European Conference on Heat Treatment 2008

Innovation in Heat Treatment for Industrial Competitiveness

7-9 May 2008
Verona, Italy

Organised by:
Heat Treatment and Metallography Study Group of
ASSOCIAZIONE ITALIANA DI METALLURGIA
ORGANISING COMMITTEE

Paolo Antona - Università di Ferrara
Federica Bassani - Associazione Italiana di Metallurgia
Antonio Bavaro - Laboratorio Prove Bavaro
Enrico Costa - Cermet
Mario Cusolito - Rodacciai
Elio Gianotti - Ferioli & Gianotti
Danilo Petta - Houghton Italia
Emilio Ramous - Università di Padova

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Hans-Werner Zoch (IWT, Germany)

COOPERATING ORGANIZATIONS

A3TS France
ASMET Austria
ASTT-SVV Switzerland
AWT Germany
VWT Benelux
The Conference aims at driving the attention of operators to the possible ways to increase competitiveness, through an analysis of all the innovations, either recently introduced or currently at study in the different operating stages of heat treatment (plant engineering, organisation of cycles, atmospheres and quenching means, complementary operations, control and modelling systems, ...) to benefit the practice of heat treatment.

Without any limitation in terms of technology and type of application, the Conference will foster the congregation of all players in the field of heat treatment, with the awareness that technology transfer is the key factor for the possible success of any modern industrial system.

In fact, all productive systems today need to modify their organisational, productive and technological scheme in order to keep up with the continuous changes in the markets.

The globalisation of the supply chain called in the first place for the use of technological knowledge in order to reduce manufacturing costs. However, the practice of heat treatment remained substantially on the outskirts of this process: heat treatments had to undergo a cost reduction, often without questioning whether it would be opportune to revise choices in terms of cycles and technologies that were in use.

When new independent producers from emerging countries characterised by low wage costs entered the supply chain scenario, it was clear that it was necessary to apply new strategies that would focus on innovation in order to find competitiveness on new fronts and in particular pursuing the enhancement of performance and environment sustainability.

Innovation and progress are in fact a determinant factor for success, in this process.

We are looking forward to welcoming you in Italy!
OPENING CEREMONY

9.20 Welcome addresses by
Walter Nicodemi - AIM President
Stefan Hock - AWT President
Mario Cusolito - AIM Heat Treatment & Metallography Study Group President

9.50 A leap into the beginning of the Metal Age: recrystallization and carburizing
W. Nicodemi, S. Barella, C. Mapelli - Politecnico di Milano, Italy

10.20 New developments in gaseous ferritic nitrocarburising by using hydrocarbon gases
B. Edenhofer, D. Joritz, W. Lerche - Ipsen International GmbH, Kleve, Germany

10.50 coffee break

Opening of the exhibition

SESSION: QUALITY & HEAT TREATMENTS I
Chairman: M. Cusolito

11.20 Know-how and technical experience: necessary conditions to derive benefit from technology innovation and improvement in heat treatment
G. Pasello - Pasello Trattamenti Termici, Calderara, Italy
V. Francia - P.W.F. Technics, Bologna, Italy
E. Costa, E. Ferri, M. Torri - Cermet-ISML, Cadriano, Italy

Quality assurance in heat treatment - AWT - research committee 25
V. Ermert, D. Klein, R. Kohlmann, R. Mahlig, B. Rentrop - Bremen Institute for Production and Logistics GmbH, Germany

The increasing use of radio frequency transmission in furnace temperature measurement
R. Hornblow, D. Plester - Datapaq Limited, Cambridge, United Kingdom

Directions to improve structural, mechanical and technological properties for 1.25Cr - 0.5Mo steel
M. Petre, M. Brailoiu - ICEM-SA, Bucuresti, Romania

12.40 Welcome cocktail offered by
SESSION: QUALITY & HEAT TREATMENTS II
Chairmen: W. Schützenhöfer

14.00 Surface modification with thermal shock induced by high energy pulsed plasma beams generated with Z-Pinch discharges

Influence of heat treatment on the microstructure and toughness of Böhler M333 ISOPLAST steel
J. Perko, C. Redl - Böhler Edelstahl GmbH & Co KG, Kapfenberg, Austria
H. Leitner - Montanuniversität Leoben, Austria

Effect of hardening conditions on the mechanical properties of high speed steels
R.A. Mesquita, C.S. Gonçalves, C.A. Barbosa - Villares Metals S.A., Brazil

Simulation of heat treatment of parts made from hardenable steel. A roadmap to get good results
H. Porzner - ESI Group, München, Germany

15.40 coffee break

SESSION: QUALITY & HEAT TREATMENTS III
Chairmen: M. Boniardi, R. Schneider

16.00 Microstructural characterization using differential scanning calorimetry of a steel used in the crusher industry
K. Brunelli, M. Dabalà - Università di Padova, Italy
C. Maranzana - Far Spa, Udine, Italy
P. Bassani - CNR-IONC, Lecco, Italy
N. Lecis - Politecnico di Milano, Italy

An investigation of secondary carbides precipitation in low silicon AISI H11 hot-work tool steels during tempering
S. Mauries, D. Delagnes, P. Lamesle, M-H. Mathon, E. Kozeschnik - A3TS, France

Effect of the heat treatment on the mechanical properties of a precipitation hardening steel for large plastic moulds
D. Firrao, P. Matteis, G.M.M. Mortarino, P. Russo Spena - Politecnico di Torino, Italy
M.G. Ienco, G. Pellati, M.R. Pinasco - Università di Genova, Italy
R. Gerosa, G. Silva - Politecnico di Milano, Italy
E. Tata, R. Montanari - Università Tor Vergata, Roma, Italy

A study on the performance characteristics according to coolant management system in a diesel engine
K-w. Choi, K-h. Lee, Y-J. Kim - Hanyang University, Korea
**SESSION:** AI ALLOYS & POWDER METALLURGY  
Chairman: E. Costa

**9.00 Heat treatment of prestrained Al-Mn alloys**  
M. Cieslar, J. Vesely, M. Hajek - Charles University in Prague, Czech Republic  
A. Kubosova, M. Slamova - VUK Panenske Brezany, Odolena Voda, Czech Republic

**Effect of Mn and Si content on the recrystallization response of annealed Al-Mn-Si alloys**  
M. Slamova, A. Kubosova - VUK Panenske Brezany, Odolena Voda, Czech Republic  
J. Vesely, M. Hajek, M. Cieslar - Charles University in Prague, Czech Republic

**New electron beam liquid-phase surface technologies for components made from aluminium materials**  
A. Buchwalder, R. Zenker - IWT, TU BAF, Freiberg, Germany

**The effect of two step heat treatment on metallurgical behaviour of AA7075 alloy**  
M. Esmaealian - Islamica Azad University, Saveh, Iran  
A.R. Modaresi - Islamic Azad University, South Tehran, Iran

**Mathematical modeling of heat treating powder metallurgy steel components**  
V.S. Warke, M.M. Makhlouf - Worcester Polytechnic Institute, USA

**10.40 coffee break**

**SESSION:** QUENCHING & CONTROL OF DISTORTION I  
Chairman: D. Petta

**11.10 Three-dimensional transformation curves: a new conceptual tool for metallurgical simulations**  
F. Miani, P. Patrizi - Università di Udine, Italy  
M. Vidoni - Danieli Automation, Buttrio, Italy

**Gas flow control in batch mode high pressure gas quenching**  
U. Fritsching, R. Schmidt - IWT, Bremen, Germany

**A new hardening heat treatment for modified SAE 52100 bearing steel**  
K-H. Kim, D-L. Lee - Posco, Pohang, South Korea

**Distortion engineering. A systematic strategy to control dimensional changes**  
H-W. Zoch, T. Luebben - Foundation Institute of Materials Science, Bremen, Germany

**Heat transfer on workpieces by quenching in fluid jet fields**  
S. Schuettenberg, F. Krause, M. Hunkel, H.-W. Zoch, U. Fritsching - Foundation Institute for Materials Science IWT, Bremen, Germany

**12.50 Lunch**
**SESSION: QUENCHING & CONTROL OF DISTORTION II**  
Chairmen: E. Ramous, H.-W. Zoch

14.00 **High pressure gas quenching using the “Step and stop quenching process” for improvement of part quality, cost and mechanical properties**  
A. Goldsteinas - ECM, Grenoble, France

A coupled experimental and numerical methodology to optimize phase transformations during oil-quenching of low-alloy Ni-Cr-Mo steels with minimal experimental efforts  
P. Matteis, G. Maizza, D. Firrao - Politecnico di Torino, Italy

Influence of the cooling rate during quenching on the toughness at typical working temperatures of die casting dies  
H. Jesperson - Uddeholm Tooling AB, Sweden

How heat treatment can give better properties to electroless nickel-boron coatings  
V. Vitry, F. Delaunois, C. Dumortier - Polytechnique de Mons, Belgium

Improvement of mechanical properties of ASSAB 705M steel by modified heat treatment  
S.M. Safi - Zürich, Switzerland  
M.K. Besharati Givi - Tehran University, Iran

15.40 coffee break

**SESSION: CARBURIZING & NITRIDING I**  
Chairman: P.L. Antona

16.00 **Case hardening of stainless steel: background, process, application**  
H. Berns - Ruhr Universität Bochum, Germany

Hyper baric carburising process  
E. Gianotti - Trattamenti Termici Ferioli & Gianotti, Rivoli, Italy

On the influence of rolling textures on nitriding behaviour of C40 steel  
I. Calliari, I. Rampin, E. Ramous - Università di Padova, Italy  
E. Gianotti - Ferioli & Gianotti, Rivoli, Italy

Structural, chemical and tribological characterization of expanded austenite developed on AISI316LSS through glow discharge nitriding and cementation processes  

Low pressure carburizing of aerospace stainless steels  
M. Chiarappa, D. Scerna, S. Sinibaldi - Umbra Cuscinetti, Foligno, Italy  
M. Paini - CIMA, Villanova di Castenaso, Italy
SESSION: CARBURIZING & NITRIDING II
Chairman: E. Gianotti

9.00 Influences on the nature of case hardened surfaces
B. Clausen, F. Hoffmann, H.-W. Zoch - Stiftung Institut fuer Werkstofftechnik, Bremen, Germany

New case hardening steels for innovation, quality and saving
C. Montero, Z. Idoyaga, J. Albarran - Sidenor I+D, Basauri, Spain

Development of post-oxidation treatments to improve wear and corrosion resistance
G. Poli, P. Veronesi, R. Giovanardi, R. Sola - Università di Modena e Reggio Emilia, Italy
A. Zanotti, S. Masimi - Proterm, Calderara di Reno, Italy

The effect of cold treatments on the lubricated wear of case hardened components
P.F. Stratton - Linde Gas, Huddersfield, United Kingdom

Process for the controlled oxidation of a strip before continuous galvanizing
U. Trojsi - Rapisardi Intellectual Property, Milano, Italy

10.40 coffee break

SESSION: FURNACES & PLANTS I
Chairman: M. Mangiavacca

11.10 Advanced heat treatment plants with reduced energy consumption
H. Altena, P. Schobesberger - Aichelin Ges.m.b.H, Mödling, Austria
E. Carutti - Ing.C.A. Carutti, Milano, Italy

CFD modelling of acetylene pyrolysis and surface reactions for low pressure carburizing of steel
D. Buchholz, R.U. Khan, S. Bajohr, F. Graf, R. Reimert - Engler-Bunte-Institut Universität Karlsruhe, Germany

Modern thermal electron beam processes. Research results and industrial application
R. Zenker - IWT TU BAF, Freiberg, Germany

Job safety in quenching plants by oil filtration
C. Piana, E. Piana - Karberg & Hennemann, Modena, Italy

12.50 Lunch
SESSION: FURNACES & PLANTS II
Chairman: E. Carutti

14.00  A new approach for a more exact simulation of LP-carburizing carbon profiles
M. Steinbacher, B. Clausen, F. Hoffmann, P. Mayr, H-W. Zoch - IWT, Bremen, Germany

Dry compressing vacuum pumps for head treatment
K. Buhlmann - Oerlikon Leybold Vacuum GmbH, Köln, Germany

Bainite sensor. A new tool for process and quality control of the bainite transformation
H. Klümper-Westkamp, J. Vetterlein, H.-W. Zoch - IWT, Bremen, Germany
W. Reimche - IW, Hannover, Germany

Analysis of transient heat conduction by boundary elements method
M. Perelmuter - RAS, Moscow, Russia

New possibilities of case hardening in multipurpose vacuum furnaces and multichamber installations
P. Kula, B. Januszewicz, D. Siniarski - Technical University of Lodz, Poland

15.40  End of Conference

THE COFFEE BREAKS ARE OFFERED BY Ipsen
ORGANIZING SECRETARIAT

**AIM - Associazione Italiana di Metallurgia**
Piazzale Rodolfo Morandi 2,
I - 20121 Milano, Italy
Phone:+39 02.7602.1132 or +39 02.7639.7770
Fax +39 02.7602.0551 - e-mail: aim@aimnet.it
Conference website: www.aimnet.it/echt2008.htm

CONFERENCE VENUE

The European Conference on Heat Treatment 2008 will be held at the Hotel San Marco in Verona, Via Longhena, 42 - 37138 Verona (VR), Italy
Phone: +39 045 569011 · Fax: +39 045 572299
e-mail sanmarco@sanmarco.vr.it · website: www.sanmarco.vr.it

LANGUAGE

The official language of the conference will be English. A simultaneous translation service (English-Italian and Italian-English) will be provided.

EXHIBITION

As an integral element of the event to be held between May 7th and May 9th, the European Conference Innovation in Heat Treatment for Industrial Competitiveness will feature an Exhibition, consisting of approx 15 Table Top units and 3 B2B Suites.

PROCEEDINGS

The full text of the accepted papers will be published in the Cd-Rom proceedings and issued to delegates on arrival at the Conference.

SOCIAL PROGRAMME

A social programme has been designed to give delegates the opportunity to meet informally and enjoy Verona’s atmosphere.

WELCOME COCKTAIL

A Welcome cocktail will be offered on 7 May 2008, at 12.40 by This occasion will allow delegates to meet friends and fellow professionals from around the world.

CONFERENCE DINNER

On the evening of 8 May 2008, at 20.00 a Conference dinner will be served at Hotel San Marco.
ADVANCED REGISTRATION FEES (BEFORE APRIL 4, 2008)

STANDARD RATES

Delegates (non speakers) EUR 620 (Revenue Stamp included)
Chairmen, Speakers*, Academics EUR 550 (Revenue Stamp included)
Students** EUR 280 (Revenue Stamp included)

AIM MEMBERS RATES

Delegates (non speakers) EUR 540 (Revenue Stamp included)
Chairmen, Speakers*, Academics EUR 470 (Revenue Stamp included)
Students (AIM Junior Members) FREE

Accompanying persons EUR 84 (VAT included)
(includes Conference Dinner, Welcome Cocktail)

After April 4, 2008 the above rates will be subject to an extra charge of eur 100.

Registration fees include access to technical sessions and exhibition, conference bag with CD-Rom proceedings, welcome cocktail, conference dinner, coffee breaks and lunches. For non-members the fee includes AIM Membership valid until December 31, 2008.

* Speakers are required to register and pay the conference fee not later than 29 February 2008. Otherwise their paper will be removed from the Proceedings.

** Students will have to provide valid proof of student status. Standard Student rate includes access to technical sessions and exhibition, conference bag with CD-Rom proceedings, welcome cocktail, coffee breaks, lunches and AIM Junior Membership valid until December 31, 2008. It does not include conference dinner.

Cumulative registrations for over 3 delegates from the same company will entitle to a discount of 15% of the total amount.

PAYMENT AND REMITTANCE

- by non-transferable bank draft or cheque, negotiable in Italy, to the order of Associazione Italiana di Metallurgia - AIM
- by bank transfer, to the order of Associazione Italiana di Metallurgia - AIM at “Banca Popolare Commercio e Industria”, Branch no. 2 - Milano, account no. 000000022325 - cod. ABI 05048 - CAB 01602 - cin L, IBAN: IT92L050480160 2000000022325, swift code POCIITM1002. The transfer order must specify the name of the delegate and the reference “ECHT 08”.

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

- by credit card Visa, American Express, Diners cards, Carta Si, and cash at the registration desk in Verona only for non-speaker delegates.
**SPEAKERS REGISTRATION**

Please be aware that only papers submitted on time and with presenting author regularly registered before 29 February, 2008 will be 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 on time.

**ADVANCED REGISTRATION**

If you plan to attend, please download the Registration Form on the conference website www.aimnet.it/echt2008.htm or fill in the enclosed Registration Form and send it to the Organising Secretariat at your earliest convenience, but **not later than 4 April 2008**. Please use a separate form for each attendee. Photocopies can be used. Please contact the Organising Secretariat by fax or e-mail, if possible.

**ON-SITE REGISTRATION**

All attendees must be registered at the registration desk, located in the foyer of Hotel San Marco in Verona, Via Longhena, 42 - 37138 Verona (VR), Italy. Attendees will be able to register on Tuesday 6 May 2008 from 15.00 to 18.00. Registration will continue the following days at the on-site registration desk.

**CANCELLATION AND REFUND POLICY**

A refund, less **20%** deduction for administrative costs, will be issued for written cancellations received by **11 April 2008**. For attendees who notify their cancellation after **11 April 2008** 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 Conference organiser cannot assume any responsibility for personal accident, loss or damage to the private property of attendees 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 **before 11 April, 2008** complete with family and first name, passport number, nationality and fax number of the Italian Embassy in your Country.

**TRAVEL AND ACCOMMODATION**

**Verona** · The city of Romeo and Juliet was recently awarded the status of a “World Heritage Site”. For the past two thousand years and more, the city walls enclose a unique and breathtaking range of art-works and monuments. Verona is a work of art in itself: a fascinating cross-roads of historical periods and cultures (both classical and Germanic), a blend of both Nordic and Mediterranean influences. A walk through its narrow streets allows you to get in touch with its varied and fascinating past: traces of its splendid Roman origins, its prevailing medieval structure dating back to the time of knights and castles, its magnificent Renaissance palaces as well as the impressive fortifications which protect it. Verona is also close to Garda lake, Padua and Venice, that are possible locations for unforgettable visits. A choice of historic and artistic guided tours of Verona’s, Padua’s and Venice’s major landmarks, as well of their surroundings will be available.
HOW TO REACH VERONA

by AIRPLANE
Catullo airport of Verona/Villafranca (12 km away) - Website: http://www.aeroportoverona.it
D’Annunzio airport of Brescia/Montichiari (52 Km away) - Website: http://www.aeroportobrescia.it/

Shuttle service to airports
Catullo airport is linked to the Porta Nuova railway station (and vice-versa) by a bus shuttle service departing every 20 minutes. Information and ticket office: APT S.p.A. - bus terminal of Verona Porta Nuova - Piazzale XXV Aprile. website: http://www.aptv.it

by TRAIN
Main station Verona Porta Nuova
• Milan-Venice railway line • Bologna-Brennero railway line • Verona-Mantova-Modena railway line
For information on railways telephone 89.20.21 - Website: http://www.trenitalia.com

by CAR
• National Road 11 “Padana Superiore” Milan - (Brescia-Verona-Vicenza-Padova-Mestre) - Venezia • National Road 12 Abetone and Brennero National road - (Bolzano-Trento-Verona-Modena-Lucca-Pisa) • National Road 62 - Cisa Verona - Parma “Transpalesana” • National Road 434 (Legnago - Verona) - Rovigo • A4 Milan-Venice “Serenissima” motorway (exit Verona Sud) • A22 Modena - Brennero (exit Verona nord)

ACCOMMODATION
An allotment of rooms has been reserved for conference attendees at:

HOTEL SAN MARCO • Via Longhena, 42 • 37138 Verona (VR), Italy
Phone: +39 045/569011 • Fax: +39 045 572299
e-mail sanmarco@sanmarco.vr.it • website: www.sanmarco.vr.it

Rates for the conference attendees will be as follows: Rates Bed & Breakfast

<table>
<thead>
<tr>
<th>Room Type</th>
<th>Rate (€)</th>
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<tbody>
<tr>
<td>Single Room Standard</td>
<td>94.00</td>
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<tr>
<td>Single Room Deluxe</td>
<td>114.00</td>
</tr>
<tr>
<td>Double Room Standard</td>
<td>124.00</td>
</tr>
<tr>
<td>Double Room Deluxe</td>
<td>144.00</td>
</tr>
<tr>
<td>Double Room Single Use Standard</td>
<td>109.00</td>
</tr>
<tr>
<td>Double Room Single Use Deluxe</td>
<td>129.00</td>
</tr>
</tbody>
</table>

- Reservation forms sent after 10th April will be considered according to room availability;
- Reservation will not be accepted without the entire payment for the stay;
- In case of cancellation at least 7 days prior to arrival the hotel will refund the entire sum minus the refund’s costs; after 30th April we will keep the entire sum due;
- If no more rooms will be available in Hotel San Marco, hotel rooms will be booked in hotels of the same category (4 stars) at same rates.

In order to book a room, you may complete the hotel reservation form and return it to the hotel by April 10, 2008. In order to confirm your reservation, the payment of the total stay is required in advance, either by bank transfer or by credit card.
- by Bank Transfer to Hotel San Marco, Bank info: BANCA POPOLARE DI VERONA - Agency D - Italy IBAN: IT67R051881170500000039835
- by Credit Card (credit card number is provided to secure and to guarantee the room).

If you wish to reserve accommodation on your own, you may visit the website: http://www.verona.com
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>9.20</td>
<td>Opening Ceremony</td>
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<tr>
<td>10.50</td>
<td>Coffee break</td>
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<tr>
<td>11.20</td>
<td>Opening of the exhibition</td>
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<tr>
<td>12.40</td>
<td>Quality &amp; Heat Treatments I</td>
</tr>
<tr>
<td>14.00</td>
<td>Welcome Cocktail</td>
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<tr>
<td>15.40</td>
<td>Coffee break</td>
</tr>
<tr>
<td>16.00</td>
<td>Quality &amp; Heat Treatments III</td>
</tr>
<tr>
<td>9.00</td>
<td>Al alloys &amp; powder metallurgy</td>
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<tr>
<td>10.40</td>
<td>Coffee break</td>
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<tr>
<td>11.10</td>
<td>Quenching &amp; control of distortion I</td>
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<tr>
<td>12.50</td>
<td>Lunch</td>
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<tr>
<td>14.00</td>
<td>Quenching &amp; control of distortion II</td>
</tr>
<tr>
<td>15.40</td>
<td>Coffee break</td>
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<tr>
<td>16.00</td>
<td>Carburizing &amp; nitriding I</td>
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<tr>
<td>20.00</td>
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<td>15.40</td>
<td>End of Conference</td>
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WEDNESDAY, 7 MAY 2008

THURSDAY, 8 MAY 2008

FRIDAY, 9 MAY 2008
Sponsored by

Our special thanks to:

- DATAPAO
- JMatPro
- INSEIS INSTRUMENTS
- COF
- MICHELIN Heat Treatment Systems
- Ipsen
**Registration Form**

Please complete and return this form by April 4, 2008 to:

**ASSOCIAZIONE ITALIANA DI METALLURGIA - AIM**
Piazzale Rodolfo Morandi 2 - I - 20121 Milano, Italy
Tel. +39 0276021132 / 0276397770 · Fax +39 0276020551 · e-mail: aim@aimnet.it · VAT entry no. 00825780158

**European Conference on Heat Treatment 2008**
**Innovation in Heat Treatment for Industrial Competitiveness**
Verona, Italy · 7-9 May 2008

**Advanced Registration fees (before April 4, 2008)**

<table>
<thead>
<tr>
<th>Category</th>
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<th>Chairmen, Speakers*, Academics</th>
<th>Students**</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Standard Rates</strong></td>
<td>EUR 620 (Revenue Stamp included)</td>
<td>EUR 550 (Revenue Stamp included)</td>
<td>EUR 280 (Revenue Stamp included)</td>
</tr>
<tr>
<td><strong>Aim Members Rates</strong></td>
<td>EUR 540 (Revenue Stamp included)</td>
<td>EUR 470 (Revenue Stamp included)</td>
<td>FREE</td>
</tr>
</tbody>
</table>

Accompanying persons

EUR 84 (VAT included) (includes Conference Dinner, Welcome Cocktail)

After April 4, 2008 the above rates will be subject to an extra charge of eur 100.

Registration fees include access to technical sessions and exhibition, conference bag including CD-Rom proceedings, welcome cocktail, conference dinner, coffee breaks and lunches. For non-members the fee includes AIM Membership valid until December 31, 2008.

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Cumulative registrations for over 3 delegates from the same company will entitle to a discount of 15% of the total amount.

To register please fill in the following registration form in all its parts. (It is also possible to register online)

**PERSONAL AND INVOICING DATA**

<table>
<thead>
<tr>
<th>Field</th>
<th>Details</th>
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<tbody>
<tr>
<td>Family Name</td>
<td></td>
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<tr>
<td>First Name(s)</td>
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<td>(for Italian residents only)</td>
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<td>Order ref. number (if requested on the invoice)</td>
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**I will attend to the Conference as:**

- [ ] AIM-member
- [ ] Non-member

- [ ] Delegate €
- [ ] Speaker paper number ________ €
- [ ] Chairperson of the Session €
- [ ] Academic €
- [ ] Student (proof of student status required) €
- [ ] AIM Junior Member free
- [ ] n. ___ Accompanying persons €

Total amount being paid: €

- [ ] by non-transferable bank draft or cheque, negotiable in Italy, to the order of Associazione Italiana di Metallurgia - AIM
- [ ] by bank transfer, to the order of Associazione Italiana di Metallurgia - AIM at “Banca Popolare Commercio e Industria”, Branch no. 2 - Milano, account no. 000000022325 - cod. ABI 05045 - CIG 01602 – c/c L. IBAN: IT92L0504801602000000022325, swift code POCIITM1002. The transfer order must specify the name of the delegate and the reference “ECHT 2008”. A copy of the transfer order must be sent to AIM, together with this Registration Form.
- [ ] by credit card Visa, American Express, Diners cards, Carta Sì, and cash at the registration desk in Verona (only for non-speaker delegates)

We inform you that data collected will be treated following the normal institutional activity of AIM. In accordance to article 130 of the D.lgs 196/03 in every moment the interested party has the right to oppose the treatment of one’s personal data. Your data will be dealt with in accordance of the D.lgs. 30th June 2003 n.196, guaranteeing the rights of the interested parties foreseen in the 7 art. of the Decree. We also inform you that AIM will communicate to foreign partners the personal data only for above reasons. We also inform you that your personal data will be on the list of the conference participants. In the case that you do not want to appear on this list you may block the mail box. We also inform you that the holder of the personal data is AIM in Milan in Pia Morandi 2, while owner of the personal data is Prof. Walter Nicodemi, available near the AIM offices.

Date __________________________

Signature ________________________
**Scheda di Iscrizione**

Da restituire compilata alla segreteria organizzativa entro il 4 Aprile 2008:

**ASSOCIAZIONE ITALIANA DI METALLURGIA - AIM**
Piazzale Rodolfo Morandi 2 - I - 20121 Milano, Italy
Tel. +39 0276021132 / 0276397770 · Fax +39 0276020551 · e-mail: aim@aimnet.it · P.IVA 00825780158

**European Conference on Heat Treatment 2008**

**Innovation in Heat Treatment for Industrial Competitiveness**

Verona · 7-9 Maggio 2008

**QUOTE DI ISCRIZIONE (entro il 4 Aprile 2008)**

<table>
<thead>
<tr>
<th>Tipo di partecipazione</th>
<th>Non Soci</th>
<th>Soci AIM</th>
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<tr>
<td>Presidenti di Sessione, Relatori*, Universitari Studenti**</td>
<td>Euro 620 (senza IVA e marca da bollo inclusa)</td>
<td>Euro 540 (senza IVA e marca da bollo inclusa)</td>
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<td>Euro 280 (senza IVA e marca da bollo inclusa)</td>
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| Soci Junior | ACCOMPAGNATORI | € 84 (IVA compresa) (include Cena del Convegno e Cocktail di Benvenuto) |

**Note:**
- ** Studenti devono allegare un documento attestante il proprio status di studente. La quota comprende la partecipazione ai lavori e l’accesso allo spazio espositivo, gli atti del convegno su CD-Rom, il cocktail di benvenuto, i pranzi, i coffee break e la quota di socio Junior AIM per tutto il 2008. La quota non include la cena del Convegno.

**Iscrizione Multipla per 3 o più persone appartenenti alla stessa azienda è previsto uno sconto del 15% . Per usufruire di tale sconto, le schede di iscrizione dovranno pervenire contemporaneamente alla segreteria AIM.**

**L’iscrizione si intende formalizzata al momento del ricevente della presente scheda compilata in tutte le sue parti.**

(È possibile iscriversi anche on line sul sito www.aimnet.it)

<table>
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<tr>
<td>Partecipante</td>
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<td>€</td>
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<tr>
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<tr>
<td>Universitario</td>
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<tr>
<td>Studente (allego certificato)</td>
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<td>n. _____ Accompagnatori</td>
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**Totale da pagare:** €

**Modalità di pagamento prescelta:**
- Bonifico bancario (allego copia)
- Assegno bancario o circolare (allego copia)
- Carta di Credito Visa, America Express, Diners Cards, Carta Sì o contanti al momento della registrazione a Verona (esclusi i relatori).

Vi informiamo che i dati raccolti saranno trattati nell’ambito della normale attività istituzionale di AIM. Ai sensi dell’art. 130 del D.lgs 196/03 in ogni momento l’interessato ha diritto di opporsi al trattamento dei propri dati personali. I nostri dati verranno trattati nel rispetto del D.Lgs. 30 Giugno 2003 n. 196, garantendo i diritti degli interessati previsti dall’art. 7 del Decreto stesso. Vi informiamo inoltre che AIM comunicherà a consociati esteri i dati personali raccolti solo per le finalità sopra riportate. Si informa altresì che Titolare del trattamento dei dati personali è AIM domiciliata a Milano in Piazzale R. Morandi 2, mentre Responsabile del trattamento dei dati personali è il Presidente nella figura del Prof. Walter Nicodemi, reperibile presso la sede del Titolare del Trattamento. I suddetti dati personali saranno inseriti nell’elenco dei partecipanti alla manifestazione in oggetto. Qualora Lei non desideri apparire su questo elenco basta la casella.

Date ________________________________
Firma ________________________________

Il presente documento è stato redatto e stampato con il sostegno di AIM Net S.p.A., società a responsabilità limitata istituita e istituita in Italia in Registrazione n. 1003 iscritta alla Camera di Commercio di Milano con capitale sociale di € 2,000.00 i.v. con sede legale a Milano, C.P. 61010, P.IVA 01333910156, e-mail: aimnet@aimnet.it.
Hotel Reservation Form

European Conference on Heat Treatment 2008
Innovation in Heat Treatment for Industrial Competitiveness
Verona, Italy · 7-9 May 2008

Please use block letters through form (photocopies can be used)
To send back by e-mail or fax within April 10, 2008 to:

HOTEL SAN MARCO
Via Longhena, 42 - 37138 Verona (VR), Italy
Phone: +39 045/569011 - Fax: +39 045/572299
e-mail: sanmarco@sanmarco.vr.it - website: www.sanmarco.vr.it

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<tr>
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<td>Double Room Standard</td>
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<tr>
<td>Double Room Single Use Standard</td>
<td>euro 109.00</td>
<td>euro 129.00</td>
</tr>
</tbody>
</table>

- Reservation forms sent after 10th April will be considered according to room availability;
- Reservation will not be accepted without the entire payment for the stay;
- In case of cancellation at least 7 days prior to arrival the hotel will refund the entire sum minus the refund's costs; after 30th April we will keep the entire sum due;
- If no more rooms will be available in Hotel San Marco hotel, rooms will be booked in hotels of the same category (4 stars) at same rates.

To confirm your reservation, the payment of the total stay is required in advance.
This payment can be made by bank transfer or by credit card:

- by Bank Transfer to Hotel San Marco, Bank info: BANCA POPOLARE DI VERONA - Agency D - Italy IBAN: IT67R051881170500000039835
- by Credit Card (credit card number is provided to secure and to guarantee the room. Payment will be made directly to Hotel upon check-out):
  - Visa (Carta Sì, Mastercard, Eurocard)
  - American Express

Date of arrival  
Date of departure
Arrival time  
Number of nights

Family Name  
First Name(s)  
Company  
Address  
Zip code  
Town  
country
Phone  
fax  
Mobile
E-mail  
I will share a room with

To send together a copy of the identification card /passport

Date  
Signature