, H.X. Lu, Q. Zhu - Southern University of Science and</td>
</tr>
<tr>
<td></td>
<td>on machine learning method</td>
<td>Technology, China</td>
</tr>
<tr>
<td>12:20</td>
<td>Lunch</td>
<td></td>
</tr>
</tbody>
</table>
MATERIAL DEVELOPMENT AND CHARACTERIZATION V

Chairperson: Steve Midson

14:00
S2P_031
Liquid-induced heat treatment for eliminating the anisotropy in mechanical properties of laser additive manufactured IN718 alloy
F. Zhou, X.G. Hu, Z. Li, Q. Zhu - Southern University of Science and Technology, China

14:20
S2P_040
A molecular dynamics study of nucleation and grain growth of novel Al-15Mg2Si-4.5Si composite during rapid cooling based semi solid slurry preparation
I. Mukherjee, P. Das - Indian Institute of Science, India

14:40
S2P_071
Effect of ingate length on microstructure and properties of Semi Solid squeeze casting CuSn10P1 Alloy
Y. Li, Z. Li, Q. Wang, L. Xie, L. Zhang, R. Zhou, H. Xiao - Kunming University of Science and Technology, China

15:00
Coffee break

15:30
S2P_011
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

MATERIAL DEVELOPMENT AND CHARACTERIZATION VI

Chairperson: Ahmed Rassili

15:50
S2P_025
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
S2P_055
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

20:00
Conference dinner at “La Sosta”
THURSDAY 7 SEPTEMBER 2023 – ROOM N.8

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
<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:20</td>
<td>Producing structural high integrity castings with minimum carbon footprint with the comptech-rheocasting process</td>
<td>M. Hartlieb, P. Jansson - Comptech AB, Sweden, J. Tawil, S. Bergeron - Dynatool Industries, Canada</td>
</tr>
<tr>
<td>11:40</td>
<td>From Thixo to Rheo, the 90's and 2000's decades: glories, hardships and current situation of semi-solid processes in Italy</td>
<td>M. Rosso - INSTM-Politecnico di Torino, Italy</td>
</tr>
<tr>
<td>12:00</td>
<td>A novel vacuum semi-solid dosing concept for high quality HPDC parts of tomorrow</td>
<td>S. Frank, L. Kiessling, A. Betz - LKR Leichtmetallkompetenzzentrum Ranshofen GmbH, Austria, R. Burgstaller, A. Harrison, R. Rapp - MELTEC Industriofenbau GmbH, Austria</td>
</tr>
<tr>
<td>12:20</td>
<td>Thixocasting 2.0: from dhips to darts with MAXImolding® reactor attachment for semi-solid slurry generation and dosing</td>
<td>E. Meyer, A. Stone - MAXImolding! Technology GmbH, Germany</td>
</tr>
<tr>
<td>12:40</td>
<td>Lunch</td>
<td></td>
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</tbody>
</table>
14:00  
**Thixomolding of magnesium – Efficient process industrialization by combining a digital twin and systematic casting trials**  
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**  
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**  
H. Lu, X. Meng, N. Bunnareaksathya, Q. Zhu - Southern University of Science and Technology, China

15:00  
Coffee break

**RHEOLOGY, MODELLING AND SIMULATION I**  
**Chairperson:** Marialaura Tocci

15:30  
**CALPHAD optimization of the composition of EN AC-46000 secondary alloy for semi-solid casting processes**  
S. Ferraro, A. Bongiovanni - Università di Torino, 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  
**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

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**  
*P*050  
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**  
*P*009  
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**  
*P*010  
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**  
*P*044  
G. Sanjuan-Sanjuan, Á. E. Chavez-Castellanos - Universidad Nacional Autónoma de México, México  
I. J. Ramírez-Calera - Universidad UniverMilenium, México

10:50 Coffee break
# SEMISOLID SLURRY PREPARATION AND PROCESSING TECHNOLOGIES III

**Chairperson:** Jufu Jiang

### 11:20
**S2P_018**  
**Venting systems in semisolid processing of aluminium**  
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

### 11:40
**S2P_021**  
**Study on processing conditions for semi-solid forging of magnesium alloys**  
S. Furuta, H. Nakagawa, T. Tanaka - Doshisha University, Japan  
M. Sasada, S. Nishida, S. Yasuhara, H. Ueno - Gunma University, Japan

### 12:00
**S2P_022**  
**Insert molding of aluminum alloy A7075 and alumina plate by semi-solid forging**  
S. Yasuhara, H. Ueno, S. Okubo, Y. Otake, S. Nishida - Gunma University, Japan  
S. Furuta, T. Tanaka, M. Sasada - Doshisha University, Japan  
T. Haga - Osaka Institute of Technology, Japan

### 12:40
**Lunch**

### 12:30-13:30
**Scientific committee meeting**

### 14:30
**Visit to Idra group**

### 17:00
Closing of the Conference

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**THIS IS A PRELIMINARY PROGRAMME**

Possible changes may still occur to titles, authors and scheduling.
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.scientific.net/SSP/Details), indexed in the main databases (Scopus,…).

Registration Information

REGISTRATION FEES
All above registration fees are Revenue Stamp included

<table>
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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>Delegate</td>
<td>€ 800,00</td>
<td>€ 890,00</td>
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<td>Sponsor</td>
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<td>€ 740,00</td>
</tr>
<tr>
<td>Student **</td>
<td>€ 570,00</td>
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</table>

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

<table>
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<tr>
<th>LATE AND ON-SITE (from August 29, 2023)</th>
<th>AIM member</th>
<th>NON member</th>
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<tr>
<td>Chairperson / Committee member</td>
<td>€ 640,00</td>
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<tr>
<td>Student **</td>
<td>€ 570,00</td>
<td></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.

**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 BACRIT22MIL

The transfer order must specify the name of the participant and the reference “S2P 2023”.

A copy of the transfer order must be sent to AIM, together with the Registration Form.

- by credit card online

**Cancellation and refund policy**

A refund, less 20% deduction for administrative costs, will be issued for written cancellations received by July 31, 2023. For attendees who notify their cancellation after July 31, 2023, or will not attend the Conference, a charge of 100% of the Conference fee will be withheld and 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 Conference. Participants should therefore take whatever steps they consider necessary as regards insurance.
VISA application form
If you need and official invitation please send your request to the Organising Secretariat best before July 31, 2023, complete with:
• Family and First name
• Mr/Mrs
• birth date
• passport number
• arrival and departure dates
• nationality
• email of the Italian Embassy for your Country.

Registration
If you plan to attend, please register online on the Conference website http://www.aimnet.it/s2p.htm send it to the Organising Secretariat best before August 28, 2023 (standard registrations deadline). Please contact the Organising Secretariat by e-mail, if possible.

Exhibition & sponsorship opportunities
The Conference will be enhanced by a Table-top Exhibition at which companies will have the opportunity to inform all delegates of their latest developments. The Exhibition area will be a focal point of the Conference.

Companies will be able to reinforce their participation and enhance their corporate identification by taking advantage of benefits offered to them as Contributing Sponsors of the Conference.
The detailed sponsorship packages are available on the Conference website: http://www.aimnet.it/s2p.htm.

Companies interested in taking part in the Exhibition or sponsoring the event may contact the Organising Secretariat (e-mail: met@aimnet.it).

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.

Accommodation >>link
# TIMETABLE

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

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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</thead>
<tbody>
<tr>
<td>8:30</td>
<td>Welcome coffee &amp; Registration of attendees</td>
</tr>
<tr>
<td>9:30</td>
<td>Opening ceremony - Keynote lecture</td>
</tr>
<tr>
<td>10:10</td>
<td>MATERIAL DEVELOPMENT AND CHARACTERIZATION I</td>
</tr>
<tr>
<td>10:50</td>
<td>Coffee break - photo taking</td>
</tr>
<tr>
<td>11:20</td>
<td>MATERIAL DEVELOPMENT AND CHARACTERIZATION II</td>
</tr>
<tr>
<td>12:20</td>
<td>Lunch</td>
</tr>
<tr>
<td>14:00</td>
<td>MATERIAL DEVELOPMENT AND CHARACTERIZATION III</td>
</tr>
<tr>
<td>15:20</td>
<td>Coffee break</td>
</tr>
<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>
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**THURSDAY 7 SEPTEMBER 2023**

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<tr>
<td>Room</td>
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<tr>
<td>9:30</td>
<td>MATERIAL DEVELOPMENT AND CHARACTERIZATION IV</td>
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<td>10:50</td>
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<tr>
<td>11:20</td>
<td>SEMISOLID SLURRY PREPARATION AND PROCESSING TECHNOLOGIES II</td>
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<td>12:40</td>
<td>Lunch</td>
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<tr>
<td>14:00</td>
<td>MATERIAL DEVELOPMENT AND CHARACTERIZATION V</td>
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<tr>
<td>15:00</td>
<td>Coffee break</td>
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<tr>
<td>15:30</td>
<td>MATERIAL DEVELOPMENT AND CHARACTERIZATION VI</td>
</tr>
<tr>
<td>17:30</td>
<td>Guided city tour</td>
</tr>
<tr>
<td>20:00</td>
<td>Conference Dinner</td>
</tr>
</tbody>
</table>

**FRIDAY 8 SEPTEMBER 2023 – ROOM “SALA CONSILIARE”**

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<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>Lunch</td>
</tr>
<tr>
<td>12:30</td>
<td>Scientific committee meeting</td>
</tr>
<tr>
<td>14:30</td>
<td>Visit to Idra Group</td>
</tr>
<tr>
<td>17:00</td>
<td>Closing of the Conference</td>
</tr>
</tbody>
</table>