5TH INTERNATIONAL CONFERENCE ON THERMOMECHANICAL PROCESSING

26-28 October 2016
Milan, Italy

ADVANCE PROGRAMME

Organised by:

ASSOCIAZIONE ITALIANA DI METALLURGIA
SCOPE

ThermoMechanical Processing (TMP) is an established and strategic method for increasing and controlling the mechanical properties of the metal alloys.

The TMP allows improving the microstructural features in order to realize the metal products fitting the requirement imposed by the modern mechanical and structural engineering.

TMP 2016 Conference aims at examining the key aspects involved in TMP: phase transformations, complex microstructures, in-line heat treatments, measurement techniques and the technological forming operations (rolling, forging, extrusion etc.).

PREVIOUS CONFERENCES OF THE SAME SERIES

1st TMP 2000: London (United Kingdom)
2nd TMP 2004: Liege (Belgium)
3rd TMP 2008: Padua (Italy)
4th TMP 2012: Sheffield (United Kingdom)
SCIENTIFIC COMMITTEE

- G. Angella · CNR IENI, Italy
- M. Baricco · Università di Torino, Italy
- W. Bleck · RWTH Aachen University, Germany
- F. Bonollo · Università degli Studi di Padova, DTG Vicenza, Italy
- B. Buchmayr · Montanuniversität Leoben, Austria
- P.D. Hodgson · Deakin University, Australia
- B. Hutchinson · SwereaKIMAB, Sweden
- R. Kawalla · Technische Universität Bergakademie Freiberg, Germany
- C. Mapelli · Politecnico di Milano, Italy
- E.J. Palmiere · The University of Sheffield, United Kingdom
- A. Schneider · Dillinger Hütte, Germany
- M. Steeper · IOM3, United Kingdom

ORGANISING COMMITTEE

- F. Bassani - Associazione Italiana di Metallurgia
- G. Capoferri - President of AIM Plastic Deformation of Metals Study Group
- A. Chittaro - ABS
- A. Ferraiuolo - Marcegaglia Carbon Steel
- F. Magni - President of AIM Steelmaking Study Group
- C. Mapelli - Associazione Italiana di Metallurgia
- F. Mazzolari - Arvedi group
- F. Pegorin - Primetals Technologies Italy
- G. Rampinini - President of AIM Forging Study Group
- P. Ravanelli - TenarisDalmine
- A. Vaccani - SMS Innse
Possible changes to the programme will be communicated during the Conference.
10.00 Registration

OPENING SESSION
Room MAGGIORE

11.15 Welcome address by prof. Carlo Mapelli, AIM President

11.30 Tempering of AHSS martensite during rapid heating
E. Poliak, O. Girina, D. Panahi, P. Venkatasurya - Global Research ArcelorMittal, East Chicago, USA

12.00 Back stress effect on anisotropic dilatation during phase transformation of steels
T. Otsuka, R. Brenner, B. Bacroix - Nippon Steel & Sumitomo Metal Corporation, Futsu, Japan

12.30 Lunch

COMPLEX MICROSTRUCTURES
Chairperson: Dominik Britz
Room MAGGIORE

14.00 The impact of temperature path during finish rolling and cooling on microstructure and mechanical properties of thin AHSS sheets
I. A. Denks, M. Witte, T. Petermann, F. Hagemann - Salzgitter Mannesmann Forschung, Salzgitter, Germany

14.20 Effect of thermomechanical processing on the microstructure, texture and impact toughness of two 700 MPa strength class structural steels
S. Mehtonen, V. Kesti - SSAB Europe, Raah, Finland
J. Mourujärvi, A. Kaijalainen - University of Oulu, Faculty of Technology, Finland

14.40 Colloidal analysis of particles extracted from microalloyed steel
A. Hegetschweiler, T. Kraus - INM-Leibniz-InstituteforNewMaterials, Saarbrücken, Germany
T. Staudt - AG der Dillinger Hüttenwerke, Dillingen/Saar, Germany

15.00 Thermomechanical processing of medium-Mn steels with bainite-austenite microstructures
A. Grajcar - Silesian University of Technology, Gliwice, Poland

15.20 Advanced microstructure classification of steel by data mining methods
J. Pauly, D. Britz, F. Mücklich - Saarland University, Saarbrücken, Germany
A.S. Schneider, M. Winter - Dillinger Hütte, Dillingen, Germany

15.40 Coffee break
MICROSTRUCTURE CONTROL I
Room MAGGIORE
Chairperson: Anthony J. DeArdo

16.00 New challenges in thermomechanical processing: applications in the cold mill
Y. Gong, M. Hua - University of Pittsburgh, United States
J. Uusitalo, A.J. DeArdo - University of Oulu, Oulu, Finland

16.20 A combination of in-situ methodologies to characterize phase transformations in peritectic steels
K. Hechu, C. Slater, P. Srirangam, S. Sridhar - The University of Warwick, Coventry, UK
B. Santillana - Tata Steel, IJmuiden, The Netherlands

16.40 A study of transformations of austenite in hot rolled dual phase steels
A.C. Hintze, G. Gomez, M. Valdez - Tenaris, Argentina
L. Nares, J.P. Pedraza, R. Bruna - Ternium, Buenos Aires, Argentina

17.00 Microstructural modeling of the austenitic grain growth of different micro-alloyed steels by using metallography and EBSD analysis
L. Eisenhut, C. Motz - Saarland University, Saarbrücken, Germany
D. Rupp - Dillinger Hütte, Germany

17.20 Dissolution and precipitation behaviour in steels microalloyed with niobium during thermomechanical processing
P. Gong, E.J. Palmiere, W.M. Rainforth - The University of Sheffield, United Kingdom

17.40 End of the first day
08.45  Registration

**PROCESS CONTROL**

*Room MAGGIORE*

Chairperson: Alberto Nardini

09.20  **DLPP. Quality management software tool for rolling and heat treatment optimization**
C. Fabbro, M. Durisotti - Danieli & C. Officine Meccaniche, Buttrio, Italy
P. Simecek - ITA Ltd., Ostrava, Czech Republic

09.40  **Intelligent furnace technology for annealing and galvanizing lines**
U. Sommers, F. Brühl, C. Sasse - SMS Group, Germany

10.00  **Development and industrial applying on rolling mill 5000 of the model of austenite grain size evolution in Nb-microalloyed steels**
A.V. Chastukhin, D.A. Ringinen - OMK Vyksa Steel Works, Vyksa, Russia

10.20  Coffee break

**PRODUCTS AND PROCESSES I**

*Room MAGGIORE*

Chairperson: Michele Durisotti

10.50  **Influence of liquid nitrogen mold cooling on surface defects of aluminum alloys extruded semi-finished products**
A.F. Ciuffini, C. Di Cecca, S. Barella, A. Gruttadauria, L. Merello, C. Mapelli - Politecnico di Milano, Italy
G. Mainetti, M. Bertoletti - A.t.i.e. Uno Informatica, Italy

11.10  **Control of segregation in high carbon bloom casting with new 320² format**
J. Thimont, C. Bobadilla, P. Barreau - ArcelorMittal R&D, Gandrange, France
U. Leuschke, W. Wilzek, T. Schramm - ArcelorMittal Duisburg, Germany

11.30  **Thermomechanical process in the production of spring steel flat bars**
A. Nardini, F. Pegorin, E. Osto - Primetals Technologies Italy, Marnate
M. El Mehtedi - Università Politecnica delle Marche, Ancona

11.50  **Mathematical simulation approach toward the optimization of the tundish mix grades process**
M.N. Al-Harbi, M. Altayeb - SABIC Technology Center, Jubail, Saudi Arabia
S. Pillai, A. Al-Shammary, B. Hamjad, N. Tewari - SABIC affiliate, Jubail, Saudi Arabia

12.10  **Development of X60-X70 pipe steel TRDR technology for low temperature toughness increasing**
D.A. Ringinen, A.V Chastukhin, A.V. Muntin, A.V. Chervonniy - OMK Vyksa Steel Works, Vyksa, Russia

12.30  Lunch
MECHANICAL PROPERTIES
Room MORANDI
Chairperson: Giuliano Angella

10.50 New stainless TWIP steel Fe-17Cr-MnNiCu: mechanical properties characterization and microstructure evolution during deformation
A. Ferraiuolo, S. Cicalè - Centro Sviluppo Materiali, Roma, Italy
A. Costa - Ansaldo Energia, Genova, Italy

11.10 Effect of coiling temperature on the strengthening mechanisms of low carbon steels microalloyed with Nb
L. Sanz, B. Pereda, B. López - CEIT, University of Navarra, Donostia-San Sebastian, Spain

11.30 Thermo-mechanical processing of steel: effect on microstructure, crystallographic texture and charpy impact transition behaviour
A. Ghosh, D. Chakrabarti - Indian Institute of Technology, Kharagpur, India

11.50 Reduction of fluting phenomenon in low carbon steels produced by warm rolling
M. Zebarjadi Sar, S. Barella, A. Gruttaduria, D. Mombelli, C. Mapelli - Politecnico di Milano, Italy

12.10 Effect of tempering time on strength and toughness of a ultra-low C medium Mn steel
L-X. Du, H-Y. Wu, J. Hu, X-H. Gao - The State Key Laboratory of Rolling and Automation Northeastern University, Shenyang, China

12.30 Lunch
**PRODUCTS AND PROCESSES II**

**Room MAGGIORE**

Chairperson: Alessandro Ferraiuolo

14.00 **Tailored forming technology for three dimensional massive components: overview and challenges**
B.A. Behrens, A. Bouguecha, C. Frischkorn, A. Huskic, A. Stakhieva, D. Duran - Institute of Forming Technology and Machines (IFUM), Garbsen, Germany

14.20 **Investigation of texture and structure evolution during hot rolling of 1100, 3104 and 8011 aluminum alloys in continuous mill**
E. Aryshenskii - Samara State Aerospace University, Russia
R. Kawalla - TU Bergakademie Freiberg, Institut für Metallformung, Germany
V. Aryshenskii - ZAO Alcoa SMZ, Russia

14.40 **Innovative solutions for thermo-mechanical rolling of long products**
M. Kruse - Friedrich Kocks & Co KG, Hilden, Germany

15.00 **The role of thermal and thermomechanical processes in memory behaviour of shape memory alloys**
O. Adiguzel - Firat University, Department of Physics, Elazig, Turkey

15.20 **TMP as an effective technique to produce ultra-fine grained metal materials**
G. Kodzhhaspirov, A. Rudskoy - Peter the Great Saint-Petersburg Polytechnic University, St.Petersburg, Russia

15.40 Coffee break

**MICROSTRUCTURE CONTROL II**

**Room MAGGIORE**

Chairperson: Carl Slater

16.10 **Softening kinetics of plain carbon steels containing dilute Nb additions**
B. Rakshe, E.J. Palmiere - The University of Sheffield, United Kingdom
J. Patel - CBMM Technology Suisse S.A., Geneva, Switzerland

16.30 **Investigation the effects of thermo-mechanical simulations on microstructures and hardness values for VN micro alloyed steels**
A. Ekrem, C. Dilara - Erdemir, Zonguldak, Turkey

16.50 **Effect of strain rate and temperature on adiabatic heating through FEM simulation and experimental analysis during uniaxial compression test of Ti-6Al-4V alloy**
A. J. Dawari, RKP Singh - Bharat Forge Ltd, Pune, India
B.P. Kashyap - IIT Bombay, India

17.10 End of the second day
14.00 Validation of current recrystallization models for high Nb microalloyed steels
L. Garcia-Sesma, B. Pereda, B. Lopez, J.M. Rodriguez-Ibabe - Ceit and Tecnun, University of Navarra, Donostia-San Sebastian, Spain
M. Rebellato - RMS-Rolling Mill Solutions, Sao Paulo, Brasil

14.20 Effect of Nb on recrystallisation rate of a model alloy
M. Ji, M. Strangwood - University of Warwick, Coventry, UK
C. Davis - University of Birmingham, UK

14.40 Intermediate forced cooling during a hold period for steel plate production: the effect on productivity, austenite grain growth and phase transformation
J. Hinton - Primetals Technologies Ltd., Sheffield, UK

15.00 Influence of chemistry and processing parameters on Yield Ratio of linepipe steel grade pipes
M. Patil, Y. AlGhadeer, S. Nisthar, A. Sarna, O. AlMalki - Saudi Basic Industries Corporation, Jubail, Saudi Arabia

15.20 Effect of finish rolling temperature (FRT) on microstructure and mechanical properties for pipeline X70 steel
A. Al-Shahrani, O. Al-Malki, A. Hakami - Sabic, Aljubail, Saudi Arabia

15.40 Coffee break

17.10 End of the second day

19.30 Conference dinner at Prime’ Restaurant
Viale Francesco Crispi 2 - Milano
09.00 Registration

**MODELLING I**

**Room MAGGIORE**

Chairperson: Eric Palmiere

09.20 Modelling of microstructure evolution and rolling force during multi-pass hot rolling of steels

09.40 Modelling of precipitation strengthening in Nb/Mo low carbon steels during coiling
J-Y. Maetz, M. Militzer - The University of British Columbia, Vancouver, Canada
N.H. Goo - Hyundai Steel Co., Chungnam, Korea
J. Bian - Niobium Tech Asia, Singapore
H. Mohrbacher - NiobelCon bvba, Belgium

10.00 Mathematical modelling and load prediction of hot strip mill using plane strain testing
A. Hakami, A. Shahrani - SABIC, Jubail, Saudi Arabia

10.20 Internal variable model describing high temperature plastic behaviour of metallic materials in a wide range of strain rates
G. Angella, R. Donnini - Institute ICMATE, National Research Council, Milan, Italy
D. Ruan - Swinburne University of Technology, Hawthorn, Australia
M.K. Kariem - Bandung Institute of Technology, Bandung, Indonesia
D. Porter, J. Uusitalo - University of Oulu, Finland

10.40 Development and implementation of a fully integrated system for the real-time prediction of material properties during thermomechanical processing of hotrolled steel bars

11.00 Coffee break
COOLING EFFECTS
Room MAGGIORE
Chairperson: Irene Calliari

11.30 The effect of surface roughness on accelerated cooling
V. Prodanovic, M. Militzer - The University of British Columbia, Vancouver, Canada
H-J. Kirsch, R. Schorr, V. Schwinn - AG der Dillinger Hüttenwerke, Dillingen/Saar, Germany

11.50 Boiling heat transfer characteristics in water spray cooling on hot steel plate
J. Lee, S.G. Lee, S.H. Lee, C.K. Choi - Korea Institute of Machinery & Materials, Daejeon, South Korea

MODELING II
Room MAGGIORE
Chairperson: Irene Calliari

12.10 Modelling of microstructure changes of medium carbon steel wire while varying combined deformation parameters
I. Calliari, K. Brunelli - University of Padova, Italy
M. Polyakova, A. Gulin, E. Golubchik - Nosov Magnitogorsk State Technical University, Russia

12.30 Mathematical model of microstructural evolution and alloy design for Nb microalloyed steels
M. Tassia R. - CBMM, Araxá, Brasil
L. Roney - ArcelorMittal Monlevade, João Monlevade, Brasil
R. Barbosa - UFMG, Belo Horizonte, Brasil

12.50 Research on the optimization mechanism of loading path for hydroforming process
Y-y. Feng, Z-a. Luo, G-m. Xie, N-m. Hui - Northeastern University, Shenyang, Liaoning, China

13.10 End of the Conference
Phase transformation, control and precipitation engineering I
Room MORANDI
Chairperson: Silvia Barella

9.20 Identifying and quantifying microstructures in low-alloyed steels
a correlative approach
D. Britz, J. Webel, F. Mücklich - Saarland University, Saarbrücken, Germany
A.S. Schneider - AG der Dillinger Hüttenwerke, Germany

9.40 An empirical relationship between as-cast grain size and composition in
low density steels
C. Slater, S. Sridhar, C. Davis - University of Warwick, United Kingdom

10.00 Effect of molybdenum and niobium on the microstructures and
mechanical properties of direct-quenched high strength steel
J. Hannula, D. Porter - University of Oulu, Finland
S. Mehtonen - SSAB, Raahe, Finland

10.20 Evolution of transformation plasticity for Bainitic forging steels
G. Eggbauer, B. Buchmayr - Montanuniversitaet Leoben, Leoben, Austria

10.40 Effect of titanium and nitrogen content on microstructure, ardenability
and mechanical properties of direct-quenched and tempered ultra-high
strength structural steel
A. Saastamoinen, D. Porter - University of Oulu, Finland
S. Mehtonen, P. Suikkanen - SSAB Europe Oy, Raahe, Finland

11.00 Coffee break

Phase transformation, control and precipitation engineering II
Room MORANDI
Chairperson: Carlo Mapelli

11.30 Comparative study of heat-treatment and cold rolling of an AISI316Ti
austenitic steel and effect on electrochemical and mechanical properties
F. Hellal, H. Kaddour, S. Tagzia, I.-E. Benrabah - Ecole Nationale
Polytechnique, Alger, Algérie

11.50 Development of steel plate for large heat input welding
Laboratories, Korea

12.10 Effect of cooling rate on quenched & tempered rebar steel properties
M. Heidari, B. Torkjazi - Islamic Azad University, Behshahr, Iran

13.10 End of the Conference
The effect of nickel, manganese and tempering temperature on austenite reversion in low-carbon martensitic stainless steel
I. Miettunen, S. Anttila, T. Kaupinmaki, D. A. Porter - University of Oulu, Finland

Effect of the B2-structured TiFe intermetallic compound on the tensile behavior of the Ti-4Al-4Fe-0.25Si alloy
S. Lee, K. Kim, C. Park, J. Hong, J-T. Yeom - KIMS, Changwon, South Korea
## Wednesday 26 October 2016

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<th>Time</th>
<th>Event</th>
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<td>10.00</td>
<td>Registration</td>
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<td>11.15</td>
<td>Opening Session</td>
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<td>12.30</td>
<td>Lunch</td>
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<td>14.00</td>
<td>Complex microstructures</td>
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<td>16.00</td>
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## Thursday 27 October 2016

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<td>Process control</td>
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<td>10.20</td>
<td>Coffee break</td>
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<td>10.50</td>
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<td>Mechanical properties</td>
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<td>19.30</td>
<td>Social event</td>
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## Friday 28 October 2016

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<td>11.00</td>
<td>Coffee break</td>
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<tr>
<td>11.30</td>
<td>Cooling effects</td>
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<td>12.10</td>
<td>Modeling II</td>
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<td>13.10</td>
<td>End of the Conference</td>
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Conference Venue
The Conference will be held in Milan, at the FAST Congress Centre in Piazzale R. Morandi, 2 (http://www.fast.mi.it/).

The FAST Congress centre is set in the hearth of Milan, very near to its Cathedral, known as Duomo and to the best hotels of the city. It can be easily reached from the Central railway station and it’s well served by the public transportation (Underground: line 3 yellow – TURATI station).

Conference Secretariat
ASSOCIAZIONE ITALIANA DI METALLURGIA
TMP 2016 Organizing Secretariat
Via F. Turati, 8 - 20121 Milan, Italy
Tel.: +39 02.7602.1132 or +39 02.7639.7770
E-mail: info@aimnet.it
Conference website: www.aimnet.it/tmp2016.htm

Accommodation
The Conference venue can rely on a great variety of accommodations situated in the surroundings. A list of recommended hotels is available at: http://www.fast.mi.it/7congressi.htm

Language
The official language of the Conference will be English.

Proceedings
The full text of the accepted papers will be published in the form of electronic proceedings and issued to attendees on arrival at the Conference.

A selection of the best papers will also be published on “La Metallurgia Italiana - International Journal of the Italian Association for Metallurgy”, the scientific journal of Associazione Italiana di Metallurgia which is covered in the Science Citation Index Expanded by Thomson Reuters and in Scopus by Elsevier B.V.

Conference Schedule
October 26, 2016: Opening session and technical sessions
October 27, 2016: Technical sessions and social event
October 28, 2016: Technical sessions and closure of the Conference
Registration Fees

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<td><strong>AIM MEMBER</strong></td>
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<tr>
<td>Speaker/ Session Chair/ Committee Member € 550</td>
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<tr>
<td>Delegate</td>
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<td>Student*</td>
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N.B. Speakers registration deadline: July 1, 2016

Additional ticket for Social Event € 122 (VAT included)

Registration fees include admittance to technical sessions, Conference bag with electronic format proceedings, coffee breaks, lunches and the Conference dinner on October 27. For non-members the fee includes AIM Membership for the last quarter of 2016 and for the year 2017.

* Students will have to provide valid proof of student status. The Conference dinner on October 27 is not included in the student registration fee.

Payment and Remittance

• by bank transfer, to the order of Associazione Italiana di Metallurgia - AIM at “Banca Popolare Commercio e Industria (UBI Banca)”, Branch no. 2 - Via Borgogna, 2/4 - 20122 Milano - Italy, account no. 000000022325 - cod. ABI 05048 - CAB 01602 - cin L, IBAN: IT92L050480160200000022325, swift code BLOPIT22. The transfer order must specify the name of the delegate and the reference “TMP 2016”. A copy of the transfer order must be sent to AIM, together with the Registration Form.

• by credit card online (www.aimnet.it/tmp2016.htm).

Speakers Registration

Please be aware that only papers submitted on time and with presenting author regularly registered (registration fee paid) **by July 1, 2016** will be included in the final programme and published in the Conference 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 July 1, 2016. For speakers who notify their cancellation after July 1, 2016 or will not attend the Conference, 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 Conference website: www.aimnet.it/tmp2016.htm or fill in the enclosed Registration Form and send it to the Organising Secretariat best before September 5, 2016 (early-bird registrations deadline).

Please use a separate form for each participant.

Please contact the Organising Secretariat by e-mail, if possible.

**CANCELLATION AND REFUND POLICY**

A refund, less 20% deduction for administrative costs, will be issued for written cancellations received by September 26, 2016. For attendees who notify their cancellation after September 26, 2016 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 Conference. Participants should therefore take whatever steps they consider necessary as regards insurance.

**VISA APPLICATION FORM**

If you need an official invitation please send your request to the Organising Secretariat best before September 16, 2016 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.
EXHIBITION & SPONSORSHIP OPPORTUNITIES

As an integral element of the event, the Conference will feature an exhibition, consisting of Table Top units that will enable excellent exposure for products, technologies, innovative solutions or services. At this opportunity, the Organizers will set an area strategically located as regards the main Conference rooms. 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 TMP 2016 Organising Committee has prepared a selection of sponsorship opportunities designed to increase the visibility and to optimize the return of investment for sponsors participating in the TMP 2016 Conference. Different categories of sponsorship based on different levels of visibility will be available for TMP 2016 sponsors. For more information on exhibiting and sponsorship opportunities, please visit the Conference website: www.aimnet.it/tmp2016.htm or contact TMP 2016 Organising Secretariat (info@aimnet.it / tel. +39 02 76021132)

MOBILE/CELL PHONE

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

MILAN

Milan is the powerhouse of Italy: it produces 10% of the country’s GNP; 25% of domestic research, it is home to 10 universities and every year it attracts over 4 million tourists. The Romans called it “Mediolanum” due to its position at the centre of the main communication routes of the time. Today, it is still one of Europe’s most accessible and welcoming cities: 200 destinations linked by 364,000 flights a year, 380 hotels with over 21,000 guest rooms. An immense system that comprises not only manufacturing, but also services, culture, entertainment, art, cinema, television, NGOs, fashion, sport and research. Milan has ancient origins; it was the capital of the Western Roman Empire and boasts a unique, worldfamous artistic heritage, of which the best known is Leonardo da Vinci’s Last Supper. Today the international centre of fashion and design, and a shopper’s paradise, Milan is a vibrant, trendy city, brimming with things to do and with a constantly changing scenario of clubs, bars and restaurants. All this against a truly enviable backdrop, Lombardy: dotted with charming cities of art, it is the region with the greatest expanse of natural parks and magnificent lakes - such as Lake Como - surrounded by mountains that attract numerous hikers and skiers. Without forgetting the rich flavours of Lombardy’s internationally renowned foods and wines. All this just over two hours from Venice, Florence and Genoa.
TRAVEL INFORMATION

by PLANE

Milano has two main international airports: Linate airport and Malpensa airport and an additional one, Orio al Serio, mainly popular for low cost airlines. For information about Malpensa, Linate and Orio shuttles: www.malpensashuttle.it From Linate Airport (7 km): take n. X 73 bus till San Babila terminal; From Malpensa Airport (50 km): take the Malpensa Express train to Cadorna F.N station or the shuttle bus to the Stazione Centrale; From Orio al Serio Airport (50 km): take the bus to the Stazione Centrale.

by TRAIN

From the Milano Central Train Station (1.5 km), metro, yellow line, towards San Donato to the Turati stop

By CAR

From the A1 Milano/Roma highway and the A4 Milano/Venezia highway (10 km): take the Tangenziale Est (East bypass road) to the Viale Forlanini exit, go towards the centro (city center) From the A8 Milano Laghi highway (10 km: exit Milano, go towards the centro (city center)

From the A7 Milano/Genova highway (10 km): exit Milano, go towards the centro (city center).

SOCIAL PROGRAMME

On the evening of 27 October 2016, at 19.30 a Conference dinner will be served at the restaurant Primè, Viale F. Crispi, 2, Milano.