



Scientific program



Day 1- 20th July



Day 2- 21st July



Day 3- 22nd July

Areas

A. Functional Materials

- A.1. Nanomaterials (0D to 3D)
- A.2. Flexible and porous materials
- A.3. Smart and self-healing materials
- A.4. Surfaces & Interface
- A.5. Energy and environment materials
- A.6. Biomaterials and healthcare
- A.7. Sensors & Actuators
- A.8. Materials for catalysis
- A.9. Photonics and plasmonics
- A.10. Magnetic, electric and electronic materials

B. Structural Materials

- B.1. Metamaterials
- B.2. Advanced steels and cast irons
- B.3. High-performance alloys and intermetallics
- B.4. High entropy alloys
- B.5. Advanced ceramics
- B.6. Carbon based materials
- B.7. Composites and nanocomposites
- B.8. Fatigue, wear and corrosion

C. Processing Technologies

- C.1. Coatings and surface (nano)modification
- C.2. Advanced metallurgical processing
- C.3. Thermomechanical processing and severe plastic deformation
- C.4. Advanced ceramic processing
- C.5. Green polymer processing
- C.6. Synthesis of nanomaterials
- C.7. Powder technologies
- C.8. Direct and indirect additive manufacturing
- C.9. Joining

D. Characterization and Modelling

- D.1. Advanced techniques with focused beams
- D.2. Characterization of nanomaterials
- D.3. Micro- and Nano-mechanics and modelling
- D.4. Atomic scale modelling of advanced materials
- D.5. Multiscale and multiphysics modelling of materials, processes and products
- D.6. Modelling of Additive Manufacturing

E. Materials for Sustainability

- E.1. Critical raw materials
- E.2. Materials addressing the 3R (Reduce, Reuse, Recycle)
- E.3. Carbon-neutral production of materials
- E.4. Bio-based materials
- E.5. Materials circular economy



Program

July 20th, 2022



08:30	Entrance hall of the FCTUC building Registration		
09:00	Main Auditorium Opening session		
09:30	Main Auditorium Chair: Prof. Sandra Carvalho, PT Plenary session Prof. Pedro Barquinha, Universidade Nova de Lisboa, Portugal Flexible oxide electronics: where functionality meets sustainability		
10:15	End of Plenary lecture		
Parallel Sessions	Auditorium A Functional Materials Chairs: Maria Gimenez, ES and Diogo Cavaleiro, PT	Auditorium B Structural Materials Chairs: Marco Belfi, IT and Nuno Figueiredo, PT	Auditorium C Materials for Sustainability Chairs: Jéssica Santos, PT and Edgar Carneiro, PT
	10:30	A1-ID11 Annalisa Fortini Development and testing of a SMA-based proof of concept bending micro-actuator University of Ferrara, Italy	B1 - ID120 Sulayman Khan Development of Advanced High Modulus Steels for Automotive Applications The University of Sheffield, United Kingdom
10:45	A2-ID163 Fabio Lazzari Shape memory soft actuation exploiting multimaterial functionalization: design and control Institute of Condensed Matter Chemistry and Technologies for Energy, Italy	B2 - ID159 César Fernández-Jiménez Computational design of alumina-forming martensitic stainless steels National Metallurgical Research Centre, Spain	E2 - ID184 Jéssica Santos Potato washing slurries-derived starch used in the development of aerogel microparticles with ethylene scavenging capacity University of Aveiro, Portugal
11:00	Coffee break		


11:30	<p>A3-ID167 Maria Gimenez A New Supramolecular Liquid for Energy-Storage Applications</p> <p>Universidade de Santiago de Compostela, Spain</p>	<p>B3 - ID164 Marco Belfi Feasibility study on quenching and partitioning treatment on 33MnCrB5 boron steel</p> <p>Politecnico di Milano, Italy</p>	<p>E3- ID27 Abel Ourgessa Preparation of geopolymer material from used AZS refractory and unrecycled glass fibers</p> <p>Alexander Dubcek University of Trencin, Slovakia</p>
11:45	<p>A4- ID148 João Vareda Chitosan modified silica aerogels for the adsorption of pollutants</p> <p>University of Coimbra, Portugal</p>	<p>B4 - ID86 Berzah Yavuzyeğit An in-situ study of grain boundary migration and sliding in AZ31 magnesium at elevated temperatures</p> <p>The University of Manchester, United Kingdom</p>	<p>E4-ID83 Gianluca Dall'Osto Pathways for the Italian Steel Industry of the Future: Possibilities and Criticalities</p> <p>Politecnico di Milano, Italy</p>
12:00	<p>A5- ID28 Mafalda Valente Sodium and Potassium ion rich ferroelectric solid electrolytes for electrode-less structural batteries</p> <p>University of Porto, Portugal</p>	<p>B5 - ID90 Adam Strnad Microstructure and mechanical properties of zirconium alloys</p> <p>Charles University, Czechia</p>	<p>E5-ID132 Martin Reimer Cellulose-based biopolymer optical fibers and their theoretical attenuation limit</p> <p>Technical University of Munich, Germany</p>
12:15	<p>A6-ID191 Paulo Nunes Sol-gel derived di-ureasil based ormolytes for electrochromic devices</p> <p>University of Trás-os-Montes e Alto Douro, Portugal</p>	<p>B6 - ID49 Eliška Jača The effect of vanadium on the high-temperature oxidation of complex concentrated alloys FeAlCrNi_xV_y</p> <p>Charles University, Czechia</p>	<p>E6-ID139 Matthias Langhansl Cottonid – a forgotten biogenic material with a promise</p> <p>Technical University of Munich, Germany</p>
12:30	<p>A7- ID113 Diogo Pereira Advanced waste-based magnetic activated carbon towards the removal of ubiquitous emerging contaminants from wastewater</p> <p>University of Aveiro, Portugal</p>	<p>B7 - ID193 Gianluca Di Egidio Response to Different Artificial Aging Conditions of the As-built and Rapid Solubilized AlSi10Mg Alloy Produced by Laser-Based Powder Bed Fusion</p> <p>University of Bologna, Italy</p>	<p>E7-ID141 Gianluca Utzeri Amine-cyclodextrin-based nanosponges – novel polymeric sorbent materials</p> <p>University of Coimbra, Portugal</p>

12:45	A8 – ID207 Maxim Ivanov Surface treatment of stainless steel 316L towards poly(L- lactic) acid polymer adhesion University of Aveiro, Portugal		E8 - ID59 Vladislav Slabov Biosurfactants for separation of ultrafine mineral particles Norwegian University of Science and Technology, Norway
13:00	Location: Mechanical Engineering Department Lunch Break		
14:30	Main Auditorium Chair: Prof. Natalia Sobczak, PL Keynote session Prof. Federico Bella, Politecnico di Torino, Italy Electrochemistry for energy: conversion, storage and integration for a self-powered society		
15:00	Main Auditorium ERC Day Prof. Rodrigo Martins, NOVA University Lisbon Materials and the Creativity Challenges for a Better Green Sustainable World		
17:00	Poster Session		
18:30	Location: Mechanical Engineering Department Sunset Party		

July 21st, 2022

08:30	Entrance hall of the FCTUC building Registration		
09:15	Main Auditorium Chair: Prof. Eric le Bourhis, FR Plenary session Prof. Luis M. Liz-Marzán, CIC biomaGUNE, Spain From nanoparticles to artificial tumors: A lifetime scientific journey		
10:00	End of Plenary lecture		
Parallel Sessions	Auditorium A	Auditorium B	Auditorium C
	Functional Materials	Characterization and modeling	Processing technologies
	Chairs: Emmanuel Fodeke, FR and Anna Boufina, GR	Chairs: Guy Bowker, UK and Anna Mantelli, IT	Chairs: John Hernandez, ES and Sebastião Barros, DE
	10:15	10:15	10:15
A9-ID44 Emmanuel Fodeke Investigating the mechanical behaviour of MoS ₂ thin films under stress University of Poitiers, France	D1 - ID63 Adrian Boccardo Accelerating phase-field microstructure simulations by combining Fourier transforms and parallelization on graphic cards National University of Ireland, Ireland	C1 - ID4 Huda Al-Jurani Scale Development and Inhibition on Sugar Cane Heat Exchangers University of Manchester, United Kingdom	
10:30	10:30	10:30	
A10-ID100 Deepti Raj Dense and Mesoporous FePd Nanowires as Excellent SERS-active Substrates Università di Torino, Italy	D2 - ID69 Guy Bowker Modelling the Microstructure Evolution During Hot Working of Titanium Alloys University of Manchester, United Kingdom	C2 - ID30 Ahmed Hashem Ion-exchanged borosilicate glass vials for pharmaceutical packaging Alexander Dubček University of Trenčín, Slovakia	
10:45	10:45	10:45	
A11-ID169 Helena Pereira MgO nanoparticles obtained by Pulsed Laser Ablation in Liquid - a study on fabrication versatility aiming different applications University of Minho, Portugal	D3 - ID195 Anna Mantelli Effect of casting parameters and geometry on 26-ton ingot defects evaluated by numerical simulation analysis University of Brescia, Italy	C3 - ID156 John Hernandez Antibacterial hydroxyapatite/silver composite coatings onto mechanically improved TiMoNbTa alloy: evaluation and optimization of electrodeposition processes Universitat Autònoma de Barcelona, Spain	

11:00	A12-ID125 Anna Boufina Modification and Characterization of Ag and CuO Nanofluids for Stability Control and Thermal Conductivity Enhancement Aristotle University of Thessaloniki, Greece	D4 - ID45 Yohan Douest Glass forming ability exploration of Ti-based bulk metallic glass systems using machine learning tools Anthogyr SAS, France	C4 - ID70 Sebastião Barros The influence of Cu ²⁺ on SaOS-2 and human mesenchymal stromal cells Technical University Dresden, Germany
11:15	Coffee break		
Parallel Sessions	Auditorium A Functional Materials Chairs: Ekaterina Vinokurova, DE and Akritiy Anand, SK	Auditorium B Structural Materials Chairs: Monika Jawańska, PL and Manuel Evaristo, PT	Auditorium C Processing technologies Chairs: Aikaterini Baxevasi, GR and Gregory Marcos, FR
	11:30	A13-ID147 Stavroula Maritsa Study of Casting and Selected Thermal Processes in a Copper Based Multicomponent Alloy National Technical University of Athens, Greece	B8 - ID112 Gonçalo Gorito The role of boron on the microstructure and properties of a Ni-Si-B casting alloy University of Porto, Portugal
11:45	A14-ID211 Ekaterina Vinokurova Crystal growth and electrochemical intercalation of a frustrated magnet α -RuCl ₃ Technische Universität Dresden, Germany	B9 - ID149 Callum Andrew Characterization of Zirconium alloys with Copper and Vanadium additions for nuclear fuel assembly materials The University of Manchester, United Kingdom	C6 - ID106 Mariana Silva UV absorbing transparent coatings in glass matrices University of Aveiro, Portugal
12:00	A15-ID18 Akritiy Anand Multifunctional copper and strontium co-doped mesoporous bioactive glass: Preparation, characterization and bioactivity Alexander Dubček University of Trenčín, Slovakia	B10 - ID71 Roger Castellote-Alvarez Cu-Mn cosegregation in MnCrFe ₂ Ni ₂ base HEAs produced by different manufacturing routes Centro Nacional de Investigaciones Metalúrgicas, Spain	C7 - ID16 Corentin Tousch Incorporation of carbon nanotubes in alumina layers grown by plasma electrolytic oxidation Institut Jean Lamour, France

12:15	<p>A16-ID131 Vipin Richhariya Anti-slipping Winter Shoe-soles: A Nature Inspired Solution</p> <p>University of Minho, Portugal</p>	<p>B11 - ID94 Monika Jawańska Improving the oxidation resistance of high-entropy alloys via addition of reactive elements</p> <p>AGH University of Science and Technology, Poland</p>	<p>C8-ID33 Gregory Marcos Stainless steels patterning by selective etching in ICP chlorine-based plasmas</p> <p>Institut Jean Lamour, France</p>
12:30	<p>A17-ID206 Rita Gaspar Fonseca</p> <p>Photo-degradable, tough and highly stretchable hydrogels</p> <p>University of Coimbra, Portugal</p>	<p>B12-ID146 Tomáš Tayari</p> <p>The occurrence of atypical serrated flow in entropy alloys</p> <p>Charles University, Czechia</p>	<p>C9 - ID168 Alexandre Silva</p> <p>A machine learning solution to the texture optimization problem</p> <p>University of Minho, Braga</p>
12:45		<p>B13 - ID183 Pablo Saint-Laurence Microstructure and mechanical properties of light-weight refractory high-entropy alloys fabricated by powder metallurgy</p> <p>Technical University of Catalonia, Spain</p>	
13:00	<p>Location: Mechanical Engineering Department</p> <p>Lunch Break</p>		
14:30	<p>Main Auditorium</p> <p>Chair: Prof. Paula Vilarinho, PT</p> <p>Keynote session Prof. Goreti Sales, University of Coimbra, Portugal Innovative designs in (bio)sensors with plastic antibodies</p>		
15:00	<p>Main Auditorium</p> <p>FEMS Master Thesis Award</p> <p>Nerea García de Albeniz (SOCIEMAT) Ivânia Trêpo (SPM) Chrysoula Aivalioti (HSSTCM) Yann Bami-Chatener (SF2M)</p>	<p>Sala do Conselho</p> <p>Satelite Event</p> 	
16:15	<p>Poster Session</p>		
17:00	<p>Coffee Break</p>		

Parallel Sessions	<p>Auditorium A</p> <p>Functional Materials</p> <p>Chairs: Nerea García de Albeniz, ES and António Delgado, UK</p>	<p>Auditorium B</p> <p>Structural Materials</p> <p>Chairs: Íris Carneiro, PT and Jacopo Romanò, IT</p>	<p>Auditorium C</p> <p>Processing technologies</p> <p>Chairs: Sandra Cruz, PT and Jan Dittrich, CZ</p>
17:15	<p>A18-ID95</p> <p>Young Researcher Award</p> <p>António Delgado</p> <p>ATR-FTIR/Micro-Raman Spectroscopy are powerful techniques to disclose chemistry and polymerization of novel smart self-adhesive composites</p> <p>University College London, United Kingdom</p>	<p>B14 - ID150</p> <p>Íris Carneiro</p> <p>Deformation behavior of CNT reinforced metal matrix nanocomposites</p> <p>University of Porto, Portugal</p>	<p>C10 - ID64</p> <p>Jan Dittrich</p> <p>Analysis of the texture influence on deformation behavior of a rolled AZ31 magnesium alloy</p> <p>Charles University, Czechia</p>
17:30		<p>B15 - ID68</p> <p>Érika Maria Leite de Sousa</p> <p>Sustainable process to produce waste-based activated carbon by microwave pyrolysis for the removal of antibiotics</p> <p>University of Aveiro, Portugal</p>	<p>C11 - ID153</p> <p>Adam Greš</p> <p>Deformation Mechanisms in Pure Heat-treated Polycrystalline Cobalt with Different High Temperature FCC Phase Content</p> <p>Charles University, Czechia</p>
17:45	<p>A19-ID79</p> <p>Tim Kreuz</p> <p>Synthesis and Characterization of Silicate and Zinc Co-Substituted Hydroxyapatite</p> <p>University of Cambridge, United Kingdom</p>	<p>B16 - ID92</p> <p>João Pinto</p> <p>Hydrothermal Ageing Behavior of Bioinspired Material with Piezoelectric Functions for Implant Applications</p> <p>University of Minho, Portugal</p>	<p>C12 - ID199</p> <p>Florian Spieckermann</p> <p>Structure-dynamics relationships in cryogenically deformed bulk metallic glass</p> <p>Montanuniversität Leoben, Austria</p>

18:00	<p>A20-ID80 Francisca Fonseca Improving the interface between orthopedic implants and bone - a comparison between different surface treatments</p> <p>University of Minho, Portugal</p>	<p>B17 - ID14 Katie Buchanan Characterisation of Advanced Metal Matrix Composite Materials for Application to High Energy Physics Detectors</p> <p>CERN, Switzerland</p>	<p>C13 - ID51 Stanislav Šašek Magnesium alloys containing yttrium, gadolinium and calcium processed by Equal Channel Angular Pressing (ECAP)</p> <p>Charles University, Czechia</p>
18:15	<p>A21 Todor Vuchkov Upscaling of self-lubricating W-S-C coatings deposited by magnetron sputtering</p> <p>Instituto Pedro Nunes</p>	<p>B18 - ID17 Jacopo Romanò Combining non-linearities to affect the damping behaviour of fibre-reinforced polymer composites</p> <p>Institute of Condensed Matter Chemistry and Technologies for Energy, Italy</p>	<p>C14 - ID25 Angelika Cerny Towards electrically assisted manufacturing of light metal and steel parts on a semi-industrial scale</p> <p>Austrian Institut of Technology, Austria</p>
18:30	<p>A22-ID174 Kamil Kleszcz Tackling implant infections: chitosan layers loaded with gold nanoparticle conjugated with gentamicin for orthopedic applications</p> <p>AGH University of Science and Technology, Poland</p>	<p>B19 - ID75 Marzieh Ghadamyari Luminescent YAG: Er microspheres used for preparation of phosphor in glass materials</p> <p>Alexander Dubček University of Trenčín, Slovakia</p>	<p>C15 - ID15 Niall Hughes Dispersoid Evolution During Homogenization in 5XXX Alloys. Effects of Composition, Micro-segregation, and Modelling of Strengthening</p> <p>University of Manchester, United Kingdom</p>
18:45	<p>A23-ID180 Akhilesh Rai Near-infrared light-responsive nanoparticles as an efficient carrier to cross the blood-brain barrier</p> <p>University of Coimbra, Portugal</p>	<p>B20 - ID101 Beatriz Maia High-performance multifaceted materials: structural approaches for Li-ion batteries</p> <p>INEGI - Institute of Science and Innovation in Mechanical Engineering and Industrial Engineering, Portugal</p>	<p>C16 - ID26 Jorge Robles Physical and computational simulation of Functionally Graded Materials</p> <p>IMDEA Materials Institute, Spain</p>
19:00	End of Parallel Sessions		
20:00	Location: Tertúlia d'Eventos, Coimbra		
	Conference Dinner		

July 22nd, 2022



09:00	Entrance hall of the FCTUC building Registration		
09:30	Main Auditorium Chair: Prof. Gian Luca Garagnani, IT Plenary session Prof. Maria Clelia Righi, Bologna University, Italy Advancing Solid Interfaces and Lubricants by First Principles Materials Design		
10:15	End of Plenary lecture		
Parallel Sessions	Auditorium A Functional Materials Chairs: Yen Fred Woguem, FR and Luísa Fialho, PT	Auditorium B Characterization and modeling Chairs: Karolina Peter, AT and Elif Kursun, CH	Auditorium C Processing technologies Chairs: Claudia Schwerz, SE and Patrícia Rodrigues, PT
	10:30	A24-ID74 Mónica Loureiro Advances in isocyanate microencapsulation for new ecological and mono-component adhesives Universidade de Lisboa, Portugal	D5 J.M. Ribeiro Development of TiO ₂ :Nb thin films for transparent thermoelectric modules University of Minho, Portugal
10:45	A25-ID91 Paola Rizzi Nanoporous Gold synthesis from metastable Au ₃₃ Fe ₆₇ alloy for Surface Enhanced Raman Spectroscopy applications University of Torino, Italy	D6 - ID129 Karolina Peter “Zooming inside spider silk” - Using synchrotron nanoXRD to compare the ultrastructure of spider silks University of Natural Resources and Life Sciences, Austria	C18 – ID117 Patrícia Rodrigues Integration of NiTi crack sensors in aluminum alloys by material extrusion (MEX) University of Coimbra, Portugal
11:00	Coffee break		

11:30	<p>A26-ID127 Alexander Dallinger Tunable wettability of laser-induced graphene through processing environment or processing parameters</p> <p>Graz University of Technology, Austria</p>	<p>D7 - ID37 Marco Alberto Impact of the RbF treatment in high bandgap ACIGS based solar cells</p> <p>International Iberian Nanotechnology Laboratory, Portugal</p>	<p>C19 - ID32 Claudia Schwerz In-situ detection of defects generated by spatter in laser powder bed fusion</p> <p>Chalmers University of Technology, Sweden</p>
11:45	<p>A27-ID111 Kirti Tiwari Dealloying a Ti-Cu based Amorphous Alloy for Enhancing its Antimicrobial Properties for Biomedical Implant Application</p> <p>Università degli Studi di Torino, Italy</p>	<p>D8 – ID47 Andrea Szabóová Investigation of the dynamics of deformation mechanisms in Mg-Gd alloys using in-situ experimental methods</p> <p>Charles University, Czechia</p>	<p>C20 - ID89 Ana González Multiscale characterisation of maraging steel microstructure obtained by laser powder bed fusion</p> <p>National Centre for Metallurgical Research, Spain</p>
12:00	<p>A28-ID96 Aleksandra Bartkowska Engineered porous FeMn alloys with addition of Ag as antibacterial element for biodegradable implant applications</p> <p>Autonomous University of Barcelona, Spain</p>	<p>D9 – ID73 Elif Kursun Characterization of Strain Localizations Under Cyclic Loading through Multi-Scale Digital Image Correlation Study</p> <p>Paul Scherrer Institute, Switzerland</p>	<p>C21 - ID138 Katharina Gabrysiak Correlation between process parameters, microstructure and properties of Al₉₂Mn₆Ce₂ processed by laser powder bed fusion</p> <p>Leibniz Institute for Solid State and Materials Research Dresden, Germany</p>
12:15	<p>A29-ID8 Ludovico Alberta Effect of bactericidal agents Ga and Cu on structural and mechanical properties of beta-TiNb alloys</p> <p>Institute for Complex Materials, IFW Dresden, Germany</p>	<p>D10 – ID88 Michael White Generating Synthetic Image Data for Titanium Alloys via Generative Adversarial Networks and Variational Autoencoders</p> <p>University of Manchester, United Kingdom</p>	<p>C22 – ID157 Kostas Andritsos Laser printed and sintered Ag nanoparticle metal-grids as bottom electrode for ITO-free organic photovoltaics</p> <p>National Technical University of Athens, Greece</p>

12:30	A30-ID210 Catarina Rebelo Antimicrobial porous Ta ₂ O ₅ surfaces with Zinc nanoparticles deposited by magnetron sputtering University of Minho, Portugal	D11 – ID98 Silvia Guerra Rodríguez TEM in-situ straining experiments applied to investigate localized deformation in irradiated stainless steels Center for Energy, Environmental and Technological Research, Spain	C23 – ID10 Vasileios Efstratiadis Isolation, Recovery, Recycle of Critical Metals and Rare Earth Elements from Waste Electric and Electronic Equipment and their Reusability in Additive Manufacturing applications Aristotle University of Thessaloniki, Greece
12:45		D12 – ID136 Sakina Zaman Modelling Environmentally Assisted Cracking in Ni-based Superalloys University of Manchester, United Kingdom	
13:00	Location: Mechanical Engineering Department Lunch Break		
14:30	Main Auditorium Chair: Prof. Anna Zervaki, GR Keynote session Prof. Damien Voiry, University of Montpellier, France Molecular doping of metal catalysts for improving the electrochemical conversion of CO ₂ to multicarbon products		
15:00	End of Keynote lecture		
Parallel Sessions	Auditorium A Structural Materials Chairs: Annalisa Fortini, IT and Alexandros Prospathopoulos, GR	Auditorium B Characterization and modeling Chairs: Chil Charlélie, FR and Yannick Fortouna, GR	Auditorium C Processing technologies Chairs: Alec Saville, USA and Evgenia Dimitriou, GR
	15:15 B21 – ID103 Sophie Drescher Solid solution strengthening in single-phase HEAs based on Au-Cu-Ni-Pd-Pt IFW Dresden, Germany	D13 - ID23 Yen Fred Woguem Classical And Ab-Initio Atomistic Simulations Of Σ 3 [1-10](11-2) Incoherent Twin Boundaries In Gold: Structure, Interactions University of Poitiers, France	C24 - ID39 Alec Saville Microstructural Control in Additive Manufacturing of Titanium Alloys Colorado School of Mines, United States of America

15:30	<p>B22 - ID61 Andrés Soraluce Fatigue cracking initiation and propagation mechanisms in quenching and partitioning (Q&P) treated stainless steels</p> <p>IMDEA Materials Institute, Spain</p>	<p>D14 - ID124 Chil Charlélie Elastic buckling of graphene: a molecular static and DFT study</p> <p>Université de Poitiers, France</p>	<p>C25 - ID76 Cindy Morales WC-Co additive manufactured depositions on a HSS 390 steel substrate: a microstructural investigation</p> <p>University of Ferrara, Italy</p>
15:45	<p>B23 – ID78 Annalisa Fortini Solid particle erosion resistance of a high-chromium Fe-Cr-C hardfacing alloy: the role of microstructure and particle size</p> <p>University of Ferrara, Italy</p>	<p>D15 - ID42 Simon Gramatte Atomistic simulations of surface-induced amorphization kinetics in γ-Alumina nanoparticles</p> <p>Advanced Materials and Surfaces, Empa, Switzerland</p>	<p>C26 - ID9 Evgenia Dimitriou Preparation of Superconcentrated Silver and Copper Oxide Nanoparticle Inks for LIFT-Printing of Electronics</p> <p>Aristotle University of Thessaloniki, Greece</p>
16:00	<p>B24 - ID105 Alexandros Prospathopoulos Examining the role of environmental factors and grain orientation in fatigue life of aluminum alloy 7075</p> <p>Aristotle University of Thessaloniki, Greece</p>	<p>D16 - ID122 Müller Lorris Atomistic assessment of copper melting point depression in confinement with AlN</p> <p>Laboratory for Advanced Materials Processing, Empa, Switzerland</p>	<p>C27 - ID170 Alto Koualiarella Tuning the shape memory polymer properties through 3D printing strategy: An experimental study</p> <p>Aristotle University of Thessaloniki, Greece</p>
16:15	<p>B25 - ID57 Veronika Kočiščáková The influence of molybdenum content on phase transformations in binary Ti-Mo alloys</p> <p>Charles University, Czechia</p>	<p>D17 - ID99 Yannick Fortouna β-TiNb in presence of antibacterial Ga and Cu by ab initio calculations</p> <p>University of Ioannina, Greece</p>	<p>C28 - ID217 Panagiotis Karakaidos Parametric Study of Jet Droplet Formation Process during LIFT Printing of Living Cell Laden Bioink</p> <p>National Technical University of Athens, Greece</p>
16:30	End of parallel sessions		
16:45	<p>Main Auditorium DEBATE: "What next for materials ?" Ph.D Margarethe Hofmann & Prof. Heiri Hofmann-Antenbrink & Prof. Gerhard Schneider</p>		
18:15	<p>Main Auditorium Closing Session</p>		