

THERMEC' 2009 - Berlin



<http://www.thermec.uow.edu.au/>

Venue

Thecnical University, Berlin (Germany)

Contact Information

Enquiry about the abstract and manuscript submissions, registration fee, exhibition booth/space and information regarding manuscripts acceptance for the Conference, please contact:

Professor **T. Chandra**
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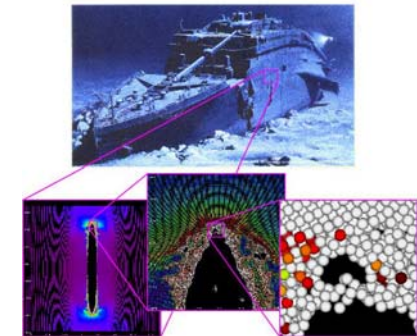
International Conference on
PROCESSING & MANUFACTURING OF
ADVANCED MATERIALS
PROCESSING, FABRICATION, PROPERTIES,
APPLICATIONS

August 25-29, 2009
Berlin, Germany

Contact Information

Enquiry about the abstract and manuscript submission for the **MCM2** Symposium, please contact:

Prof. **Patrizia Trovalusci**
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International Symposium on

Multiscale Mechanical Modelling of Complex Materials and Engineering Applications

MCM2

deadline for abstracts:
NOVEMBER 7th 2008
deadline for papers
MARCH 7th 2008

MCM2 DESCRIPTION

This symposium, 2nd edition after Vancouver (2009), will provide a forum for the presentation of fundamental, theoretical, experimental and practical aspects of mechanical modelling of materials with complex microstructures and with complex behaviour.

The symposium is expected to bring together researchers (engineers, physicists, mathematicians) specialized in multiscale mechanical modelling of complex materials finalised to engineering applications, with particular attention to structural engineering applications.

The symposium will include only invited papers.

The symposium will also provide opportunities to identify and discuss future developments in the field of multiscale modelling and design of new materials.

Coordinators

Martin Ostoja-Starzewski,
Department of Mechanical Science & Engineering
University of Illinois at Urbana-Champaign
Urbana, USA

Patrizia Trovalusci,
Department of 'Ingegneria Strutturale e Geotecnica',
University of Rome 'La Sapienza',
Italy

Keynote lecturers

M.G.D. Geers,
Eindhoven University of Technology,
Mechanical Engineering Materials Technology,
The Netherlands

Dominique Jeulin,
Centre de Morphologie Mathématique,
Ecole des Mines de Paris, Fontainebleau, and
Centre des Matériaux P.M. Fourt, Ecole des Mines de
Paris, Evry Cédex, France

MCM2 TOPICS

- _ Materials with micro/(nano)-structure
 - Composites, Fibre-Reinforced
 - Laminated
 - Granular, Masonry-Like
 - Biomaterials
 - Defected, Amorphous
 - Shape-Memory Alloys
- _ Complex material behaviour
 - Damage, Defect Creation, Growth, Interaction
 - Fracture, Crack Propagation
 - Shear Bands
 - Wave Propagation
- _ Multiscale Methods
 - Coupled Atomistic-Finite Elements Methods
 - Multifield Finite Elements Methods
 - Omogenization Methods
- _ Inverse Problems in Micromechanics
 - Nonconvex Optimization
 - Stochastic Optimization

Abstracts

Please save your abstract of approximately 250 words in Microsoft word format (see the conference website www.thermec.uow.edu.au for formatted abstract form and submission method and you will be guided through the procedure step by step to paste your abstract into the appropriate text area) and send via email to: thermec@uow.edu.au and a copy to patrizia.trovalusci@uniroma1.it prior to **Nov. 7, 2008**.

Manuscripts

The Program committee will review papers and those found suitable are recommended for inclusion in the "Materials Science Forum" periodical /proceedings to be produced by the Trans Tech Publishers, Switzerland. Manuscripts are due by **Nov 7, 2008** (strict due date please note).

Symposium participants will be also invited to submit a paper for the Special Issue of *International Journal for Multiscale Computational Engineering* (<http://www.begellhouse.com/journals/61fd1b191cf7e96f.html>)

THERMEC' 2009

Is built upon the proven concept and continues the tradition of its five predecessors, Japan (1988), Australia (1997), USA (2000), Spain (2003), Canada (2006). This conference series provides a forum for researchers from around the globe to present papers on recent advances in the overall field of science and technology of processing and manufacturing of advanced materials

Scope

The Conference will cover all aspects of processing, fabrication, structure/property evaluation and applications of both ferrous and non-ferrous materials including hydrogen & fuel cell technologies, metallic glasses, thin films, ecomaterials, nanocrystalline materials, biomaterials and other advanced materials.

Oral and poster presentations dealing with the various conference topics listed on this website will be included in the conference program. In addition to the contributed papers, the conference committee will invite papers by eminent researchers in key areas of materials science and materials processing /manufacturing. Internationally known experts from various countries will deliver Plenary/Keynote/Lead lectures at THERMEC' 2009

General Chairmen

W. Reimers, Germany
K. Tsuzaki, Japan
M. Jeandin, France
Dong Nyung Lee, Korea
T. Chandra, Australia

Program Chairmen

K. U. Kainer, Germany
F. Montheillet, France
S. Takaki, Japan
Jai Sung Lee, Korea
T. G. Langdon, USA

Any other information about the Conference can be found at the official website www.thermec.uow.edu.au