

EURO
MAT
2007

Call for Papers

EUROMAT 2007 ^{FEMS}



www.euromat2007.fems.org

European Congress and Exhibition on
Advanced Materials and Processes

10 - 13 September 2007
Nürnberg, Germany

DGM DVM PTM

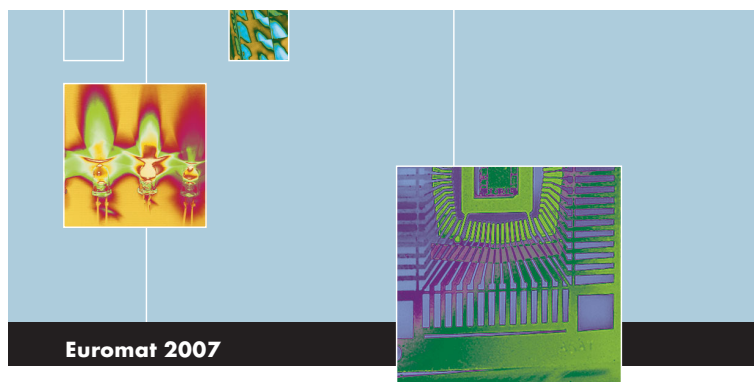
Organising Societies:

Deutsche Gesellschaft für Materialkunde

Deutscher Verband für Materialforschung und -prüfung

Polskie Towarzystwo Materialoznawcze

FEMS
FEDERATION OF EUROPEAN
MATERIALS SOCIETIES



The Euromat Series

Euromat meetings held every two years are sponsored by the Federation of European Materials Societies. They have become prime venues in Europe for a major gathering of academics and industrialists with an interest in Materials Science and Technology.

The Euromat series has been organised by the 24 FEMS member societies and represents by this a showcase of the competence of the European materials community. It includes the following venues:

1989: Aachen, D
 1991: Cambridge, UK
 1993: Paris, F
 1995: Padua, I
 1997: Maastricht, NL
 1999: München, D
 2001: Rimini, I
 2003: Lausanne, CH
 2005: Prague, CZ

Exhibition

There will be an exhibition of materials related products, processing machines and devices throughout the whole conference. The exhibition space is on display on the extra page of this leaflet.

Further information is available on the website and from the Euromat Congress Office.

Euromat 2007

Nürnberg, the mediaval city in the north of Bavaria was the former residence of the German Emperors and venue of the early Diet Parliaments. Euromat will take place in the new congress centre that is part of the Nürnberg fair grounds situated close to the historic centre.

FEMS Awards

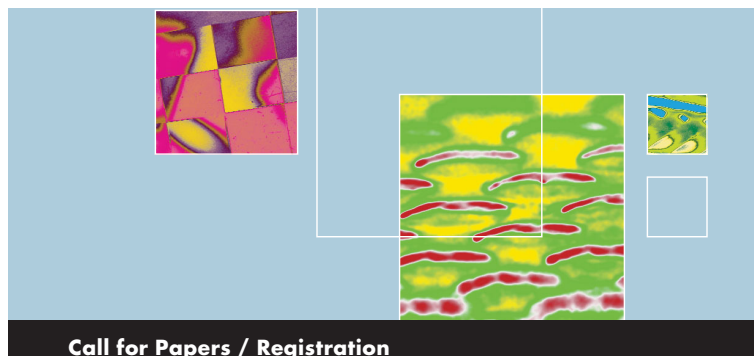
At the occasion of Euromat, FEMS presents its highest distinctions:

- The European Materials Medal is awarded to an active materials scientist or engineer for distinguished contributions to Materials Science and Engineering in Europe.
- The Materials Science and Technology Prize is awarded to a young European materials scientist or engineer in recognition of a significant contribution to MST. It consists of a full set of the 20-volume WILEY-VCH book series.

Programme

The multi parallel session programme will be built from both contributed lectures/posters that are generated by the Call for Papers, as well as by quite a few keynote and plenary lectures.

Comprehensive information and the possibility to register and to submit abstracts will be offered through the website.



Submission of Abstracts

Prospective authors are invited to submit an abstract, indicating which of the symposia listed on the Website is most appropriate to the theme of the work. Abstracts should not exceed 1500 characters in length and should be submitted in digital format through the website.

Deadline for the submission of abstracts: **31 Jan 2007**.

Those authors preferring a poster presentation should indicate so. The abstracts will be evaluated and, if accepted, the authors will be informed about the kind of presentation (oral or poster).

Internet

Once the programme has been defined, it will be displayed on the website and up-dated regularly throughout the period prior to the congress. As a special feature, an individual programme with selected papers may be created online and will be stored until the conference.

Proceedings

There will be no publication of a complete set of proceedings. However, it is anticipated that a number of journals may decide to base special issues on particular Topics or Symposia. This is up to the Topic Coordinators or Symposium Organisers. Euromat 2005 generated 13 publications.

Registration

In addition to submitting an abstract, all authors must register before the conference (see below for dates). The congress fees are as follows:

Industry / 4 days: 740 EUR
 Industry / 2 days: 580 EUR
 University / 4 days: 520 EUR
 University / 2 days: 380 EUR
 Student / 4 days: 250 EUR

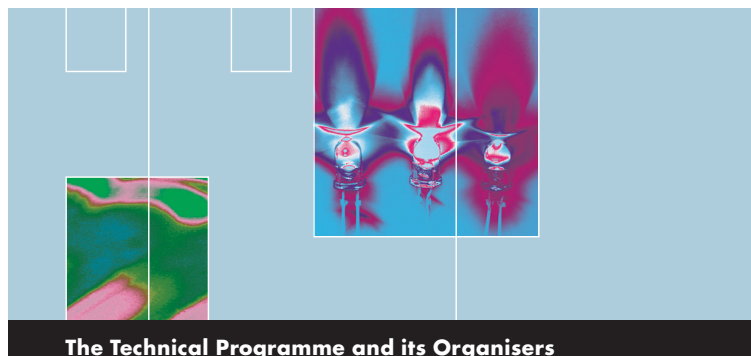
Members of FEMS member societies are eligible for a 10% discount.

Short Courses

A set of short introductory courses with topical themes will be run in conjunction with the congress, to be held on Sunday 9th September.

Key Dates for Authors

15 Jul 2006: Publication of the Symposia on the website
 31 Jan 2007: Deadline for the submission of abstracts
 15 Apr 2007: Confirmation of authors
 15 May 2007: Preliminary Programme on the website
 15 Jun 2007: Conference fees due for authors
 10 Aug 2007: Programme to press



The Technical Programme and its Organisers

Congress Chairs

F. Delannay, University of Louvain, Belgium (Chairman)
 T. W. Clyne, University of Cambridge, United Kingdom,
 K.J. Kurzydowski, Warsaw University of Technology, Poland
 P. D. Portella, Federal Institute for Materials Research and Testing, Berlin, Germany
 E. Zschech, AMD Saxony, Dresden, Germany
 S. van der Zwaag, Delft University of Technology, Netherlands

Topic Area A: Functional Materials

A1 Electronic and Photonic Materials

N. Koch, Humboldt University, Berlin (Germany)

A2 Magnetic Materials

L. Schultz, Institut für Festkörper- und Werkstofforschung Dresden e.V. (Germany)

A3 Memory Storage and Interconnects

R. Spolenak, Swiss Federal Institute of Technology, Zürich (Switzerland)

A4 Materials for Nanotubes and Nanowires

C.M. Whelan, Interuniversity Microelectronics Center, Leuven (Belgium)

A5 Advanced Polymers

G. Wegner, Max-Planck-Institut für Polymerforschung, Mainz (Germany)

A6 Functional Ceramic Materials and Devices

M.J. Hoffmann, University of Karlsruhe (Germany)

A7 Bioinspired Materials

P. Greil, University of Erlangen-Nürnberg (Germany)

Topic Area B: Structural Materials

B1 Advanced Structural Ceramics

G. Schneider, Robert Bosch Corp., Palo Alto (USA)

B2 Advanced Metallic and Hybrid Materials

T.W. Clyne, University of Cambridge (United Kingdom)

B3 Building Materials

F.H. Wittmann, Aedificat Institute, Freiburg (Germany)

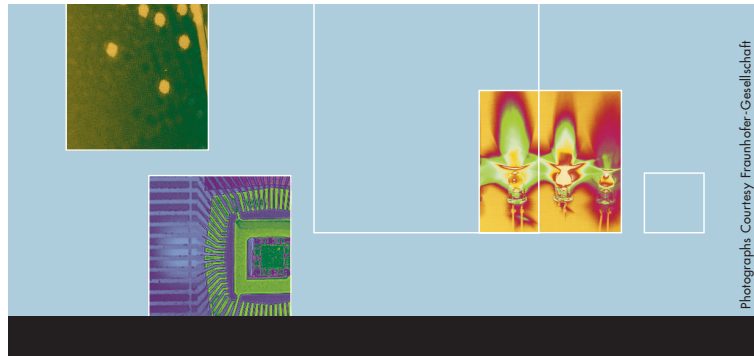
B4 Materials for the Extreme Environment

H.-H. Bolt, Max-Planck-Institut für Plasma Physik, Garching (Germany)

Topic Area C: Processing

C1 Solidification and Solid State Transformation

M. Rappaz, Swiss Federal Institute of Technology, Lausanne (Switzerland)



Photographs Courtesy Fraunhofer-Gesellschaft

C2 Joining

M. Ferraris, Politecnico di Torino (Italy)

C3 Powder Synthesis and Processing

P. Bowen, Swiss Federal Institute of Technology, Lausanne (Switzerland)

C4 Extraction and Chemical Processing of Metals

G. Kaptay, University of Miskolc, Egyetemvaros (Hungary)

C5 Coatings and Surface Engineering

K. Bobzin, Technical University of Aachen (Germany)

Topic Area D: Characterisation and Modelling

D1 Microstructural Characterisation Techniques

F. Mücklich, University of Saarland, Saarbrücken (Germany)

D2 Mechanical Testing and Characterisation

O. Kraft, Forschungszentrum Karlsruhe (Germany)
R.H. Dauskardt, Stanford University (USA)

D3 Materials Modelling on all Length Scales

D. Raabe, Max-Planck-Institut für Eisenforschung, Düsseldorf (Germany)
P. Turchi, Lawrence Livermore National Laboratory (USA)

Topic Area X: Application

X1 Aerospace

H. Voggenreiter, German Aerospace Center, Stuttgart (Germany)
R. Benedictus, Technical University of Delft (Netherlands)

X2 Automotive

R. Stauber, BMW, München (Germany)

X3 Energy Conversion

K.E. Schneider, Consultancy Services, Küssaberg (Germany)

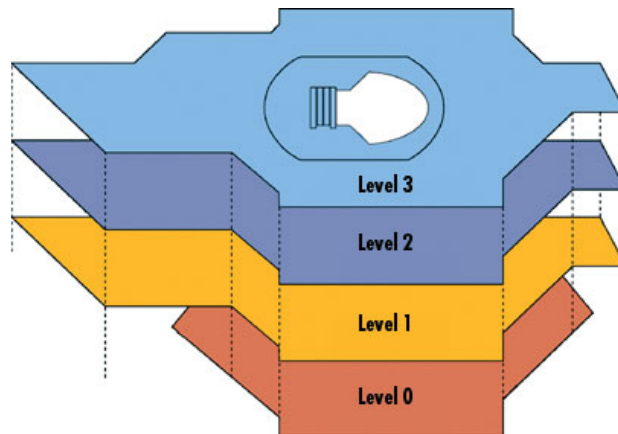
X4 Biomedical Engineering

A. Boccaccini, Imperial College of Science, Technology and Medicine, London (United Kingdom)
K. de Groot, Twente University, Enschede (Netherlands)

Topic Area Y: Education

Y1 Teaching Materials Science and Engineering

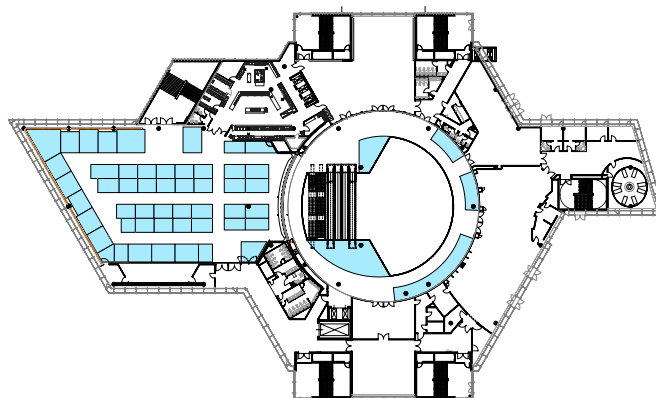
P. Goodhew, University of Liverpool (United Kingdom)

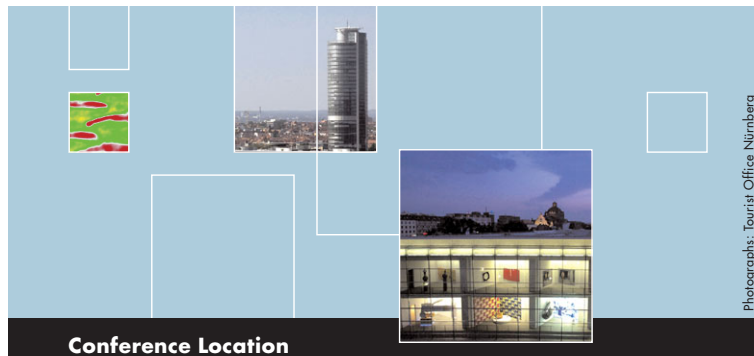


The CCN offers excellent facilities for both congressing and exhibiting. The three upper levels accommodate 21 lecture halls and ample poster display

areas. The exhibition area is located on the first level (see model set up above).

Exhibition Area on Level 1





Nürnberg is a modern city with half a million residents, the main city of a European metropolitan region, and at the same time a rendezvous with history, architecture, museums, art treasures. The artistic impact of Albrecht Dürer, Veit Stoß, Peter Vischer and many other artists together with the patronage of wealthy patrician families still characterise present day Nürnberg.



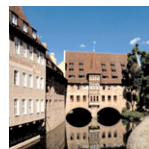
The imperial castle, symbol of Nürnberg, is a visual testimony for the city's historic past. Between 1050 and 1571 it served all Emperors of the Holy Roman Empire as residence.



The Old City Hall comprises all buildings erected between the 14th and 17th century in the block bordered by Rathausplatz, Rathausgässchen and Theresienstraße.



The Church of Our Lady's built by Emperor Charles IV was the first Gothic hall church in Franconia. The main altar is the famous "Tucher Altar".



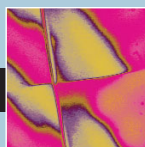
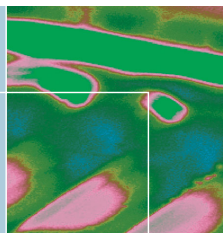
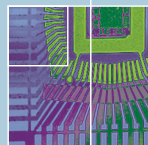
The Hospice of the Holy Spirit was a foundation endowed by the rich Patrician Konrad Groß for old and needy people.



The Wine Store is one of Nürnberg's most beautiful buildings. The front towards the river Pegnitz boasts wooden galleries with metal fountains.



The National Socialist Party Rallyes and Race Laws are just as indelibly linked with the city of Nürnberg as the Nürnberg Trials against the major war criminals of the NS regime, marking the beginning of international criminal jurisdiction. Dealing with this legacy responsibly and openly has become the task of the city and its citizens. Nürnberg's exemplary commitment towards a city of peace and human rights has been recognised throughout the world. Today, the Party Rally Grounds host a comprehensive Documentation Centre situated at the "Straße der Menschenrechte", the Street of Human Rights.



Sponsors and Organisers

Sponsor

Federation of European Materials Societies (FEMS)

- Associazione Italiana di Metallurgia (I)
- Austrian Society for Metallurgy and Materials (A)
- Benelux Métallurgie (B)
- Bond voor Materialenkennis (NL)
- Czech Society for New Materials and Technologies (CZ)
- Danish Metallurgical Society (DK)
- Deutsche Gesellschaft für Materialkunde (D)
- Deutscher Verband für Materialforschung und -prüfung e.V. (D)
- Estonian Materials Science Society (EE)
- Hellenic Society for the Science and Technology of Condensed Matter (GR)
- Institute of Materials, Minerals & Mining (UK)
- Latvian Materials Research Society (LV)
- Lithuanian Materials Research Society (LT)
- Metal Science Society of the Czech Republic (CZ)
- Norsk Metallurgisk Selskap (N)
- Országos Magyar Bányászati és Kohászati Egyesület (H)
- Polskie Towarzystwo Materialoznawcze (PL)
- Slovensko Društvo Za Materiale (SL)
- Sociedad Española de Materiales (E)
- Sociedade Portuguesa de Materiais (P)
- Society for New Materials and Technologies in Slovakia (SK)

- Société Française de Métallurgie et de Matériaux (F)
- Svenska Föreningen för Materialteknik (S)
- Ukrainian Materials Research Society (UA)

FEMS Secretariat:
Dr Paul McIntyre
The Institute of Materials, Minerals and Mining
1, Carlton House Terrace
London SW1Y 5DB
United Kingdom

Co-Sponsor

TMS - The Minerals, Metals & Materials Society (USA)

Organising Societies

- DGM - Deutsche Gesellschaft für Materialkunde (D)
- DVM - Deutscher Verband für Materialforschung und -prüfung (D)
- PTM - Polskie Towarzystwo Materialoznawcze (PL)

Congress Office

Euromat 2007 Congress Office
c/o Deutsche Gesellschaft für Materialkunde e.V.
Senckenberganlage 10
60325 Frankfurt
Germany
P +49-69-75306 747
F +49-69-75306 733
euromat@fems.org
www.euromat2007.fems.org