



European Congress and Exhibition on Advanced Materials and Processes from 1<sup>st</sup> to 5<sup>th</sup> September 2003

## The Euromat 2003 in Lausanne

**Engineering progress essentially depends on the availability and the intelligent use of materials. For many key industry areas, Europe constitutes a premier place for the development of new materials and their applications.**

Euromat, the biennial meeting of the Federation of European Materials Societies with its 24 member societies, sets out to become the most comprehensive European event to demonstrate the wide range of materials science and technology.

The Euromat series so far has in turn been organised by the FEMS member societies and represents by this a showcase of the competence of the European materials community.

In order to demonstrate an even more dynamic European character, Euromat 2003 will jointly be run by the French, German and Swiss materials societies.

The conference is essentially focused on new fundamental approaches and processing related aspects for unconventional materials. At the same

time, tailoring materials for applications with high innovation potential are addressed. There is hardly a better opportunity for scientists and engineers in the European materials arena to meet and to discuss materials issues.

The conference will take place at the sites of the Swiss Federal Institute of Technology and the University of Lausanne on the banks of Lake Geneva that provide an excellent environment for hosting

quite a number of parallel sessions together with appropriate exhibition facilities.

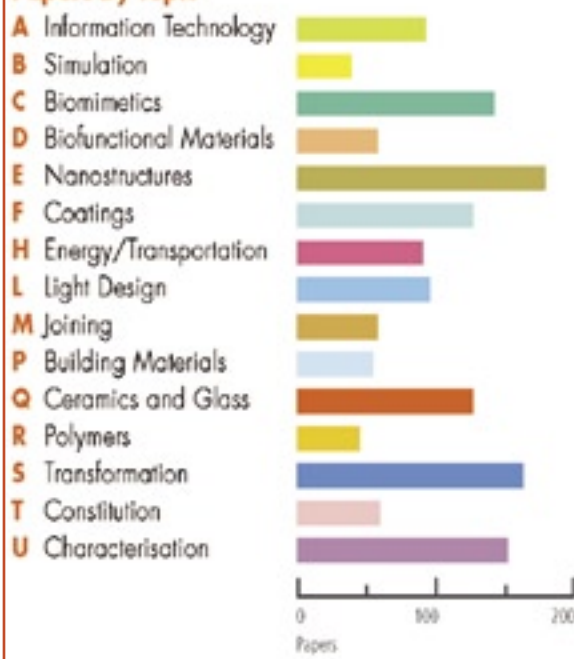
### Scientific Programme

15 Topics  
47 Symposia  
220 Sessions

### Featuring

4 Plenary Lectures  
51 Keynote Lectures  
136 Invited Papers  
1350 Contributed Papers

### Papers by Topic



### Topics

**A** Information Technology; Ehrenfried Zschech, AMD Saxony, Dresden, D

**B** Modelling on all Length Scales; Dierk Raabe, Max-Planck-Institut für Eisenforschung GmbH, Düsseldorf, D

**C** Biomimetic and Bio-inspired Approaches to Inorganic and Functional Hybrid Materials; Clément Sanchez, University Pierre et Marie Curie, Paris, F

**D** Biofunctional Materials Surfaces – Science and Applications; Bengt Kasemo, Chalmers University of Technology, Göteborg, S

**E** Nanostructured Materials; Heinrich Hofmann, Swiss Federal Institute of Technology, Lausanne, CH

**F** Coatings; T.W. Clyne, University of Cambridge, UK

**H** Energy and Transportation; Wolfgang A. Kaysser, Deutsches Zentrum für Luft- und Raumfahrt e.V., Köln, D

Moussy, Renault, Guyancourt, F

**P** Building Materials; Karen Scrivener, Swiss Federal Institute of Technology, Lausanne, CH

**Q** Ceramic Materials; Amparo Fuertes, Institut de Ciencia de Materiales de Barcelona, E

**R** Polymers; Sanjay Ras-togi, Techn. Univ. of Eindhoven, NL

**S** Phase Transformation; Wilfried Kurz, Swiss Federal Institute of Technology, Lausanne, CH

**T** Design and Prediction of Fundamental and Constitutional Properties; Ricardo Ferro, University of Genova, I

**U** Materials Characterisation; Manfred Rühle, Max-Planck-Institut für Metallforschung, Stuttgart, D

### Geographical Distribution

Region	Papers
Western Europe	891
Central and Eastern Europe	355
Asia, Australia	133
Americas	92
Africa	52

# The Polish Materials Society

**The Polish Materials Society was founded in 1995. The aim of its activities is to promote and propagate the materials sciences and engineering. At present, the PTM consists of 160 members – specialists in materials engineering employed in various centres in Poland and Europe. The Society has two branches: one established in Krakow and the other in Gdansk, whose members are scientists employed at the local universities and research institutes.**

Under the patronage of the PTM President, an annual competition is organised for the best doctor's thesis in the field of materials engineering. The Society is a co-publisher of the scientific journal entitled "Inżynieria Materiałowa" (Materials Engineering) which publishes papers (subject to referees reviews) in the Polish and English languages. The journal is devoted to materials problems, is concerned with metallic materials, plastics, ceramics and composites in

various forms according to their application, and also promotes modern developments in surface engineering.

During the last two years, the PMS was the co-organiser of the following conferences:

1. Symposium on "Intermetallic Alloys", Warsaw, 2000.

2. The XVI-th Physical Metallurgy and Materials Science Conference on Advanced Materials & Technologies, Jurata, Poland, 2001

3. The XI<sup>th</sup> International Conference on Electron Microscopy of Solids, Krynica, Poland, 2002

4. Z.S.Basilski Symposium on Advances in Materials Plasticity, Krakow, Poland, 2002

5. "Obróbka powierzchniowa" (Surface treatments), Kule-Człostochowa, 2002

6. The 2<sup>nd</sup> International Conference on Environmental Degradation of Engineering Materials, Bordeaux, France, 2003

7. Seminar on "Problems in designing research and teaching projects in the field of materials

engineering", organised annually at various research centres in Poland with the aim to exchange individual experience, coordinate the results and establish mutual contacts between the institutions and research groups in the efforts to modernise and adapt their research and teaching activities to the requirements of the advances made in the science and technology throughout the world and to benefit best from the possibilities available in Poland.

## FEMS news

is available at the FEMS website. It can be downloaded as PDF file in screen-resolution or as a ready-to-print PDF file. Thus FEMS news can be inserted in national material sciences magazines.

### FEMS news

Editorial Committee: Dr. P.P. Schepp (DGM; Chairman), A. Morrell, Prof. W. Kurz (EPFL), R. Kickuth. Managing editor: Rolf Kickuth. Production: Rubikon Agency, Germany. Please send comments and contributions to [info@fems.org](mailto:info@fems.org) or [fems@rubikon.de](mailto:fems@rubikon.de). Publisher: FEMS, Hamburger Allee 26, 60486 Frankfurt/Main, Germany © FEMS July 2003

## FEMS Member Societies

**Austria:** Austrian Society for Metallurgy (ASMET)  
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**Benelux:** Benelux Métallurgie  
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**Czech Republic:** Czech Society for New Materials and Technologies (CSNMT)  
e-mail: [tastech@sl.inext.cz](mailto:tastech@sl.inext.cz)

Metal Science Society of the Czech Republic (MSS)  
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**Denmark:** Danish Metallurgical Society  
e-mail: [vf@vaekstfonden.dk](mailto:vf@vaekstfonden.dk)

**Estonia:** Estonian Material Science Society (EMSS)  
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**France:** Société Française de Métallurgie et de Matériaux (SF2M)  
e-mail: [sfmm@wanadoo.fr](mailto:sfmm@wanadoo.fr)

**Germany:** Deutsche Gesellschaft für Materialkunde (DGM)  
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Deutscher Verband für Materialforschung und -prüfung (DVM)  
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**Greece:** Hellenic Society for the Science and Technology of Condensed Matter  
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**Hungary:** Országos Magyar Bányászati és Kohászati Egyesület (OMBKE)  
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**Italy:** Associazione Italiana di Metallurgia (AIM)  
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**Latvia:** Latvian Materials Research Society (LMRS)  
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**Lithuania:** Lithuanian Materials Research Society (LtMRS)  
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**The Netherlands:** Bond voor Materialenkennis (BvM)  
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**Slovak Republic:** Society for New Materials and Technologies in Slovakia (SNMSTS)  
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**Slovenia:** Slovensko društvo za materiale (SDM)

Denmark on February 20<sup>th</sup> and on February 21<sup>st</sup> he was a guest at the Materials Research Department at Risø National Laboratory. At Risø a one day mini-symposium was organized around Eric Maire's visit. The FEMS lecturer supplemented by Risø scientists of the Research Programme "Metal Structures in 4D" gave an excellent overview of the state of the art of the application of synchrotron radiation in Materials Research. Vivid and fruitful scientific discussions followed the lectures.

### Lithuania: LtMRS

**The LtMRS is a voluntary, non-profit organization uniting individuals and collective members of Lithuania involved in materials science and related applications (established on 1999).**

It consist of 130 members including of about 40 graduated students. Following sections have been established: Materials of Electronics and Optics, Construction Materials, Metals and Alloys (thin films), Textile Materials, Polymers and Composites, Active Materials. The acting president before 2006 is Dr. V. Grivickas (see also [www.ltmsr.lt](http://www.ltmsr.lt)).

### Austria: ASMET

**ASMET – The Austrian Society for Metallurgy and Materials – represents the Austrian manufacturers and processors of metallic materials.**

ASMET is composed of roughly 1200 personal members and 70 companies. Scientific work is performed within 25 technical committees, each related to a certain technological field. Our intention is to foster dialogue between producing and processing companies including the final consumer. ASMET was founded in 1925 as "Eisenhütte Österreich" (see also [www.asmet.at](http://www.asmet.at)).

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**United Kingdom:** Institute of Materials, Minerals and Mining (IoM<sup>3</sup>)  
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