

Day 6th April

Building C7.4 - Computer Linguistic

09:00	Opening: Frank Mücklich, Dirk Bähre			
09:15	Brigitte Jamart + EEIGM			
09:30	Invited speaker - Patrick Choquet (Luxemburg Institute of Technology)			
10:00	L1	Hauet, Thomas	UL-IJL	Two original materials growth and characterization platforms in the Greater Region
10:20	L2	Alvi, Sajid	LTU	High temperature tribological properties of functional Polymer Derived Ceramics (PDCs) composite coatings

10:40 COFFEE BREAK

11:00	L3	Di Stasio, Luca	UL, LTU	Micromechanical modeling of thin ply effects on microdamage in Fiber-Reinforced Composite laminates
11:20	L4	Singh, Shikha	LTU	Crystallization and trans-crystallization studies of PLA in the presence of chitin and cellulose nanomaterials
11:40	L5	Fug, Frank	UdS	Polymerisation of polyurethane monomers at the very contact to aluminium
12:00	L6	André, Stéphane	UL	In-situ continuous 1D/2D synchrotron SAXS scans to study the kinematics of plastic instability in SCP

12:20 LUNCH + POSTER - Foyer Building C7.4 - Computer Linguistic

15:00	L7	El Azhari, Idriss	UdS	Investigations of deformation mechanisms of CVD coatings at the micro-scale
15:20	L8	Chaar, Ana	LiU	Microstructure and growth of Ti _{0.36} Al _{0.64} N hard coatings by a modified cathodic arc deposition
15:40	L9	Chen, Y	LiU, UPC	Micromechanical properties and wear resistance of quaternary TiAl(X)N alloys (X=Nb, Cr or V)
16:00	L10	Roa, J	UPC	Micromechanical properties of WC(Ti,Ta,W)C-Co composites: hardness anisotropy and flow stress determination for the constrained metallic binder

16:20 COFFEE BREAK

16:40	L11	Alnjiman, F	UL-IJL	Zinc tin nitride (ZnSnN): a new semiconductor material for photovoltaics applications
17:00	L12	Giba, Alaa	UL-IJL, UdS	Understanding the optical behavior of Cerium doped Aluminum (oxy)nitride thin films for blue lighting materials
17:20	L13	Wang, Yong	UL-IJL, UdS	Nitrogen chemical state in N-doped Cu ₂ O thin films
17:40	L14	Taher, Mamoun	Uppsala Univ	Combinatorial Study of Gradient Ag–Al Thin Films: Microstructure, Phase Formation, Mechanical and Electrical Properties

18:00 END

20:00 Dinner at Brasserie Zum Stiefel

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09:00	L15	Khurana, Kanupriya	UPC, UdS	Surface modification of bone bioceramics to control drug release using plasma polymerization
09:20	L16	Czezwiak, Thierry	UL	Evaporation of sessile droplets on plasma treated metallic surfaces
09:40	L17	Thielen, Matthias	UdS	In situ observations of fatigue crack mechanics in diffraction and image correlation experiments
10:00	L18	Olguín, Andrés	UdS	Advanced 3D Classification of Graphite in Cast Iron

10:20 COFFEE BREAK

10:40	L19	Neikter, Magnus	LTU	Microstructure characterization of Ti-6Al-4V from different additive manufacturing methods
11:00	L20	Roland, Michael	UdS	Numerical simulation and experimental characterization of Al-Si alloys in comparison to virtually generated alloys
11:20	L21	Pineda Huitron, Rosa Maria	LTU	Identification of causes for defects formed in laser welding of a structural steel
11:40	L22	Farnoosh, Forouzan	LTU, UdS	Study of The Kinetics of Precipitation in an AHSS steel after Laser Welding and Quenching and Partitioning

12:00 LUNCH - Sportler Mensa - Building 4 - Herrman Neuberger Sportschule

13:20	L23	Mateo, Antonio	UPC	Effect of the crystallographic orientation on the hardness of Ti-6Al-4V alloy
13:40	L24	Rittgen, Kai	UdS/INM	Surface oxidation of metallic glass surfaces and its effect on nanotribology

14:00 **Invited Speaker - Matthias Maurer - Astronaut Team of the European Space Agency (ESA)**15:00 **Closing Remarks - END**

Poster 6th April 12:20 - 15:00

P1	Lyubenova, Nataliya	UdS	The Impact of the Material Modeling on the Calculated Residual Stresses Induced by Deep Rolling
P2	Borroto Ramirez, Alejandro	UL-IJL, UdS, UPC	Synthesis, structural and mechanical properties of Zr1-XMoX thin films
P3	De Melo Sanchez, Claudia	UL-IJL, UdS	Atomic layer deposition of copper oxide and metallic copper thin films
P4	Roa, Joan	UPC	Study by APT of the composition at the grain boundaries of 12Ce-ZrO ₂ /3Y-ZrO ceramic composites
P5	Aristizabal, Katherine	UdS	Evolution of the microstructure in carbon nanotube reinforced nickel matrix composites processed by high pressure torsion
P6	Lou, Jiaqui	UdS	Copper surface changes during wet plating tests in anti-bacterial surface research
P7	Hsu, ChiaJui	UdS	Microstructural and Chemical Characterization of the ZDDP tribolayer formation
P8	Zhang, Hanzhu	LTU	In-situ processing of aluminium matrix tungsten aluminide and tungsten reinforced composites
P9	Burkle-Vitzthum, Valerie	LRGP- CNRS	Epoxy resin fast pyrolysis studied in micro fluidised bed
P10	Barrirero, Jenifer	UdS, LiU	Eutectic modification of Al-Si casting alloys
P11	Barth, Danielle	UL	Optimization of organogel supercritical carbon dioxide drying process
P12	Antonio Mateo	UPC	Transmission of plasticity through grain boundaries in a metastable austenitic stainless steel
P13	Maren Weidner	UdS	Water Diffusion in Epoxy with and without Alumosilicate Nanoparticles
P14	Utkudeniz Ozturk	UPC	Modeling of High Temperature Deformation of Inconel 718Plus
P15	Fang, Shiqi	UdS/UPC	Frictional Performance Assessment of Cemented Carbide Surfaces Textured by Laser
P16	Nikjoo, Dariush	LTU	Porous polymeric membranes as CO ₂ adsorbents
P17	Diego Acevedo	UN Rio Cuarto	Synthesis and characterization of GO-hydrogels composites
P18	Juan Balach	UN Rio Cuarto	Hybrid Separators with Mesoporous Carbon-Coatings for Advanced Lithium-Sulfur Batteries
P19	Vicente Benavidez	LTU, UdS	Study of the formation of superelastic hard carbon from fullerenes under pressure
P20	Esteban Ramos	PUC Chile	Synthesis and Characterization of Carbon Foams for Gas Sorption Applications
P21	Isabelle Royaud	UL	Mechanical properties of porous polymer membranes for biomedical applications
P22	Eva Hemmer	Uni Ottawa	Lanthanide-Based Nanocarriers for Biomedical and Energy Harvesting Applications
P23	Marc Anglada	UPC	Effect of small additions of calcia on the grain size and mechanical properties of ceria-stabilized tetragonal zirconia
P24	Yong Wang	UL, UdS	A joint experimental and theoretical study on the electronic structures of Cu ₂ O, Cu ₄ O ₃ and CuO
P25	Ali Kallel	SFAX, Tunisia	Correlation between the dielectric and the mechanical behavior of cellulose nanocomposites extracted from the rachis of the date palm tree
P26	David Pilloud	UL	Comparative study of thermochromic properties of vanadium oxides obtained after thermal oxidation of sputtered vanadium nitride and vanadium thin films