



Programme

EUROPEAN CONFERENCE

# JUNIOR EUROMAT 2008

14 - 18 July 2008, Lausanne, Switzerland



**Sponsored by**

The Federation of European  
Materials Societies (FEMS)

**Co-Sponsored by**

The European Materials Research  
Society (EMRS)

**Organised by**

Deutsche Gesellschaft für  
Materialkunde e.V. (DGM)

## GENERAL INFORMATION

### Organising Society

Deutsche Gesellschaft für  
Materialkunde e.V. (DGM)  
Senckenberganlage 10  
D-60325 Frankfurt  
Phone: +49-69-75306 747  
Fax: +49-69-75306 733  
Mail: [dgm@dgm.de](mailto:dgm@dgm.de)  
[www.dgm.de](http://www.dgm.de)

### Conference Location

Université de Lausanne (UNIL)  
Building Amphipôle  
CH-1015 Lausanne

### Conference Office

The conference office will be  
located in the foyer of the lec-  
ture hall.

Opening times:

- Sunday, 13 July 2008  
15:00 to 18:00 h
- Monday through Thursday  
along the conference  
programme

### Programme Manager

Dr. Peter Paul Schepp  
Deutsche Gesellschaft  
für Materialkunde e.V.,  
Frankfurt (D)

### Conference Secretariat

Deutsche Gesellschaft für  
Materialkunde e.V. (DGM)  
Anja Mangold  
Beate Tölle-Kortmann  
Yvonne Koall  
Christa Wendt  
Senckenberganlage 10  
D-60325 Frankfurt  
Phone: +49-69-75306 747  
Fax: +49-69-75306 733  
Mail: [junior-euromat@fems.org](mailto:junior-euromat@fems.org)  
[www.junior-euromat.fems.org](http://www.junior-euromat.fems.org)

### Transport Facilities

No special shuttle service to  
the UNIL will be arranged.  
There is a metro line connec-  
ting the UNIL with downtown  
Lausanne and the center of  
Renens. The stop is called  
UNIL Sorge.

## INTRODUCTION

### Welcome

A welcome by the  
President of FEMS

Dear conference participant,  
  
welcome to Lausanne, welcome to JUNIOR EUROMAT 2008, a FEMS event which is held in Lausanne at the site of the University of Lausanne and of the Swiss Federal Institute of Technology Lausanne (EPFL). We are very grateful to the University of Lausanne for providing their excellent facilities.

Conferences are a unique tool for information exchange. In this respect JUNIOR EUROMAT is special; it is organised like a summer school with its informal atmosphere which should help young scientists and engineers to be at ease at their often first conference. Despite this relaxed atmosphere, JUNIOR EUROMAT is a highly professional conference. This year's JUNIOR EUROMAT is formed of 14 topics covering virtually every aspect of Materials Science and Engineering, from nano to bio, from mechanical and physical properties to processing, etc.

It is also a truly international conference. There will be some 250 presentations and as many young participants, coming from 33 countries. Materials engineers from indu-

stry will present themselves and their company and discuss with the participants on Wednesday and Thursday.

The success of this conference series which started in 1992 seems to show that the concept which is due to FEMS and to Dr. Peter Schepp from the German Materials Society (DGM) satisfies a real need. In the name of the Executive Committee of FEMS I would like to thank Dr. Schepp and his collaborators for their high quality work in organising this event.

I wish you all a very interesting and successful meeting.

Prof. T.W. Clyne  
President of FEMS

FEMS, the Federation of European Materials Societies actively promotes Materials Science and Engineering:  
[www.fems.org](http://www.fems.org)

## GENERAL INFORMATION

### The Federation of European Materials Societies (FEMS)

#### President

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

#### Vice President

S. van der Zwaag  
Technische Universiteit Delft  
(Netherlands)

#### Secretary

P. McIntyre  
The Institute of Materials,  
Minerals and Mining  
1, Carlton House Terrace  
London SW1Y5DB  
United Kingdom  
Phone: +44-207-4517336  
Fax: +44-207-8392289

#### FEMS member societies

- Associazione Italiana di Metallurgia (Italy)
- Associazione Italiana Compositi & Affini (Italy)
- Associazione Italiana d'Ingegneria dei Materiali (Italy)
- Austrian Society for Metallurgy and Materials (Austria)
- Benelux Métallurgie (Belgium)
- Bond voor Materialenkennis (The Netherlands)
- Czech Society for New Materials and Technologies (Czech Republic)
- Deutsche Gesellschaft für Materialkunde (Germany)
- Deutscher Verband für Materialforschung und -prüfung e.V. (Germany)

- Estonian Materials Science Society (Estonia)
- Hellenic Society for the Science and Technology of Condensed Matter (Greece)
- Hellenic Metallurgical Society (Greece)
- Institute of Materials, Minerals & Mining (United Kingdom)
- Latvian Materials Research Society (Latvia)
- Lithuanian Materials Research Society (Lithuania)
- Metal Science Society of the Czech Republic (Czech Republic)
- Materials Research Society of Serbia (Serbia)
- Norsk Metallurgisk Selskap (Norway)
- Országos Magyar Bányászati és Kohászati Egyesület (Hungary)
- Polskie Towarzystwo Materialoznawcze (Poland)
- Slovensko Društvo Za Materiale (Slovenia)
- Sociedad Española de Materiales (Spain)
- Sociedade Portuguesa de Materiais (Portugal)
- Society for New Materials and Technologies in Slovakia (Slovak Republic)
- Société Française de Métallurgie et de Matériaux (France)
- Svenska Föreningen för Materialteknik (Sweden)
- Ukrainian Materials Research Society (Ukraine)

## GENERAL INFORMATION

### The Conference Format: Oral Poster Presentation

JUNIOR EUROMAT will be organised as a poster conference, i. e. all the contributions will be on display as posters. The poster authors have been invited to introduce their poster orally in the lecture hall (3 minutes each) using 3 transparencies. After the oral session, the authors will be available for discussion in front of the poster panels

### Participants by Countries:

Algeria	10	Romania	32
Austria	19	Russian Federation	15
Belarus	2	Serbia	1
Belgium	3	Slovak Republic	5
Bulgaria	1	Slovenia	1
Czech Republic	28	Spain	7
Denmark	2	Sweden	2
France	19	Switzerland	9
Germany	49	Turkey	3
Hungary	11	Ukraine	7
India	3	United Kingdom	7
Iran	1	USA	3
Italy	2		
Japan	6	Total	278
Korea, Republic	3		
Latvia	3		
Mexiko	2		
Netherlands	2		
Norway	1		
Poland	14		
Portugal	5		

**Monday - Tuesday**

**OVERVIEW**

<b>Time</b>	<b>MONDAY</b>	<b>TUESDAY</b>
8:00	All delegates have the possibility for early registration on Sunday 15.00 - 18.00	Time to fix Posters
8:30		
9:00	Registration	<b>Session 2</b> <b>Topics: B, E, P</b> Short Lecture Presentations Discussion of all Posters of Session 2 in front of the Panels
9:30	Time to fix Posters	
10:00	<b>Opening Adress</b>	
10:30	Welcome by Representatives of the Sponsor	
11:00	<b>Session 1</b> <b>Topic: N</b> Short Lecture Presentations	Discussion of all Posters of Session 2 in front of the Panels
11:30		
12:00		
12:30		
13:00	Lunch	Lunch
13:30	Time to fix the Poster	Time to fix the Poster
14:00		
14:30	<b>Session 1 conf'd</b> <b>Topics: D, G, I, L</b> Short Lecture Presentations Discussion of all Posters of Session 1 in front of the Panels	<b>Session 3</b> <b>Topics: A, K, F</b> Short Lecture Presentations Discussion of all Posters of Session 3 in front of the Panels
15:00		
15:30		
16:00		
16:30		
17:00		
17:30		
18:00		
	18:30 Welcome Reception at EPFL	

Wednesday - Thursday

OVERVIEW

Time	WEDNESDAY	THURSDAY
8:00		
8:30	Time to fix Posters	
9:00	<b>Session 4</b> <b>Topics: C, H, M</b>	<b>Industry Speakers</b> on typical materials professions
9:30	Short Lecture Presentations	
10:00		
10:30	Discussion of all Posters of Session 4 in front of the Panels	<b>Discussion Forum</b> with the Industry Speakers
11:00		
11:30		
12:00		<b>Award Presentation</b> Best posters of the conference
12:30		
13:00	Lunch	<b>Closing Address</b> End of the conference
13:30		
14:00		
14:30	<b>Industry Speakers</b> on typical materials professions	
15:00		
15:30		
16:00	<b>Discussion Forum</b> with the Industry Speakers	
16:30		
17:00		
17:30		
18:00		
	19:30 Festival on the beach	

Monday, 14 July 2008, 8:00 - 12:30 h

OPENING / ORAL POSTER PRESENTATION

Time/ Poster No.	Lecture Hall B and Poster Area I - Session 1 -
8.00 - 10:00	<b>Registration</b>
10:00	<b>Opening Adress</b> Welcome by Representatives of the Sponsors
10:30	<b>Research Grants for Young Materials Scientists</b> P. D. Portella, German Federal Institute for Materials Research and Testing
11:00	<b>Session 1</b> <b>Topic: N</b> <b>Nanostructured Materials</b>
01/N41	<b>Mechanical and Fracture Mechanical Investigations of Polymeric Nanocomposites</b> A. Monami (Sp), K. Reincke, W. Grellmann, Martin Luther University Halle (Germany); B. Kretschmar, Leibniz Institute of Polymer Research Dresden (Germany)
02/N77	<b>Surface Characteristics, Wettability and Biofunctional Properties of Magnetron-Sputtered Amorphous Carbon Coatings</b> F. Danneil (Sp), M. Stüber, H. Vasilchina, S. Ulrich, A. Welle, Forschungszentrum Karlsruhe GmbH, Eggenstein-Leopoldshafen (Germany)
03/N78	<b>Nucleation and Plasma Enhanced Chemical Vapor Deposition of Ultrananocrystalline Diamond Films on Different Substrates</b> M. Karaskova (Sp), L. Zajickova, V. Bursikova, O. Jasek, D. Franta, Masaryk University, Brno (Czech Republic); J. Matejkova, The Academy of Sciences of the Czech Republic, Brno (Czech Republic); P. Klapetek, Czech Metrology Institute, Brno (Czech Republic)
04/N79	<b>Electrospun Nanofiber Textile Modified by Carbon Coatings</b> Z. Rozek (Sp), Technical University of Liberec (Czech Republic); W. Kaczorowski, Technical University of Lodz (Poland); D. Lukas, P. Louda, Technical University of Liberec (Czech Republic); S. Mitura, Technical University of Lodz (Poland)
05/N116	<b>Mesoscopic Structure of Self-Organized Nanoporous Anodic Aluminas</b> K. Suomolaynen (Sp), N.M. Yakovleva, A.A. Yakovleva, O.I. Savchenko, Karelian State Pedagogical University, Petrozavodsk (Russian Federation)
* = no oral presentation	

Monday, 14 July 2008, 8:00 - 12:30 h

ORAL AND POSTER PRESENTATION

Time/ Poster No.	Lecture Hall B and Poster Area I - Session 1 -
06/N124	<b>Nanocrystallography of Carbonic System and Influence of Structural Properties on Their Physical Characteristics</b> M. Stanescu (Sp), V. Ciupina, G. Prodan, M. Prodan, V. Mocanu, Ovidius University, Constanta (Romania); E. Vasile, S.C.Metav CD, Bucharest (Romania)
07/N133	<b>Bulk Micro and Nanostructured Austempered Ductile Irons</b> S. Vassileva (Sp), Bulgarian Academy of Science, Sofia (Bulgaria)
08/N135	<b>Low-Temperature Synthesis of Ceria Based Ceramics by Combustion Method</b> E. Stefan (Sp), D. Neagu, S. Stoleriu, C. Matei, Politehnica University of Bucharest (Romania)
09/N136	<b>Evaluation of Two Soft Chemistry Routes for Obtaining Gd/Sm Doped Ceria Ceramics</b> D. Neagu (Sp), E. Stefan, S. Stoleriu, D. Berger, Politehnica University of Bucharest (Romania)
10/N154	<b>The Study of Cathodes for the Li-Air Battery</b> K. Ciosek (Sp), R. Younesi, K. Edström, Uppsala University (Sweden)
11/N177	<b>Nanostructure Electrodes for 3D Li-Ion Microbatteries</b> S.K. Cheah (Sp), E. Perre, A. Hårsta, Uppsala University (Sweden); P. Simon, Universite Paul Sabatier, Toulouse (France); K. Edström, Uppsala University (Sweden)
12/N184	<b>Adhesion Properties of Chemical Nickel Coating on Aluminium Alloys</b> G. Szirmai (Sp), University of Miskolc, Miskolcápolca (Hungary); N. Hegman, Bay Zoltán Foundation Institute of Nanotechnology, Miskolc (Hungary); T. Török, University of Miskolc, Miskolcápolca (Hungary)
13/N189	<b>Morphological and Wear Resistance Characterization of TiAlCrSiN Nanostructured Coatings</b> R.P. Martinho (Sp), Instituto Politécnico do Porto, Vila do Conde (Portugal); F.J.G. Silva, Instituto Superior de Engenharia do Porto (Portugal); R.J.D. Alexandre, Tecnologia e Engenharia de Materiais, S.A., Coimbra (Portugal); A.P.M. Baptista, Universidade do Porto (Portugal)
* = no oral presentation	

Monday, 14 July 2008, 8:00 - 12:30 h

ORAL AND POSTER PRESENTATION

Time/ Poster No.	Lecture Hall B and Poster Area I - Session 1 -
14/N199	<p><b>Nanocomposites Based on Ir-Pyrolised Poly (Acrylonitrile) and Co-Gd (Gd)</b></p> <p>K. Bagdasarova (Sp), G. Karpacheva, L. Zemtsov, Russian Academy of Science, Moscow (Russian Federation); E. Dzidziguri, Moscow State Institute of Steel and Alloys (Russian Federation); N. Petrov, Moscow State University (Russian Federation); E. Sidorova, Moscow State Institute of Steel and Alloys (Russian Federation)</p>
15/N230	<p><b>Homogeneity of Mechanically Alloyed Nano-Crystalline Fe-Cu-Powders</b></p> <p>C. Wille (Sp), T. Al-Kassab, University of Goettingen (Germany); P.-P. Choi, Korea Institute of Science and Technology, Seoul (Korea, Republic); R. Kirchheim, University of Goettingen (Germany)</p>
16/N240	<p><b>Electrochemical Fabrication of Supported Ni Nanostructures through Transferred Porous Anodic Alumina Mask</b></p> <p>F. Muscolino (Sp), P. Cojocar, L. Magagnin, P.L. Cavallotti, Politecnico di Milano (Italy)</p>
17/N283	<p><b>Electrospinning – Solvent is Key</b></p> <p>D. Lubasova (Sp), Technical University of Liberec (Czech Republic)</p>
18/N290	<p><b>Hexagonally Arranged Nickel Quantum Dots Formed by Self-Organized Anodization of Ni3Al in Oxalic Acid</b></p> <p>W. Stepniowski (Sp), Z. Bojar, Military University of Technology, Warsaw (Poland)</p>
19/N303	<p><b>Application of Surface-Enhanced Raman Scattering (SERS) Method on Silver Nanoparticle-Doped Polyvinyl Alcohol Coated Indium Tin Oxide (ITO) Surface</b></p> <p>S. Karabacak (Sp), A.M. Onal, M. Volkan, Middle East Technical University, Ankara (Turkey)</p>
20/N304*	<p><b>Preparation of SERS Active Substrate Using Core-Shell Bimetallic Nanoparticles</b></p> <p>M. Kaya (Sp), M. Volkan, Middle East Technical University, Ankara (Turkey)</p>
21/N306	<p><b>Characterisation of Nanostructured Niti Alloys Prepared by Mechanical Alloying</b></p> <p>S. Tria (Sp), O. Elkedim, F. Bernard, University of Technology BM, Belfort (France)</p>
* = no oral presentation	

Monday, 14 July 2008, 8:00 - 12:30 h

ORAL AND POSTER PRESENTATION

Time / Poster No.	Lecture Hall B and Poster Area I - Session 1 -
22/N317	<b>Structural and Optical Properties of Si Nanocrystals Embedded in SiO/SiN Multilayers</b> F. Delachat (Sp), M. Carrada, G. Ferblantier, J.J. Grob, J.P. Stoquert, A. Slaoui, CNRS, Strasbourg (France)
23/N318	<b>Preparation and Characterization of Silver Nanorods</b> R. Sanci (Sp), M. Volkan, Middle East Technical University, Ankara (Turkey)
24/N329	<b>Neuronal Growth on Carbon Nanotubes</b> K. Kepple (Sp), R. Camacho, J. Flicker, V. Mukhatyar, J. Ready, Georgia Institute of Technology, Atlanta, GA (USA)
12:30	Lunch
14:30	<b>Session 1</b> <b>Topic: D</b> <b>Fundamental Aspects</b>
01/D3*	<b>Electron Energy Loss Spectroscopy Study of the Near Surface Region of the Ternary Co-Cr-Mo Alloy</b> V. Tinkov (Sp), M.A. Vasylyev, National Academy of Science of Ukraine, Kiev (Ukraine)
02/D19	<b>Radiation-Stimulated Reactive Diffusion at Formation of TiSi<sub>2</sub> (C54) Phase</b> S. Bogdanov (Sp), V.F. Mazanko, E.I. Bogdanov, National Academy of Science of Ukraine, Kiev (Ukraine)
03/D44	<b>Correlation Investigation between High Temperature Creep and Diffusion for Equiatomic NiTi Alloys</b> V. Taillebot (Sp), C. L'excellent, University of Franche-Comté, Besancon (France); J. Bernardini, Université Paul Cézanne, Marseille (France); D.L. Beke, University of Debrecen (Hungary)
04/D85*	<b>Austenite Nucleation and Growth Measured on the Level of Individual Grains Using 3DXRD Microscopy</b> V. Savran (Sp), S.E. Offerman, N.H. van Dijk, J. Sietsma, Technische Universiteit Delft (Netherlands)
* = no oral presentation	

Monday, 14 July 2008, 14:30 - 18:00 h

ORAL AND POSTER PRESENTATION

Time/ Poster No.	Lecture Hall B and Poster Area I - Session 1 -
05/D166	<b>Modeling of Microstructure Evolution during Heat Treatment of Titanium Alloy Ti-17</b> P. Di Napoli (Sp), B. Appolaire, E. Gautier, Ecole des Mines de Nancy (France)
06/D253	<b>The Influence of Elastic Strain onto the Early Stage of Decomposition in Cu1,7at.%Fe</b> T. Rademacher (Sp), T. Al-Kassab, R. Kirchheim, University of Göttingen (Germany)
07/D278	<b>Prediction of Martensite in Ausferritic Matrix Structure of Austempered Ductile Irons</b> S. Vasseva, Bulgarian Academy of Science, Sofia (Bulgaria); L. Vassileva (Sp), Technical University of Sofia (Bulgaria)
08/D282	<b>Phase-Field Simulations of the Morphological Change of the Gamma-Prime Phase in Ni-Based Superalloys</b> Y. Tsukada (Sp), Y. Murata, Nagoya University (Japan); T. Koyama, National Institute for Materials Science, Tsukuba (Japan); M. Morinaga, Nagoya University (Japan)
<b>Session 1</b>	
<b>Topic: G</b>	
<b>Polymers</b>	
01/G4	<b>A General Study of Polypropylene Thermal Oxidation during Its Processing by Rotomoulding</b> S. Sarabi (Sp), X. Colin, A. Tcharkhtchi, Arts et Métiers ParisTech (France)
02/G33	<b>Thermal, Thermomechanical and Rheological Investigation of PP/PP-g-MAH/SGFR PA66 Reinforced Blends: The Effect of PP-g-MAH as a Compatibilizer</b> Z. Safidine (Sp), UER of Applied Chemistry, Algiers (Algeria); S. Fellahi, IAP Boumerdes (Algeria); H.-J. Radusch, Martin Luther University, Halle (Germany)
03/G52*	<b>Filament Wound Composite Pressure Cylinders</b> J. Veloso (Sp), J.C. Pereira, J.P. Nunes, University of Minho, Guimarães (Portugal); J.F. Silva, ISEP, Porto (Portugal); A.T. Marques, Universidade do Porto, Leça do Balio (Portugal)
* = no oral presentation	

Monday, 14 July 2008, 14:30 - 18:00 h

ORAL AND POSTER PRESENTATION

Time/ Poster No.	Lecture Hall B and Poster Area I - Session 1 -
04/G60	<b>Rubber Re-Vulcanisation</b> Z. Hrdlicka (Sp), Institute of Chemical Technology Prague (Czech Republic); M. Hrdlickova, Institute of Macromolecular Chemistry AS CR, v.v.i., Prague (Czech Republic); A. Kuta, V. Duchacek, Institute of Chemical Technology Prague (Czech Republic)
05/G65	<b>Modelling and Optimization of Fibre Orientation Distribution in SMC Parts</b> A. Londoño-Hurtado (Sp), L. Marks, G. Ziegmann, Technical University of Clausthal, Clausthal-Zellerfeld (Germany); T.A. Osswald, University of Wisconsin-Madison, WI (Germany)
06/G73	<b>Composite Non-Pneumatic Bicycle Tire</b> K. Kumar (Sp), G. Schar, University of Rostock (Germany)
07/G76	<b>Effect of Y2O3 on the Mechanical Properties and Microstructure of Carbon Nanotube-Reinforced Al2O3 Nanocomposite</b> I. Ahmad (Sp), Y. Zhu, A. Kennedy, The University of Nottingham (UK); H. Cao, H. Chen, H. Zhao, China University of Mining and Technology, Beijing (China)
08/G104	<b>Modification of Textile Material after Plasma Treatment at Atmospheric Pressure</b> M. Wolfová (Sp), R. Szabova, L. Cernakova, I. Hudec, Slovak University of Technology, Bratislava (Slovak Republic)
09/G113*	<b>Switching Effect of Metal-Polymer-Metal Structure Induced by Phase Transition in the Metal</b> I. Nabiullin (Sp), A.N. Lachinov, Russian Academy of Sciences, Ufa (Russian Federation)
10/G120	<b>Biodegradable Polymer Blend for Packaging</b> I. Vaskova (Sp), P. Alexy, P. Bugaj, A. Nahalkova, Slovak University of Technology, Bratislava (Slovak Republic); J. Hoffmann, M. Julinova, Tomas Bata University, Zlin (Czech Republic)
11/G132*	<b>Study of the Thermal-Oxidative Stability of Polybenzoheterocyclic Binder</b> R. Mukhametov (Sp), V. Minakov, L. Chursova, K. Akhmadieva, Federal State Unitary Enterprise, Moscow (Russian Federation)
* = no oral presentation	

Monday, 14 July 2008, 14:30 - 18:00 h

ORAL AND POSTER PRESENTATION

Time/ Poster No.	Lecture Hall B and Poster Area I - Session 1 -
12/G143	<b>Composites Based on Geopolymer Matrices: Preliminary Fabrication, Mechanical Properties and Future Applications</b> H. Tran Doan (Sp), D. Kroisová, Technical University of Liberec (Czech Republic); O. Bortnovsky, Research Institute of Inorganic Chemistry, Inc., Ústí nad Labem (Czech Republic); P. Louda, D. Pernica, Technical University of Liberec (Czech Republic)
13/G180	<b>Material Development for Dielectric Elastomer Actuators</b> M. Molberg (Sp), D. Opis, C. Löwe, Swiss Federal Laboratories for Materials Testing and Research, Dübendorf (Switzerland); C. Plummer, Y. Leterrier, Ecole Polytechnique Fédérale de Lausanne (Switzerland)
14/G220	<b>Anisotropy - The Basic Parameter for Fatigue Studies of Fiber Reinforced Polymers</b> C. Guster (Sp), Polymer Competence Center Leoben GmbH (Austria); G. Pinter, W. Eichsleder, R.W. Lang, University of Leoben (Austria)
15/G243	<b>Structure of Rubrene Thin Films Grown on Different Substrates</b> S.M. Abd Al-Baqi (Sp), G. Hernandez-Sossa, M. Ullah, C. Simbrunner, H. Sittera, Johannes Kepler Universität Linz (Austria); G. Hlawacek, H. Xiaoming, C. Teichert, University of Leoben (Austria); T. Djuric, R. Reselc, A. Thierry, Institut Charles Sadron, Strasbourg (France)
16/G287	<b>Biodegradable Aromatic-Aliphatic Copolyesters Based on Poly(Ethylene terephthalate) from Disposed PET Bottles Suitable for Melt-Electrospinning</b> J. Tureckova (Sp), I. Prokopova, Institute of Chemical Technology, Prague (Czech Republic); M. Komarek, Technical University in Liberec (Czech Republic); J. Nahlík, Institute of Chemical Technology, Prague (Czech Republic); V. Sasek, C. Novotny, Institute of Microbiology at a Glance, Prague (Czech Republic)
17/G319	<b>Synthesis and Study of Novel Main Chain Liquid Crystalline Elastomers</b> A. Garcia Marquez (Sp), B. Donnio, D. Guillon, Université Louis Pasteur, Strasbourg (France); H. Finkelmann, University of Freiburg (Germany)
18/G114	<b>Improved Surface Properties of Polyethylene Films by Atmospheric Pressure Plasma Treatment</b> A. Oravcova (Sp), I. Hudec, V. Sestakova, Slovak University of Technology in Bratislava (Slovak Republic); T. Homola, Comenius University, Bratislava (Slovakia)
* = no oral presentation	

Monday, 14 July 2008, 14:30 - 18:00 h

ORAL AND POSTER PRESENTATION

Time/ Poster No.	Lecture Hall B and Poster Area I - Session 1 -
	<b>Session 1</b> <b>Topic: I</b> <b>Surface Engineering</b>
01/115	<b>Shark Skin for High Temperature Applications - A Flow Optimized Protective Coating</b> C. Büttner (Sp), M. Fröhlich, U. Schulz, German Aerospace Center, Köln (Germany)
02/142	<b>Improving Alumo Sol Wetting Properties for Easier Coating Applications</b> M. Feigl (Sp), M. Nofz, Federal Institute for Materials Research and Testing, Berlin (Germany)
03/151	<b>Study of the Effect of Surface Finishing on the Properties of Protective Coatings</b> L. Dobrovodská (Sp), J. Podjuklová, K. Pelikánová, K. Hrabovská, Technical University of Ostrava (Czech Republic)
04/157	<b>Influence Size of Day Inorganic Components on Brittle Fracture Properties of Vitreous Enamel Coatings</b> K. Pelikánová (Sp), J. Podjuklová, K. Hrabovská, L. Dobrovodská, VSB - Technical University of Ostrava (Czech Republic)
05/161	<b>Influence of the Cryogenic Treatment on Properties of Shot-Peened W300 Hot Working Tool Steel</b> A. Ciski (Sp), Z. Latas, Institute of Precision Mechanics, Warsaw (Poland)
06/186	<b>Triboplasma Induced by Tribo-Electrification for Polymer Surface Modification</b> S. Taormina (Sp), Y. Kusano, P.K. Michelsen, Technical University of Denmark, Roskilde (Denmark)
07/192	<b>Rapid Prototyping of Porous HAP/SiO<sub>2</sub> Implants by Laser Surface Sintering (LSS)</b> E. Kivitz (Sp), J.G. Heinrich, Technical University of Clausthal, Clausthal-Zellerfeld (Germany)
08/195	<b>Surface Modification of the Dental Co-Cr-Mo Alloy Induced by Laser Irradiation</b> V. Filatova (Sp), M.A. Vasylyev, P.A. Gurin, NAS Ukraine, Kiev (Ukraine)
* = no oral presentation	

Monday, 14 July 2008, 14:30 - 18:00 h

ORAL AND POSTER PRESENTATION

Time/ Poster No.	Lecture Hall B and Poster Area I - Session 1 -
09/198	<b>Structure of Optical and Photocatalytic TiO<sub>2</sub> Films Deposited from TiCl<sub>4</sub>/O<sub>2</sub> Mixture Using RF PECVD Method</b> A. Sobczyk-Guzenda (Sp), H. Szymanowski, M. Gazicki-Lipman, T. Halamus, Technical University of Lodz (Poland); A. Tracz, Polish Academy of Sciences, Warsaw (Poland)
10/1129	<b>An Application of PECVD Technique to the Manufacture of Stack Multilayer Optical Filter on a Polyester Substrate</b> J. Kowalski (Sp), H. Szymanowski, M. Gazicki-Lipman, Technical University of Lodz (Poland)
11/1212	<b>Cells and Biomolecules Transfers on Biomaterials Using Laser Induced Forward Transfer (LIFT) Process</b> A. Souquet (Sp), Université Bordeaux 2 (France); M. Faucon, J. Lopez, Université Bordeaux 1, Talence (France); R. Bareille, M.-C. Durrieu, J. Amédée, F. Guillemot, Université Bordeaux 2 (France)
12/1270	<b>Surface Improvement: Coatings from Cluster Materials</b> E. Sala Bosch (Sp), M. Köckerling, University of Rostock (Germany)
<b>Session 1</b>	
<b>Topic: L</b>	
<b>Materials Characterisation</b>	
01/L6	<b>Thermal Shock Testing of Ceramics</b> R. Pulz (Sp), B. Rehmer, C. Glaubitz, Federal Institute for Materials Research and Testing, Berlin (Germany)
02/L31*	<b>Ultrasonic Velocity and Attenuation Measurements in Welds</b> F. Boukazouha (Sp), S. Djili, R. Halimi, Centre de Soudage et Contrôle Chéraga, Algiers (Algeria)
03/L35	<b>The Effect of the Protons Irradiation on the Electrical Properties of Thin Polycrystalline CdS Layers</b> V. Ghenescu (Sp), Institute for Space Sciences, Bucharest-Magurele (Romania); L. Ion, University of Bucharest (Romania); M. Ghenescu, Institute for Space Sciences, Bucharest-Magurele (Romania); R. Bazavan, C. Tazlaoanu, D. Bazavan, M. Gugiu, S. Antohe, University of Bucharest (Romania)
* = no oral presentation	

Monday, 14 July 2008, 14:30 - 18:00 h

ORAL AND POSTER PRESENTATION

Time/ Poster No.	Lecture Hall B and Poster Area I - Session 1 -
04/L54	<b>Non-Destructive Techniques Based on Optical Fiber Sensors for Monitoring of High Pressure Composite Vessels for Hydrogen</b> P. Gasior (Sp), J. Kaleta, Wroclaw University of Technology (Poland)
05/L102	<b>Experimental Analysis of Localization Phenomena in NiTi Shape Memory Alloys Using an Alternating Current Potential Drop Sensor</b> A. Schäfer (Sp), J. Olbricht, Ruhr-University Bochum (Germany); J. Pelegrina, Conicet & Centro Atomico, Bariloche (Argentina); M. Wagner, G. Eggeler, Ruhr-University Bochum (Germany)
06/L107	<b>Preparation of Bifeo3 and Bimno3 Powders by Mechanochemical Activation</b> M. Golgojan (Sp), Romanian Academy, Bucharest (Romania); C. Nistor, National Research & Development Institute for Chemistry & Petrochemistry, Bucharest (Romania); V. Fruth, M. Zaharescu, Romanian Academy, Bucharest (Romania)
07/L110	<b>Investigation of Microstructure Inhomogeneity and Hardness in Hot and Cold Pressed SiCp-Reinforced Aluminum Matrix Composites</b> A. Makszimus (Sp), Z. Gacsi, University of Miskolc, Miskolctapolca (Hungary); C. Hakan Gur, Middle East Technical University, Ankara (Turkey); T. Pieczonka, University of Mining and Metallurgy, Cracow (Poland)
08/L123	<b>Determination of Lattice Parameters Variation between 93 K and 300 K for Ti-Al(Gamma) by CBED</b> G. Brunetti (Sp), E. Bouzy, J.J. Fundenberger, CNRS, Metz (France); A. Marawiec, Polish Academy of Sciences, Krakow (Poland)
09/L145	<b>Characterisation of the Structure of a356 Alloy Produced by Rotating Magnetic Stirring</b> G. Gergely (Sp), Z. Gácsi, O. Bánhidi, J. Kovács, A. Rónaföldi, University of Miskolc, Miskolctapolca (Hungary)
10/L153	<b>Characterisation of Nonmetallic Inclusions by Automated SEM/EDX Analyses</b> S. Penz (Sp), University of Leoben (Austria)
* = no oral presentation	

Monday, 14 July 2008, 14:30 - 18:00 h

ORAL AND POSTER PRESENTATION

Time/ Poster No.	Lecture Hall B and Poster Area I - Session 1 -
11/L161	<b>Influences of the Chemical Composition of Polymers on Properties of Polymer Cement Concrete</b> S. Bode (Sp), A. Dimmig-Osburg, Bauhaus-University Weimar (Germany)
12/L165	<b>New Measurement Method for Crystallization Temperature of Thin Film Amorphous Alloy</b> Y. Aono (Sp), S. Hata, J. Sakurai, A. Shimokohbe, Tokyo Institute of Technology, Yokohama (Japan)
13/L198	<b>3D-Quantification of the Fibre Distribution in Unidirectional Reinforced Composites</b> G. Fiedler (Sp), G. Requena, B. Seiser, H.P. Degischer, Vienna University of Technology (Austria); T. Buslaps, D. Michieli, ESRF Grenoble (France); E. Cornelis, University of Antwerp (Belgium)
14/L219	<b>Microstructure and Mechanical Properties of a Hot-Work Tool Steel</b> S. Mayer (Sp), C. Scheu, H. Leitner, University of Leoben (Austria); I. Siller, Böhler Edelstahl GmbH, Kapfenberg (Austria); H. Clemens, University of Leoben (Austria)
15/L245	<b>Damage Detection and Evaluation on Pre-Cracked Specimen</b> T. Felsner (Sp), A. Schweikert, T. Felsner, J. Bär, H.-J. Gudladt, Universität der Bundeswehr, Neubiberg (Germany)
16/L261	<b>Correlation between Structured and Infrared-Optical Properties of Nano-Composite Materials</b> G. Tzschichholz (Sp), G. Steinborn, Federal Institute for Materials Research and Testing, Berlin (Germany); M.H. Keller, J. Manara, Bavarian Center for Applied Energy Research, Würzburg (Germany)
17/L263	<b>Semiconductor Quantum Dots Investigated by X-Ray Diffraction, Scanning Laser Microscopy and Atomic Force Microscopy</b> S.G. Stanciu (Sp), R. Hristu, G.A. Stanciu, University "Politehnica" of Bucharest (Romania)
18/L266	<b>X-Ray Fluorescence Analysis of Sn-Pb and Lead-Free Solders</b> <b>D. Koncz-Horváth (Sp), Z. Gacsi, University of Miskolc, Miskolctapolca</b> (Hungary); A. Szabó, J. Bibokne, Robert Bosch GmbH, Hatvan (Hungary)
* = no oral presentation	

Monday, 14 July 2008, 14:30 - 18:00 h

ORAL AND POSTER PRESENTATION

Time/ Poster No.	Lecture Hall B and Poster Area I - Session 1 -
19/L322	<b>In-Situ High Temperature X-Ray Diffraction of Polymer Derived Ceramics</b> M. Kappa (Sp), M. Scheffler, Brandenburg University of Technology, Cottbus (Germany)
20/L328	<b>Specimen Configurations for Gleeble Dilatometry</b> C.J.P. Samuel (Sp), S. Viswanathan, The University of Alabama, Tuscaloosa, AL (USA)
21/L244	<b>Electrochemical Investigation on Thin Titanium Oxide Films Formed by Electrolytic and Thermal Oxidation - A Comparing Study</b> S. Schroth, M. Weiser (Sp), Technical University of Dresden (Germany); M. Schneider, Fraunhofer Institute for Ceramic Technologies and Systems, Dresden (Germany); A. Michaelis, Technical University of Dresden (Germany)
22/L111	<b>Thermal Analysis of PbI<sub>2</sub> Intercalate with Anorganic or Organic Molecules</b> C. Andronescu (Sp), J. Pandelescu, Romanian Academy, Bucharest (Romania); M. Golgojan, National Institute for Physics of Materials, Lab. Optics and Spectroscopy, Bucharest (Romania); N. Preda, National Institute for Physics of Materials, Bucharest (Romania); V. Fruth, Romanian Academy, Bucharest (Romania)
17:00-18:00	Discussion of all Posters of Session 1 in front of the Panels
18:30	Welcome Reception at EPFL
* = no oral presentation	

Tuesday, 15 July 2008, 9:30 - 12:30 h

ORAL AND POSTER PRESENTATION

Time/ Poster No.	Lecture Hall B and Poster Area I - Session 2 -
9:30	<b>Session 2</b> <b>Topic: B</b> <b>Magnetic Properties Superconductivity Electronic Materials</b>
01/B43	<b>Simulation of a Nano-Scale Magnetic Switch</b> V. Pankoke (Sp), S. Gemming, Forschungszentrum Dresden-Rossendorf e.V. (Germany)
02/B59	<b>Co-Firing of Barium Titanate-Based Capacitors with Ag-Electrodes and LTCC-Dielectrics at 900 °C</b> H. Naghib-zadeh (Sp), C. Glitzky, T. Rabe, Federal Institute for Materials Research and Testing, Berlin (Germany)
03/B150	<b>Examining the Magnetomechanical Properties of Composites on the Basis of Powders of Giant Magnetostrictive Material</b> R. Mech (Sp), J. Kaleta, D. Lewandowski, Wroclaw University of Technology (Poland)
04/B291	<b>Magneto-Optic Investigations on the Dynamics of the Switching Behavior of TMR Structures</b> G. Wolf (Sp), A. Para-Conca, H. Schultheiss, B. Leven, B. Hillebrands, University of Kaiserslautern (Germany); K. Rott, G. Reiss, Universität Bielefeld (Germany)
05/B297	<b>Spin Waves and Domain Walls in Ni81Fe19 Nanowires</b> C. Sandweg (Sp), S.J. Hermsdörffer, H. Schultheiss, P.A. Beck, B. Leven, B. Hillebrands, University of Kaiserslautern (Germany); N. Wiese, D. McGrouther, S. McVitie, J.N. Chapman, University of Glasgow (UK)
06/B313	<b>New Composites Materials for Electromagnetic Shielding</b> E. Manta (Sp), E. Patroi, W. Kappel, C. Morari, M.M. Codescu, A. Iorga, E. Remus, I. Balan, R&D National Institute for Electrical Engineering, Bucharest (Romania)
* = no oral presentation	

Tuesday, 15 July 2008, 9:30 - 12:30 h

ORAL AND POSTER PRESENTATION

Time/ Poster No.	Lecture Hall B and Poster Area I - Session 2 -
	<b>Session 2</b> <b>Topic: E</b> <b>Metals</b>
01/E7	<b>Axial-Torsional Thermo-Mechanical Fatigue of a Near-Gamma Titanium Aluminide Alloy</b> S. Brookes (Sp), H.-J. Kühn, B. Skrotzki, H. Klingelhöffer, R. Sievert, Federal Institute for Materials Research and Testing, Berlin (Germany); J. Pfetzinger, G. Eggeler, Ruhr-University Bochum (Germany)
02/E8	<b>Billet Quenching - New Thermomechanical Treatment for Extrusion of 2XXX Aluminium Alloys</b> R. Barbic (Sp), Impol d.d., Slovenska Bistrica (Slovenia); A. Smolej, University of Ljubljana, (Slovenia); V. Dragojevic, Impol d.d., Slovenska Bistrica (Slovenia)
03/E14	<b>Thermal Stability of Al-Fe-Mn-Si Foils Prepared from Accumulative Roll Bonded Sheets</b> P. Homola (Sp), M. Slamova, VUK Panenske Brezany, s.r.o., Odolena Voda (Czech Republic); M. Cieslar, Charles University, Prague (Czech Republic)
04/E16	<b>Influence of Foaming Agents on the Generation of Pores in Laser Induced Ti-Foaming Process for Biomedical Applications</b> A.A. Shaikh (Sp), Leibniz Universität Hannover (Germany); S. Dudziak, O. Meier, Laser Zentrum Hannover (Germany); T.M. Gesing, Leibniz Universität Hannover (Germany)
05/E37	<b>Study on Cryorolling of Al-Cu-TiB<sub>2</sub>p in Situ Composite</b> K. Sivaprasad, V.V. Ravi Kumar, S.P. Kumaresh Babu (Sp), National Institute of Technology, Tiruchirappalli (India)
06/E39	<b>Mechanical and Microstructural Observations during Creep of a Hot-Extruded Ti-45Al-5Nb-0.2B-0.2C Alloy in the 700-800 °C Temperature Range</b> D. Peter (Sp), Ruhr-University Bochum (Germany); G.B. Viswanathan, The Ohio State University, Columbus, OH (USA); M.F.-X. Wagner, G. Eggeler, Ruhr-University Bochum (Germany)
* = no oral presentation	

Tuesday, 15 July 2008, 9:30 - 12:30 h

ORAL AND POSTER PRESENTATION

Time/ Poster No.	Lecture Hall B and Poster Area I - Session 2 -
07/E48	<p><b>Development of Composition and Technology of Nb3Al-Base Granulated Alloy with Operation Temperature is higher 1970K for the Heat-Stressed Gas Turbine Units</b></p> <p>I. Logachev (Sp), Moscow Institute of Steel and Alloys (Russian Federation); A. Logunov, A. Logacheva, JSC "Kompozit", Korolev (Russian Federation); P. Taran, K. Kosyrev, Moscow Institute of Steel and Alloys (Russian Federation); K. Nikonov, JSC "Kompozit", Korolev (Russian Federation)</p>
08/E62	<p><b>Processing Reduced-Density Copper Composites</b></p> <p>C. Krüger (Sp), V. Laporte, A. Mortensen, Ecole Polytechnique Fédérale de Lausanne (Switzerland)</p>
09/E66*	<p><b>Prediction of Enthalpies of Formation of Binary Transition Metal Alloys</b></p> <p>H. Krarcha (Sp), A. Belgacem Bouzida, University of Batna (Algeria)</p>
10/E74	<p><b>Texture and Anisotropy of Twin-Roll Cast Al-Mg Alloys</b></p> <p>J. Uhlir (Sp), M. Slamova, VUK Panenske Brezany, s.r.o., Odolena Voda (Czech Republic)</p>
11/E96	<p><b>Melting of Nb-Containing TiAl Alloys in Refractory Crucibles</b></p> <p>T. Bartak (Sp), Brno University of Technology (Czech Republic); K. Docekalova, Honeywell Turbo Technologies, Brno (Czech Republic); L. Zemcik, Brno University of Technology (Czech Republic); A. Dlouhy, Academy of Science of Czech Republic, Brno (Czech Republic)</p>
12/E97	<p><b>Microstructure and Tensile Mechanical Properties of Multiphase Beta-Solidifying Gamma-TiAl Based Alloys</b></p> <p>T. Oleneva (Sp), V. Imayev, R. Imayev, T. Khismatullin, Institute for Metals Superplasticity Problems, Ufa (Russian Federation)</p>
13/E101	<p><b>Effect of Carbon Addition on FeAl Based Alloys</b></p> <p>P. Prokopcakova (Sp), Technical University of Liberec (Czech Republic)</p>
14/E108	<p><b>Microstructural and Mechanical Properties of Titanium and Titanium Matrix Composites under the Influence of Raw Powders and Processing Conditions</b></p> <p>I. Montealegre Meléndez (Sp), E. Neubauer, G. Mozdzen, J.M. Torralba, Austrian Research Centers GmbH, Seibersdorf (Austria)</p>
* = no oral presentation	

Tuesday, 15 July 2008, 9:30 - 12:30 h

ORAL AND POSTER PRESENTATION

Time/ Poster No.	Lecture Hall B and Poster Area I - Session 2 -
15/E126	<b>Warm Deformation Behaviour of Precipitation Hardened AA 6016 Alloy</b> M. Kumar (Sp), C. Poletti, H.P. Degischer, Vienna University of Technology (Austria)
16/E127	<b>Investigation Structure and Properties Coatings on a Base 44Ni-56Ti System which is Obtained by Self-Propagating High-Temperature Synthesis with Electron Beam Surface Melting</b> I. Murashova (Sp), National Academy of Sciences, Minsk (Belarus)
17/E130*	<b>Development of High-Temperature wrought Nickel-Base Superalloy for New Generation Gas Turbine Engine Discs</b> M. Bakradze (Sp), B. Lomborg, S. Ovsepyan, Federal State Unitary Enterprise, Moscow (Russian Federation)
18/E164	<b>Production of Electroless Nickel-Plated SiC Particles Reinforced Metal Matrix Composite</b> J. Pázmán (Sp), T. Ferenczi, T. Török, Z. Gácsi, University of Miskolc, Miskolctapolca (Hungary)
19/E169	<b>Nickel Alloys for Subcritical Reactors</b> P. Podan (Sp), University of West Bohemia, Plzen (Czech Republic); L. Kraus, P. Motyska, COMTES FHT, Plzen (Czech Republic)
20/E185	<b>Microstructure Analysis of High Pressure Die Castings</b> M. Tokár (Sp), T. Mende, University of Miskolc, Miskolctapolca (Hungary)
21/E193	<b>Thermal Properties of Ni-Mn-Ga Based Magnetic Shape Memory Alloys</b> M. Frost (Sp), A. Rudajevova, Charles University, Prague (Czech Republic)
22/E202	<b>Evolution of Ni/Al Multilayer Thin Films with Temperature</b> S. Simões (Sp), F. Viana, University of Porto (Portugal); A.S. Ramos, M.T. Vieira, University of Coimbra (Portugal); M.F. Vieira, University of Porto (Portugal)
* = no oral presentation	

Tuesday, 15 July 2008, 9:30 - 12:30 h

ORAL AND POSTER PRESENTATION

Time/ Poster No.	Lecture Hall B and Poster Area I - Session 2 -
23/E203	<p><b>Microstructures and Properties of NiTi Ribbons in Different Conditions of Melt-Spinning Process</b> K. Mehrabi (Sp), University of Leoben (Austria); M. Bruncko, University of Maribor (Slovenia); B. McKay, A.C. Kneissl, University of Leoben (Austria)</p>
24/E209	<p><b>Evaluation of Images Recorded by Fast X-Ray Radioscopy in Liquid Metals</b> S. Beke (Sp), N. Babcsán, Bay Zoltán Foundation for Applied Research, Miskolc (Hungary); F. Garcia Moreno, J. Banhart, Helmholtz Centre Berlin (Germany)</p>
25/E213	<p><b>Voluminal Forming of Forged Pieces</b> B. Kuretova (Sp), M. Greger, VSB-Technical University of Ostrava (Czech Republic)</p>
26/E223	<p><b>Fabrication of Aluminium Foam from Melt Stabilized by Soluble Ultra-Fine Aluminium Powders</b> A. Adamcikova (Sp), J. Kovacik, Slovak Academy of Sciences, Bratislava (Slovak Republic)</p>
27/E225	<p><b>The Determination of Cte of Copper Based Metal Matrix Composites Reinforced with Carbon Fibres</b> N. Frankovicova (Sp), K. Izdinsky, Slovak Academy of Sciences, Bratislava (Slovak Republic)</p>
28/E237	<p><b>The Influence of the Homogenizing Heat Treatment of Initial Melt on the Structure of Aluminum-Copper Alloys</b> N. Konstantinova (Sp), P. Popel, Ural State Pedagogical University, Ekaterinburg (Russian Federation); I. Brodova, Institute of Metal Physics, Ekaterinburg (Russian Federation)</p>
29/E241	<p><b>Residual Stresses and Void Kinetics in Particle Reinforced Metal Matrix Composites during Thermal Cycling</b> M. Schöbel (Sp), H.P. Degischer, Vienna University of Technology (Austria)</p>
30/E248	<p><b>Site Occupation and Order in Intermetallics - A Path beyond the Detection Limits</b> T. Boll (Sp), T. Alkassab, University of Goettingen (Germany); Z.G. Liu, Nanjing University (China)</p>
* = no oral presentation	

Tuesday, 15 July 2008, 9:30 - 12:30 h

ORAL AND POSTER PRESENTATION

Time/ Poster No.	Lecture Hall B and Poster Area I - Session 2 -
32/E256	<b>Ordering and Site Occupancy of Ternary Elements in Fe<sub>3</sub>Al</b> T. Rademacher (Sp), T. Al-Kassab, R. Kirchheim, University of Göttingen (Germany); G. Frommeyer, Max-Planck Institut für Eisenforschung GmbH, Düsseldorf (Germany)
33/E264	<b>Thermophysical Properties and Microstructural Analysis of some Magnesium Alloys Designed for Automotive Industry</b> P. Moldovan, G. Popescu, I. Apostolescu, S. Bejan (Sp), M. Manea, University "Politehnica" of Bucharest (Romania)
34/E272	<b>Decomposition Kinetics of Carbon Expanded Austenite</b> T.S. Hummelshøj (Sp), T.L. Christiansen, M.A.J. Somers, Technical University of Denmark, Lyngby (Denmark)
35/E285	<b>Mechanical Tests and Process Optimization of Aluminium Foams Made by the Melt Route</b> A. Gábor (Sp), L. Tóth, University of Debrecen (Hungary); N. Babcsán, Bay Zoltán Institute of Logistics and Production Engineering, Miskolc (Hungary)
36/E299	<b>Fe-Al Gradient Materials-Composing of Powder Charge</b> S. Lipiski (Sp), Military University of Technology, Warsaw (Poland)
37/E300	<b>Oxidation Behaviour and Thermal Stability of Ni<sub>3</sub>Al-Based Alloys</b> W. Polkowski (Sp), Military University of Technology, Warsaw (Poland)
38/E324	<b>Intermetallic Compounds with Directed Structure and Catalyst Potential</b> L.M. Vladutiu, L. Taloi, S. Bejan (Sp), D. Taloi, I. Constantin, University "Politehnica" of Bucharest (Romania)
39/E327	<b>Influence of Process Parameters on Material Flow during Friction Stir Welding</b> T. Weinberger (Sp), Graz University of Technology (Austria)
* = no oral presentation	

Tuesday, 15 July 2008, 9:30 - 12:30 h

ORAL AND POSTER PRESENTATION

Time/ Poster No.	Lecture Hall B and Poster Area I - Session 2 -
40/E342*	<b>Recycling of Aluminium Scrap</b> L.-E. Bianca (Sp), University "POLITEHNICA" Bucharest, Tulcea (Romania)
41/E343*	<b>Recycling of Titanium Scrap</b> D. Ilie (Sp), G. Valeriu Ghica, M. Buzatu, L.-E. Bianca, University "POLITEHNICA" Bucharest, Constanta (Romania)
<b>Session 2</b>	
<b>Topic: P</b>	
<b>Electronic and Photonic Materials</b>	
01/P196	<b>Characterization of Semiconductor Nanowires and Their Integration in Novel Devices</b> R. Jimenez-Diaz (Sp), J.D. Prades, F. Hernandez-Ramirez, A. Romano-Rodriguez, Universitat de Barcelona (Spain)
02/P249	<b>Oxidic Diluted Magnetic Semiconductors</b> A.M. Ungureanu (Sp), L. Alexandrescu, G. Georgescu, I. Jitaru, University 'Politehnica' of Bucharest (Romania)
03/P258	<b>Photocatalytic Activity of Plasma Treated Tungsten Oxides</b> J. Domlatil (Sp), Institute of Chemical Technology, Prague (Czech Republic)
04/P273	<b>Silicaorganic Polymer for Optical Fibre Elements</b> I. Gozhyk (Sp), V. Grygoruk, National Taras Shevchenko University of Kyiv (Ukraine); V. Ogenko, V. I. Vernadsky institute of general & inorganic chemistry NASU, Kyiv (Ukraine); V. Slinchenko, National Taras Shevchenko University of Kyiv (Ukraine)
11:30-12:30	Discussion of all Posters of Session 2 in front of the Panels
12:30	Lunch
* = no oral presentation	

Tuesday, 15 July 2008, 14:30 - 18:00 h

ORAL AND POSTER PRESENTATION

Time/ Poster No.	Lecture Hall B and Poster Area II - Session 3 -
14:30	<b>Session 3</b> <b>Topic: A</b> <b>Mechanical Properties</b>
01/A63	<b>Comparative Study on Mechanical Properties of Diamond-Like Carbon Coatings Prepared by Several Different Deposition Techniques</b> A. Stoica (Sp), V. Bursikova, Masaryk University Brno (Czech Republic); O. Blahova, West Bohemian University, Pilsen (Czech Republic); J. Bursik, Academy of Sciences of the Czech Republic, Brno (Czech Republic); P. Klapetek, Czech Metrology Institute Brno (Czech Republic); R. Vladoiu, Ovidius University, Constanta (Romania)
02/A72	<b>Experimental Study of the Crack Evolution in the Glass</b> K. Ayadi (Sp), Ferhat Abbas University, Sétif (Algeria)
03/A80	<b>Resolving Small Scale Plasticity by In-Situ Laue Micro Diffraction</b> R. Maaß (Sp), S. Van Petegem, J. Zimmermann, H. van Swygenhoven, Ecole Polytechnique Federal de Lausanne, Villigen (Switzerland)
04/A81	<b>The Effect of Deformation on the Aging Response Of An Al-Mg-Si Alloy</b> M. Kolar (Sp), Norwegian University of Science and Technology, Trondheim (Norway); S. Guldbrandsen-Dahl, Raufoss Technology & Industrial Management (Norway); K. Pedersen, SINTEF Materials and Chemistry, Trondheim (Norway); K. Marthinsen, Norwegian University of Science and Technology, Trondheim (Norway)
05/A87*	<b>The Renewal of the Properties of Fastening Armature Steel after Service in the High-Pressure Cylinder of Steam Turbine</b> L. Svirskaya (Sp), A. Markov, Karpenko Physiko-Mechanical Institute, L'viv (Ukraine)
06/A131	<b>Microstructural Characterisation of Nickel Superalloy IN-718 during Hot-Forging for Aero-Engine Applications</b> H. Lalvani (Sp), M.A. Rist, The Open University, Milton Keynes (UK)
* = no oral presentation	

Tuesday, 15 July 2008, 14:30 - 18:00 h

ORAL AND POSTER PRESENTATION

Time/ Poster No.	Lecture Hall B and Poster Area II - Session 3 -
07/A140	<b>Influence Factors of Composition on the Creep of the Self Compacting Concrete Beams</b> G. Benkechache (Sp), H. Houari, University of Constantine (Algeria)
08/A141*	<b>Evaluation Procedure of Growth Rate a Surface Crack</b> S. Chernoyarov (Sp), O. Mitrakov, A. Grinevich, A. Smirnov, All-Russian Scientific-Research Institute of Aviation Materials, Moscow (Russian Federation)
09/A182	<b>Creep Behaviour of a Single-Crystal Silicon Diaphragm</b> J. Ren (Sp), M.C.L. Ward, The University of Birmingham (UK)
10/A210	<b>Relation between Cast Inconel 718 Defects and the Fatigue Crack Growth Rate at Low Temperature</b> M. Scheubel (Sp), D. Cornu, SNECMA, Vernon (France)
11/A231	<b>Low Temperature Strength and Plasticity of Nanocrystalline Ni-20%Fe Alloy</b> M. Bidylo (Sp), E.D. Tabachnikova, A.V. Podolskiy, V.Z. Bengus, S.N. Smirnov, B.Verkin Institute for Low Temperature Physics, Kharkov (Ukraine); P.K. Liaw, University of Tennessee, Knoxville, TN (USA); K. Csach, J. Miskuf, Silesian Academy of Science, Kosice (Slovakia)
12/A232	<b>Creep Enhancement of Al-Alloys by Particle Reinforcement</b> B. Bauer (Sp), G. Requena, Vienna University of Technology (Austria); M. Lieblich, National Centre for Metallurgical Research, Madrid (Spain)
13/A252	<b>Mechanical Properties of EPS Blocks: Special Distribution and Colleration</b> O. Medne (Sp), I. Dreyer, Riga Technical University (Latvia)
14/A260	<b>Effects of Welding Heat-Input and Cold Working on Microstructure and Mechanical Properties of 5083 Aluminum Alloy Welded Joints</b> N. Taheri Nassaj (Sp), Sharif University of Technology, Tehran (Iran); I. Sattarifar, Amirkabir University of Technology, Tehran (Iran); P. Abachi, Sharif University of Technology, Tehran (Iran)
* = no oral presentation	

Tuesday, 15 July 2008, 14:30 - 18:00 h

ORAL AND POSTER PRESENTATION

Time/ Poster No.	Lecture Hall B and Poster Area II - Session 3 -
15/A268*	<b>Optimization of Cork Agglomerates as a Core Material for Sandwich Structures Application</b> O. Castro (Sp), J. Silva, T. Devezas, University of Beira Interior, Covilhã (Portugal)
16/A280	<b>Microstructural and Mechanical Study of Ternary Alloys Based on Au-Cu-Pt</b> E. Klay (Sp), F. Diologent, A. Mortensen, Ecole Polytechnique Fédérale de Lausanne (Switzerland)
17/A292	<b>Relationship between Strength and Microstructure in Early-Age Cement Paste</b> J. Dirrenberger (Sp), A. Guidoum, Ecole Polytechnique Fédérale de Lausanne (Switzerland)
18/A293	<b>A 3D Stretching Finite Element for Surfaced Crack Propagation Analysis</b> H. Benzaama (Sp), ENSET, El-Mnaour (Algeria); S.M. Elachachi, Ustomb, El-Mnaour (Algeria)
19/A305	<b>Modelling of Environment Effect on the Fatigue of an AISI 316L Steel</b> H. Sedjal (Sp), Mouloud Maameri University, Tizi Ouzou (Algeria); F. Hellal, Polytechnical National School, Algiers (Algeria)
20/A311	<b>Fracture Behavior Characterization of Unidirectional Composite Laminates with Hole Defects under Tensile Load</b> M. Torres (Sp), J.L. González, H. Hernández, Instituto Politécnico Nacional, México (Mexico)
21/A323	<b>Experimental Study of Influence of Deformation Conditions on Microstructure Evolution of Austenitic Steel</b> S. Aksenov (Sp), VSB-Technical University of Ostrava (Czech Republic)
22/A330	<b>Determination of Shortcut Cyclic Stress-Strain Curves of Superalloy Inconel 738LC at Elevated Temperatures</b> M. Smid (Sp), University of Technology, Brno (Czech Republic); M. Petrenek, Academy of Sciences of the Czech Republic, Brno (Czech Republic)
* = no oral presentation	

Tuesday, 15 July 2008, 14:30 - 18:00 h

ORAL AND POSTER PRESENTATION

Time/ Poster No.	Lecture Hall B and Poster Area II - Session 3 -
23/A331	<b>Mechanical Properties of Al Thin Films Determined by Nanocompression</b> I. Kubena (Sp), Brno University of Technology (Czech Republic); T. Vystavel, FEI, Brno (Czech Republic); T. Kruml, Brno University of Technology (Czech Republic)
24/A332	<b>The Effect of Mean Stress on the Kinetics of Short Crack Growth and Fatigue Life in Duplex Steel</b> L. Bártová (Sp), M. Petrenec, J. Polák, University of Technology, Brno (Czech Republic)
25/A334	<b>Development and Characterization of Open-Cell Metallic Implant Structures with Biological Reaction Layer</b> M. Altindis (Sp), U. Krupp, University for Applied Sciences of Osnabrück (Germany); T. Guillen, A. Ohrndorf, University of Siegen (Germany)
<b>Session 3</b>	
<b>Topic: K</b>	
<b>Simulation Methods and Modelling Methods</b>	
01/K5	<b>Crack Driving Force and J-integrals in Elastic-plastic Materials during Crack Extension</b> R. Schöngrundner (Sp), Materials Center Leoben Forschung GmbH (Austria); F.D. Fischer, O. Kolednik, University of Leoben (Austria)
02/K18	<b>Computer Simulation of the Two-Particle Agglomeration</b> I. Karkin (Sp), Institute of Metal Physics, Ekaterinburg (Russian Federation)
03/K32*	<b>Rozen Type Piezoelectric Transformer Modelisation</b> F. Boukazouha (Sp), F. Boubenider, Centre de Soudage et Controle Chéraga, Algiers (Algeria)
04/K53	<b>Grain Density Function in Heterogeneous Nucleation of az91/sic Composite</b> P. Zak (Sp), J. Leito, J. Suchy, AGH University of Science and Technology, Krakow (Poland)
05/K83	<b>Phase Field Model for Dual Phase Steels</b> A. Viardin (Sp), B. Appolaire, E. Gautier, LSG2M, Nancy (France)
* = no oral presentation	

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ORAL AND POSTER PRESENTATION

Time/ Poster No.	Lecture Hall B and Poster Area II - Session 3 -
06/K105	<b>Simulation of Chemical and Magnetic Ordering in the Ni-Fe System</b> I. Vernyhora (Sp), D. Ledue, H.M. Zapolsky, R. Patte, University of Rouen, St Etienne (France)
07/K138	<b>Probabilistic Modelling of Fatigue Crack Growth in Carbon Steel for Load History Fragment</b> O. Yasniy (Sp), Ternopil State Ivan Puluj Technical University (Ukraine)
08/K147	<b>Numerical Investigation of Thermal Cracks in Pressure Die Casting Tools</b> M. Leindl (Sp), W. Ecker, R. Ebner, Materials Center Leoben Forschung GmbH (Austria); T. Antretter, University of Leoben (Austria)
09/K148	<b>Computer Simulation of Superlattices MR/MxMe1-xR/MyMe1-yR (M = B, Al, Si; Me = B, Al, In; R = N, C) with Sapphire (0001) Substrate: Structural and Electronic Properties</b> I. Ershov (Sp), V. Ilyasov, T. Zhdanova, I. Nikiforov, Don State Technical University, Rostov-on-Don (Russian Federation)
10/K159	<b>Finite Element Simulation of Localization Phenomena in Pseudoelastic NiTi Shape Memory Alloys</b> C. Großmann (Sp), M.F.-X. Wagner, Ruhr-University Bochum (Germany)
11/K171	<b>Database for Foundry Engineers - SimulationDB as Innovative and Intelligent Solution in Foundry Industry</b> J.S. Suchy, P. Malinowski (Sp), University of Science and Technology, Krakow (Poland)
12/K175*	<b>Texture and Microstructure Evolution during Thermomechanical Processing of AA6016</b> C. Bollmann (Sp), G. Gottstein, RWTH Aachen University (Germany)
13/K179	<b>Mathematical Model of Processes of the Feed End of Rotary Kiln for Alumina Calcination</b> V.Z. Baranyai (Sp), I. Szacs, University of Miskolc (Hungary)
* = no oral presentation	

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ORAL AND POSTER PRESENTATION

Time/ Poster No.	Lecture Hall B and Poster Area II - Session 3 -
14/K195	<b>Investigation of the Effect of Grain Size on the Crack-Tip Toughness of Alumina by Distinct Element Method (DEM)</b> S. Nohut (Sp), G.A. Schneider, Hamburg University of Technology (Germany)
15/K197	<b>Heterogeneous Material Design with 2-Phase Reaction in 3-Phase Region</b> V. Stepanov (Sp), V.I. Lutsyk, Buryat State University, Ulan-Ude (Russian Federation)
16/K211*	<b>Cracking Behavior of Reinforced Concrete Beams Using Finite Element Method</b> W. Merabet (Sp), University Mentouri of Constantine (Algeria); S. Khalfallah, University of Jijel (Algeria)
17/K214	<b>Thermodynamic Re-Assessment of the Ti-Al-Nb System</b> D. Cupid (Sp), O. Fabricnaya, Technical University of Freiberg (Germany); O. Rios, F. Ebrahimi, University of Florida, Gainesville, FL (USA); H.J. Seifert, Technical University of Freiberg (Germany)
18/K216	<b>Finite Element and Experimental Study on the Effect of Rotational Speed on Thermo-Mechanical Response of AA 6082-T6 during Friction Stir Spot Welding</b> S.U. Khosa (Sp), T. Weinberger, N. Enzinger, Graz University of Technology (Austria)
19/K229	<b>Mathematical Modelling of Laser Joining Processes</b> C. Hille (Sp), W. Lippmann, L. Kaulfuß, A. Hurtado, Technical University of Dresden (Germany)
20/K233	<b>Characteristics of Extrusion Process of "Non-Rounded" Products</b> N. Serban (Sp), N. Ghiban, G. Chelu, R. Saban, University "Politehnica" of Bucharest (Romania)
21/K234	<b>Evaluation of Solution Algorithms for Modelling Solidification Processes</b> S. Michelic (Sp), University of Leoben (Austria)
* = no oral presentation	

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ORAL AND POSTER PRESENTATION

Time/ Poster No.	Lecture Hall B and Poster Area II - Session 3 -
22/K246	<b>Void Tracking in SiC Particulate Reinforced Al by Means of 3D Image Registration Based on Mutual Information</b> W. Altendorfer (Sp), M. Schöbel, E. Gröller, H.P. Degischer, Vienna University of Technology (Austria)
23/K250	<b>Modeling and Simulation of High Temperature Oxidation of Cr-Steels and Ni-Based Alloys</b> R. Naraparaju (Sp), V.B. Trindade, H.-J. Christ, University of Siegen (Germany)
24/K254	<b>Phase-Field Modelling for Ferroelectric Materials</b> B. Völker (Sp), University of Karlsruhe (Germany); M. Kamlah, O. Kraft, Forschungszentrum Karlsruhe GmbH, Eggenstein-Leopoldshafen (Germany)
25/K269	<b>Establishing of Technological Parameters Correlation of Rotary Swaging by Numerical Modelling</b> D. Luca (Sp), Technical University of Iasi (Romania); V. Schiopu, Presum Project S.A., Iasi (Romania); I. Vrabie, Presum Project S.A., Iasi (Romania)
26/K274	<b>Asymmetry and Log-Symmetry - A New Way of Modelling Mixtures, Alloys, Emulsions, etc.</b> J. Fenstad (Sp), University of Cambridge (UK)
27/K277	<b>Electronic Properties of Porphyrins Interacting with Gold</b> B. Betancourt (Sp), E. Sansores, Universidad Nacional Autonoma de Mexico (Mexico)
28/K286	<b>FEM Modelling of Composites</b> M. Rolnik (Sp), J. Zidek, J. Jancar, University of Brno (Czech Republic)
29/K302	<b>Computer Simulation of Atomic Movements in Cr-Fe Alloys in the Range of 650-750 K</b> I. San Sebastian (Sp), J. Aldazabal, CEIT, San Sebastian (Spain); I. Toda, C. Capdevila, C. Garcia-Mateo, CSIC, Madrid (Spain)
30/K321	<b>Bio Simulation of the Dilatation of Brain Ventricles in Normal Pressure Hydrocephalus (NPH)</b> K. Shahim (Sp), J.M. Drezet, Ecole Polytechnique Fédérale de Lausanne (Switzerland); D. Bichsel, Ecole d'Ingénieurs de Genève (Switzerland); S. Momjian, Hôpitaux Universitaires de Genève (Switzerland)
* = no oral presentation	

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ORAL AND POSTER PRESENTATION

Time/ Poster No.	Lecture Hall B and Poster Area II - Session 3 -
31/K326	<p><b>Modeling the Resistance of Conductive Adhesives</b> M. Negoita (Sp), A. Bara, E.A. Patroiu, National Institute for Research and Development for Electrical Engineering, Bucharest (Romania)</p>
	<p><b>Session 3</b> <b>Topic: F</b> <b>Ceramics</b></p>
01/F71	<p><b>Synthesis of Mono-Sized Fe-Co-Based Metallic Glass Particles by Pulsated Orifice Ejection Method</b> N. Yodoshi (Sp), W. Dong, A. Miura, A. Kawasaki, Tohoku University, Sendai (Japan)</p>
02/F93	<p><b>Obtaining of Ceramic-Steel Joints Using Electron Beam Heating</b> D. Yushkevich (Sp), National Academy of Science of Belarus, Minsk (Belarus)</p>
03/F94	<p><b>Injection Molded Thermistors with Positive Temperature Coefficient</b> V. Fischer (Sp), J. Ihle, EPCOS OHG, Deutschlandsberg (Austria)</p>
04/F100	<p><b>Formation of Ceramic Layers on Transition Metals by Reaction with Si(C)N-Precursors</b> C. Delpero (Sp), W. Krenkel, G. Motz, University of Bayreuth (Germany)</p>
05/F115	<p><b>Preparation and Sinterability of La<sub>1-x</sub>Sr<sub>x</sub>Ga<sub>1-y</sub>Mg<sub>y</sub>O<sub>3</sub> Powders</b> C. Andronescu (Sp), M. Golgojan, V. Fruth, M. Zaharescu, Romanian Academy, Bucharest (Romania)</p>
06/F118	<p><b>Processing of Ceramic SiCN-Fibres from the ABSE Polycarbosilazane</b> F. Gugel (Sp), S. Kokott, W. Krenkel, G. Motz, University of Bayreuth (Germany)</p>
07/F144	<p><b>Synthesis, Formation Mechanism, Densification Behavior and Mechanical Properties of Barium Hexaluminate Phase</b> S. Nugroho (Sp), Z. Chen, A. Kawasaki, Tohoku University, Sendai (Japan)</p>
* = no oral presentation	

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ORAL AND POSTER PRESENTATION

Time/ Poster No.	Lecture Hall B and Poster Area II - Session 3 -
08/F156	<b>Electron Mechanism of Colouration of Inorganic Glasses</b> A. Terczynska (Sp), K. Cholewa-Kowalska, M. Laczka, AGH University of Science and Technology, Krakow (Poland)
09/F170	<b>Electrochemical Reduction of Nitrogen Oxides Combining Ion Conducting Ceramics with Nitrogen Oxide Storing Materials</b> U. Röder (Sp), K. Sahner, R. Moos, University of Bayreuth (Germany)
10/F188	<b>Calculation of Liquidus Temperature by ESTPHAD Method</b> T. Mende (Sp), A. Roász, University of Miskolc (Hungary)
11/F205	<b>Nanocrystalline Hydroxyapatite for Bone Tissue Engineering</b> U. Simon (Sp), R. Gildenhaar, Federal Institute for Materials Research and Testing, Berlin (Germany); L. Heimann, aap Biomaterials, Obernburg (Germany); G. Berger, Federal Institute for Materials Research and Testing, Berlin (Germany)
12/F206	<b>Influence of Sintering Parameters on Pore and Grain Size of Bioceramic Materials</b> A. Stunda (Sp), L. Morozova, L. Berzina-Cimdina, J. Locs Riga, Riga Technical University (Latvia)
13/F215	<b>Ageing of Ceramic Material Prepared from Natural Raw Materials</b> A. Pesová (Sp), J. Andertova, O. Gedeon, Institute of Chemical Technology of Prague (Czech Republic)
14/F281	<b>Stabilization of the Pore Forming Agent in ZrO<sub>2</sub> Slurries</b> T. Sticha (Sp), J. Havrda, J. Andertova, Institute of Chemical Technology, Prague (Czech Republic)
17:00-18:00	Discussion of all Posters of Session 3 in front of the Panels
* = no oral presentation	

Wednesday, 16 July 2008, 9:30 - 12:30 h

ORAL AND POSTER PRESENTATION

Time/ Poster No.	Lecture Hall B and Poster Area I - Session 4 -
9:30	<b>Session 4</b> <b>Topic: C</b> <b>Corrosion Wear Biocompatibility</b>
01/C9*	<b>Microbiological Corrosion of Steel with Cd-Coating</b> S. Beloglazov (Sp), G.S. Beloglazov, M.A. Myamina, A.A. Gribankova, Immanuel Kant State University of Russia, Kaliningrad (Russian Federation)
02/C56*	<b>Quantum Chemical Study of Organic Inhibitors of Corrosion and Hydrogen Absorption of Steel in Media Containing Sulphate Reducing Bacteria</b> G.S. Beloglazov (Sp), D.S. Malyarevskiy, S.M. Beloglazov, Immanuel Kant University, Kaliningrad (Russian Federation)
03/C84	<b>Comparative Study of Nickel-Molybdenum Alloy Electrodeposition from Aqueous Solution and from Ionic Liquid as Electrolytic Media</b> P. Prioteasa (Sp), National Institute for Research and Development in Electrical Engineering, Bucharest (Romania); L. Anicai, PETROMSERVICE SA, Bucharest (Romania)
04/C106	<b>Corrosion and Passivation of Stainless Steels after Low- Temperature Nitriding</b> M. Kuczynska-Wydorska (Sp), J. Fils, Polish Academy of Science, Warsaw (Poland)
05/C109	<b>Determination of Hydrogen Transport and Absorption in Plasma Nitrided Iron</b> Z. Wolarek (Sp), T. Zakroczyński, Polish Academy of Sciences, Warsaw (Poland)
06/C151	<b>Surface Characterization and Electrochemical Behavior of Heat Treated ZrTa Alloy in Fetal Bovine Serum</b> I.V. Branzoi, University Politehnica of Bucharest (Romania); M. Iordoc (Sp), National Institute for Research and Development in Electrical Engineering, Bucharest (Romania)
07/C168	<b>A Study on the Effect of Slip Regime on the Fretting Behaviour of Ti-6Al-4V</b> G. Bandak (Sp), J. Ding, S. Leen, P. Shipwaay, University of Nottingham, Bridgnorth (UK)
* = no oral presentation	

Wednesday, 16 July 2008, 9:30 - 12:30 h

ORAL AND POSTER PRESENTATION

Time/ Poster No.	Lecture Hall B and Poster Area I - Session 4 -
08/C178	<p><b>Oxide Electrochemical Growth on Ultra-Flat Ni-P in Alkaline Solution</b></p> <p>F. Muscolino (Sp), L. Magagnin, P.L. Cavalotti, Politecnico di Milano (Italy); R. Rognoni, SEM Service for Electronic Manufacturing, Vimercate (Italy); O. Citterio, Media Lario Technologies S.r.l, Bosisio Parini (Italy)</p>
09/C194	<p><b>Examination of Historical Materials: The Case Study of Bodjani Monastery within the Orthodox Church</b></p> <p>S. Petrovic (Sp), University of Novi Sad (Serbia); S. Vujovic, The Provincial Institute for the Protection of Cultural Monuments of the Autonomous of Vojvodina, Novi Sad (Serbia); D. Zoric, J. Ranogajec, University of Novi Sad (Serbia)</p>
10/C284	<p><b>Corrosion Behavior of Arc Plasma Deposited Ti/TiSiN and Ti/TiAlSiN Multilayered Coatings</b></p> <p>R. Zamfir (Sp), C.M. Cotrut, A. Molagic, University Politehnica of Bucharest (Romania); A.E. Kiss, S. Zamfir, National Institute for Optoelectronics, Bucharest (Romania)</p>
11/C288	<p><b>Corrosion of Reinforcement in Concrete, and Techniques of Repair</b></p> <p>F. Mebirouk -Boubendir (Sp), University Mentouri Constantine (Algeria)</p>
12/C294	<p><b>Evaluation of Red Mud as an Additive in Cement Paste</b></p> <p>B. Díaz (Sp), L. Freire, P. Merino, X.R. Nóvoa, M.C. Pérez, University of Vigo (Spain)</p>
13/C295	<p><b>Assesment of the Corrosion Behaviour of Type 204Cu Stainless Steel in Chlorinated Alkaline Media. The Effect of Copper</b></p> <p>L. Freire (Sp), X.R. Nóvoa, G. Pena, M.C. Pérez, University of Vigo (Spain); V. Vivier, CNRS, Paris (France)</p>
14/C296	<p><b>An Insight into the Reaction between Rustconverter and Iron Oxides</b></p> <p>A. Collazo, X.R. Nóvoa, C. Pérez, B. Puga (Sp), University of Vigo (Spain)</p>
15/C309	<p><b>Corrosion Behaviour of a Band for Oseosinthesis</b></p> <p>N. Ghiban (Sp), R.N. State, University Politehnica Bucharest (Romania)</p>
* = no oral presentation	

Wednesday, 16 July 2008, 9:30 - 12:30 h

ORAL AND POSTER PRESENTATION

Time/ Poster No.	Lecture Hall B and Poster Area I - Session 4 -
16/C312	<p><b>Carbon Coated Metallic Alloys for Medical Applications</b> A. Iorga (Sp), R. Vasilescu-Mirea, A. Bara, A.M. Bondar, M. Iordoc, I. Iordache, M.M. Codescu, N. Stancu, D. Patroi, E. Manta, National Research &amp; Development Institute for Electrical Engineering, Bucharest (Romania)</p>
<p><b>Session 4</b> <b>Topic: H</b> <b>Processing</b></p>	
01/H49	<p><b>The Wear-Resistant Composite Coatings Deposited by Argon-Arc Welding</b> R. Mikheev (Sp), Russian Academy of Science, Moscow (Russian Federation); N. Kobernik, Bauman Moscow State Technical University (Russian Federation)</p>
02/H58	<p><b>Continuous Casting of Magnesium Alloy Strip Using Semisolid Slurry Produced by an Inclined Cooling Plate</b> F. Kido (Sp), T. Motegi, Chiba Institute of Technology, Narashino (Japan)</p>
03/H89	<p><b>Effect of Rolling Schedule and Alloying Elements in Grain Size of Microalloyed Steels with High Niobium Content</b> M. Pérez (Sp), University of Navarra, San Sebastian (Spain); A. Martín-Meizoso, CEIT, San Sebastian (Spain)</p>
04/H139	<p><b>Synthesis and Characterization of Ni-Based Nanocomposite for Microsystem Application</b> X. Wei (Sp), University of Birmingham (UK)</p>
05/H174	<p><b>Application of a Dip Coating Process of a Passivation Glass on Energy Varistors</b> K. Kirstein (Sp), J. Ihle, EPCOS OHG, Deutschlandsberg (Austria)</p>
06/H181	<p><b>Liquation Behavior in the Weld HAZ of High Silicon Modular Cast Iron</b> K. Han (Sp), S. Kim, Hanyang University, Seoul (Korea, Republic); S. Hong, J. Lee, POSCO, Pohang (Korea, Republic); C. Lee, Hanyang University, Seoul (Korea, Republic)</p>
* = no oral presentation	

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ORAL AND POSTER PRESENTATION

Time/ Poster No.	Lecture Hall B and Poster Area I - Session 4 -
07/H183	<p><b>Microstructure Evolution and Cracking Behavior in the Dissimilar Weld Joints of Nodular Cast Iron and Ferritic Stainless Steel</b></p> <p>S. Kim (Sp), S. Lee, Hanyang University, Seoul (Korea, Republic); S. Hong, J. Lee, POSCO, Pohang (Korea, Republic); C. Lee, Hanyang University, Seoul (Korea, Republic)</p>
08/H186	<p><b>Microstructures and Mechanical Properties of Ultrafine Grained AlMgSi Alloy Processed by ECAP and Its Thermal Stability</b></p> <p>T. Kovarik (Sp), University of West Bohemia, Pilsen (Czech Republic); J. Zmik, COMTES FHT s.r.o., Dobany (Czech Republic); P. Leseticky, University of West Bohemia, Pilsen (Czech Republic)</p>
09/H187	<p><b>Limiting Austenite Grain Size in the Weld HAZ of Ti Containing Microalloyed Steel Considering the Critical Particle Size</b></p> <p>J. Moon (Sp), S. Kim, Hanyang University, Seoul (Korea, Republic); J. Lee, POSCO, Pohang (Korea, Republic); C. Lee, Hanyang University, Seoul (Korea, Republic)</p>
10/H218	<p><b>Verification of Physical Simulator Applicability for Hot Rolling Simulation</b> P. Konopik (Sp), J. Dvugan, Z. Nov, P. Podan, COMTES FHT sro, Dobransy (Czech Republic)</p>
11/H224	<p><b>Control of Welding Distortion by Redistribution of Thermal Pattern</b></p> <p>A.M. Akbari Pazooki (Sp), M.J.M. Hermans, Technische Universiteit Delft (Netherlands)</p>
12/H242	<p><b>Interactions and Wetting of Refractory Diborides by Liquid Metals</b></p> <p>A. Passerone, M.L. Muolo, F. Valenza (Sp), National Research Council, Genova (Italy); D. Passerone, EMPA Dübendorf (Switzerland)</p>
13/H247	<p><b>Hardmetals with Increased Fracture Toughness Prepared by Reactive Sintering</b></p> <p>K. Schädler (Sp), Vienna University of Technology (Austria); C. Veitsch, Treibacher Industrie AG (Austria); W. Lengauer, Vienna University of Technology (Austria)</p>
* = no oral presentation	

Wednesday, 16 July 2008, 9:30 - 12:30 h

ORAL AND POSTER PRESENTATION

Time/ Poster No.	Lecture Hall B and Poster Area I - Session 4 -
14/H265	<p><b>Innovative Process for Net Shape Coating of Axisymmetrical Metallic Parts by Precision Cold Forming</b></p> <p>V. Schiopu (Sp), I. Asandei, Presum Proiect S.A., Iasi (Romania); D. Luca, Technical University of Iasi (Romania); I. Vrabie, Presum Proiect S.A., Iasi (Romania)</p>
15/H301	<p><b>Enhancement of Strength in al 2014 Alloy through Grain Refinement by Ecap</b></p> <p>P. Venkatachalam, B. Ravisankar (Sp), National Institute of Technology, Tiruchirappalli (India); V. Thamos Paul, IGCAR, Tiruchirappalli (India); M. Vijayalakshmi, IGCAR, Kalpakkam (India); S. Kumaran, National Institute of Technology, Tiruchirappalli (India)</p>
16/H308	<p><b>Synthesis and Structural Transformation of the ZrO<sub>2</sub> Obtained via Sol Gel Method</b></p> <p>A. Covelo (Sp), A. Collazo, C. Pérez, University of Vigo (Spain)</p>
17/H314	<p><b>Consideration Concerning the Manufacturing of Some Complex Materials Devoted to the Military Industry</b></p> <p>I. Carceanu (Sp), Metallurgical Research Institute, Bucharest (Romania); G. Cosmeleata, Politehnica University of Bucharest (Romania); A. Popa, Metallurgical Research Institute, Bucharest (Romania); G. Brandusa, Politehnica University of Bucharest (Romania); R. Butnaru, Metallurgical Research Institute, Bucharest (Romania)</p>
<p><b>Session 4</b> <b>Topic: M</b> <b>Biomimetic and Bioinspired Approaches</b></p>	
01/M10	<p><b>Control of the Crystal Growth of Calcium Oxalates</b></p> <p>A. Thomas (Sp), O. Hochrein, W. Camillo-Cabrera, P. Simon, R. Kniep, Max Planck Institute for Chemical Physics of Solids, Dresden (Germany)</p>
02/M90	<p><b>A Quantitative Adhesion Test for Surgical Glues</b></p> <p>B. Perrin (Sp), CHUV, Lausanne (Switzerland); M. Dupeux, Grenoble University, Saint Martin d'Hères (France); M. Vergnat, L.K. von Segesser, CHUV, Lausanne (Switzerland)</p>
* = no oral presentation	

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ORAL AND POSTER PRESENTATION

Time/ Poster No.	Lecture Hall B and Poster Area I - Session 4 -
03/M125*	<p><b>The Evolution of Infrastructure and Research Activities for Innovative Implanto-Prosthetics Therapies through Abstraction and Remote Boniness Regeneration</b></p> <p>G. Prodan (Sp), V. Ciupina, Ovidius University, Constanta (Romania); E. Vasile, S.C.Metav CD, Bucharest (Romania); M. Prodan, I.M. Oancea-Stanescu, V. Mocanu, Ovidius University, Constanta (Romania)</p>
04/M190	<p><b>Nanostructuring Polymer Surfaces</b></p> <p>E. Wohlfart (Sp), Max Planck Institute for Metals Research, Stuttgart (Germany); E. Arzt, Leibniz-Institute for New Materials GmbH, Saarbrücken and Max Planck Institute for Metals Research, Stuttgart (Germany); A. del Campo, Max Planck Institute for Metals Research, Stuttgart (Germany)</p>
05/M200	<p><b>Bioinspired Adhesion Systems</b></p> <p>E. Kroner (Sp), A. Del Campo, E. Arzt, Leibniz-Institute for New Materials GmbH, Saarbrücken (Germany)</p>
06/M251	<p><b>Characterization of Open-Cell Metallic Implant Structures with Biological Reaction Layer</b></p> <p>T. Guillen (Sp), A. Ohrndorf, University of Siegen (Germany); U. Krupp, University of Applied Science, Osnabrück (Germany); H.-J. Christ, University of Siegen (Germany)</p>
07/M267	<p><b>Infra-Red (1064 nm) Printing of Nano-Sized Hydroxyapatite</b></p> <p>S. Catros (Sp), J.C. Fricain, J. Amedee, F. Guillemot, Bordeaux 2 University (France)</p>
08/M289	<p><b>Silicated Calcium Phosphates Thin Films Grown by RF Magnetron Sputtering</b></p> <p>R.-N. Borsa (Sp), M. Freche, Institut National Polytechnique de Toulouse (France); G. Cosmeleata, Polytechnic University of Bucharest (Romania); J.L. Lacout, Institut National Polytechnique de Toulouse (France); S. Ciuca, Polytechnic University of Bucharest (Romania); C. Morosanu, D. Marcov, I. Pasuk, G. Stan, National Institute for Materials Physics, Bucharest (Romania)</p>
12:30	Lunch
* = no oral presentation	

Wednesday, 16 July 2008, 14:30 - 18:00 h

**INDUSTRY LECTURES**

<b>Time/ Poster No.</b>	<b>Lecture Hall B</b>
14:30	<p><b>Industry Speaker</b> F. Heinrich (Sp), Heraeus Holding GmbH, Hanau (Germany)</p> <ul style="list-style-type: none"> <li>- Born on March 2, 1962 in Berlin, Germany.</li> <li>- After graduating in Physics and a subsequent doctorate as Dr. Ing. at the Technical University in Berlin he started his professional career.</li> <li>- In 1992 joined to TEMIC Semiconductors, a subsidiary of the Telefunken Group, as participant of a trainee program. He then took over management positions, first as a project manager and then as plant manager.</li> <li>- In 1995, Dr. Frank Heinrich was given the position of General Manager for integrated circuits before becoming Head of the Division Integrated Circuits, which included subsidiaries in Germany, France, England and the U.S.A.</li> <li>- In 1998, he was appointed Chief Executive Officer of the TEMIC Semiconductors Group, which was renamed into ATMEL Wireless &amp; Microcontrollers in 2000.</li> <li>- In January 2003, Dr. Frank Heinrich joined Heraeus Holding GmbH as member of the Board of Management and became CEO in 2008.</li> <li>- In addition to his position at Heraeus Holding GmbH, Dr. Frank Heinrich is a member of the Advisory Board of the WÜRTH Group and President of the German Society of Material Research (DGM).</li> </ul>
15:00	<p><b>Industry Speaker</b> P. Albrecht (Sp), Boston Scientific Technologie Zentrum GmbH, München (Germany)</p> <p>Managing Director of Boston Scientific Technologie Zentrum GmbH, a subsidiary enterprise of Boston Scientific Inc., a worldwide market leader in the sector of minimal invasive therapy concepts</p> <ul style="list-style-type: none"> <li>- Holds a diploma of agricultural engineering and economics</li> <li>- 10 years experience in the medical device field, thereof 5 years prior to the BSC acquisition in 2003 he was the CEO a start up medical device company (Inflow Dynamics) in Germany with the focus of Stent development</li> <li>- Consulting on new technologies, searching and scanning for new enabling technologies and opportunities in the field of the Cardiovascular (CV) and Cardiac Rhythm Management (CRM) divisions of the company</li> <li>- In his current position he is responsible for early stage technology development and NPD in Germany and spokesman of CV R&amp;D in Europe, Communication link for research and development in Europe, R&amp;D representative of the Scientific Medical Advisory Board of BSC in Europe and in particular in Germany, Active member in various BSC advisory boards/committees</li> </ul>

Wednesday, 16 July 2008, 14:30 - 18:00 h

INDUSTRY LECTURES

Time/ Poster No.	Lecture Hall B
15:30	<p><b>Industry Speaker</b> L. Jacobs (Sp), Bekaert, Zwevegem (Belgium)</p> <ul style="list-style-type: none"> <li>- Works at Bekaert since 1999. Bekaert is a global company employing over 20.500 people and has activities in over a 120 countries, with a combined sales of € 3.4 B in 2007. Bekaert has a worldwide leading position in the development, production and sales of steel wire. products, steel cord products, and advanced materials and coatings.</li> <li>- Active as Global Recruitment &amp; Selection Manager for Bekaert since 2006.</li> <li>- Before that, from 2000 to 2006, Senior Business Development Manager in the mergers &amp; acquisition division of Bekaert, responsible for analysing strategic growth opportunities for the company.</li> <li>- Started in 1999 as R&amp;D manager in Bekaert working on metal fibre projects.</li> <li>- Holds a Master of Science in Materials Engineering degree from Leuven University (Belgium), 1995 and a PhD in Materials Engineering from the University of Auckland (New Zealand), 1999.</li> <li>- Holds a Bachelor degree in Business Studies from Leuven University (Belgium), 2000 and successfully completed the General Management Programme at CEDEP- Insead (Fontainebleau, France), 2005.</li> </ul>
16:00	Break
16:30	<p><b>Industry Speaker</b> H.W. Haering (Sp), Sulzer Innotec, Winterthur (Switzerland)</p> <p>Solid State Physicist; PhD thesis on 'weak-links in High-Tc Superconductors' - since 2004 Head 'Materials' at Sulzer Innotec, the research and development unit of the Sulzer group</p> <p>Sulzer, a swiss-based multi-industry company, is globally active in the machinery and equipment, as well as the surfacing technology business mainly for the oil &amp; gas, energy and hydrocarbon processing industry.</p> <p>Sulzer Innotec 'Materials' is supporting the Sulzer divisions and industrial companies worldwide by providing 'Contract R&amp;D' and technical consultancy in product development, quality control and the implementation of advanced manufacturing and repair technologies.</p> <p>1997-2003 EADS Dornier GmbH / DaimlerChrysler R&amp;D; Project manager 'Functional Materials' for automotive, aerospace and defense applications.</p>

Wednesday, 16 July 2008, 14:30 - 18:00 h

**INDUSTRY LECTURES**

<b>Time/ Poster No.</b>	<b>Lecture Hall B</b>
17:00	<b>Industry Speaker</b> B. Dubost (Sp), Alcan, Voreppe (France) CV not available at print
17:30	<b>Industry Speaker</b> P. Barlier (Sp), Corning European Technology Center, Avon (France) CV not available at print
18:00	Panel discussion with all the industry speakers including those from Thursday
19:00	Festival on the beach The festival will start outside the building. Later in the evening we all together walk to the lake where the festival will continue.

Thursday, 17 July 2008, 9:00 - 12:30 h

INDUSTRY LECTURES

Time/ Poster No.	Lecture Hall B
9:00	<p><b>Industry Speaker</b> H. Réglé (Sp), Arcelor Mittal, Maizières les Metz (France) CV not available at print</p>
9:30	<p><b>Industry Speaker</b> N. Babcsan (Sp), Bay Zoltan Foundation for Applied Research, Budapest (Hungary)</p> <p>Head of the Department of Materials Development and Deputy Director of the Bay Zoltán Foundation for Applied Research, Institute for Logistics and Production Systems in Hungary (Bay-Logi). Innovation adviser of the Foundation. Graduated as an engineer-physicist. Worked for NASA and ESA as a student. 5 years teaching of materials science at University of Miskolc, 5 years postdoctoral work in Austria and Germany. Expert on metal foams. Participated nearly all Junior Euromat conferences.</p> <p>Among 200 around 50 people work with materials research and development at the Bay Zoltán Foundation in Hungary in 3 institutes. The Institute for Nanotechnology concentrates on nanostructural materials development and nanostructural characterization. The Institute of Materials Science and Technology is focusing on electrochemistry, steel-, powder-, polymer- and laser technology. Bay-Logi try to solve problem for industry related with lifetime of materials and new material development.</p>
10:00	<p><b>Industry Speaker</b> K. Kremeling (Sp), Wiley-VCH, Weinheim (Germany)</p> <ul style="list-style-type: none"> <li>- Joined Wiley-VCH as Editor for the journals <i>Advanced Materials</i> and <i>Advanced Functional Materials</i> in 2006.</li> <li>- Responsibilities include manuscripts evaluation via the peer-review process as well as all aspects of journal production.</li> <li>- <i>Advanced Materials</i> (2007 IF: 8.191) and <i>Advanced Functional Materials</i> (2007 IF: 7.496) ranked among the top journals in Multidisciplinary Materials Science.</li> <li>- Materials Science programme at Wiley-VCH includes books and journals on every possible topic; for example, polymers, engineering, plasmas, and ceramics, as well as others.</li> </ul>
10:30	Break

Thursday, 17 July 2008, 9:00 - 12:30 h

AWARD PRESENTATION / CLOSING

Time/ Poster No.	Lecture Hall B
11:00	<p><b>Young Entrepreneur Programme</b> Corine Zuber, Ecole Polytechnique Fédérale de Lausanne (Switzerland)</p> <p>The EPFL Innogrants programme supports researchers and students who would like to develop the results of their research or an idea towards a company creation. These people are given an opportunity to focus on the development of their idea during one year at EPFL. The programme also has the ambition to encourage the entrepreneurial culture through the organization of events where entrepreneurs tell their own stories as founders of start-ups.</p>
12:00	<p><b>Awards</b></p> <p>The best two posters of each session (half day) will receive a certificate and a prize of 100 Euro for the first and 50 Euro for the second winner. On Thursday the session winners will take part in the competition of the best conference poster. The winner and the second winner will receive an extra award of 150 Euro and 100 Euro, respectively.</p> <p>Best two posters of the Monday session; Topic N, D, G, I, L Best two posters of the Tuesday morning-session; Topic B, E, P Best two posters of the Tuesday afternoon-session; Topic A, K, F Best two posters of the Wednesday morning-session; Topic C, H, M</p> <p><b>Authors of the best two posters of the conference</b> Repetition of the Oral Presentation</p>
13:00	<p><b>Closing Address</b> Peter Paul Schepp , Deutsche Gesellschaft für Materialkunde e.V., Frankfurt (Germany)</p>



## GENERAL INFORMATION

### Registration Fees

- 1** Fee for Students  
EUR 220,-
- 2** Fee for Students from  
Central Europe  
EUR 150,-
- 3** Fee for Students from  
Eastern Europe \*  
EUR 100,-
- 4** Fee for Non-Students  
EUR 350,-
- 5** Fee for Non-Students  
from Central Europe  
EUR 250,-
- 6** Fee for Non-Students  
from Eastern Europe \*  
EUR 170,-

These fees include lunch from Mon-Thu, the welcoming reception, the basic set at the festival, and coffee during the official breaks.

\* Belarus, Bulgaria, Georgia, Romania, Russian Federation, Ukraine, Uzbekistan.

### Payment

Payments can be made either by Credit Card (which we highly recommend) or by bank transfer. Bank transfers have to be made to one of the accounts listed below. Please include both the invoice number and your name, when setting the account. In addition, for payments from abroad, a EUR 5,- bank charge must be added to the above mentioned total. Cash payments have to be made in EURO to the account of:

Deutsche Gesellschaft für  
Materialkunde, Frankfurt  
Dresdner Bank AG  
Account No.: 0610047800  
Bank Sorting Code  
500 800 00 (important)  
SWIFT-BIC: DRES DE FF 563  
(International)  
IBAN : DE85 5008 0000  
0610 0478 00

Steuer-Nr.: 4525051507 USt-  
IdNr./VAT No.:  
DE 111292466

Accommodation  
Lausanne Tourist Office  
P.O. Box 49  
CH- 1000 Lausanne 6  
phone: +41+21-613 7321;  
fax: +41-21-616 8647;  
EMail: jaggi@lausanne-touris-  
me.ch

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## GENERAL INFORMATION

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### Welcoming Reception

The welcoming reception on Monday evening will be held in the EPFL, 10 minutes walking distance from the conference location.

The welcoming reception will be sponsored by the local government of Canton de Vaud.

Beginning: 18:30 h  
End: 21:00 h

### Lunch during the Week

You can have lunch in the cafeteria within the building Amphimax (next to Amphipôle). We will provide you with lunch tickets at the conference office along with your name badge. One ticket has the value of 10 SFR, which enables you to have one meal and a drink.

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### Festival on the Beach

The festival will start with a self organised barbecue outside the building. Later in the evening we all together walk to the lake where the festival will continue. Delegates are invited to contribute by playing their own instruments.

The cover and the basic set of food (two sausages, non-alcoholic beverages and two beers per person) are included in the conference fee. Tickets for additional sausages and beers may be purchased at the conference office.

Beginning: 19:00 h  
Open end



