

9.00 - 9.20	Opening Ceremony
<b>9.20 -10.00</b>	<b>Invited lecture</b> <b>T. G. Langdon:</b> <b>The Processing and Properties of Ultrafine-grained Materials</b>
10.10 - 10.30	W. Pantleon: Orientation Correlations After Severe Plastic Deformation
10.30 - 10.50	J. Gubicza: Microstructure of Ultrafine Grained Metals Produced by Severe Plastic Deformation
11.10 - 11.30	K. Turba, P. Málek, M. Cieslar: Superplasticity in an ECAP Al-Mg-Zr-Sc Alloy
11.30 - 11.50	P. Málek, K. Turba, M. Cieslar, I. Drbohlav, T. Kruml: Structure Development During Superplastic Deformation of an Al-Mg-Zr-Sc Alloy
11.50 - 12.10	M. Benyoucef, W. Cao, S. Billard, G. F. Dirras: Deformation and the Fracture Mechanisms in Ultrafine-grained Aluminum and Iron Processed by Hot Isostatic Pressing
12.10 - 12.30	P. Homola, M. Karlík, M. Slámová: Thermal Stability of Twin-Roll Cast Al-Fe-Mn-Si Sheets Accumulative Roll Bonded at Different Temperatures
<b>14.00 - 14.40</b>	<b>Invited lecture</b> <b>V. N. Chuvil'deev:</b> <b>Nonequilibrium Grain-Boundaries in Metals. Theory and Its Applications</b>
14.40 -15.00	M. Yu. Gryaznov, V. N. Chuvil'deev, A. N. Sysoev: Grain-Boundary Internal Friction and Superplasticity in Bulk Microcrystalline Alloys Processed by ECAP
15.00 - 15.20	M. Janeček, R. Král, P. Dobroň, F. Chmelík, V. Šupík, F. Holländer: Plastic Instabilities in AZ31 Magnesium Alloy Investigated by Acoustic Emission
15.20 - 15.40	M.V. Popov, M. Janeček, M.G. Krieger, R.J. Hellmig, Y. Estrin: Mechanical Properties and Microstructure of a Mg Alloy AZ31 Prepared by ECAP
16.00 - 16.20	J. Čížek, I. Pocházka, B. Smola, I. Stulíková, R. Kužel, Z. Matěj, V. Cherkaska, R.K. Islamgaliev, O. Kulyasova: Microstructure and Thermal Stability of Ultra Fine Grained Mg-based Alloys Prepared by High Pressure Torsion
16.20 - 16.40	G. Garcés, M. Maeso, P. Pérez, P. Adeva: Effect of Extrusion Temperature on the Superplastic Deformation of PM-WE54 Alloy
16.40 - 17.00	J. Dutkiewicz, P. Malczewski, J. Kuśnierz: Influence of Manganese Content on Superplastic Deformation of $\alpha + \beta$ Brasses
17.00 - 17.20	S.V. Dobatkin, J. Szpunar, A.P. Zhilyaev, J.-Y.Cho, A.A. Kuznetsov: Effect of the Route and Strain of ECA Pressing on Structure and Properties of Oxygen-free Copper
17.20 - 17.40	M. Kerber, E. Schafler, R. Pippan, M. Zehetbauer: Microstructural Investigation of the Annealing Behaviour of High Pressure Torsion (HPT) Deformed Copper

10.10 - 10.30	M. Šob, D. Legut , M. Čák, T. Káňa, M. Zelený: Ab Initio Studies of Phase Stability in Metallic Systems
10.30 - 10.50	J. Houserová, M. Šob: Ab Initio Study of C14 Laves Phase in Fe-based Systems
<b>11.10 - 11.50</b>	<b>Invited lecture</b> <b>J.W. Morris, Jr.:</b> <b>Deformation Modeling Across Length Scales</b>
11.50 - 12.10	J. Buršík: Atomistic Simulation of Ordering in Ni-base Alloys Under Applied Stress
12.10 - 12.30	K. Chvátalová, J. Vřešťál, J. Houserová, M. Šob: First Principles Sigma Phase Stability in Phase Diagram Calculation of the Cr-Fe-W System
12.30 - 12.50	P. Brož, J. Buršík, J. Popovič: Thermodynamic Optimization of the Ni-Al-W System on the Base of Experimental Phase Data
14.00 - 14.20	U. Krupp, O. Düber, H.-J. Christ, B. Künkler, C.-P. Fritzen: Propagation Mechanisms of Microstructurally Short Cracks
14.20 - 14.40	J. Prah, A. Machová, M. Landa, P. Haušild, M. Karlík, M. Clavel, P. Haghi-Ashtiani: Fracture of Fe-3Si Single Crystals
14.40 - 15.00	M. Karlík, P. Haušild, C. Prioul, M. Stöger-Pollach: Microstructure of Low Alloyed Steel Close to the Fracture Surface
15.00 - 15.20	F. Nový, M. Činčala, P. Kopas, O. Bokůvka: Mechanism of High-Strength Structure Materials Fatigue Failure in Ultra-wide Life Region
15.20 - 15.40	L. Babaei, A. Abdollah-Zadeh, S.M. Abbasi: The Influence of Heat Treatment on the Thermal Embrittlement in a Low Carbon Martensitic NiCoMo Steel
<b>16.00 - 16.40</b>	<b>Invited lecture</b> <b>P. Šittner, V. Novák, M. Landa, P. Lukáš:</b> <b>Deformation Processes in Functional Materials Studied by In-situ Neutron Diffraction and Ultrasonic Techniques</b>
16.40 - 17.00	M. Landa, P. Sedlák, P. Šittner, H. Seiner, V. Novák: Elastic Property Changes of Phase Transforming Materials
17.00 - 17.20	I.Glavatskiy, N. Glavatska: Large linear superelasticity at room temperatures in Ni-Mn-Ga
17.20 - 17.40	N. N. Resnina, S. A. Egorov, M. E. Evard, A. E. Volkov: Influence of Stress on the Temperature Kinetics of Martensitic Transformation and on the Strain Variation in Ti-Ni Shape Memory Alloys
17.40 - 18.00	M. Keddam, M.E. Djeghlal, L. Barrallier: Surface modification of the pure iron by the pulse plasma nitriding: application of a kinetic model

9.00 - 9.40	<b>Invited lecture – The Professor Peter Haasen Memorial Lecture</b> <b>P. Lukáč, Z. Trojanová:</b> <b>Strengthening and Softening in Selected Magnesium Alloys</b>
9.40 -10.00	C. H. Cáceres, A. H. Blake: Single-Crystal and Polycrystal Effects on the Strain-Hardening Behaviour of Pure Magnesium
10.00 - 10.20	S. Spigarelli, M. El Mehtedi, M. Cabibbo, E. Evangelista, J. Kaneko, A. Jäger, V. Gärtnerová: Analysis of High-temperature Deformation and Microstructure of an AZ31 Magnesium Alloy
10.20 - 10.40	A. Jäger, P. Lukáč, V. Gärtnerová: Superplastic Behaviour and Ductility Enhancement of Rolled Mg-3%Al-0.9%Zn Alloy
11.00 - 11.20	Z. Trojanová, A. Chatey: Deformation Behaviour of an AJ50 Magnesium Alloy at Elevated Temperatures
11.20 - 11.40	P. Cavaliere, E. Cerri, P. P. De Marco: Friction Stir Processing of AM60B Magnesium Alloy Sheets
11.40 - 12.00	N. Hort, Y. Huang, K. U. Kainer: Intermetallics in the Magnesium Alloys and Their Effects in Improving Mechanical Properties
12.00 - 12.20	J. Kaneko, M. Sugamata, Y. Asano: Structure and Properties of Rapidly Solidified Mg-Ca-Al-Zn alloys
12.20 - 12.40	P. Perez, G. Garcés, S. González, H. Nietsche, F. Sommer, P. Adeva: Mechanical Properties During Crystallization of Amorphous Mg <sub>83</sub> Ni <sub>9</sub> Y <sub>8</sub>
<b>14.00 - 14.40</b>	<b>Invited lecture</b> <b>S. R. Agnew:</b> <b>Developing Mechanism-based Models of the Mechanical Behavior of Wrought Magnesium Alloys (with a View Towards Metal Forming)</b>
14.40 -15.00	V. Gärtnerová, Z. Trojanová, A. Jäger: Micromechanisms of Plastic Deformation of AZ91 Alloy Reinforced by Saffil Fibres and SiC Particles
15.00 - 15.20	Z. Száraz, Z. Trojanová: Deformation Behaviour of Magnesium Alloys Reinforced by SiC Particulates
15.20 - 15.40	O. Padalka, Z. Trojanová, M. Janeček: Deformation Memory Effect of an AS21 Magnesium Alloy Based Composite
16.00 - 16.20	K. Milička, Z. Trojanová, P. Lukáč: Internal Stresses in Creep of Several Magnesium Alloys at 523 K
16.20 - 16.40	M. Svoboda, †M. Pahutová, K. Kuchařová, V. Sklenička: Microstructure and Creep Behaviour of Magnesium Hybride Composites
16.40 - 17.00	A. Mielczarek, W. Riehemann, Z. Trojanová, P. Lukáč: Damage Evolution of Fiber Reinforced and Unreinforced AZ91 During Cyclic Load Studied by Internal Friction
17.00 - 17.20	Z. Drozd, Z. Trojanová, S. Kúdela: Stress Relaxations in Mg <sub>4</sub> Li-xAl Alloys and Composites
17.20 - 17.40	S. Kúdela Jr, A. Rudajevová, S. Kúdela: Anisotropy of Thermal Expansion Behavior in Short Alumina Fiber Reinforced Mg <sub>4</sub> Li Matrix Composite

9.00 - 9.20	S.V. Shagalina, E.G. Koroleva, G.I. Raab, M.V. Bobylev, S.V. Dobatkin: Submicrocrystalline State of 0.14% C and 0.1% C- 0.003% B Low-Carbon Steels after ECA Pressing and Heating
9.20 - 9.40	B. Hadzima, M. Janeček, Y. Estrin, H. S. Kim: Microstructure Evolution and Corrosion Properties of Polycrystalline Ultrafine-grained IF Steel
9.40 - 10.00	K. Máthis, E. Rauch: Microstructural Characterization of Fine-grained Pure Iron
10.00 - 10.20	J. Zrník, O. Stejskal, Z. Nový, P. Hornak, M. Fujda: Structure Dependence of TRIP Phenomenon in Si-Mn Bulk Steel
10.20 - 10.40	B. Eghbali, A. Abdollah-Zadeh, P. D. Hodgson: Dynamic Softening of Ferrite During Superplastic Warm Deformation of Plain-Carbon Steel
<b>11.00 - 11.40</b>	<b>Invited lecture</b> <b>H.J. McQueen, S. Spigarelli:</b> <b>Nomenclature for Strain Induced Boundaries in Hot and Cold Working</b>
11.40 - 12.00	Y. Todaka, M. Umemoto, J. Li, K. Tsuchiya: Formation of Nanocrystalline Structure by Various Severe Plastic Deformation Processes
12.00 - 12.20	V. Sklenička, †M. Pahutová, K. Kuchařová, G. Vidrich, M. Svoboda, H. Ferkel: Mechanical Behaviour of Electrodeposited Nickel and Its Particle Reinforced Nanocomposite
12.20 - 12.40	W. Blum, F. Breutingner, Y. Li: Deformation Kinetics of Coarse-Grained and Ultrafine-grained Commercially Pure Ti
14.00 - 14.20	L. Skatkov, P. Cheremskoy, A. Pugachov, V. Shulaev, A. Panikarskiy, V. Gomofov: Intracrystalline Pore Formation in Nanocrystal Metal Films
14.20 - 14.40	D. Rafaja, A. Poklad, V. Klemm, G. Schreiber, D. Heger, M. Šíma: Microstructure and Microhardness of Nanocrystalline $Ti_{1-x-y}Al_xSi_yN$ Thin Films
14.40 - 15.00	C. Rentenberger, T. Waitz, H. P. Karnthaler: Nanostructures Produced by Severe Plastic Deformation of Ordered Intermetallic Alloys
15.00 - 15.20	S.V. Starenchenko, V.A. Starenchenko: Antiphase Boundaries and their Meaning for Deformation-induced Order-Disorder Transformation
15.20 - 15.40	J.V. Solovjeva, V.A. Starenchenko: Deformation Microstructure and Positive Temperature Dependence of Flow Stress In $Ni_3Ge$
<b>16.00 - 16.40</b>	<b>Invited lecture</b> <b>D.G. Morris, M.A. Muñoz-Morris:</b> <b>Development of Creep Resistant Iron Aluminides</b>
16.40 - 17.00	P. Kratochvíl, P. Málek, J. Hakl, P. Hanus: High-temperature Deformation of $Fe_3Al$ Alloys with TiB <sub>2</sub> or Ce Additions
17.00 - 17.20	M. Cieslar, M. Karlík: Carbides Formation in Carbon Containing $Fe_3Al$ -based Compounds
17.20 - 17.40	J. Belošević-Čavor, B. Cekić, V. Koteski: Electronic Structure and Electric Field Gradient Calculations for Hf <sub>2</sub> Rh Intermetallic Compound

9.00 - 9.40	<b>Invited lecture</b> <b>F. Chmelík, F. Klose, J. Sachl, H. Dierke, H. Neuhäuser, P. Lukáč:</b> <b>Investigating the Portevin – Le Châtelier Effect in Strain Rate and Stress Rate Controlled Tests by the Acoustic Emission and Laser Extensometry Techniques</b>
9.40 -10.00	E. M. García, P. Dobron, J. Bohlen, D. Letzig, F. Chmelík, K.U. Kainer: Deformation Mechanisms in an AZ31 Cast Magnesium Alloy as Investigated by the Acoustic Emission Technique
10.00 - 10.20	J. Bohlen, P. Dobron, J. Swiostek, D. Letzig, F. Chmelik, P. Lukac, K.U. Kainer: On the Influence of the Microstructure on the Mechanical Properties of Magnesium Alloys
10.20 - 10.40	T.T. Lamark, F. Chmelík, Y. Estrin, M. Janeček: The Effect of Grain Size on the Compressive Yield Stress of Magnesium Alloy AS21X at Elevated Temperatures
11.00 - 11.20	P. Dobroň, J. Bohlen, F. Chmelík, P. Lukáč, D. Letzig, K. U. Kainer: Acoustic Emission During Stress Relaxation of Pure Magnesium and Magnesium Alloys
11.20 - 11.40	R.J. Hellmig, T.T. Lamark, M.V. Popov, M. Janeček, Y. Estrin, F. Chmelík: Influence of Equal Channel Angular Pressing on the Acoustic Emission Behaviour of AZ31
11.40 - 12.00	V. Neubert, I. Stulíková, B. Smola, B. L. Mordike, M. Vlach, A. Bakkar, J. Pelcová: Thermal Stability and Corrosion Behaviour of Mg-Y-Nd and Mg-Tb-Nd Alloys
12.00 - 12.20	J. Pelcová, B. Smola, I. Stulíková: Influence of Processing Technology on the Phase Transformations in Mg-Y-Nd-Zn-Zr Alloy
12.20 - 12.40	M. Milnera, Z. Trojanová: Microstructure and Deformation Behaviour of an AX61 Magnesium Alloy
<b>14.00 - 14.40</b>	<b>Invited lecture</b> <b>S. Tsurekawa:</b> <b>Grain Boundary Electrical Properties in Polycrystalline Silicon</b>
14.40 -15.00	M. Hájek, J. Veselý, M. Cieslar: Precision of Electrical Resistivity Measurements
15.00 - 15.20	H. Suzuki, Y. Xue, A. Hosomichi, S. Naher, F. Hata, H. Kaneko: Verwey Transition in Fe <sub>3</sub> O <sub>4</sub> Studied by Low Temperature X-ray Diffraction
15.20 - 15.40	S. V. Ovsyannikov, V. V. Shchennikov, I. V. V.: Effect of Hydrogen Implantation on Semiconductor - Metal Transition and High-pressure Thermopower in Si
16.00 - 16.20	V. V. Shchennikov Jr, S. V. Ovsyannikov, V. V. Shchennikov, N. A. Shaidarova, A. Misiuk, D. Yang: Variations of High-Pressure Thermoelectric and Mechanical Properties of Si Single Crystals Under Doping with N and P-T Pre-treatment
16.20 - 16.40	O. Stupakov, I. Tomáš, J. Pal'a, J. Bydžovský, J. Bošanský, T. Šmida: Investigation of Magnetic Response to Plastic Deformation of Low-Carbon Steel
16.40 - 17.00	V. I. Barbashov, Yu. A. Komysa: Mechanoelectric Effect in Solid Electrolytes
17.00 - 17.20	F. Kurdesau, A.F. da Cunhab: Thermo-emf Generation in Mechanically Connected Stainless Steel Wires with Different Cross-section Areas

9.00 - 9.20	J. Pokluda, R. Pippan: Analysis of Roughness-induced Crack Closure in Terms of Asymmetric Crack-wake Plasticity and Size Ratio Effect
9.20 - 9.40	K. Slámečka, P. Ponížil, J. Pokluda: Quantitative Fractography in Bending-Torsion Fatigue
9.40 - 10.00	W. Oliferuk, M. Maj: Plastic Instability Criterion Based on Energy Conversion
10.00 - 10.20	O. A. Plekhov, O.B. Naimark, S.V. Uvarov, T. Palin-Luc, N. Saintier: Theoretical Analysis, Infrared and Structural Investigation of Energy Dissipation in Metals Under Quasi-Static and Cyclic Loading
10.20 - 10.40	S.E. Shumilin, N.V. Isaev, V.D. Natsik, V.V. Pustovalov, V.S. Fomenko: The Low Temperature Anomaly of Plasticity in Concentrated Pb-In Alloys
<b>11.00 - 11.40</b>	<b>Invited lecture</b> <b>E. Nes:</b> <b>A General Microstructural Metal Plasticity Model Applied in Testing, Processing and Forming of Aluminium Alloys</b>
11.40 - 12.00	J. Kohout: Modelling of Changes in Properties of Alloys at Elevated Temperatures
12.00 - 12.20	T-W. Kim: Modeling the Heterogeneous Microstructures of Ti-MMCs in Consolidation Processes
12.20 - 12.40	M. Kireitseu, G. Tomlinson, L. Bochkareva: Nanoparticles-Reinforced Materials: Novel Design Concepts and Methods of Tailoring for Vibration Damping
14.00 - 14.20	B. Smola, I. Stulíková, V. Očenášek, J. Pelcová, V. Neubert: Annealing Effects in Al-Sc Alloys
14.20 - 14.40	M. Janeček, M. Slámová, M. Cieslar: Effect of Low Temperature Stabilisation on the Precipitation of a Continuously Cast Al-Mg-Si Alloy
14.40 - 15.00	F. Dobeš, K. Milička: Internal Stress and Activation Energy of Creep in Aluminium and its Solid Solutions
15.00 - 15.20	E. Gariboldi, D. Ripamonti, M. Vedani, G. Vimercati: Effect of Anisotropy on the Creep Behaviour of a Forged Al-Cu-Mg alloy
15.20 - 15.40	M. Masimov, P. Klimanek, T. Pavlovitch: Substructure Evolution of Polycrystalline Aluminium in Compression at Room Temperature
<b>16.00 - 16.40</b>	<b>Invited lecture</b> <b>J. F. Despois, A. Marmottant, Y. Conde, R. Müller, R. Goodall, L. Salvo, A. Mortensen:</b> <b>Processing, Structure and Properties of Open-pore Microcellular Aluminium</b>
16.40 - 17.00	P. Cavaliere, E.Cerri, P.Leo: Friction Stir Processing of a Zr modified 2014 Aluminium Alloy
17.00 - 17.20	E. Evangelista, S. Spigarelli, M. Cabibbo, M. DiPaola, A. Falchero: Microstructural and Mechanical Studies of a Friction Stir Welded 6056 Al-Mg-Si Alloy Plate
17.20 - 17.40	Cs. Kádár, F. Chmelík, J. Lendvai, Zs. Rajkovits: Acoustic Emission of Metal Foams during Tension

9.00 - 9.40	<b>Invited lecture</b> <b>R. Kirchheim, T. Al-Kassab:</b> <b>Studying Nucleation and Growth with the Tomographic Atom Probe and Small Angle Neutron Scattering</b>
9.40 - 10.00	M.E. Kassner, L.E. Levine, M.A. Delos-Reyes: Evaluation of the Existence of Long Range Internal Stresses in Compression Deformed Copper Single Crystals Using Synchrotron Microbeam Stress Analysis and X-ray Peak Asymmetry Modeling
10.00 - 10.20	T. Ungár, E. Schafner, P. Hanák, S. Bernstorff, M. Zehetbauer: Vacancy Production During Plastic Deformation in Copper Determined by In-situ X-ray Diffraction
10.20 - 10.40	E. Rauch, G. Shigesato: Dislocation Structure Misorientations Measured with an Automated TEM Diffraction Pattern Indexing Tool
11.00 - 11.20	N. Zárubová, J. Gemperlová, A. Gemperle: Stress Modification in Uniaxial In-situ TEM Straining Experiments
11.20 - 11.40	M. S. Szczerba, T. Tokarski: Cube Dislocations Inherited by FCC Twinning
11.40 - 12.00	L. L. Hsiung: On the Micromechanisms of Anomalous Slip in BCC Metals
12.00 - 12.20	J.W. Morris, Jr.: In Situ Studies of Plastic Deformation During Nanoindentation
12.20 - 12.40	V. Buršíková, J. Dušek, V. Navrátil: Indentation Size Effect in Some Polycrystalline h.c.p and f.c.c. Metals
14.00 - 14.20	M. Suszyńska, M. Szmida, L. Krajczyk, P. Grau, H. Meinhard: Mechanical Characteristics of Phase-separated SLS Glass Doped With Copper
14.20 - 14.40	V.B. Malkov, A.V. Malkov, A.D. Neumin, V.G. Pushin, S.P. Agalakov: Ordered Nanocrystalline Structure of Films of Zirconia-based Solid Electrolyte
14.40 - 15.00	V.B. Malkov, A.V. Malkov, O.V. Malkov, V.G. Pushin, B.V. Shulgin: Evolution of Real Structure During Growth of Spherulite Crystals in Amorphous Selenium Films
<b>15.00 - 15.40</b>	<b>Invited lecture</b> <b>Y. Shirai:</b> <b>Excess Vacancy Generation by Phase Transition in Metals and Alloys</b>
16.00 - 16.20	G. Vanderschaeve, D. Caillard: On the Mobility of Dislocations in Semiconductor Crystals
16.20 - 16.40	T. Kruml, C. Dupas, J.L. Martin: Some Novel Aspects of the Plasticity of Germanium
16.40 - 17.00	A. Pietriková, M. Búgel, T. Bakalár, M. Neubauer: Production of MgCl <sub>2</sub> and Pure SiO <sub>2</sub> Based on Serpentine Treatment
17.00 - 17.20	S. V. Ovsyannikov, V. V. Shchennikov, A. Cantarero, A. Cros, A. N. Titov: Raman spectra of (PbS) <sub>0.59</sub> TiS <sub>2</sub> misfit compound
17.20 - 17.40	S. V. Ovsyannikov, V. V. Shchennikov, B. N. Goshchitskii: Electrophysical Properties and Phase Transitions in Ce Under Pressure

**Friday 2.9.****Section 2**

9.00 - 9.20	B. Mikulowski, G. Boczkal: Influence of Structure on Hardening of ZnTi Single Crystals Deformed in (0001)<1120> System
9.20 - 9.40	M. Maldini, G. Angella, V. Lupinc: Analysis of Creep Curves of a Nickel Base Superalloy in a Wide Stress/Temperature Range
9.40 - 10.00	V. Lupinc, M. Maldini: Modelling the Constant and Variable Loading/Temperature Creep Behaviour of Udimet 720Li
10.00 - 10.20	B. Straumal, B. Baretzky: Continuous Grain Boundary Wetting and “Wetting by Solid Phase”
10.20 - 10.40	J. Janovec, M. Jenko, P. Lejček, J. Pokluda: Grain Boundary Segregation of Phosphorus and Silicon in Polycrystals and Bicrystals of the Fe-2.6Si-0.055P Alloy
<b>11.00 - 11.40</b>	<b>Invited lecture</b> <b>P. Lejček, S. Hofmann:</b> <b>Prediction of the Enthalpy and Entropy of Solute Segregation at Individual Grain Boundaries of a-Iron and Ferritic Steels</b>
11.40 - 12.00	V. Havlová, P. Lejček: Migration of 45°[100] Grain Boundaries in Fe–3mass.%Si Alloy
12.00 - 12.20	L. Kommel: Phases Transitions in Titanium Alloys by Rapid Electric Conduction Heating with SPD
12.20 - 12.40	L. Kommel: Grain Boundary Phases Transitions in Superalloys
14.00 - 14.40	<b>Invited lecture</b> <b>V. Vitek:</b> <b>Non-Planar Dislocation Cores: A Ubiquitous Phenomenon</b>
14.40 - 15.00	J. Ilavský: Microstructure Characterization of Complex Ceramic Materials Using X-ray and Neutron Techniques – Source of Microstructural Data for Modeling?
15.00 - 15.20	Y. Umeno, T. Kitamura: Mechanical Instability in Non-uniform Atomic Structure
15.20 - 15.40	V. Paidar, M. Yamaguchi: Constrained Deformation of Lamellar Structure
16.00 - 16.20	M. Černý: Elastic Stability of Magnetic Crystals Under Compression
16.20 - 16.40	E. Bruno: The Charge Excess Functional Theory and Ordering Properties in Metallic Alloys
16.40 - 17.00	M. Chabaat, S. Djouder, M. Touati: Stress and Energy Analyses of a Brittle Damage in a Vicinity of a Stress Concentrator