

# TMP 2016



## 5<sup>TH</sup> 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

1<sup>st</sup> TMP 2000: London (United Kingdom)

2<sup>nd</sup> TMP 2004: Liege (Belgium)

3<sup>rd</sup> TMP 2008: Padua (Italy)

4<sup>th</sup> 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



# PROGRAMME

Possible changes to the programme  
will be communicated  
during the Conference



WEDNESDAY  
26 OCTOBER 2016

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, Futtsu, 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, Raahе, Finland  
J. Mourujärvi, A. Kajjalainen - University of Oulu, Faculty of Technology, Finland

14.40 **Colloidal analysis of particles extracted from microalloyed steel**

A. Hegetschweiler, T. Kraus - INM - Leibniz Institute for New Materials, 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

WEDNESDAY  
26 OCTOBER 2016

## 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

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THURSDAY  
27 OCTOBER 2016

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. Bertolotti - A.t.i.e. Uno Informatica, Italy

11.10 **Control of segregation in high carbon bloom casting with new 320<sup>2</sup> 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-Shammari, 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



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THURSDAY  
27 OCTOBER 2016

## 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. Zabarjadi Sar, S. Barella, A. Gruttadauria, 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**





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## 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. Kodzhaspirov, 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. Rakshie, 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

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## RECRYSTALLIZATION

Room MORANDI

Chairperson: Carl Slater

### 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

## PIPELINE STEELS

Room MORANDI

Chairperson: Anthony J. DeArdo

### 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

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FRIDAY  
28 OCTOBER 2016

09.00 Registration

## MODELING I

Room **MAGGIORE**

Chairperson: Eric Palmiere

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

Z. Guo, A.P. Miodownik, N. Saunders, J.-Ph.Schillé - Sente Software Ltd., Guildford, U.K.

**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**

Z. Cancarevic, M. Budak, D. Meyer, M. Schmidt, K. Spinneker, S. Telsemeyer, H. Schliephake - Georgsmarienhütte GmbH, Georgsmarienhütte, Germany

11.00 Coffee break

FRIDAY  
28 OCTOBER 2016

## COOLING EFFECTS

Room **MAGGIORE**

Chairperson: Irene Calliari

- 11.30 The effect of surface roughness on accelerated cooling**  
V. Prodanovic, M. Miltizer - 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





FRIDAY  
28 OCTOBER 2016

## 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, Raabe, 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, Raabe, 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. Taguia, I.-E. Benrabah - Ecole Nationale Polytechnique, Alger, Algérie
- 11.50 Development of steel plate for large heat input welding**  
J. Yong Chae, J. Young Cho, I.C. Yi, T.I. So, I.S. Suh - POSCO Technical Research 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



POSTER  
SESSION

**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

POSTERS WILL BE DISPLAYED  
FOR THE ENTIRE PERIOD  
OF THE CONFERENCE



# TIME TABLE

## WEDNESDAY 26 OCTOBER 2016

10.00	Registration
	<b>Room MAGGIORE</b>
11.15	<b>Opening Session</b>
12.30	Lunch
14.00	<b>Complex microstructures</b>
15.40	Coffee break
16.00	<b>Microstructure control I</b>

## THURSDAY 27 OCTOBER 2016

	<b>Room MAGGIORE</b>	<b>Room MORANDI</b>
9.20	<b>Process control</b>	
10.20	Coffee break	
10.50	<b>Product and processes I</b>	<b>Mechanical properties</b>
12.30	Lunch	
14.00	<b>Product and processes II</b>	<b>Recrystallization</b>
14.40		<b>Pipeline steels</b>
15.40	Coffee break	
16.10	<b>Microstructure control II</b>	
19.30	Social event	

## FRIDAY 28 OCTOBER 2016

	<b>Room MAGGIORE</b>	<b>Room MORANDI</b>
9.20	<b>Modeling I</b>	<b>Phase transformation, control and precipitation engineering I</b>
11.00	Coffee break	
11.30	<b>Cooling effects</b>	<b>Phase transformation, control and precipitation engineering II</b>
12.10	<b>Modeling II</b>	
13.10	End of the Conference	



# GENERAL INFORMATION

## 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 heart 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](mailto:info@aimnet.it)

Conference website: [www.aimnet.it/tmp2016.htm](http://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 Italiana 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





# TMP 2016



## GENERAL INFORMATION

### REGISTRATION FEES

	AIM MEMBER	STANDARD RATES
Speaker/ Session Chair/Committee Member	€ 550	€ 650
Delegate	€ 690	€ 790
Student*	Free	€ 390

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: IT92L0504801602000000022325, 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](http://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.



# GENERAL INFORMATION

## 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](http://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.



# TMP 2016



## GENERAL INFORMATION

### 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](http://www.aimnet.it/tmp2016.htm) or contact TMP 2016 Organising Secretariat ([info@aimnet.it](mailto: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, world famous 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.



# GENERAL INFORMATION

## 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](http://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.



## SPONSORED BY



## CONFERENCE ORGANISERS



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