

Monday, August 18, 2008

Start End Duration

07:30	09:00	01:30	Conference Registration	
09:00	09:15	00:15	Opening Remarks / Announcements Overview & Recent Advances	
09:15	09:45	00:30	Nanoglasses: A Way to Solid Materials with Tunable Atomic Structures and Properties	Herbert Gleiter
09:45	10:00	00:15	On Grain Boundary Engineering of UFG Metals and Alloys for Enhancing their Properties	Ruslan Z. Valiev
10:00	10:15	00:15	Advantages and limitations of HPT: a review	Reinhard Pippan
10:15	10:45	00:30	Coffee Break Overview & Recent Advances	
10:45	11:05	00:20	High Speed Deformation Behavior of Ultrafine Grained Steel	Nobuhiro Tsuji
11:05	11:20	00:15	Factors Influencing the Development of Homogeneity in Disks Processed by High-Pressure Torsion	Terence G. Langdon
11:20	11:35	00:15	Deformation Physics and Ductility of Nanostructured Materials	Yuntian Th. Zhu
11:35	11:50	00:15	Use of Ring Sample for High-Pressure Torsion and Microstructural Evolution with Equivalent Strain	Zenji Horita
11:50	13:20	01:30	Lunch Break Creep, Fatigue and Damage Mechanisms & Enhanced Plasticity	
13:20	13:40	00:20	Fatigue of Severely Plastically Deformed Metals: Where is the Limit?	Alexei Vinogradov
13:40	13:55	00:15	The Rolling - Sliding Contact Fatigue of Ultrafine Grained Materials	Tibor Donic
13:55	14:10	00:15	Effect of trace impurities on high-cycle fatigue damage of ultrafine grained copper processed by equal channel angular pressing	Masahiro Goto
14:10	14:25	00:15	Influence of Post-ECAP TMT on HCF Performance of Wrought Magnesium Alloys	Julia Müller
14:25	14:40	00:15	Structure And Fatigue Properties Of The Mg Alloy AM60 Processed By ECAP	Rinat K. Islamgaliev
14:40	14:55	00:15	Cyclic deformation behaviour and fatigue lives of ultrafine-grained Aluminium-Magnesium alloys	Heinz W. Höppel
14:55	15:10	00:15	Fatigue-Crack-Growth Behavior of Al-Mg-Sc alloy Processed by ECAP	Elena Avtokratova
15:10	15:25	00:15	Microstructural evolution and creep of an Al-0.2wt.%Sc alloy after equal-channel angular pressing	Petr Král
15:25	15:55	00:30	Coffee Break Creep, Fatigue and Damage Mechanisms & Enhanced Plasticity	
15:55	16:10	00:15	Microstructure and mechanical properties affecting crack growth behaviour in AA6060 produced by equal-channel angular extrusion	Kristin Hockauf
16:10	16:25	00:15	Deformation Behaviour of Accumulative Roll Bonded and Friction Stir Welded Aluminium Alloys	Irena Topic
16:25	16:40	00:15	Anomaly of Energy Absorption under Cyclic Loading of Bulk Nanostructural Titanium	Oleg Naimark
16:40	16:55	00:15	Cycling of ultrafine-grained Ti-6Al-4V ELI alloy: microstructural changes and enhanced fatigue limit	Lilia Saitova
16:55	17:10	00:15	Enhancement of fatigue properties of Ti Materials using severe plastic deformation	Irina Semenova
17:10	17:25	00:15	High strain rate superplasticity in a Zr and Sc modified 7075 aluminum alloy produced by ECAP	Krystof Turba
17:25	17:40	00:15	The features of deformation behavior of ultra-fine grained titanium and aluminum alloys under conditions of high strain rate superplasticity	Evgeny Naydenkin

Keynote Talk

Invited Talk

Session

Break

Lunch Break Steels and Light Alloys	
Precipitation Studies of Undeformed and ECAP - Deformed Al-4%Cu Alloys: Effects on Microstructure and Tensile Properties	Maurizio Ferrante
Investigations on deformation behaviour and microstructure of ultrafine grained two phase Al-Mn alloy fabricated by confined channel die pressing	Weiping Hu
Substructural Alignment and Crystallographic Features of Deformation during Early Stages ECAE Processing of a Single-Phase Al-0.13Mg alloy	Yan Huang
Deformation behaviour of an ultra-fine grained Al6082 alloy	Ilchat Sabirov
Mechanical properties and microstructure evolution of ECAPed ultrafine grained Al during low temperature annealing	Yonghao Zhao
Grain Refinement Performance of Al Cast with Al-Ti Alloy Refiner Severely Deformed By ECAP	Yoshimi Watanabe
Shear deformation and texture evolution in Al alloys processed for one pass by ECAP	Marco J. Starink
Strain-induced porosity during SPD	Yan Beygelzimer
Coffee Break Steels and Light Alloys	
Ultrafine Grained Low Carbon Steels Processed by Severe Plastic Deformation	Sergey Dobatkin
Microstructural Characterization of Low-Carbon Steel Processed by High Pressure Torsion and Annealing	Elena Astafurova
Effect of Grain Refinement on the Mechanical Behaviour of Ferritic Steels : Evolution of Isotropic Hardening and Kinematic Hardening	Olivier Bouaziz
Evolution of texture in Ultra-fine grained ferrite through warm-rolling and intercritical annealing	Sandip Ghosh Chowdhury
Study of the plastic deformation in nanocrystalline and ultrafine iron and carbon steels	J. Antonio Benito
Fracture toughness enhanced by severe plastic deformation in low carbon steel	Masaki Tanaka
Strain rate sensitivity of 31Mn-3Al-3Si TWIP steel with partially recrystallized fine grained structure	Rintaro Ueji

Tuesday, August 19, 2008

Start End Duration

08:25	08:30	00:05	Announcements				
			Modelling				
08:30	09:00	00:30	Multiscale modeling of SPD processes for grain refinement	Igor Alexandrov			
					Characterization		
09:00	09:20	00:20	Modeling of deformation and texture in severe plastic deformation with flow lines	Laszlo Toth	Activation volume in fine grained metals from stress relaxation and nano-indentation	Yannick Champion	
09:20	09:35	00:15	Multiscale Crystal Plasticity Simulation with Pseudo-Three-Dimensional Model on Ultrafine-Graining Based on Evolution of Dislocation Structures	Yoshiteru Aoyagi	Effect of Nanocrystalline Structure and Polygonized Dislocation Substructure on Ti-Ni Martensite Lattice Parameters and Transformation Lattice Strain	Sergey Prokoshkin	
09:35	09:50	00:15	Finite Element Investigation of the Effect of Hardening Behavior of Alloys on Equal Channel Angular Pressing Performance	Pinar Karpuz	Grain Refinement of Pure Copper by ECAP	R. Tejedor	
09:50	10:05	00:15	Long-Term Microhardness Evolution in Ti-Ni Shape Memory Alloys Processed by Severe Cold Rolling	Andrey Korolitskiy	Strengthening of nickel deformed by high pressure torsion	Hongwang Zhang	
10:05	10:35	00:30	Coffee Break		Coffee Break		
			Modelling		Characterization		
10:35	10:55	00:20	A Triple-Scale Crystal Plasticity Simulation on Yield Behavior of Annealed FCC Fine-Grained Metals	Eisuke Kurosawa	Multiphase materials processed by SPD: nanostructuring mechanisms and unusual properties	Xavier Sauvage	
10:55	11:10	00:15	A Critical Examination of Billet Deformation in Equal Channel Angular Extrusion Based on Finite Element Simulations in Global and Corotational Material Axes	Saiyi Li	Temperature Field in Severe Plastic Deformation at Small Strain Rates	Srinivasan Chandrasekar	
11:10	11:25	00:15	A Phase-Field Simulation of Nucleation from Subgrain and Grain Growth in Static Recrystallization	Mayu Muramatsu	Lattice Defects in Hydrogenated and HPT Processed Pd	Daria Setman	
11:25	11:40	00:15	Numerical Modeling of Dislocation-Grain Boundary Interaction and Continuum Mechanics Analyses for Mechanical Properties of Fine Grained Metals	Tetsuya Ohashi	TEM Studies on the Effect of Nature of Precipitates in Al-Li alloy on Microstructural Evolution during Severe Plastic Deformation	Sivaswamy Giribaskar	
11:40	14:30	02:50	Lunch Break				
14:30	17:15	02:45	Transfer to "Rammelsberg", visit of the mine				
17:15	20:00	02:45	Poster Session at Rammelsberg + "Bier & Brezeln"				
20:00	20:30	00:30	Transfer to Hotel Achtermann				

Wednesday, August 20, 2008

Start	End	Duration						
08:25	08:30	00:05	Announcements					
			Overview & Recent Advances					
08:30	09:00	00:30	Structure and properties of bulk nanostructured Cu processed by means of dynamic pi K.	Lu				
			Early Career Researcher Session					
09:00	09:15	00:15	Combining equal-channel angular extrusion (ECAE) and heat treatment for achieving high strength and moderate ductility in an Al-Cu alloy	Matthias	Hockauf			
09:15	09:30	00:15	Grain Refinement in a Commercial Al-Mg-Sc-Zr Alloy during Hot ECAP	Olga	Sukhopar			
09:30	09:45	00:15	A Comparative study on Mechanical Properties of Al 7075 alloy processed by rolling at cryogenic temperature and room temperature	Sushanta K.	Panigrahi			
09:45	10:00	00:15	Severe plastic deformation of a bainitic rail steel	Anton	Hohenwarter			
10:00	10:30	00:30	Coffee Break					
			Early Career Researcher Session					
10:30	10:45	00:15	Texture Evolution of Magnesium Single Crystals Deformed By High-Pressure Torsion	B.	Bonarski			
10:45	11:00	00:15	Influence of SPD by ECAP on Cu Properties	Tibor	Kvackaj			
11:00	11:15	00:15	Influence of a slip plane orientation with respect to the shear plane of ECAP on microstructure of copper single crystal subject to one pressing at room		Katayama			
11:15	11:30	00:15	Tensile Property of Submicrocrystalline Pure Fe Produced by HPT-straining	Yoshikazu	Todaka			
11:30	11:45	00:15	Application of Strain Gradient Plasticity Modelling to High Pressure Torsion	Andrey	Molotnikov			
11:45	12:00	00:15	Simulation of the stamping process of items out of nanostructured Ti and Al alloys	Azat	Shayakhmetov			
12:00	12:15	00:15	Analysis of plastic deformation of groove pressing by the finite element method	Seung Chae	Yoon			
12:15	13:45	01:30	Lunch Break					
			Early Career Researcher Session					
13:45	14:00	00:15	Influence of number of passes in ECAP on superplastic behavior in a magnesium alloy	Roberto	Figueiredo			
14:00	14:15	00:15	Grain refinement and deformation behavior of ultrafine grained Pd and Pd-Ag alloys produced by HPT	Lilia	Kumaneva			
14:15	14:30	00:15	Effect of Cryorolling Strain on Precipitation Kinetics of Al 7075 Alloy	R.	Jayaganthan			
14:30	14:45	00:15	Annealing Response of Al-0.22Sc-0.13Zr Alloy Processed by Accumulative Roll Bonding	Petr	Homola			
14:45	15:00	00:15	Bond Strength of Ultrafine Grained Zr Fabricated by Accumulative Roll Bonding	Ling	Jiang			
15:00	15:15	00:15	In situ tensile testing of ultra fine grained Pd and Pd-Ag alloys	Kejing	Yang			
15:15	15:45	00:30	Coffee Break			Coffee Break		
			Characterization			Characterization		
15:45	16:00	00:15	Mechanical properties and microstructure development of ultrafine-grained Cu processed by ECAP	Milos	Janecek	Influence of Severe Thermomechanical Treatment on Formation of Nano-crystalline Structure in Ni 718 and Ni 718 Plus Alloys and Their Mechanical Properties	Shamil	Mukhtarov
16:00	16:15	00:15	3D tomographic EBSD measurements of heavily deformed ultra fine grained Cu-0.17wt%Zr obtained from ECAP	Anahita	Khorashadizadeh	UFG microstructure processing by ECAP from double electron-beam melted rare metal	Lembit	Kommel
16:15	16:30	00:15	Nanostructured Shape Memory TiNi Alloy Processed by Severe Electroplastic Deformation	Vladimir	Stolyarov	Features of the Structure Development and the Deformation Process in Zr-based Alloys under Radial Forging	Yuriy	Perlovich
16:30	16:45	00:15	In-situ TEM observations of deformation processes in nanocrystalline Pd	Harald	Rösner	TEM study of local disordering: a structural phase change induced by high-pressure torsion	Christian	Rentenberger
16:45	17:00	00:15	Machining-based processes for severe plastic deformation in metals and alloys	Kevin P.	Trumble	Deformation twinning behaviors in FCC crystals	Zhefeng	Zhang
17:00	17:15	00:15	Transformations of second phase particles during SPD processing	Malgorzata	Lewandowska	Grain boundary radiotracer diffusion of Ni in ultra-fine grained Cu and Cu-1wt.% Pb alloy produced by equal channel angular pressing	Jens	Ribbe
17:15	17:30	00:15	Grain Refinement of Tungsten by Severe Plastic Deformation	Suveen N.	Mathaudhu	Structure of triple junctions of grains, nanoparticles in them and bending - torsion in metal nanopolycrystals	Nina A.	Koneva
17:30	17:45	00:15	Stimulation of the alpha to omega transformation in pure Zr by high pressure torsion	Teresa	Pérez-Prado	Grain boundary structure and deformation defects in nanostructured Al-Mg alloys processed by high pressure torsion	Hans-Jorgen	Roven
19:00			Conference Banquet at "Kaiserpalz"					

Friday, August 22, 2008

Start	End	Duration					
08:25	08:30	00:05	Announcements Characterization			Steels and Light Alloys	
08:30	08:50	00:20	Twinning, dislocations and grain size in nanoSPD materials determined by X-ray diffraction	Tamás Ungár		Texture Evolution and Flow Anisotropy of Ultra-Fine Grained HCP Materials	Ibrahim Karaman
08:50	09:10	00:20	Deformation of SPD-processed nanocrystalline metals	Gerhard Wilde		Mechanical behaviour and microstructure evolution of severely deformed two-phase titanium alloys	Sergey Zhrebtsov
09:10	09:25	00:15	SPD processing of refractory metals: Microstructure and mechanical behavior	Qiuming Wei		Workability Limits of Commercial Purity Titanium Subjected to Equal Channel Angular Pressing	Uday Chakkingal
09:25	09:40	00:15	Shear induced low- and high-angle boundary characterization using Kikuchi bands in Transmission Electron Microscopy	Marcello Cabibbo		Mechanical Properties of Ti-6Al-4V Titanium Alloy with Submicrocrystalline Structure Produced by Multiaxial Forging	Gennaiy Salishchev
09:40	09:55	00:15	Substructure evolution under quasi-static loading and shock loading of ultra-fine grained copper produced by severe plastic deformation	Xiao-Jing Xu		Microstructure development and precipitation effects in ultra fine grained Mg-3Tb-2Nd alloy prepared by high pressure torsion	Jakub Cizek
09:55	10:25	00:30	Coffee Break Characterization			Steels and Light Alloys	
10:25	10:45	00:20	Microstructure, microtexture and grain boundaries evolution in FCC materials during ultra-high strain deformation	Alexander fZhilyaev		Development of extrusion and rolling textures during ECAP of Mg-alloys	Heinz-Günter Brokmeier
10:45	11:00	00:15	Analysis of the Fundamental Mechanisms and Efficiency of the Deformation Methods of Nanostructuring	Ayrat A. Nazarov		Effect of the second phase on the microstructure of magnesiums alloy during cyclic extrusion compression	Yongjun Chen
11:00	11:15	00:15	Texture and mechanical anisotropy of ultra-fine grained Al alloys produced by accumulative roll bonding	Werner Skrotzki		Deformation behaviour of ultrafine-grained Mg-alloys produced equal channel angular extrusion	Florian H. Dalla Torre
11:15	11:30	00:15	Microstructure and properties of aluminium processed by constrained groove pressing	Jozef Zrnik			
11:30	12:00	00:30	Bulk nanostructured materials under extreme conditions	Horst Hahn			
12:00	13:00	01:00	General Discussion and Concluding Remarks				
13:00			Lunch Break, End of Conference				