



SECOND CALL FOR PAPERS



WWW.ASMEATI2006.IT

2° Call for Papers

Abstracts and Paper submission

The Conference is jointly promoted by ASME and ATI: it shall have a strong scientific content. The papers that will be prepared and issued to the Scientific Committee for approval shall have scientific contents. Possibly new ideas should be brought to the audience.

Own experience, the way to solve problems, new ideas to solve old problems, ways of behaving, technical proposals oriented to Norms and Standard and the approach to Public Authorities are part of the possible topics that can be matter of discussion during the Conference.

Papers should consider even partially what above indicated.

Papers will be published only if there is Conference attendance and only after conference attendance fee payment.

The registration cost will be reduced if payment is made before February 28th, 2006.

Schedule for papers presentation

Extended Abstract presentation deadline:

November 16th, 2005

Papers acceptance:

December 16th, 2005

Papers submittal (full write up):

March 20th, 2006

Papers Abstracts and Final Papers

Shall be addressed to:

atitombardia@atitombardia.overweb.it

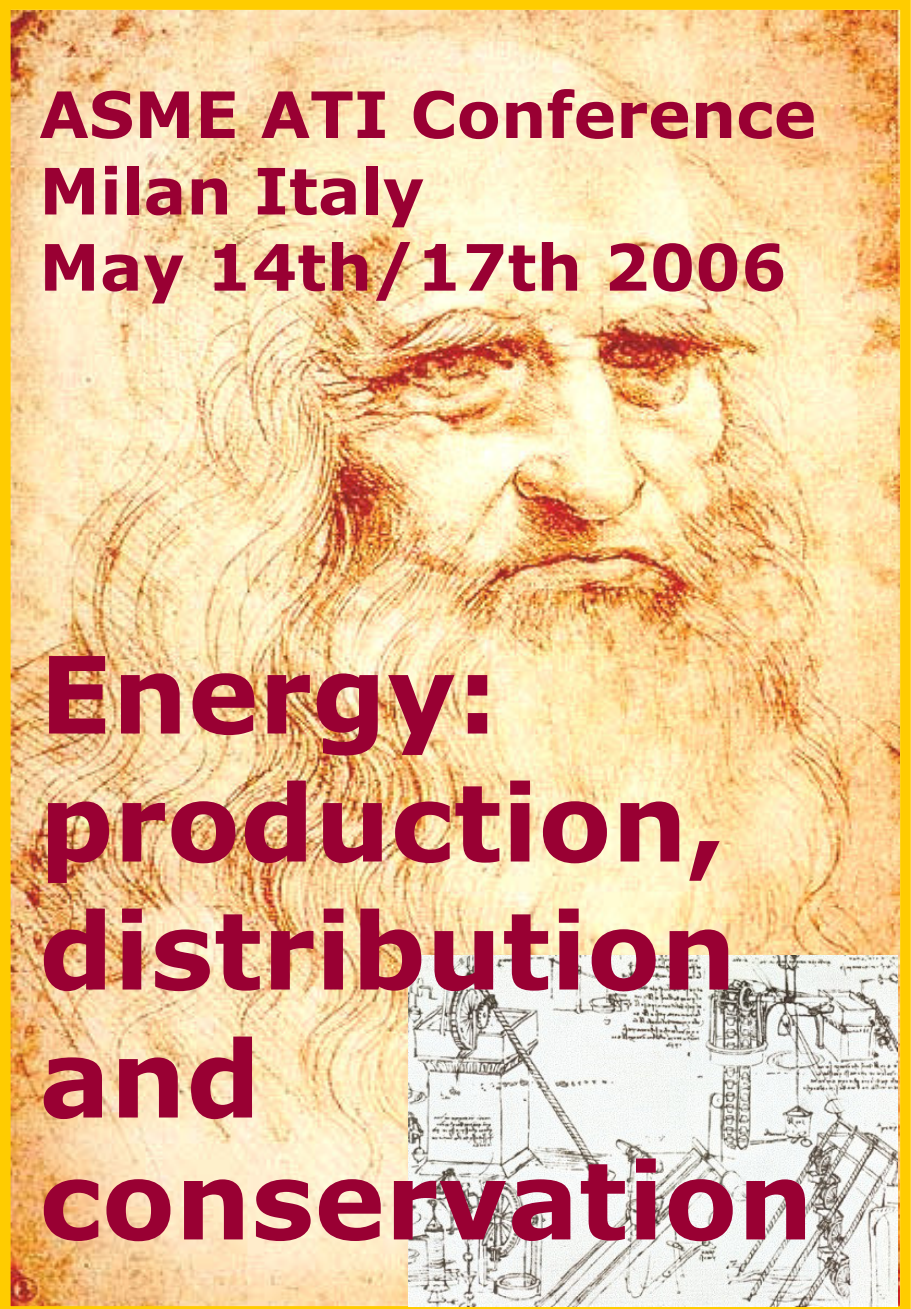
Each abstract shall clearly include the Authors Names and Company appurtenance information.

Each abstract shall clearly make reference to one of the Conference topics listed in this Call of Papers.

Extended Abstracts shall be two page write up (including figures)

ASME ATI Conference Milan Italy May 14th/17th 2006

Energy: production, distribution and conservation



General

Overview of the World Energy scene.
Overview of the USA Energy and Italy/Europe scene (similarities and differences).
Availability of energetic resources; today and tomorrow.

Major technical areas - Fundamental:

1. Basic engineering thermal science.
2. Thermodynamic optimization.
3. Turbine gas path and blade cooling for high temperature operation.
4. Combustion analysis and experiment.
5. Multiphase flow and heat transfer.
6. Fundamental heat and mass transfer issues in fuel cells.
7. Radiation heat transfer in enclosures.
8. Heat transfer in nano scale systems.
9. Cryogenic energy system.
10. Electronic devices cooling.
11. Constructal (design as science) theory and design.

Major technical areas – Applied:

A. Energy production methods.

- A.1 Gasification Technology.
IGCC's, co-production of H₂ and electricity, managing of CO₂ in the gasification processes.
- A.2 Combustion Technology.
Coal fired boilers. Supercritical boiler technology update.
Fluidized bed boiler technology update.
Oxy-fuel fired boilers and their environmental performance.
CO₂ capture and sequestration technologies.
High temperature combustion processes. Developments in gas turbines technology and combined cycles.
- A.2 Energy from renewable sources: biomass, solar, wind, waves and hydroelectric power.
- A.3 Fuel cell technology: applications, enabling technologies, heat transfer within fuel cell systems.
- A.4 Nuclear energy.
New nuclear power initiatives: new plant designs, thermal and breeder reactors, reemergence of plutonium recycle.
Radioactive fuel and other wastes handling and storage. Solid waste disposal processes.
Advances in safety and control of nuclear power systems.
Strategies for retiring equipment.
Designing new equipment for its eventual retirement.

B. Conservation of electrical, chemical, thermal and nuclear energy.

Improved efficiency in home and factory equipment. Energy optimization of thermal materials

processing systems. Energy storage and retrieval.

C. Energy transportation and transmission methods.

Clean transportation methods for energy; electric energy, hydrogen and hydrogen economy, hot/cold water, methanol.

New developments in electric power distribution, superconducting distribution lines.

Fuel distribution: hydrogen enrichment of natural gas, distribution technology.

Materials, safety, efficiency.

D. Pollution as a consequence of energy, environmental protection.

Kyoto Accord, its implementation and implications.

Recent advances in environmental technology.

Latest SO_x and NO_x abatement technology.

Heavy metal (mercury and lead) cleanup technologies.

Particulates and their control.

E. Miscellaneous.

Education: preparing the work force needed to meet tomorrow's energy needs.

Enhancing security of plants and distribution systems against weapons and cyber attacks.

New techniques in electric power demand projections.

Linking power distribution and broadband information distribution (Internet).

SCIENTIFIC COMMITTEE

The Scientific Committee is in charge to:

- Define the technical structure of the conference
- Review the abstract provided and approve either the presentation during the conference or the inclusion in the conference proceedings
- Review and approve the papers prepared

The Members of the Scientific Committee are:

Marino Avitabile ----- ENEA
Adrian Bejan ----- Duke University
Carlo De Michelis ----- CESI
Sergio Faggiani ----- Universita' di Pisa
Massimo Feola -Universita' Torvergata Roma
Richard J.Goldstein - University of Minnesota
Fabio Gori ----- Universita' Torvergata Roma
Yogesh Jaluria ----- Rutgers University
Jack Lloyd -----Michigan State University
Ennio Macchi ----- Politecnico di Milano
Arun Majumdar ----- UC Berkeley
David Pai – Foster Wheeler Dev. Corporation
Terry Simon ----- University of Minnesota
Giorgio Sotgia ----- Politecnico di Milano

Registration Form Topic Number

Paper Title

Name

Family Name

Company

Address

Zip City State

Telephone

Fax

E-mail

Date Signature

I herewith accept my personal data to be inserted in the list of the attendants to the Conference

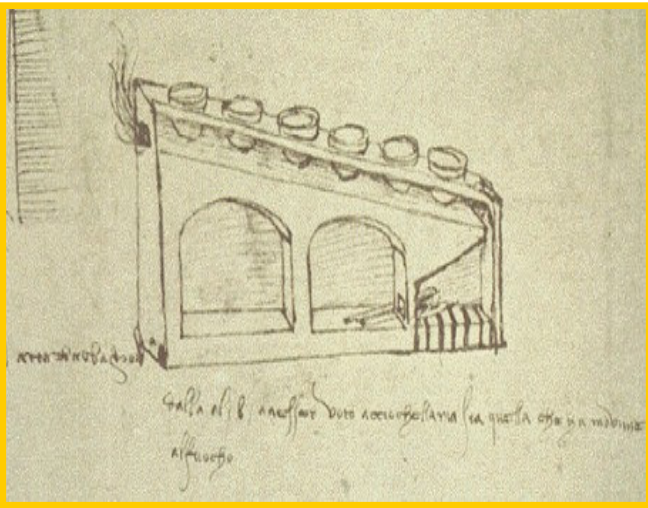
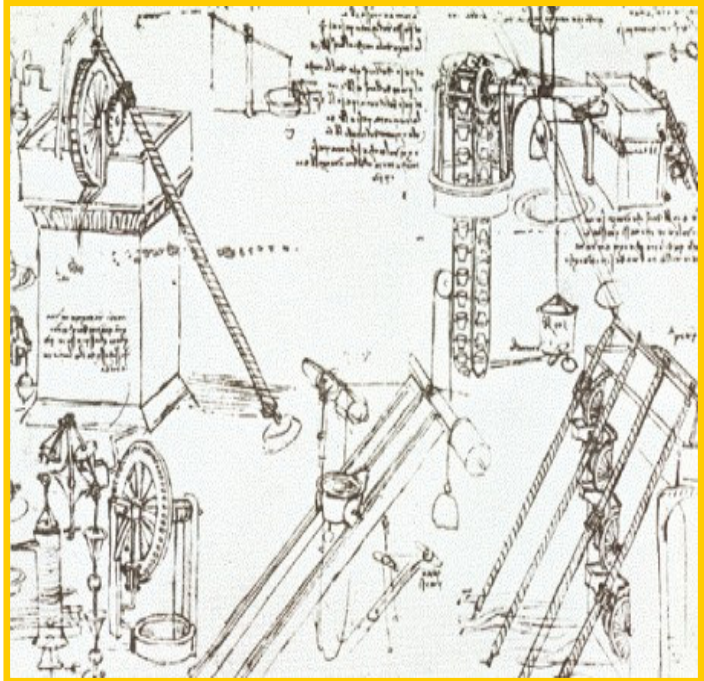
yes no

Signature

Tourist Program Preference

Please indicate preference and expected number of participant in order to allow organization
Costs will be indicated in the final program

DU1 	EX1 	AF1
DU2 	EX2 	AF2
DU3 	EX3 	
	EX4 	



The Conference Registration fee is 450 Euro.
The Conference Registration fee is reduced to 350 Euro if registration is made before feb. 28th, 2006. Registration fee includes: registration, conference proceedings, daily lunch buffets and Gala Dinner. Payments shall be made to the following Bank Account number:

ATI Sez.Lombarda
Banca Intesa - Corso di Porta Nuova, 7
20121 Milano
C.C. n° 615097620118
CIN Q - ABI 03069 - CAB 09420

ASME-ATI Conference Registration fee

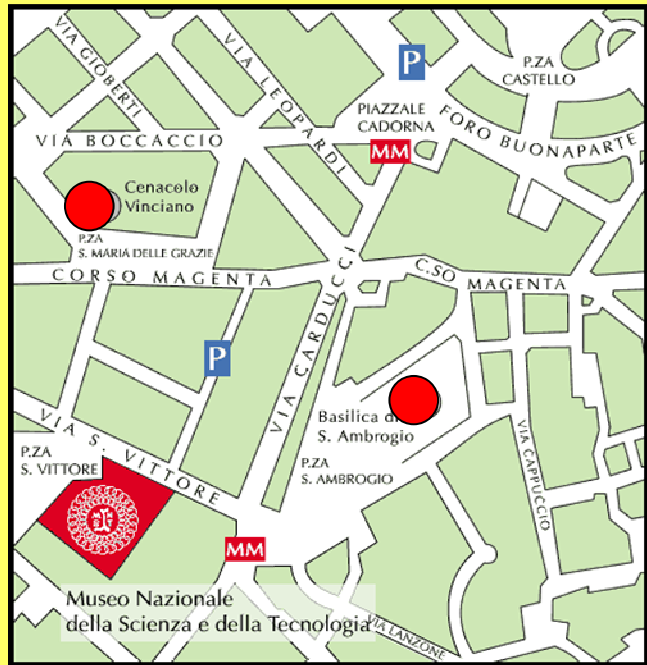
Registration Form to be sent by Fax to ATI Sez. Lombardia
Fax n. +39.02.76.00.94.42
Alternatively follow instructions reported in website
www.asmeati2006.it

Conference Organization
Associazione Termotecnica Italiana - Sez.Lombardia
Tel. +39.02.784989 Fax. +39.02.76009442
e.mail atilombardia@atilombardia.overweb.it
For abstracts and papers submission
asmeati@atilombardia.overweb.it

Conference Information
WWW.ASMEATI2006.IT

WWW.ASMEATI2006.IT

Conferece Location:
**Museo Nazionale della Scienza e della
 Tecnologia Leonardo da Vinci**
Via San Vittore, 21 - 20123 Milano
www.museoscienza.org



**DU=During Conference
 Time Schedule (Preliminary)**

DU1 - Monday May 15 morning
 Hr. 10,30 am Milan sightseeing on a Tramcab
 Hr. 1,00 pm Lunch in Osteria in the Navigli Area (cost at charge of each participant). The Navigli , designed by Leonardo Da Vinci, have been one of the most important waterway, since they were constructed in the XVIth Century, up to the middle of last century The area is most trendy and full of "Milan flavour"

DU2 - Tuesday May 16 Morning
 (spouses only) (cost to be defined)
 Hr. 10,30 am Visit to Brera Museum and Lunch in the Brera Area, very characteristic area of Milan ancient downtown, full of art galleries, shops and small pubs.
 Hr 1,00 pm Lunch in the Area

DU3 - Tuesday May 16 afternoon
 Hr. 4 to 6 p.m. Visit to the "Last Supper", Leonardo's most famous fresco, and adjacent Basilica Santa Maria delle Grazie.

Group of only 20 people are admitted. Please book together with registration to secure entrance)
During Conference activities costs are not included in the Conference Registration Fee. Payment instructions will be given

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**EX=Extra Conference
 Time Schedule (Prel.)**

EX1 – Sunday May 14th Monday
 Trip to Certosa di Pavia
 Lunch in a nearby restaurant
EX2 - Monday May 15th afternoon
**Museo della Scienza e della
 Tecnologia** (siege of the conference)

At the end of the works visit to the Main Sections of the Museum: Energy, Transportation, (to be booked together with Registration)
 Non attendees accepted in limited number: please book in advance
 Visit will take around 1 hour

EX3 - Monday May 15 evening
 Gala Dinner at 8,30 pm
 A Gala Dinner in one of Milan most significant place
 All attendees and spouses: please book together with registration.
 Cost for spouse: 80 Euro

EX4 - Tuesday May 16 evening
 Opera or Ballet (program available in September) at La Scala Theatre, world most famous Opera House. Bookings to be made with very large advance to secure tickets.
 Cost available in September.

**Extra Conference activities
 Costs are not included in
 the Conference Registration
 Fee. Payment instructions
 will be given. Gala Dinner cost
 included in Conference registration
 fee for Conference attendees**

AF – After Conference

AF1 – Trip to Venice (Program will be defined later)
AF2 – Trip to Florence (Program will be defined later)
**After Conference activities costs are not included in
 Conference registration fee**