



Programme

EUROPEAN CONFERENCE

JUNIOR EUROMAT 2006

4 - 8 September 2006, Lausanne, Switzerland

JUNIOR
EURO
MAT
2006

Sponsored by
The Federation of European
Materials Societies (FEMS)

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: junior-euromat@fems.org
www.junior-euromat.fems.org

Conference Location

Université de Lausanne (UNIL)
Collège Propédeutique 01
CH-1015 Lausanne

Conference Office

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

Opening times:

- Sunday, 3 Sept 2006
15:00 to 18:00 h
- Monday through Thursday
along the conference
programme

Programme Manager

Dr. Peter Paul Schepp
Deutsche Gesellschaft für Mate-
rialkunde e.V., Frankfurt (D)
Mail: junior-euromat@fems.org

Conference Secretariat

Deutsche Gesellschaft für
Materialkunde e.V. (DGM)
Anja Mangold
Yvonne Koall
Christa Wendt
Senckenberganlage 10
D-60325 Frankfurt
Phone: +49-69-75306 747
Fax: +49-69-75306 733
Mail: junior-euromat@fems.org
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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 2006, 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).

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 13 topics covering virtually every aspect of MSE, from nano to bio, from mechanical and physical properties to processing, etc.

It is also a truly international conference. There will be some 290 presentations and as many participants, coming from 39 countries. In the opening ceremony, the FEMS Lecture Award 2006 will be awarded to Dr. Christine Blanc, CIRIMAT / ENSIACET, Toulouse, France.

Materials engineers from industry will present themselves and their company and discuss with the participants on Monday.

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. R. Singer
President of FEMS

FEMS, the Federation of European Materials Societies actively promotes Materials Science and Engineering:
www.fems.org

GENERAL INFORMATION

The Federation of European Materials Societies (FEMS)

President

Robert F. Singer
Universität Erlangen-Nürnberg
(Germany)

Vice-President

Bill Clyne
University of Cambridge
(United Kingdom)

Secretary

Paul 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)
- Austrian Society for Metallurgy and Materials (Austria)
- Benelux Métallurgie (Belgium)
- Bond voor Materialenkennis (The Netherlands)
- Czech Society for New Materials and Technologies (Czech Republic)
- Danish Metallurgical Society (Denmark)
- 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)

- 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)
- Norsk Metallurgisk Selskap (Norway)
- Országos Magyar Bányászati és Kohászati Egyesület (Hungary)
- Polskie Towarzystwo Materialznawcze (Poland)
- Slovensko Drustvo 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. The sessions will be opened by keynote lectures. 197 authors out of 270 will present their poster orally.

Participants by Countries:

Algeria	4	Latvia	7
Austria	7	Nepal	1
Belarus	1	Netherlands	1
Belgium	4	Norway	1
Bulgaria	1	Poland	14
China	1	Portugal	5
Czech Republic	61	Romania	15
Denmark	2	Russian Federation	24
Egypt	1	Saudi Arabia	1
Estonia	3	Slovak Republic	6
Finland	2	Spain	1
France	8	Sweden	1
Georgia	1	Switzerland	12
Germany	72	Taiwan	3
Hungary	10	Ukraine	7
India	2	United Kingdom	7
Iran	2	USA	9
Israel	1	Yugoslavia	1
Italy	8		
Japan	2	Total	312
Korea, Republic	3		

Monday - Tuesday

OVERVIEW

Time	MONDAY	TUESDAY
8:00	All delegates have the possibility for early registration on Sunday between 15:00 - 18:00	
8:30		Time to fix the Poster
9:00		FEMS-Lecture
9:30	Registration	Poster Session 1
10:00		Topics: C, H, M
10:30	Opening Address R. Singer, President of FEMS	Short Lecture Presentations
11:00	Invited Lectures	
11:30	H. Meixner, Siemens, D	Discussion of all Posters of Session 1 in front of the Panels
12:00	S. Becker, Commission of the EU, Brussels, B	
12:30		
13:00	Lunch	Lunch
13:30		Time to fix the Poster
14:00	Industry Speakers on typical materials professions	Poster Session 2
14:30		Topics: I, L, N
15:00	H. Meixner, Siemens, D K. Rostek, Alstom, CH	Short Lecture Presentations
15:30	A. Förderreuther, Alcoa, D	
16:00	J. Wemhöner, Cerobears, D G. Maeder, Renault, F	Discussion of all Posters of Session 2 in front of the Panels
16:30	J. Klöwer, ThyssenKrupp VDM GmbH, Werdohl, D J. Ritterbusch, Wiley, D	
17:00	Discussion Forum with the Industry Speakers	
17:30		
18:00		
18:30	Welcome Reception at EPFL	20:00 Festival on the Beach

Wednesday - Thursday

OVERVIEW

Time	WEDNESDAY	THURSDAY
8:00		
8:30	Time to fix the Poster	Time to fix the Poster
9:00	Poster Session 3	Poster Session 5
9:30	Topics: A, K	Topics: B, E
10:00	Short Lecture Presentations	Short Lecture Presentations
10:30		
11:00	Discussion of all Posters of Session 3 in front of the Panels	Discussion of all Posters of Session 5 in front of the Panels
11:30		
12:00		
12:30		
13:00	Lunch	Lunch
13:30	Time to fix the Poster	
14:00	Poster Session 4	Awards Best Posters of the Conference
14:30	Topics: D, F, G	
15:00	Short Lecture Presentations	Closing Address End of the Conference
15:30		
16:00		
16:30	Discussion of all Posters of Session 4 in front of the Panels	
17:00		
17:30		
18:00		
18:30		

Monday, 4 September 2006

OPENING / INDUSTRY LECTURES

Time	Lecture Hall B and Poster Area I
9:30 - 10:30	Registration
10:30	Opening Address Prof. R. Singer, President of Fems
11:00	Invited Lecture From the Piezo Effect to a new Generation of Fuel Injection Prof. H. Meixner, Siemens AG München - Started at Siemens' corporate R&D department in 1973, involved in a wide range of research fields: semiconductor laser diodes, semiconducting barium-lead titanate ceramics, new color printing techniques, fundamental applications of piezoelectric materials for sensor and actuator applications, scanning and tunnel microscopy as well as chemo and bio-sensors. - Headed the Department of Sensor and Actuator Systems at Siemens Corporate Technology until 2004 - He carried out the basic research for the development of the piezo injection systems at Siemens. - He still acts as a consultant for Siemens Corporate Technology. - Over 300 patents, in particular in 1980, a patent for piezo injectors designed for fuel injection together with his colleagues. - Since 2006, Meixner has been organizing the cluster platform for sensorics and power electronics in Bavaria that acts within the state's innovation promotion program by networking between business and science.
11:30	Invited Lecture and Discussion The 7th Framework Programme - What's in it for young researchers? S. Becker, Commission of the EU - Bruxelles, B Degree and doctorate in materials science at the Technical University Berlin Employments: - BAM (Federal Institute of Materials Research and Testing at Berlin) in departments of radiation protection, surface analysis and tribology - Research Centre Jülich in the national German project agency for materials research - since 1990 Project Officer at the European Commission, Research Directorate General in Programmes Brite/Euram, Growth and NMP (industrial technologies)
12:30	Lunch

Monday, 4 September 2006

OPENING / INDUSTRY LECTURES

Time	Lecture Hall B and Poster Area I
14:00	<p>Industry Speaker Prof. H. Meixner, Siemens AG, München</p>
14:30	<p>Industry Speaker Dr. K. Rostek, Alstom Power Service Ltd, Baden, CH</p>
15:00	<p>Industry Speaker Dr. A. Förderreuther, Alcoa Automotive GmbH, Nürtingen, D</p> <ul style="list-style-type: none"> - Development Manager in Alcoa Automotive, interacting closely with our customers in early phases of the development of new car structures (mostly in aluminum) - Consulting on new technologies or manufacturability or a complete design that is provided as a turn-key solution. - Prototype production and go in series production. - The range of products goes from single components like a suspension casting to complete spaceframes consisting of hundreds of parts (extrusions, sheet parts, castings, fasteners, brackets, bushings) - customers are all mayor car manufacturers worldwide, i.e. Audi, Ferrari, DaimlerChrysler, BMW, Porsche, Jaguar, Aston Martin, Volvo, VW, Opel/GM, FIAT, Renault and PSA.
15:30	<p>Industry Speaker J. Wemhöner, Cerobear GmbH, Herzogenrath, D</p> <ul style="list-style-type: none"> - Born in 1955, President and co-founder of CERO-BEAR GmbH in Herzogenrath, Germany. - Diploma in mechanical engineering in 1983 from the University of Aachen, Germany, - Has worked as a research engineer for the Fraunhofer-Institute of Production Technology in Aachen in the field of precision machining of ultrahard materials. - Together Matthias Popp he founded his own company, CEROBEAR, in 1989, the today worldwide leading manufacturer of ceramic rolling bearings. - With a staff of 130 people CEROBEAR produces bearings for high-tech applications in aerospace, semiconductor capital equipment, machine tools, medical and biotechnological equipment and last but not least for 20 of the 22 Formula 1 cars.
16:00 - 16:30	<p>Break</p>

Monday, 4 September 2006

OPENING / INDUSTRY LECTURES

Time	Lecture Hall B and Poster Area I
16:30	<p>Industry Speaker G. Maeder, Renault, Guyancourt, F</p> <ul style="list-style-type: none"> - Professor of Physical Metallurgy in Paris for 20 years, moved to Renault in 1988 in the Research Department at first - Since 1993 Vice-President in charge of the Materials Engineering Department of Renault - About 300 people work in this Materials Engineering Department, and among them 100 engineers (a third with a PhD). The general mission is to provide comprehensive technical support on all materials issues, primarily to product engineering and process engineering teams in the Vehicle Engineering and Powertrain Engineering Departments, to Purchasing, Quality, and After-Sales Departments, and to the Plants.
17:00	<p>Industry Speaker J. Klöwer, ThyssenKrupp VDM, Werdohl, D</p> <ul style="list-style-type: none"> - Senior Vice President Marketing / ThyssenKrupp VDM GmbH - ThyssenKrupp VDM is a producer of high-performance nickel alloys and special stainless steel. - Marketing at ThyssenKrupp VDM comprises the following functions: <ul style="list-style-type: none"> - Public Relations - Market Research - Sales Controlling - Product Management
17:30	<p>Industry Speaker J. Ritterbusch, Wiley VCH Verlag GmbH & Co. KGaA, Weinheim, D</p> <ul style="list-style-type: none"> - PhD in Chemistry - involved in scientific publishing at Wiley-VCH for more than 10 years. - In his current position as Editorial Journals Manager he is responsible for the publication of 21 scientific journals in the area of Physics, Mathematics and Materials Science, including Polymer Chemistry. - Mainly involved in the management of editorial offices and coordinating the production and marketing of the journals. - Editor-in-Chief of Advanced Engineering Materials, where he is responsible for the organisation of the peer review process and the final decision on publication of submitted scientific papers. <p>Panel Discussion</p>

Tuesday, 5 September 2006, 9:00 - 12:30 h

ORAL AND POSTER PRESENTATION

Time / Poster No.	Lecture Hall B and Poster Area I - Session 1 -
9:00 - 9:30	<p>FEMS-Lecture 2006 Corrosion mechanisms of aluminium alloys C. Blanc, Ecole nationale supérieure des ingénieurs en arts chimiques et technologiques, Toulouse (France)</p> <p>There is significant interest in the corrosion behaviour of aluminium alloys which remain of importance for automotive or aerospace applications. In these materials, a heterogeneous microstructure is often developed by thermomechanical processing to obtain good mechanical properties. As a consequence, they are rather susceptible to localized corrosion in many electrolytes. Then, it is necessary to take into account the microstructure of the alloys, the nature of the chemical environment but also the mechanical environment (stresses) to understand the corrosion behaviour of these materials. Electrochemical techniques, local chemical analyses, observations of the microstructure of the materials, observations of surfaces and interfaces at high resolution were combined to obtain a better knowledge of the local corrosion mechanisms concerning aluminium alloys such as 2024 alloy.</p>
	<p>Topic C</p>
	<p>Corrosion, Wear, Biocompatibility</p>
	<p>Session 1</p>
	<p>Chair: C. Blanc, ENSIACET, Toulouse (France)</p>
01/C8 *	<p>Corrosion Behaviour of Fe3Al Intermetallisc in Complex Atmosphere B. Dytkowicz (Sp), A. Hernas, Silesian University of Technology, Katowice (Poland)</p>
02/C21	<p>Synergetic Effect of Nitrogen and Molybdenum on Resistance of Stainless Steels to Pitting Corrosion M. Kuczynska-Wydorska (Sp), J. Flis, Institute of Physical Chemistry PAS, Warsaw (Poland)</p>
03/C55	<p>The Effect of Cold Work on the Corrosion of 25Cr Duplex Stainless Steel A. Elhoud (Sp), W. Deans, University of Aberdeen (UK)</p>
04/C82	<p>Searching of the Electrochemical Parameters Sensitive to in Service Materials Degradation M. Hredil (Sp), O. Tsyruynyk, H. Nykyforchyn, National Academy of Science of Ukraine, Lviv (Ukraine)</p>
* = no oral presentation	

Tuesday, 5 September 2006, 9:30 - 12:30 h

ORAL AND POSTER PRESENTATION

Poster No.	Lecture Hall B and Poster Area I - Session 1 -
05/C96	High Temperature Oxidation Protection M. Dressler (Sp), M. Nofz, R. Saliwan-Neumann, M. Griepentrog, Federal Institute for Materials Research and Testing, Berlin (Germany)
06/C98 *	Investigation of Corrosion Resistance of 316 Austenitic Stainless Steel by Laser Surface Melting R. Zamfir (Sp), A. Molagic, C.M. Cotrut, S. Zamfir, Politehnic University of Bucharest (Romania)
07/C147	Wear in Plastic Processing E. Leimann (Sp), M. Rudschuck, Deutsches Kunststoff-Institut, Darmstadt (Germany)
08/C171 *	Degradation of Surface Layers of Thermally Insulated Buildings R. Steuer (Sp), H. Kminova, S. Stastnik, Brno University of Technology (Czech Republic)
09/C175	Abrasive Wear of Cemented Carbides T. Roosaar (Sp), J. Kübarsepp, H. Klaasen, Tallinn University of Technology (Estonia)
10/C241	High-Temperature Nitridation of Ni-base Alloy In617 B. Gorr (Sp), V. Trindade, U. Krupp, Universität Siegen (Germany)
11/C247	The Influence of Acid Pre-treatment on Precipitation of Calcium Phosphates on Ti6Al4V R. Horvathova (Sp), L. Brazda, P. Haufova, Institute of Chemical Technology, Prague (Czech Republic)
12/C256 *	Corrosion Behaviour of Stainless High Alloyed Steels and Nickel Alloys in Chloride Media K. Dalikova (Sp), J. Kunz, Czech Technical University in Prague (Czech Republic); V. Cihal, SVUOM s.r.o., Prague (Czech Republic)
13/C299	Wear Behavior of the PM Al/(SiC+Graphite) Composites Processed by Classical PM M.C. Criveanu (Sp), G. Sima, University of Craiova, Drobeta Turnu Severin (Romania)
14/C301	Electrochemical Characterization of Metallic Materials Using Mini-Cell System M.L. Cardoso Nascimento (Sp), Technical University of Berlin (Germany); W.D. Mueller, Charite Medical University, Berlin (Germany)
* = no oral presentation	

Tuesday, 5 September 2006, 9:30 - 12:30 h

ORAL AND POSTER PRESENTATION

Poster No.	Lecture Hall B and Poster Area I - Session 1 -
15/C307	Tribological Behavior of Line Hardening of Steel 0,5 %C with CW CO2 Laser C. Nicolicescu (Sp), G. Demian, M. Demian, University of Craiova, Drobeta Turnu Severin (Romania)
16/C343	Experimental Assesment of Tribological Charakteristics of Barrier Coatings for Contact Couple with Method Pin-On-Disc S. Tumova (Sp), Technical University of Liberec (Czech Republic)
17/C345	Biocompatibility Tests of Carbon Coatings Obtained by the Method MW/RF PCVD I. Subrtova (Sp), Technical University of Liberec (Czech Republic); K. Mitura, Technical University of Lodz (Poland)
18/C181	Tin Alloys Electrodeposition without Hydrogen Embrittlement of Steel and Brass S. Beloglazov (Sp), L.M. Lyahovets, V.P. Polyudova, Immanuel-Kant-University, Kaliningrad (Russian Federation)
19/C182	Cluster Modelling Quantum Chemical Study of Adsorption of Corrosion Inhibitors of Steel from Cd-plating Bath S. Beloglazov (Sp), M.A. Myamina, G.S. Beloglazov, Immanuel-Kant-University, Kaliningrad (Russian Federation)
20/C183	Study of Organic Compounds as Inhybitors of Corrosion and Hydrogenation of Ni-coated Steel D.S. Malyareski (Sp), M.N. Laykova, S.M. Beloglazov, Immanuel-Kant-University, Kaliningrad (Russian Federation)
* = no oral presentation	

Tuesday, 5 September 2006, 9:30 - 12:30 h

ORAL AND POSTER PRESENTATION

Poster No.	Lecture Hall B and Poster Area I - Session 1 -
	<p>Topic H Processing: Casting, Rolling, Extrusion, Powder Technology, Machining, Joining</p> <p>Chair: C. Blanc</p>
01/H22	<p>Microhardness Measurement of Metal Powder Particles E. Hryha (Sp), Slovak Academy of Sciences, Kosice (Slovak Republic); P. Zubko, Technical University of Kosice (Slovak Republic); E. Dudrova, Slovak Academy of Sciences, Kosice (Slovak Republic); L. Pesek, Technical University of Kosice (Slovak Republic); O. Blahova, West Bohemian University, Plsen (Czech Republic)</p>
02/H25	<p>The Researches at the Large and lab Scale Regarding the Influence of the Heat Treatments on the Structure and Mechanical Properties of the Cold Rolled Strips for the Cars Industry E. Vasilescu (Sp), „Dunarea de Jos“ University of Galati (Romania); I. Vasilescu, S.C.MITTAL STEEL S.A., Galati (Romania); A. Doniga, „Dunarea de Jos“ University of Galati (Romania)</p>
03/H76	<p>Perspectives for Metal Forming by Rolling with Cyclic Change of the Load Scheme Z. Cygarek (Sp), F. Grosman, Silesian University of Technology, Katowice (Poland)</p>
04/H119 *	<p>Control of Semi-solid Microstructure of High-melting Alloys by the Electromagnetic Stirring S.-C. Lim (Sp), H.-B. Lee, K.-H. Kim, H.-C. Kwon, Korea Institute of Industrial Technology, Incheon (Korea, Republic)</p>
05/H120 *	<p>The Effect of Electromagnetic Stirring on the Semi-solid Microstructure of AZ91D Mg Alloys H.-B. Lee (Sp), S.-K. Lee, S.-C. Lim, H.-C. Kwon, Korea Institute of Industrial Technology, Incheon (Korea, Republic)</p>
06/H173	<p>Preparation of Cr₂-xTi_xO₃ by Self-propagating High-temperature Synthesis M.L. Chernega (Sp), M.V. Kuznetsov, Y.G. Morozov, ISMAN, Chernogolovka (Russian Federation)</p>
07/H226	<p>Fabrication of Cellular Ceramics Structures by Gel-Casting and Rapid Prototyping J. Horna (Sp), J. Stampfl, Technical University of Vienna, Wien (Austria)</p>
* = no oral presentation	

Tuesday, 5 September 2006, 9:30 - 12:30 h

ORAL AND POSTER PRESENTATION

Poster No.	Lecture Hall B and Poster Area I - Session 1 -
09/H229 *	Copper Powders Preparation by Solvothermal Process L.M. Vladutiu (Sp), University Politehnica of Bucharest (Romania); D. Sotca, National Institute of Chemicals Research Bucharest (Romania); D. Taloi, I. Constantin, F. Pereteanu, F. Miculescu, University Politehnica of Bucharest (Romania)
10/H282	Determination of Friction in Bulk Metal Forming Using Ring Compression Test D. Horwatitsch (Sp), R. Gradinger, ARC Leichtmetallkompetenzzentrum Ranshofen (Austria); A. Merstallinger, ARC Seibersdorf research (Austria)
11/H304	Effect of Processing Temperature on Grain Refinement and Tensile Property of Pure Aluminum Applied Compressive Torsion Combined Loading Y. Kume (Sp), M. Kobashi, N. Kanetake, Nagoya University (Japan)
12/H314	Online Melt - Pressure Control inside Hot Runner Systems J. Puta (Sp), Technical University of Liberec (Czech Republic); H.-J. Schreyer, Synventive Molding Solutions GmbH, Bensheim (Germany)
13/H321 *	Forged High Density Parts Made of Recovered Powders C. Ghermec (Sp), D. Marin, M. Mihail, University of Craiova (Romania)
14/H323 *	MP Bicomponent Guidance Bushing for Machine Retaining Devices S. Radu (Sp), M. Didu, M. Mangra, University of Craiova (Romania)
15/H4	Welding Repair of Gas Turbines Y. Yahmi (Sp), R. Rabahotmani, M. Hakem, Reseach Center of Welding & Controle, Algiers (Algeria)
16/H350	An Improvement of a Technology for Production of Fine Ni-Base Superalloy Powder A. Knyazev (Sp), All Russia Institute of Light Alloys Stock Co., Moscow (Russian Federation)
01/M84	Interactions of Mucins with Aluminium Polyoxocations and Aluminium Hydroxides A. Fournier (Sp), The Nottingham Trent University (UK)
* = no oral presentation	

Tuesday, 5 September 2006, 9:30 - 12:30 h

ORAL AND POSTER PRESENTATION

Poster No.	Lecture Hall B and Poster Area I - Session 1 -
	<p>Topic M Biomimetic and Bioinspired Approaches; Biofunctional Materials</p> <p>Chair: C. Blanc</p>
02/M133	<p>Study of Occurrence of Gellan- and Xanthan-degrading Bacteria M. Muchová (Sp), L. Dobrovolna, J. Ruviecka, Tomas Bata University, Zlín (Czech Republic)</p>
03/M146 *	<p>Electrospinning-based Formation of Nanofibres of 2-Hydroxyethyl Methacrylate and 2-Ethoxyethyl Methacrylate V. Guryca (Sp), M. Pradny, R. Hobzova, L. Martinova, T. Fenclova, J. Michalek, ASCR, Prague (Czech Republic)</p>
04/M148 *	<p>Biodegradable Superporous Hydrogels Based on Copolymers of 2 Ethoxyethyl Methacrylate and Hydroxypropyl Methacrylamide R. Hobzova, M. Pradny, V. Guryca (Sp), ASCR, Prague (Czech Republic); P. Lesny, P. Jendelova, A. Hejč, Charles University, Prague (Czech Republic); J. Michalek, ASCR, Prague (Czech Republic)</p>
05/M149 *	<p>Surface Modification of Acrylate Polymer Networks with Bioactive Motives Targeted for Tissue Engineering H. Kompertova, V. Guryca (Sp), R. Hobzova, M. Prady, J. Michalek, ASCR, Prague (Czech Republic)</p>
06/M189	<p>Reaction-bonded Ceramics with Compensated Sintering Shrinkage for the Use as a Dental all Ceramic Prostheses Material N. Schleichriemen (Sp), J.R. Binder, H.-J. Ritzhaupt-Kleissl, J. Haußelt, Forschungszentrum Karlsruhe GmbH, Eggenstein-Leopoldshafen (Germany)</p>
07/M193	<p>Synthesis and in Vitro Evaluation of Ceramic Fibres as an Implantable Drug Delivery System C. Vervaet, Ghent University (Belgium); M. Ravelingien (Sp), VITO, Mol (Belgium); J.P. Remon, Ghent University (Belgium); J. Luyten, S. Mullens, VITO, Mol (Belgium); R. Six, Ghent University (Belgium)</p>
* = no oral presentation	

Tuesday, 5 September 2006, 9:30 - 12:30 h

ORAL AND POSTER PRESENTATION

Poster No. / Time	Lecture Hall B and Poster Area I - Session 1 -
08/M236 *	<p>Osteoblast Cells Activity on Calcium Phosphate Layers Grown on Glass by Laser-liquid-solid Interaction M. Dimitrova (Sp), L. Pramatarova, E. Pecheva, Bulgarian Academy of Sciences, Sofia (Bulgaria); P. Laquerriere, INSERM, Reims (France); P. Montgomery, D. Montaner, CNRS, Strasbourg (France); A. Petrova, Bulgarian Academy of Sciences, Sofia (Bulgaria)</p>
09/M296	<p>The Elaboration of the Sol-Gel Methods of the Receiving of the Thin Films, that Contain Incorporated Urea for Sensitive Elements of the Biosensors R. Pogorilyi (Sp), V.P. Honcharyk, L.I. Kozhara, Y.L. Zub, Institute of Chemistry of Surface, NAS of Ukraine, Kyiv (Ukraine)</p>
10/M360	<p>Can Natural Cork and Derivative Products be Used as Smart Sensors? J.N. Marat-Mendes (Sp), M.C. Lanca, New University of Lisbon, Caparica (Portugal); E.R. Neagu, Technical University of Iasi (Romania)</p>
	<p>Discussion in front of the Poster Panels of Poster Area I (Topics: C, H, M)</p>
12:30 - 14:00	<p>Lunch</p>
14:00	<p>Submission deadline of the voting papers of Poster Session 1</p>
<p>* = no oral presentation</p>	

Tuesday, 5 September 2006, 14:00 - 18:00 h

ORAL AND POSTER PRESENTATION

Poster No.	Lecture Hall B and Poster Area II - Session 2 -
	<p>Topic I Surface Engineering: Laser, Spraying, CVD Chair: A. Mlich, Czech Technical University, Prague</p>
01/111	<p>The Angle of the HVOF Spraying and his Influence on the Mechanical Properties of WC-Co Coating M. Kasparova (Sp), R. Enzl, F. Zahalka, Skoda Vyzkum s.r.o., Plzen (Czech Republic)</p>
02/148	<p>Evaluation of Adhesiv Cohesive Failure from Cyclic Scratch Test by Analysis from Surface and Cross Section of System Thin Film- Substrate K. Machackova (Sp), University of West Bohemia, Pilsen (Czech Republic)</p>
03/177	<p>Deposition and Characterization of CVD-multilayers P. Wolff (Sp), TU Bergakademie Freiberg (Germany); M. Kathrein, Ceratizit Austria GmbH, Reutte (Austria)</p>
04/187 *	<p>Photocatalytic Activity of Doped TiO2 Coatings Prepared by Sputtering Deposition and Ion Implantation Processes S.-M. Chiu (Sp), Z.-S. Chen, Metal Industries R&D Center, Kaohsiung (Taiwan); C.-M. Kuo, Feng Chia University, Taichung (Taiwan); Y.-L. Hsu, National Cheng Kung University, Tainan (Taiwan)</p>
05/192	<p>Surface Nano-modification of PET by Laser Treatment P. Slepicka (Sp), Institute of Chemical Technology, Prague (Czech Republic); J. Heitz, Johannes Kepler University, Linz (Austria); V. Svorcik, Institute of Chemical Technology, Prague (Czech Republic); M. Spirkova, ASCR, Prague (Czech Republic); V. Kotal, Institute of Chemical Technology, Prague (Czech Republic)</p>
06/1101	<p>Singularity in Growth of PT and IR Films Obtained by Metal-organic Chemical Vapour Deposition H. Nizard (Sp), EADS Forschungszentrum, München (Germany); N.V. Gelfond, N.B. Morozova, I.K. Igumenov, Siberian Branch of Russian Academy of Sciences, Novosibirsk (Russia); H. Fizek, L. Gimeno-Fabra, EADS Forschungszentrum, München (Germany); A. Redjaimia, Institut National Polytechnique de Lorraine, Nancy (France)</p>
07/1122 *	<p>Evolutionary Series of Protection Paint Systems on Base Siloxan R. Siostrzonek (Sp), J. Podjuklová, K. Hrabovská, M. Slabáková, M. Filipová, Technical University of Ostrava, Ostrava-Poruba (Czech Republic)</p>
* = no oral presentation	

Tuesday, 5 September 2006, 14:00 - 18:00 h

ORAL AND POSTER PRESENTATION

Poster No.	Lecture Hall B and Poster Area II - Session 2 -
08/1128	Microwave Assisted CVD on Graphite Powders H. Wolf (Sp), A. Schmidt, Z. Pajkic, M. Willert-Parada, Universität Bayreuth (Germany)
09/1139	Thin Au Layer on Polyethylene Influenced by Plasma Modification V. Kotal (Sp), P. Slepicka, V. Svarcik, Institute of Chemical Technology, Prague (Czech Republic)
10/1153	Modification of Surface Properties of Polyethylene K. Kolarova (Sp), V. Svarcik, J. Nahlik, Institute of Chemical Technology, Prague (Czech Republic)
11/1158	Continuous Coating of Synthetic Fibers Using Hexamethyldisiloxane (HMDSO) E. Körner (Sp), M. Keller, P. Fortunato, D. Hegemann, EMPA, St. Gallen (Switzerland)
12/1160 *	Surface Coating of Ytterbium Silicate on Silicon Nitride Using Laser Ignited Microwave Plasma M. Knoll (Sp), S. Schoemaker, M. Willert-Parada, Universität Bayreuth (Germany)
13/1169	CVD of Aluminium Compounds on Carbon Materials in Microwave Plasma FBR Z. Pajkic (Sp), H. Wolf, M. Willert-Parada, Universität Bayreuth (Germany)
14/1178 *	Mechanical Properties of Vitreous Enamel Coatings on Steel Substrates K. Hrabovska (Sp), K. Barova, J. Podjuklova, M. Sionko, Technical University of Ostrava, Ostrava-Paruba (Czech Republic)
15/1213 *	Wear Resistance of Chromium Coatings P. Benes (Sp), A. Kriz, J. Hajek, M. Sosnova, University of West Bohemia, Pilsen (Czech Republic)
16/1238 *	Predeposition Process of Thin Layers P. Podany (Sp), A. Kriz, University of West Bohemia, Plzen (Czech Republic)
17/1270	Fatigue Properties of Steel Bodies with Thermally Sprayed Coatings of Various Compositions J. Bensch (Sp), Czech Technical University, Prague (Czech Republic)
* = no oral presentation	

Tuesday, 5 September 2006, 14:00 - 18:00 h

ORAL AND POSTER PRESENTATION

Poster No.	Lecture Hall B and Poster Area II - Session 2 -
18/1278	Deposition of Thin Films from Organic Semiconductors by MAPLE Technology P. Fítl (Sp), V. Myslík, Institute of Chemical Technology Prague (Czech Republic); M. Jelinek, Czech Technical University, Prague (Czech Republic); D. Kopecky, M. Vrnata, R. Šipula, Institute of Chemical Technology Prague (Czech Republic); T. Kocourek, Czech Technical University, Prague (Czech Republic); R. Fryček, Institute of Chemical Technology Prague (Czech Republic)
19/1284	Influence of Pulsed Substrate Bias and Different Substrate Materials on the Structure and Properties of CrN Coatings Deposited by Reactive DC Magnetron Sputtering S. Grasser (Sp), Materials Center Leoben (Austria); G. Gassner, R. Daniel, C. Walter, C. Mitterer, University of Leoben (Austria)
20/1291	Mechanical Properties of TiAlSiN Thin Films J. Savková (Sp), University of West Bohemia, Pilsen (Czech Republic); J. Sondor, Liss a.s., Rožnov (Czech Republic); O. Blahová, University of West Bohemia, Pilsen (Czech Republic)
* = no oral presentation	

Tuesday, 5 September 2006, 14:00 - 18:00 h

ORAL AND POSTER PRESENTATION

Poster No.	Lecture Hall B and Poster Area II - Session 2 -
	<p>Topic L Materials Characterisation: Mechanical Testing, Advanced Analytical Techniques NDE, Materialographie</p> <p>Chair: A. Mlich, Czech Technical University, Prague</p>
01/L7	<p>Structure and Elemental Distribution in Beilby Layer on the Surface of Fe-Cr-Al-La Alloy O. Tsurtsunia (Sp), E. Kutelia, Georgian Technical University, Tbilisi (Georgia); H. Adanir, S. Bakhtiyarov, New Mexico Institute of Mining and Technology (USA); B. Eristavi, Georgian Technical University, Tbilisi (Georgia)</p>
02/L15	<p>The Effect of Titanium Content on the Microstructure and Wear Properties of Fe-TiC Composite K. Mehrabi (Sp), Montane University, Leoben (Austria); E. Tohidloo, University of Sistan & Baloochestan, Zahedan (Iran); M.R. Rahimpour, Materials and Energy Research Center, Tehran (Iran)</p>
03/L20 *	<p>Not Destroying Quality Monitoring of Thickness Alpha Layer in Titanic Alloys N. Nochovnaya, D. Sivakov (Sp), All Russian Institute of Air Materials, Moscow (Russian Federation)</p>
04/L27	<p>Microstructure, Mechanical and Electrical Properties of Cu - 7 wt. - % Ag - 0,05 wt. - % Zr Alloys J. Lyubimova (Sp), J. Freudenberger, A. Gaganov, L. Schultz, IFW Dresden (Germany)</p>
05/L30	<p>Analysis of Residual Stresses after Electro Discharge Machining K. Kolarik (Sp), N. Ganev, J. Barcal, Czech Technical University, Prague (Czech Republic)</p>
06/L47	<p>A New Approach to Characterize Thermo-oxidative Ageing Mechanism of Rubber Materials by Chemiluminescence M.A. Santoso (Sp), U. Giese, R.H. Schuster, Deutsches Institut für Kautschuktechnologie e.V., Hannover (Germany)</p>
07/L72	<p>Carbon Containing Materials for Refractory Applications in Steel Metallurgy M. Hampel (Sp), D. Borzov, C.G. Aneziris, TU Bergakademie Freiberg (Germany)</p>
* = no oral presentation	

Tuesday, 5 September 2006, 14:00 - 18:00 h

ORAL AND POSTER PRESENTATION

Poster No.	Lecture Hall B and Poster Area II - Session 2 -
08/L79	Master Curve Approach for Embrittled Reactor Pressure Vessel Steels C. Zurbuchen (Sp), H.-W. Viehrig, Forschungszentrum Rossendorf, Dresden (Germany)
09/L117	The Adsorption of Superplasticizers on the Individual Mineral Components of Concrete Mixtures P. Siler (Sp), J. Kratky, Brno University of Technology (Czech Republic)
10/L166	Thermal Expansion Behavior of High Volume Fraction Particulate Al/Al₂O₃ Interpenetrated Phase Composite (IPCs) G. Rudini (Sp), R. Tavangar, L. Weber, A. Mortensen, EPFL, Lausanne (Switzerland)
11/L167	The Application of Fractional Gas Analysis Method for Control of Steel Cleanness S. Shibaev (Sp), K.V. Grigorovitch, A.K. Garber, Russian Academy of Sciences, Moscow (Russian Federation)
12/L191	Novel Application of Aerated Autoconclaved Concrete (AAC) as a Support for Transition Metal Oxides D. Vasilakakis (Sp), P. Ptacek, T. Opravil, J. Havlica, Brno University of Technology (Czech Republic); L. Mörl, Otto-von-Guericke Magdeburg University (Germany)
13/L196 *	Microstructural Development of Austenitic Steel by Free Forging R. Divisová (Sp), D. Jandova, University of West Bohemia, Pilsen (Czech Republic); J. Drnek, COMTES FHT, Pilsen (Czech Republic)
14/L214	In Depth Analysis of the Sintering Process by High Resolution Tomography of Spherical Copper Powder R. Grupp (Sp), M. Nöthe, M. Schulze, B. Kieback, Technische Universität Dresden (Germany); A. Haibel, Hahn-Meitner-Institut, Berlin (Germany)
15/L230 *	Final Microstructures of the Aluminium Bearing TRIP Steel Detected after Thermomechanical Processing T. Gajdzica (Sp), G. Pleštilová, J. Klíber, VSB-Technical University of Ostrava, Ostrava-Poruba (Czech Republic)
16/L244	Examining the Entalpy of Mixing in KCl-K₂TiF₆ System Z. Demeter (Sp), G. Kaptay, University of Miskolc (Hungary)
* = no oral presentation	

Tuesday, 5 September 2006, 14:00 - 18:00 h

ORAL AND POSTER PRESENTATION

Poster No.	Lecture Hall B and Poster Area II - Session 2 -
17/L248	New Technique for Testing Impact Wear R. Tarbe (Sp), P. Kulu, Tallinn University of Technology (Estonia)
18/L274	Simplified Petrographic Description of Granitic Aggregates for Concrete N. Castro (Sp), V. Teixeira, University of Porto (Portugal)
19/L290	Dynamic Strain Aging of Nuclear Power Plant Materials M. Ivanchenko (Sp), Y. Yagodzinskiyy, H. Hanninen, Laboratory of Engineering Materials, Espoo (Finland)
20/L334 *	Correlation of Low-velocity Impact Strength with Static Material Properties for Whisker Re-enforced Al₂O₃/SiC Ceramic Composites K. Aldheylan (Sp), KFUPM, Dhahran (Saudi Arabia)
21/L337	Lifetime Behavior and Damage Mechanisms under Superimposed Thermal Mechanical Fatigue and High Cycle Fatigue Loading T.A. Egly (Sp), I. Henne, J. Luft, T. Beck, K.-H. Lang, D. Löhe, Universität Karlsruhe (TH) (Germany)
22/L359	The Final Thermally Stimulated Discharge Current Technique: A Tool to Investigate the Dielectric Relaxation in Polar and Nonpolar Materials J.N. Marat-Mendes (Sp), New University of Lisbon, Caparica (Portugal); E.R. Neagu, R.M. Neagu, Technical University of Iasi (Romania); M.C. Lanceditl, New University of Lisbon, Caparica (Portugal)
23/L316 *	Interaction of Mercury to a Constructional Alloys and Development of the New Methods of Mercury Affected Objects Cleaning S. Shapiev (Sp), K. Ibragimov, T. Shapiev, R. Uspajiev, N. Mokaeva, RSA, Grozny (Russian Federation)
* = no oral presentation	

Tuesday, 5 September 2006, 14:00 - 18:00 h

ORAL AND POSTER PRESENTATION

Poster No.	Lecture Hall B and Poster Area II - Session 2 -
	<p>Topic N Nanostructured Materials</p> <p>Chair: A. Mlich, Czech Technical University, Prague</p>
01/N6 *	<p>STM Investigations of Nanocomposite Thin Films of Si and Ge obtained by Thermal Evaporation in Ultra-High Vacuum R.G. Valeev (Sp), D. Surnin, V. Vetoshkin, Russian Academy of Science, Izhevsk (Russian Federation)</p>
02/N23	<p>STM/AFM Studies of the Early Stages of Cobalt Deposition on Gold I. Flis-Kabulska (Sp), Institute of Physical Chemistry PAS, Warsaw (Poland)</p>
03/N29	<p>Electron diffraction analysis of local order in amorphous Ge₁Sb₂Te₄ G. Lapyeva (Sp), Rheinisch-Westfälische Technische Hochschule Aachen (Germany)</p>
04/N36	<p>Flame Synthesis of Nanoscaled Al₂O₃-C, TiO₂-C and Al₂TiO₅ Powders U. Klippel (Sp), C.G. Aneziris, Technische Universität Bergakademie Freiberg (Germany); A. Vital, T. Graule, EMPA Duebendorf (Switzerland)</p>
05/N40	<p>Keratin/PEO blend Nanofibres Production by Electrospinning A. Aluigi (Sp), C. Vineis, CNR-ISMAC, Biella (Italy); F. Ferrero, G. Mazzuchetti, Politecnico Torino (Italy); C. Tonin, CNR-ISMAC, Biella (Italy)</p>
06/N45	<p>The Engineering of CaCO₃ Sub-micro Crystals of Well-defined Structure K. Kedra-Krolik (Sp), P. Gierycz, Polish Academy of Sciences, Warsaw (Poland)</p>
07/N56	<p>Volatile Components of South Algerian Nigella Sativa Linn. Oil Extracted by Hydrodistillation and Microwave Process F. Benkaci-Ali (Sp), A. Baaliouamer, B.Y. Meklati, University of Algiers (Algeria)</p>
08/N57	<p>Preparation of Silica and Titania Aerogels with Nonlinear Optical Properties S. Lisinski (Sp), Deutsches Zentrum für Luft- und Raumfahrt e.V., Köln (Germany); D. Schaniel, Universität Köln (Germany); L. Ratke, Deutsches Zentrum für Luft- und Raumfahrt e.V., Köln (Germany); T. Woike, Universität Köln (Germany)</p>
* = no oral presentation	

Tuesday, 5 September 2006, 14:00 - 18:00 h

ORAL AND POSTER PRESENTATION

Poster No.	Lecture Hall B and Poster Area II - Session 2 -
09/N100	<p>Heteroepitaxial Growth of Nano-composite (LaSr)MnO / ZnO Thin Films on SrTiO (001) P. Zerrer (Sp), Max-Planck-Institut für Metallforschung, Stuttgart (Germany); M. Vickers, J. MacManus-Driscoll, University of Cambridge (UK); F. Aldinger, Max-Planck-Institut für Metallforschung, Stuttgart (Germany)</p>
10/N107	<p>Cuprum-fullerite Films and Their Structural Properties S.V. Chertopalov (Sp), A.I. Bazhin, A.N. Trotsan, Donetsk National University (Ukraine); A.N. Magasinski, Institute of Physical Organic Chemistry, Donetsk (Ukraine)</p>
11/N121	<p>Polyisoprene-nanostructured Carbon Black and Carbon Nanotube Composites as Progressive Tensile and Compressive Strain Sensing Materials J. Zavickis (Sp), M. Knite, V. Tupureina, V. Teteris, I. Klemenoks, Technical University of Riga (Latvia); A. Fuih, University of Vienna (Austria)</p>
12/N126 *	<p>Planar Waveguide Elaboration by Ion Exchange Technique F. Catan (Sp), J.-P. Blondeau, L. Allam, University of Orléans, Chartres (France)</p>
13/N138 *	<p>Magnetic Properties at High Temperature of HITPERM-type Alloys M. Kowalczyk (Sp), J. Ferenc, X.B. Liang, T. Kulik, Warsaw University of Technology (Poland)</p>
14/N157	<p>Noble-metal Nanoparticle Patterning Deposition Using Pulsed-laser Deposition in Liquid for Surface-enhanced Raman Scattering H. Cui (Sp), P. Llu, G.W. Yang, Zhongshan University, Guangzhou (China)</p>
16/N170 *	<p>Determination of the Distance between Grafted Functions on Mesoporous Material by Molecular Probes S. Abry (Sp), A. Belen, B. Laurent, Ecole Normale Supérieure de Lyon (France); Y. Hideaki, Yokohama National University (Japan)</p>
17/N186	<p>Comparison and Influence of Various Preparation Methods of Titania Thin Films Properties A. Ilik (Sp), I. Piwonski, University of Lodz (Poland)</p>
* = no oral presentation	

Tuesday, 5 September 2006, 14:00 - 18:00 h

ORAL AND POSTER PRESENTATION

Poster No.	Lecture Hall B and Poster Area II - Session 2 -
18/N188	Controlled Formation and Size-selected Deposition of Indium Nanoparticles from a Microwave Flow Reactor on Semiconductor Surfaces K. Hitzbleck (Sp), I. Plümel, H. Wiggers, P. Roth, Universität Duisburg Essen (Germany)
19/N194	Bimetallic Pt-Sn Molecular Complexes Covalently Linked in Mesostructured Silicas as Active Catalysts in the Hydrogenation of Unsaturated Molecules N. Crowther (Sp), V. Dufaud, L. Bonneviot, Ecole Normale Supérieure de Lyon (France)
20/N211 *	Bulk Nanostructured Al-Si-Ni-Mn(MISHMETAL) Alloys Produced by High-pressure Hot Compaction G. Cieslak (Sp), J. Latuch, T. Kulik, Warsaw University of Technology (Poland)
22/N227 *	Nanocrystalline Ni₃Al Alloy Produced by Mechanical Alloying of Nickel Aluminides and Hot-pressing Consolidation A. Antolak (Sp), M. Krasnowski, T. Kulik, Warsaw University of Technology (Poland)
23/N233	Polypropylene Organically Modified Montmorillonite Nanocomposite: Preparations and Properties S. Gaidukov (Sp), N. Lilicenko, J. Zicans, M. Kalnins, Riga Technical University (Latvia)
24/N253 *	Nanostructured Magnetic Ni-W Electrodeposits: Structure-property Relationships V. Nica (Sp), S. Chirca, N. Sulitanu, "Al.I.Cuza" University, Iasi (Romania)
25/N271	TiO₂ Nanopowders for Gas Sensing Applications; a Comparison Between Traditional and Hydrothermal Synthesis Way M. Nagliati (Sp), M.C. Carotta, D. Puzzovio, University of Ferrara (Italy); I.G. Lesci, University of Bologna (Italy); G. Martinelli, University of Ferrara (Italy)
26/N306 *	Formation of Cobalt Nanoparticles in Inorganic Matrix by Frontal Polymerisation and Thermolysis of Metal Containing Monomers E. Sówka (Sp), M. Leonowicz, Warsaw University of Technology (Poland); J. Kazmierczak, A. Sławska-Waniewska, Polish Academy of Science, Warsaw (Poland); A.D. Pomogailo, G.I. Dzhardimalieva, RAS, Chernogolovka (Russia)
* = no oral presentation	

Tuesday, 5 September 2006, 14:00 - 18:00 h

ORAL AND POSTER PRESENTATION

Poster No. / Time	Lecture Hall B and Poster Area II - Session 2 -
27/N312 *	<p>Nanostructured Carbon-Polyisoprene Composites Electric Resistance Dependence of Exposure to Different Organic Vapor G. Sakale (Sp), M. Knite, I. Klemencks, V. Teteris, Riga Technical University (Latvia)</p> <p>Winner of the TMS Poster Contest 2006</p>
28/N335 *	<p>Imaging Charge Carrier Transport in Semiconductor Nanowires for a Solar Cell Application J. Romankiewicz (Sp), Northwestern University, Short Hills, NJ (USA); Y. Gu, L. Lauhon, Northwestern University, Evanston, IL (USA)</p>
29/N354 *	<p>Lanthanide-based Lamellar Nanohybrids: A New Class of Luminophores? M. Karmaoui (Sp), R.A. Sá Ferreira, L.D. Carlos, N. Pinna, University of Aveiro (Portugal)</p>
30/N242	<p>One-dimensional Phase Transition in Nanostructured Vanadium Dioxide A. Khodin (Sp), National Academy of Sciences of Belarus, Minsk (Belarus); E. Outkina, Belarussian State University of Informatics and Radioelectronics, Minsk (Belarus); H.-I. Hwang, S.-M. Hong, G.-D. Si, Korea Electronics Technology Institute, Seongnam (Republic of Korea)</p>
31/N364 *	<p>The Study of Zeolites Molecular Sieves Synthesis from Sodium Silicate and Aluminate "Sol" K.B. Hoang (Sp), Moscow State Academy of Fine Chemical Technology (Russian Federation)</p>
	<p>Discussion in front of the Poster Panels of Poster Area II (Topics: I, L, N)</p>
17:30	<p>Submission deadline of the voting papers of Poster Session 2</p>
* = no oral presentation	

Wednesday, 6 September 2006, 9:00 - 12:30 h

ORAL AND POSTER PRESENTATION

Time / Poster No.	Lecture Hall B and Poster Area I - Session 3 -
9:00 - 9:30	FEMS-Lecture
	Topic A Mechanical Properties: Plastic Deformation, Fatigue, Fracture, Creep
01/A43	Fully Automatic Crack Propagation Experiments at Steel C 45 E and Aluminium 6013 T62 J. Mladek (Sp), J. Bär, H.-J. Gudladt, Universität der Bundeswehr München, Neubiberg (Germany)
02/A67	High Temperature Deformation of Ti6Al4V at Low Strain Rate M. Vanderhastan (Sp), L. Rabet, Royal Military Academy of Belgium, Brussels (Belgium); B. Verlinden, Katholieke Universiteit Leuven, Heverlee (Belgium)
03/A73	Residual Strength of the Aerospace Al-alloy Panels with Laser Beam Welded Stringers and Clips M.V. Uz (Sp), M. Kocak, GKSS Forschungszentrum, Geesthacht (Germany)
04/A95 *	Z-Phase in 9-12%Cr Steels H.K. Danielsen (Sp), Technical University of Denmark, Lyngby (Denmark); J. Hald, Elsam, Lyngby (Denmark)
05/A105	Effect of Decarburation on Fatigue Strength of a 50CrV4 Steel A. Sironi (Sp), M. Boniardi, D. Ripamonti, Politecnico di Milano (Italy); M. Villa, Scientific Institute Breda, Milano (Italy)
06/A108 *	Acoustic Emission Study of the Mechanical Anisotropy of Extruded AZ31 P. Dobron (Sp), F. Chmelik, Charles University, Prague (Czech Republic); J. Bohlen, J. Swiastek, D. Letzig, K.U. Kainer, GKSS Research Centre, Geesthacht (Germany)
07/A111	Corrosion, Wear and Fatigue: Comparison between Nitriding and Post-oxidising Treatments of AISI 4140 M. Boniardi, D. Ripamonti, A. Sironi (Sp), Politecnico di Milano (Italy)
08/A112 *	Experimental Investigations of the Hydroforming Process Performed on Seamless Tube of Al 7003 R. Riva (Sp), S. Barella, C. Mapelli, Politecnico di Milano (Italy)
* = no oral presentation	

Wednesday, 6 September 2006, 9:30 - 12:30 h

ORAL AND POSTER PRESENTATION

Poster No.	Lecture Hall B and Poster Area I - Session 3 -
09/A124	Modelling of Biaxial Creep Behaviour and Internal Back Stress of AlMg2.7Mn at Elevated temperature N. Serour (Sp), Fayoum University (Egypt); E. El-Magd, Aachen University of Technology (Germany)
10/A125	Analysis of Operational Degradation of Railway Wheel Treads P. Svanda (Sp), E. Schmidova, L. Benes, University of Pardubice (Czech Republic)
12/A135 *	Forging Process of a Drive Shaft made of Duplex F51: Metallographic Analysis and Process Simulation C. Corna (Sp), S. Barella, C. Mapelli, R. Riva, Politecnico di Milano (Italy)
13/A143	The Influence of Different Polymers on Deformation Behaviour and Stiffness Processing of Concrete A. Flohr (Sp), K.A. Bode, A. Dimmig-Osburg, Bauhaus-Universität, Weimar (Germany)
15/A155	Size Effect in Mechanical Properties of fcc Single Crystals Simulated by 3-d DDD: Analysis of the Effect of Dislocation Reactions J. Senger (Sp), Universität Karlsruhe (Germany)
16/A198	Toughness of a TiAl Intermetallic at High Temperature N. Barbi (Sp), R. Goodall, F. Diologent, A. Mortensen, Ecole Polytechnique Fédérale de Lausanne (Switzerland)
17/A199	The Propagation Behaviour of Short Fatigue Cracks during HCF Loading H. Knobbe (Sp), P. Köster, Universität Siegen (Germany)
18/A200	Damage and Fracture of Particle-reinforced Metal Matrix Composites A. Hauert (Sp), A. Rossoll, A. Mortensen, EPFL, Lausanne (Switzerland)
19/A215	The Effects of Sintering Temperatures on the Mechanical Properties of Mullite Foam Filter (MFF) Z. Negahdari (Sp), Universität Bayreuth (Germany); M. Solati, Amirkabir University of Technology, Tehran (Iran)
20/A225	Improving the Fatigue Properties of Beta-Titanium Alloys by Thermohydrogen Processing P. Schmidt (Sp), G. Lohse, H.-J. Christ, Universität Siegen (Germany)
* = no oral presentation	

Wednesday, 6 September 2006, 9:30 - 12:30 h

ORAL AND POSTER PRESENTATION

Poster No.	Lecture Hall B and Poster Area I - Session 3 -
21/A234	<p>Deformation Behaviour and Strength in Electrodeposited Nickel S. Brandstetter (Sp), R. Maaß, Paul Scherrer Institute, Villigen (Switzerland); X. Sauvage, University of Rouen, Saint Etienne du Rouvray (France); S. van Petegem, H. Van Swygenhoven, Paul Scherrer Institute, Villigen (Switzerland)</p>
22/A235	<p>XRD-microbeam Diffraction on Size Effects in Metals R. Maaß (Sp), Paul Scherrer Institut, Villigen (Switzerland); E. Lilleoden, Forschungszentrum Karlsruhe (Germany); S. Van Petegem, Paul Scherrer Institut, Villigen (Switzerland); R. Schwaiger, Forschungszentrum Karlsruhe (Germany); H. Van Swygenhoven, Paul Scherrer Institut, Villigen (Switzerland)</p>
23/A263	<p>Fatigue Behaviour of Nickel-based Alloys in the Very High Cycle Fatigue (VHCF) Range C. Stöcker (Sp), M. Zimmermann, Universität Siegen (Germany)</p>
24/A275	<p>Multiple Slip and Texture Evolution during Tensile Tests of Polycrystalline High Purity Aluminum Foils M. Lederer (Sp), W. Pichel, G. Khatibi, A. Schaffler, B. Weiss, Universität Wien (Austria)</p>
25/A283	<p>Thermal Fatigue Testing of the PWR Secondary Circuit Piping J. Mononen (Sp), Helsinki University of Technology, Espoo (Finland); I. Virkkunen, Trueflaw Ltd., Espoo (Finland); H. Hänninen, Helsinki University of Technology, Espoo (Finland)</p>
26/A332 *	<p>Workability Map for Al Mg Si 6082 Alloy and Verification of Dynamic Material Model J. Povysil (Sp), J. Petruselka, VSB- Technical University Ostrava, Ostrava-Poruba (Czech Republic)</p>
27/A336	<p>Winner of the TMS Poster Contest 2006 Corrosion-Fatigue Study of Hastelloy - C2000 R. Steward (Sp), H. Janda, The University of Tennessee-Knoxville, Knoxville, TN (USA); K. Gwathney, Mercer University, Macon, GA (USA); R. Buchanan, P. Liaw, The University of Tennessee-Knoxville, Knoxville, TN (USA)</p>
28/A363 *	<p>Generalised Creep Potential for Hard Foams E. Leimann (Sp), A. Bolchoun, V.A. Kolupaev, M. Moneke, Deutsches Kunststoff-Institut, Darmstadt (Germany)</p>
* = no oral presentation	

Wednesday, 6 September 2006, 9:30 - 12:30 h

ORAL AND POSTER PRESENTATION

Poster No.	Lecture Hall B and Poster Area I - Session 3 -
	Topic K Simulation Methods and Modelling Methods
01/K39	Numerical Modelling of the Solar Cladding Process C. Sanchez Bautista (Sp), University of Castilla-La Mancha, Ciudad Real (Spain); G.P. Rodriguez, ET SII-UCLM,, Ciudad Real (Spain); A. Ferriere, PROMES-CNRS, Odeillo (France)
02/K41 *	Precise Temperature Regulation during In-situ Electrical Resistivity Measurements M. Hájek (Sp), Charles University, Prague (Czech Republic); O. Holub, Czech Technical University, Prague (Czech Republic)
03/K49	FE-simulation of the Mechanical Behaviour of the Heterogeneous Materials Using a Microstructure Based Mesomodel S. Ataya (Sp), M. Korthäuser, E. El-Magd, RWTH Aachen (Germany)
04/K52	Ab Initio Study of Magnetism of Cobalt in Various Crystallographic Structures and along the Tetragonal and Trigonal Deformation Paths M. Zeleny (Sp), Brno University of Technology (Czech Republic); D. Legut, Academy of Sciences of the Czech Republic, Brno (Czech Republic); M. Sob, Masaryk University, Brno (Czech Republic)
05/K74 *	Modeling of Microstructure of Cement Paste Using Image Analysis K. Forstova (Sp), J. Nemecek, CTU Prague, Prague (Czech Republic)
06/K91	FEM-analysis of GRP-flangejoints Aiming the Optimisation of the Joint L. Marks (Sp), Technische Universität Clausthal, Clausthal-Zellerfeld (Germany); K. Kittel, Otto-von-Guericke Universität, Magdeburg (Germany); S. Vajna, Otto-von-Guericke University, Magdeburg (Germany); G. Ziegmann, Technische Universität Clausthal, Clausthal-Zellerfeld (Germany)
07/K97	Stereology of Anisotropic Materials J. Prochazka (Sp), P. Panizil, R. Cermak, Tomas Bata University, Zlin (Czech Republic); I. Saxl, ASCR, Prague (Czech Republic)
* = no oral presentation	

Wednesday, 6 September 2006, 9:30 - 12:30 h

ORAL AND POSTER PRESENTATION

Poster No.	Lecture Hall B and Poster Area I - Session 3 -
08/K116	<p>Role of Calcium Hydroxyapatite in Bioglasses: an Ab-Initio Study M. Corno (Sp), University of Turin (Italy); C. Busco, University of Piemont Orientale, Novara (Italy); B. Civaleri, University of Turin (Italy); A. Pedone, University of Modena & Reggio Emilia (Italy); P. Ugliengo, University of Turin (Italy)</p>
09/K137	<p>FE-Simulation of the Heat Treatment of Different Multi-component Coatings S. Huth (Sp), W. Theisen, Ruhr-Universität Bochum (Germany)</p>
10/K156	<p>Coarsening of Gamma Precipitates in Gamma' Coherent Ordered Matrix in Ni-Al Alloys J. Boisse (Sp), N. Lecoq, H. Zapolsky, R. Patte, University of Rouen, Saint-Etienne du Rouvray (France)</p>
11/K164 *	<p>Simulation of Carbon and Nitrogen Activity in New Power Plant Steels Z. Hodisz (Sp), Brno University of Technology (Czech Republic); J. Sopousek, Masaryk University of Brno (Czech Republic)</p>
12/K165	<p>Numerical Modelling of Massive and Lamellar Gamma Microstructure Formation in Gamma-TiAl Alloys A. Rostamian (Sp), A. Jacot, École Polytechnique Fédérale de Lausanne (Switzerland)</p>
13/K239	<p>An Optimum Stacking Sequence Design Procedure for Carbon/epoxy Composite Stiffened Panels E. Eglitis (Sp), Riga Technical University (Latvia)</p>
14/K252	<p>Cellular Automata Study on the Dendritic Growth of Binary Metal Alloys H. Lauterbach (Sp), Friedrich-Schiller-Universität Jena (Germany)</p>
15/K254	<p>Modelling of Interface Equilibrium during Solid/liquid Phase Transformations in Binary Metal Alloys M. Buchmann (Sp), Friedrich-Schiller-University Jena (Germany)</p>
16/K315	<p>Analysis of Atomic Structure of Amorphous Metals in the Frame of Percolation Theory A. Bondarev (Sp), Y.V. Barmin, I.L. Bataronov, Voronezh State Technical University (Russian Federation)</p>
* = no oral presentation	

Wednesday, 6 September 2006, 9:30 - 12:30 h

ORAL AND POSTER PRESENTATION

Poster No. / Time	Lecture Hall B and Poster Area I - Session 3 -
17/K324	Optimization of Steel Elaboration in Eaf through Mathematical Modelling A. Ioana (Sp), C. Balescu, Polytechnic University of Bucharest (Romania)
18/K348 *	Computer Simulation of Austenitization in Hypoeutectoid and Eutectoid Fe-C Steels by Cellular Automaton Gábor Karacs, University of Miskolc, Miskolc, Hungary, András Roász, University of Miskolc, Miskolc, Hungary
19/K349 *	Approximate Calculation of the MgO Rich Corner of the MgO-Al₂O₃-CaO-SiO₂ Phase Diagram T. Mende (Sp), A. Roász, University of Miskolc (Hungary)
20/K356 *	Heat Transfer Simulation in the Combustion Chamber of Mixed Fuel Steam Boiler T. Fülöp (Sp), University of Miskolc (Hungary); T. Kapros, TÜKI rt., Miskolc (Hungary); I. Szücs, University of Miskolc (Hungary); J. Aranyos, EMA Power Kft, Dunaújváros (Hungary)
21/K357 *	Modeling of Cobustion Parameters of a Coke Furnace for Decreasing the Pollutants Formation K. Horváth (Sp), University of Miskolc (Hungary); Z. Polányi, Dunafer-DBK Kokszoló Kft., Dunaújváros (Hungary); I. Szücs, University of Miskolc (Hungary)
22/K358 *	Mathematical Model of Rotary Kiln for Calcination of Alumina V.Z. Baranyai (Sp), I. Szücs, University of Miskolc (Hungary)
	Discussion in front of the Poster Panels of Poster Area I (Topics: A, K)
12:30 - 14:00	Lunch
14:00	Submission deadline of the voting papers of Poster Session 3
* = no oral presentation	

Wednesday, 6 September 2006, 14:00 - 18:00 h

ORAL AND POSTER PRESENTATION

Poster No.	Lecture Hall B and Poster Area II - Session 4 -
	Topic D Fundamental Aspects: Diffusion, Transformation, Dislocation Theory
01/D3 *	Heat Treatment Effects on Mechanical Properties and Microstructure Evolution of Ferritic Creep Resistant Cr-Mo Steels M. Hakem (Sp), R. Rabah Otmani, H. Maza, Y. Yahmi, N. Debbach, Reseach Center of Welding & Controle, Algiers (Algeria)
02/D5 *	Relationships between Properties and Microstructure after Heat Treatment of Martensitic X20CrMoV 12.1 Steels R. Rabahotmani (Sp), M. Hakem, M. Maza, Y. Yahmi, N. Debbache, Research Center of Welding & Controle, Algiers (Algeria)
03/D13 *	Diffusivity of Oxygen in Liquid Cooper from Electrochemical Measurements I. Constantin (Sp), D. Taloi, L.M. Vladutiu, F. Pereteanu, University Politehnica of Bucharest (Romania)
04/D118	Experimental and Theoretical Investigation of Phase Transitions in the System Fe-W-C at Energy Streams Influence A.V. Ilyasov (Sp), A. Ryzkhin, V. Ilyasov, Don State Technical University, Rostov-on-Don (Russian Federation)
05/D154	The Effect of the Hexagonal Symmetry on Critical Thickness Calculations for InxGa1-xN/GaN D. Holec (Sp), P.M.F.J. Costa, M.J. Kappers, C.J. Humphreys, University of Cambridge (UK)
06/D251 *	Liquid Phase Penetration at Triple Junctions in Cu-Bi System S. Gulevskiy (Sp), A. Petelin, Moscow Institute of Steel and Alloys (Russian Federation)
07/D267	Oxide Dispersion Strengthening of Alloys with Low Oxygen Solubility: A TEM Study A. Undisz (Sp), Friedrich-Schiller-University, Jena (Germany)
08/D289	Strengthening Mechanisms in Platinum and Platinum Alloys U. Zeigmeister (Sp), Friedrich-Schiller-Universität Jena (Germany)
* = no oral presentation	

Wednesday, 6 September 2006, 14:00 - 18:00 h

ORAL AND POSTER PRESENTATION

Poster No.	Lecture Hall B and Poster Area II - Session 4 -
09/D310	The Dormant Period of Cement Hydration S. Brendle (Sp), Delft University of Technology (Netherlands)
10/D322	Investigation of the Alkali Sorption Kinetics in Pressurized Pulverized Coal Combustion I. Escobar (Sp), E. Wessel, J. Wackerl, M. Müller, Forschungszentrum Jülich GmbH (Germany)
11/D341	Nucleation of Grains of New Orientations in High-Purity Cold Rolled Metals during Recrystallization S.S. West (Sp), Risø National Laboratory, Roskilde (Denmark)
12/D365	Some Peculiarities of Hydrogen Evolution Reaction on the Rotating Disk Electrode in an Aqueous Solution A. Gajek (Sp), Institute of Physical Chemistry PAS, Warsaw (Poland)
* = no oral presentation	

Wednesday, 6 September 2006, 14:00 - 18:00 h

ORAL AND POSTER PRESENTATION

Poster No.	Lecture Hall B and Poster Area II - Session 4 -
	Topic F Ceramics, CMC, Glass
01/F18 *	Structural Glass - Matrix Composites S. Solntsev (Sp), S. Grashchenkov, Federal State Unitary Enterprise "All Russian Institute of Aviation Materials", Moscow (Russian Federation)
02/F32	Influence of Different Raw Materials of ZrO₂ on the Properties of Refractory Ceramics G. Bula (Sp), R. Svinka, V. Svinka, Riga Technical University (Latvia)
03/F38	Selective Ceramic Infrared Emitters T. Kratschmer (Sp), Müller, TU Bergakademie Freiberg (Germany); John, InfraBio Tech GmbH, Freiberg (Germany)
04/F50	Correlation between Mechanical Properties at Room Temperature and Thermal Shock Resistance of Carbon Bonded MgO-C Refractories S. Dudczig (Sp), TU Bergakademie Freiberg (Germany)
05/F51 *	FEM Analysis of the Nanoindentation Load-displacement Curves J. Brumek (Sp), B. Strnadel, VSB-Technical University of Ostrava (Czech Republic); I. Dlouhy, Institute of Physic of Materials, Brno (Czech Republic)
06/F63 *	The Use of Image Analysis for the Determination of Surface Deterioration of Refractory Specimens During Thermal Shock Investigation J. Dostanic (Sp), T. Volkov-Husovic, R. Jancic-Heinemann, University of Belgrade (Yugoslavia, FR)
07/F68 *	Ceramic Materials for Microwave and Millimeter Wave Applications L. Nedelcu (Sp), A. Ioachim, M.G. Banciu, M.I. Toacsan, D. Ghetu, C.A. Dutu, National Institute of Materials Physics, Bucharest-Magurele (Romania); H.V. Alexandru, University of Bucharest (Romania)
08/F123	The Effect of Fe Addition on Processing and Mechanical Properties of Reaction Infiltrated Boron Carbide Based Composites I. Mizrahi (Sp), A. Raviv, H. Dilman, N. Frage, M.P. Dariel, Ben Gurion University, Beer-Sheva (Israel)
* = no oral presentation	

Wednesday, 6 September 2006, 14:00 - 18:00 h

ORAL AND POSTER PRESENTATION

Poster No.	Lecture Hall B and Poster Area II - Session 4 -
09/F159 *	Microwave-assisted Solvothermal Synthesis of Bismuth Oxide E. Bartonickova (Sp), J. Cihlar, Brno University of Technology (Czech Republic)
10/F162	Some Possibilities of Solid Wastes from Fluid Cool Combustion Application T. Opravil (Sp), J. Brandstetr, Brno University of Technology (Czech Republic)
11/F163	Microwave Hydration Stopping of Macro-defect-free Cements F. Soukal (Sp), J. Havlica, Brno University of Technology (Czech Republic)
12/F168	Development of Novel Glass-ceramics from Problematic Wastes C. Dimech (Sp), A.R. Boccaccini, C. Cheeseman, Imperial College London (UK)
13/F204	Mechanical/Physical Characterisation of Low Density Carbon-carbon Composites A. Ahmed (Sp), Imperial College London (UK)
14/F209	The Effect of an Applied Electric Field on Self-propagating High-temperature Synthesis of Barium Hexaferrite S. Busurin (Sp), Y.G. Morozov, M.V. Kuznetsov, ISMAN, Chernogolovka (Russian Federation)
15/F221	Effect of Voltage Action on High Temperature Behaviour F. Homola (Sp), C.G. Aneziris, TU Bergakademie Freiberg (Germany)
16/F222 *	ZrO₂ Ceramic Layers Used as Thermal Barrier A. Stefan, V. Manoliu, G. Ionescu, L. Tudor (Sp), National Institute for Aerospace Research, Bucharest (Romania)
17/F224	Titania Containing Foam Ceramic A. Butlers (Sp), R. Svinka, Riga Technical University (Latvia)
18/F245	Functional Graded Ceramic Based on Zirconia-Alumina Prepared by Slip Casting Method I. Zednikova (Sp), J. Andertova, J. Havrda, Institute of Chemical Technology in Prague (Czech Republic)
* = no oral presentation	

Wednesday, 6 September 2006, 14:00 - 18:00 h

ORAL AND POSTER PRESENTATION

Poster No.	Lecture Hall B and Poster Area II - Session 4 -
19/F259	<p>Inorganic and Hybrid Hollow Spheres by Coating of Microcapsules as Templates M. Sgraja (Sp), J. Bertling, Fraunhofer Institute for Environmental, Safety and Energy Technology UMSICHT, Oberhausen (Germany); P.J. Jansens, TU Delft (Netherland)</p>
20/F262	<p>Design and Development of Porous Ceramics for Diesel Particulate Filtration W. Schärfl (Sp), C.G. Aneziris, TU Bergakademie Freiberg (Germany)</p>
21/F280	<p>Modification of the Surface Layer by Substitution of Cations on SiAlON Ceramics M. Riva (Sp), S. Holzer, R. Oberacker, M.J. Hoffmann, Universität Karlsruhe (TH) (Germany)</p>
22/F292 *	<p>Hydration Process Quantification of Cement with Fluidized Ash L. Vehovska (Sp), Brno University of Technology (Czech Republic)</p>
23/F295 *	<p>Protective Barite Blends against Ionizing Radiation P. Pospisilova (Sp), Brno University of Technology (Czech Republic)</p>
24/F303	<p>The Role of Suspension Parameters in the Dip Coating of Ceramic Foams G. Schell (Sp), E.C. Bucharsky, R. Oberacker, M.-J. Hoffmann, Universität Karlsruhe (Germany)</p>
25/F313	<p>Simulation and Optimization of the Drying Process of a Microporous Thermoinsulating Material K. Häußler (Sp), Technische Universität Bergakademie Freiberg (Germany); M. Kotrc, IBK Rietschen (Germany)</p>
26/F318	<p>Novel 3-Dimensional Metal-Ceramic-Composites - Processing and Properties U. Degenhardt (Sp), Universität Bayreuth (Germany)</p>
27/F347 *	<p>Developing of the Transmission Properties of the Glasses C. Paróczai (Sp), L.A. Gömze, University of Miskolc (Hungary)</p>
28/F351	<p>Evolution of Translaminar Cracks in Fibre Reinforced Carbon/Carbon Laminates J.-M. Gebert (Sp), A. Wanner, Universität Karlsruhe (TH) (Germany)</p>
* = no oral presentation	

Wednesday, 6 September 2006, 14:00 - 18:00 h

ORAL AND POSTER PRESENTATION

Poster No.	Lecture Hall B and Poster Area II - Session 4 -
29/F355 *	Development Technologies of Biomimetic Materials I. Yuhnevica (Sp), G. Mezinskis, I. Klavina, Riga Technical University (Latvia)
30/F237	Direct Laser Sintering of Siliconcarbide - Material Specific Behaviour A. Streek (Sp), P. Regenfuß, L. Hartwig, S. Klötzerr, R. Ebert, H. Exner, Laserinstitut Mittelsachsen e.V. an der Hochschule Mittweida (Germany)
31/F369 *	Synthesis and Characteristics of some Ceramics Based on two Complex Perovskite Structures E. Sirbu (Sp), D. Constantinescu, S. Vasile, University Politehnica of Bucharest (Romania)
* = no oral presentation	

Wednesday, 6 September 2006, 14:00 - 18:00 h

ORAL AND POSTER PRESENTATION

Poster No.	Lecture Hall B and Poster Area II - Session 4 -
	Topic G Polymers, Polymer based-Composites
01/G33	Influence of Technological Parameters on Filling Mold Cavity M. Stanek (Sp), M. Manas, T. Drga, Tomas Bata University, Zlin (Czech Republic)
02/G34	Wear of Off-Road Tire Treads M. Stanek (Sp), M. Manas, T. Drga, D. Manas, Tomas Bata University, Zlin (Czech Republic)
03/G35	Design of Testing Injection Mold T. Drga (Sp), M. Stanek, M. Manas, D. Manas, Tomas Bata University, Zlin (Czech Republic)
04/G46	Living Radical Polymerizations Initiated with Silsesquioxanes O. Smrtka (Sp), J. Jancar, Brno University of Technology (Czech Republic)
05/G70	Fluorescence Properties of Polyurethane Cationomer Films S. Gurlui (Sp), Alexandru Ioan Cuza University, Iasi (Romania); G. Strat, G. Asachi, Technical University of Iasi (Romania); T. Buruiana, Romanian Academy, Iasi (Romania); M. Strat, Alexandru Ioan Cuza University, Iasi (Romania); E. Buruiana, Romanian Academy, Iasi (Romania)
06/G94	Rheological, Morphological and Mechanical Properties of Polyvinyl Alcohol (PVA) - Thermoplastic Starch (TPS) Blends A. Nahálková (Sp), P. Bugaj, V. Fuleova, P. Alexy, Slovak University of Technology, Bratislava (Slovak Republic)
07/G99	Structure and Mechanical Properties of Nanocomposites Based on Polymer Matrix S. Gurlui (Sp), M. Strat, Alexandru Ioan Cuza University, Iasi (Romania); C. Picealca, Savinesti, Piatra Neamt (Romania); I. Grecu, Alexandru Ioan Cuza University, Iasi (Romania); G. Strat, Gh.Asachi Technical University, Iasi (Romania); S. Stratulat, UMF, Iasi (Romania)
08/G109 *	Modification of Textile Reinforcing Materials with Plasma Polymerization J. Siraky (Sp), I. Hudec, M. Jasso, Slovak University of Technology, Bratislava (Slovak Republic)
	* = no oral presentation

Wednesday, 6 September 2006, 14:00 - 18:00 h

ORAL AND POSTER PRESENTATION

Poster No.	Lecture Hall B and Poster Area II - Session 4 -
09/G114	Characterization and Cytocompatibility of Carbon Layers Prepared by Photo Induced CVD O. Kubová (Sp), V. Svorčík, Institute of Chemical Technology Prague (Czech Republic); J. Heitz, Johannes Kepler Universität, Linz (Austria)
10/G127	Production and Properties of Biopolymer Composites with Natural Cellulose Based Fibres as a Filler T. Vacková (Sp), D. Kroisová, Technical University of Liberec (Czech Republic); H.J. Endres, FH Hannover (Germany)
11/G130 *	Multi-layered Clay - Polyelectrolyte Nanocomposites Produced by Spin Coating V. Vertlib (Sp), L. Yezek, A. Puzrin, R. Spolenak, ETH Zurich, Zürich (Switzerland)
12/G136	Distortion Determination of Used Acetabular Cup G. Zsoldos (Sp), G. Czel, University of Miskolc, Miskolc-Egyetemvaros (Hungary)
13/G145	Conducting Polymers for Interfacial Modification of Co-continuous PS/PMMA Blends J. Hegewald (Sp), J. Pionteck, P. Pötschke, L. Jakisch, Leibniz Institute of Polymer Research Dresden (Germany)
14/G172	Polymeric Composites with Nano-particles A. Mlich (Sp), V. Bouda, Czech Technical University in Prague, Prague 6 (Czech Republic)
15/G187	Properties of Waste Rubber-geopolymer Composite Material O. Skoba (Sp), V. Bednarik, M. Vondruska, R. Slavik, Tomas Bata University Zlin (Czech Republic); T. Hanzlicek, ASCR, Prague (Czech Republic)
16/G192	Diblock Copolymer Nanocomposites J. Waller (Sp), Oxford University (UK); R.A. Register, Princeton University, Princeton, N.J. (USA); D.G. Bucknall, Georgia Tech, Atlanta, GA (USA)
17/G255	Structuring Methods Capable of Building 3D Parts with Feature Resolutions from 50 µm to 100 nm R. Inführ (Sp), C. Fritscher, H. Lichtenegger, R. Liska, J. Stampfl, Vienna University of Technology, Wien (Austria); V. Schmidt, Joanneum Research, Weiz (Austria)
* = no oral presentation	

Wednesday, 6 September 2006, 14:00 - 18:00 h

ORAL AND POSTER PRESENTATION

Poster No.	Lecture Hall B and Poster Area II - Session 4 -
18/G260	<p>The Activity of the Interface between Polyethylene and Polybutene-1 in the PE/PB-1-Peel-System M. Nase (Sp), Orbita-Film Ltd., Weißandt-Gölzau (Germany); B. Langer, Polymer Service Ltd Merseburg (Germany); H.-J. Baumann, Orbita-Film Ltd, Weißandt-Gölzau (Germany); W. Grellmann, Martin-Luther-Universität Halle-Wittenberg, Merseburg (Germany)</p>
19/G264 *	<p>Preparation of Geopolymeric Binders Nucleated by Natural Zeolite M. Skarabelova (Sp), V. Tomková, P. Hasek, VSB - Technical University of Ostrava, Ostrava - Poruba (Czech Republic)</p>
20/G269	<p>AC and DC Electrical Properties of Gas Sensors Based on Polypyrrole D. Kopecky (Sp), M. Vrnata, P. Fitl, M. Myslik, Institute of Chemical Technology, Prague (Czech Republic); M. Jelinek, T. Kocourek, Academy of Science, Prague (Czech Republic)</p>
21/G287 *	<p>Kinetics of Polycyanurate Network Formation at In-Situ Sequential Synthesis of Polyurethanemethacrylate / Polycyanurate IPNs I. Bei (Sp), National Academy of Sciences of Ukraine, Kyiv (Ukraine)</p>
22/G288 *	<p>Compatibilization of Polyetherurethane / Styrene Copolymer Blends via Specific Interactions O. Slisenko (Sp), National Academy of Sciences of Ukraine, Kyiv (Ukraine)</p>
23/G309	<p>Micro-structured Proton Conducting Membranes by Radiation Grafting P. Farquet (Sp), C. Padeste, H.H. Solak, S.A. Gürsel, G.G. Scherer, A. Wokaun, Paul Scherrer Institut, Villigen (Switzerland)</p>
24/G342 *	<p>Thermal Degradation Kinetics of a Novel System of Poly (imide-silica) Hybrid Films M. Faroutan (Sp), S. Khoei, University of Tehran, University of College of Science (Iran)</p>
25/G344 *	<p>Synthesis, Characterization and Fluorimetric Studies of Novel Photoactive Poly (amide-imide) from 1-Naphthaldehyde and 4,4'-di-amino Diphenyl ether by Microwave-Irradiation S. Zamani (Sp), C. Khoei, Tehran University (Iran)</p>
* = no oral presentation	

Wednesday, 6 September 2006, 14:00 - 18:00 h

ORAL AND POSTER PRESENTATION

Poster No.	Lecture Hall B and Poster Area II - Session 4 -
26/G353	Development of a New Generation of Filament Wound Composite Pressure Cylinders J. Velosa (Sp), J.P. Nunes, P.J. Antunes, University of Minho, Guimarães (Portugal); J.F. Sliva, ISEP, Porto (Portugal); A.T. Marques, University of Minho, Porto (Portugal)
27/G361 *	Study of structural Changes in PE the Effect of Tensile Stress K. Szóda (Sp), M. Kollar, D. Marianna, University of Miskolc (Hungary)
	Discussion in front of the Poster Panels of Poster Area II (Topics: D, F, G)
17:30	Submission deadline of the voting papers of Poster Session 4
* = no oral presentation	

Thursday, 7 September 2006, 9:00 - 12:30 h

ORAL AND POSTER PRESENTATION

Time/ Poster No.	Lecture Hall B and Poster Area I - Session 5 -
9:00 - 9:30	FEMS-Lecture
	Topic B Magnetic Properites, Superconductivity, Electronic Materials
01/B75	Strain Induced Switching of Magnetostrictive Dot Arrays S. Dokupil (Sp), M. Löhndorf, E. Quandt, Stiftung Caesar, Bonn (Germany)
02/B81	Effect of Temperature on Grain Growth Character in Fe-3% Si Grain Oriented Steels V. Stoyka (Sp), Y. Sidor, F. Kovac, Slovak Academy of Sciences, Kosice (Slovak Republic)
03/B106	The Evolution of Structure and Superconducting Properties of Cu+Nb+Sn Nanocomposites during Heat Treatment V.S. Vyatkin (Sp), G.L. Dorofeev, A.M. Bryaskalo, R.E. Goldenberg, Y.D. Kuroedov, G.F. Syrykh, RRC "Kurchatov Institute", Moscow (Russian Federation)
04/B110	3D Atom Probe Study of Co-based Thin Films S. Pinitsoontorn (Sp), A. Cerezo, University of Oxford (UK); A.K. Pefferd-Long, Argonne National Laboratory (USA)
05/B151	Praseodymium Silicate High-k Layers for CMOS Gate Dielectric Applications G. Lupina (Sp), T. Schroeder, C. Wenger, J. Dabrowski, H.-J. Müssig, IHP-Microelectronics, Frankfurt/Oder (Germany); D. Schmeisser, Technical University Cottbus (Germany)
06/B177 *	Magnetic Susceptibility Approach to Magnetoresisting Manganites A. Fedorova (Sp), N. Chezhina, Saint Petersburg University, Petrodvorets (Russian Federation)
07/B197	Lead Free Piezoceramics Based on Alkaline Niobate Tantalate J. Acker (Sp), S. Wagner, M.J. Hoffmann, Universität Karlsruhe (TH) (Germany)
08/B217	Intergranular Films in Srontium Titanate M. Bäurer (Sp), M.J. Hoffmann, Universität Karlsruhe (TH) (Germany)
* = no oral presentation	

Thursday, 7 September 2006, 9:30 - 12:30 h

ORAL AND POSTER PRESENTATION

Poster No.	Lecture Hall B and Poster Area I - Session 5 -
09/B246 *	Transport Properties and Stability of Superconducting MgB₂/Metal Composite Wires T. Holubek (Sp), P. Kovac, I. Husek, Slovak Academy of Sciences, Bratislava (Slovak Republic)
10/B249 *	MgB₂ Composite Superconductors with Different Metallic Sheaths M. Kulich (Sp), P. Kovac, I. Husek, T. Melisek, Slovak Academy of Sciences, Bratislava (Slovak Republic)
11/B258	Synthesis and Characterization of Epsilon Iron Oxide C. Nielinger (Sp), W. Mader, Universität Bonn (Germany)
12/B261	Porous Low-k Dielectrics Deposited by PECVD: Structural and Electrical Study O. Gourhant (Sp), ST Microelectronics, Grenoble (France)
13/B265 *	Magnetically Soft (Fe, Co)- Based Bulk Metallic Glasses T. Erenc-Sędziak (Sp), J. Ferenc, T. Kulik, Warsaw University of Technology (Poland)
14/B279 *	Structure and Spin Transport Properties of CrO₂ Films Grown by CVD at Moderate Temperature P.M. Sousa (Sp), S.A. Dias, University of Lisbon (Portugal); A.J. Silvestre, ICEMS, Lisbon (Portugal); O. Conde, University of Lisbon (Portugal); K. Yates, B. Morris, W.R. Branford, L.F. Cohen, Imperial College, London (UK)
15/B281	Magnetic Properties of Ultra-thin CoFe Films C. Borioli (Sp), S. Franz, M. Bestetti, P.L. Cavallotti, Politecnico di Milano (Italy)
16/B293 *	Electron Ionic Conductors Based on lanthanum Gallate E. Bodritskaya (Sp), N. Chezhnia, Saint-Petersburg State University (Russian Federation)
* = no oral presentation	

Thursday, 7 September 2006, 9:30 - 12:30 h

ORAL AND POSTER PRESENTATION

Poster No.	Lecture Hall B and Poster Area I - Session 5 -
	Topic E Metals: Al-, Mg-, Ti-, Ni- Alloys, Steel, Intermetallics, MMCs, Foams
01/E14	Metallurgical Characteristics of ESR Processing in Recovery of C300 Maraging Steel Scraps K. Mehrabi (Sp), Montane University, Leoben (Austria); M.R. Rahimpour, Materials and Energy Research Center, Tehran (Iran)
02/E17 *	Fabrication and Characterization of Al-Fe-Cu and Cd-Yb Quasicrystals A. Lobanova (Sp), A.O. Komarov, Moscow State Steel and Alloys Institute, Moskau (Russian Federation)
03/E19 *	New Heat Resisting Titanium Alloy VT41 T. Pavlova, O.S. Kashapov (Sp), All-Russian Institute of Aviation Materials, Moscow (Russian Federation)
04/E26	Characterization of a Series of New Mg-Sn-Ca Alloys T. Abu Leil (Sp), GKSS-Forschungszentrum Geesthacht GmbH (Germany); K.P. Rao, City University Hong Kong, Kowloon (Hong Kong); N. Hort, H. Dieringa, C. Blawert, Y. Huang, K.U. Kainer, GKSS-Forschungszentrum Geesthacht GmbH (Germany)
05/E28	A Comparative Investigation of Bolt Load Retention Behaviour of Selected Mg-Alloys O. Anopuo (Sp), H. Dieringa, Y. Huang, N. Hort, K.U. Kainer, GKSS Forschungszentrum Geesthacht GmbH (Germany)
06/E31	High Temperature Mechanical Behavior and Microstructure Evolution of Cellular Solids Produced from Hollow Stainless Steel Spheres S. Roy (Sp), A. Wanner, T. Beck, Universität Karlsruhe (TH) (Germany); T. Studnitzky, Fraunhofer-Institute for Manufacturing and Advanced Materials, Dresden (Germany)
07/E58	The Influence of Controlled Convection on the Growth and the Morphology of Intermetallic Phases in Al-cast Alloys N. Euskirchen (Sp), S. Steinbach, L. Ratke, Deutsches Zentrum für Luft- und Raumfahrt, Köln (Germany)
* = no oral presentation	

Thursday, 7 September 2006, 9:30 - 12:30 h

ORAL AND POSTER PRESENTATION

Poster No.	Lecture Hall B and Poster Area I - Session 5 -
08/E59	<p>Effect of Particles on the Thermal Stability of Accumulative Roll Bonded Aluminium Sheets P. Homola (Sp), M. Slamova, VUK Panenske Brezany, s.r.o., Odolena Voda (Czech Republic); M. Karlik, Czech Technical University, Prague (Czech Republic)</p>
09/E60	<p>Comparison of the Recrystallization Behaviour of AlMg3 Sheets Prepared by Two Different Casting Methods J. Uhlir (Sp), M. Slamova, VUK Panenske Brezany, s.r.o., Odolena Voda (Czech Republic)</p>
10/E65	<p>Thermal Mechanical Fatigue Behaviour, Damage Evolution and Development of Residual Stresses in the Matrix Material of Particle Reinforced EN AW-6061-T6 by Thermal Mechanical Loading A. Klaska (Sp), Universität Karlsruhe (TH) (Germany); S. Heimann, Ruhr-Universität Bochum (Germany); T. Beck, A. Wanner, D. Löhe, Universität Karlsruhe (TH) (Germany)</p>
11/E66	<p>Investigation of the Thermal Fatigue Behaviour in Consideration of the Residual Stresses and Strains in the Matrix Material of Particle Reinforced EN AW-6061-T6 by Experiment and Simulation S. Heimann (Sp), Ruhr-Universität Bochum (Germany); A.M. Klaska, Institut für Werkstoffkunde, Universität Karlsruhe (Germany); M. Pohl, Ruhr-Universität Bochum (Germany)</p>
12/E71	<p>"In Situ" Diffusion Barrier For Fourth Generation Monocrystalline Superalloys A. Boyer (Sp), M.-P. Bacos, A. Gregoire, P. Josso, A. Morel, S. Naveos, ONERA, Chatillon Cedex (France)</p>
13/E85	<p>Characterization of Nano-sized Particle Stabilized Metal Foams M. Kornyik (Sp), Z. Filep, University of Miskolc (Hungary); N. Babcsan, Hahn-Meitner-Institute, Berlin (Germany)</p>
14/E93 *	<p>Porous Material of Stainless Steel Fibres for Electrochemical Treatment of Effluents O. Vande Vyver (Sp), Université Libre de Bruxelles (Belgium)</p>
15/E129	<p>Thermophysical Properties of Cu-Cu2O-composites A. Altenburger (Sp), E. Neubauer, ARC Seibersdorf Research (Austria); P. Angerer, EICHEM, Wiener Neustadt (Austria)</p>
* = no oral presentation	

Thursday, 7 September 2006, 9:30 - 12:30 h

ORAL AND POSTER PRESENTATION

Poster No.	Lecture Hall B and Poster Area I - Session 5 -
16/E132	Reactive-sintered Chromium Carbide Based Cermets K. Juhani (Sp), Tallinn University of Technology (Estonia)
17/E134	Effect of Ag/Zr Addition on Precipitation Kinetics in an Al-Cu-Mg Alloy D. Ripamonti (Sp), A. Sironi, M. Vedani, Politecnico di Milano (Italy)
18/E176 *	Fabrication and Thermal Property of Carbon Nanotube / Nickel Composite by Spark Plasma Sintering Method A. Kawasaki (Sp), S. Yamanaka, R. Gonda, Tohoku University, Sendai Miyagi (Japan); A. Sakamoto, Y. Mekukchi, M. Kuno, Nissan Motor Co.Ltd, Yokosuka (Japan); T. Tsukada, Busson Nanotech Research Institute, Akishima (Japan)
19/E201	Magnesium Recycling Alloy Based on Automotive Post Consumer Scrap D. Fechner (Sp), C. Blawert, P. Maier, N. Hort, K.U. Kainer, GKSS, Geesthacht (Germany)
20/E205 *	Study of Selected Thermophysical Properties of Metallic Systems by Means of DTA -Method S. Docekalová (Sp), B. Smetana, J. Dobrovská, P. Kozelský, VSB - Technical University of Ostrava, Ostrava - Poruba (Czech Republic)
21/E207	Deformation Behaviour of an Mg-8Li Alloy Reinforced by SiC Particles Z. Száráz (Sp), Z. Trojanová, Charles University Prague (Czech Republic)
22/E210	Internal Stress in an AS21 Magnesium Alloy Based Composite Studied by the Stress Relaxation Technique O. Padalka (Sp), Z. Trojanová, Charles University in Prague, Praha 2 (Czech Republic)
23/E223	Microstructure Features of Hot Rolled AZ31 Magnesium Alloy L. Commin (Sp), ENSAM, Aix en Provence (France); M. Dumont, University of Aix-Marseille, Aix en Provence (France); J.E. Masse, L. Barralier, ENSAM, Aix en Provence (France)
24/E266	Experimental and Theoretical Study of Phase Equilibria in the Ni-Al-W System J. Popovic (Sp), P. Broz, Masaryk University, Brno (Czech Republic); J. Bursik, ASCR, Brno (Czech Republic)
* = no oral presentation	

Thursday, 7 September 2006, 9:30 - 12:30 h

ORAL AND POSTER PRESENTATION

Poster No.	Lecture Hall B and Poster Area I - Session 5 -
25/E285	High-Temperature Wettability and Thermal Properties of Aluminum Nitride Reinforced Metal Matrix Composites M. Kida (Sp), M. Bahraini, J.M. Molina, L. Weber, A. Mortensen, Swiss Federal Institute of Technology, Lausanne (Switzerland)
26/E294	Absolute Measurement of Work of Immersion in Particulate Systems by Means of Drainage Curves M. Bahraini (Sp), J.M. Molina, L. Weber, A. Mortensen, Ecole Polytechnique Fédérale de Lausanne (Switzerland)
27/E300	Influence of Modification of Sodium on the Structure and Mechanical Properties of Complex Alloy Al + Mg + Zn (+Na) A. Vyhnanek (Sp), VUT Brno (Czech Republic)
28/E338 *	Magnetron Deposition and Properties of Refractory Gamma TiAl Coatings L. Kaczmarek (Sp), B.G. Wendler, Technical University of Lodz (Poland)
29/E340	Surface Engineering of Light Alloys for Wear and Contact Fatigue Resistance L. Kaczmarek (Sp), B. Januszewicz, D. Siniarski, P. Kula, Lodz University of Technology (Poland)
30/E346 *	Evolution of TRIP Effect in Si-Mn Bulk Steel O. Stejskal (Sp), J. Zrník, University of West Bohemia in Pilsen (Czech Republic)
31/E352	Cyclic Oxidation Behaviour of Sintered Austenitic-steels with Active Elements M. Baccalaro (Sp), Robert Bosch GmbH, Gerlingen (Germany); J. Werner, Universität Aalen (Germany); A. Mattem, Robert Bosch GmbH, Gerlingen (Germany); M. Pohl, Ruhr-Universität Bochum (Germany)
	Discussion in front of the Poster Panels of Poster Area I (Topics: B, E)
12:30	Submission deadline of the voting papers of Poster Session 5
12:30 - 14:00	Lunch
* = no oral presentation	

Thursday, 7 September 2006, 14:00 - 16:00 h

A W A R D

Time	Lecture Hall B
14:00	<p data-bbox="633 566 1117 600">Poster Award</p> <p data-bbox="633 622 1117 757">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 afternoon 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 data-bbox="633 813 1024 835">Best two posters of the Tuesday morning-session; Topic C, H, M</p> <p data-bbox="633 869 1024 891">Best two posters of the Tuesday afternoon-session; Topic I, L, N</p> <p data-bbox="633 925 1024 947">Best two posters of the Wednesday morning-session; Topic A, K</p> <p data-bbox="633 981 1048 1003">Best two posters of the Wednesday afternoon-session; Topic D, F, G</p> <p data-bbox="633 1037 1008 1059">Best two posters of the Thursday morning-session; Topic B, E</p> <p data-bbox="633 1115 849 1137">Best two posters of the conference</p> <p data-bbox="633 1171 1104 1193">Repetition of the Oral Presentation of the best two posters of the conference</p>
16:00	<p data-bbox="633 1305 1117 1339">Closing Address</p>

GENERAL INFORMATION

Registration Fees

- 1** Fee for Students
EUR 190,-

- 2** Fee for Students from
Central Europe
EUR 140,-

- 3** Fee for Students from
Eastern Europe *
EUR 90,-

- 4** Fee for Non-Students
EUR 300,-

- 5** Fee for Non-Students
from Central Europe
EUR 220,-

- 6** Fee for Non-Students
from Eastern Europe *
EUR 150,-

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 7316;
fax: +41-21-616 8647;
EMail: jaggi@lausanne-touris-
me.ch



GENERAL INFORMATION

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 and Canton de Vaud.

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

Lunch during the Week

Lunch during the week is served in the restaurant of the University of Lausanne. The restaurant is within 5 minutes walking distance from the conference building. The building is closely connected to the recreation area along the Lake. The Lunch tickets will be handed out to all registered participants at the conference office.

Festival on the Beach

The festival starts with a self organised barbecue. Delegates are invited to contribute to the subsequent musical interpretations by playing their own instruments.

Depending on the weather, the festival will be held along the beach of the Lake. Therefore, the place of the festival is not yet fixed so far. Further information can be obtained at the conference office.

The cover and the basic set of food (two sausages and two beers per person) are included in the conference fee. Tickets for additional sausages and beers have to be purchased at the conference office.

Beginning: 20:00 h
Open end



