



MATERIAIS 2022

Exploring a Better Future



Auditorium 1: Teatro Stephens



Auditorium 2: Edifício da Resinagem



Auditorium 3: Sala da Exposição de Moldes

April 11, 2022

Auditorium 1: Teatro Stephens

08:30 09:00	<i>Opening/Registration</i>
09:00 10:00	Plenary Lecture 1 <i>Processing-Structure-Property relationships in FFF Nylon-12</i> Alexander Korsunsky University of Oxford, United Kingdom
10:00 11:00	C – Materials Processing and Characterization <i>Colored PETG filaments: effects of pigment on the mechanical properties of heat-treated FFF parts</i> Francisco Castro, Leonardo Santana, Jorge Lino Alves <i>Laser surface texturing of stainless-steel cutlery to integrate ceramic blocks: Parametric optimization and patterning</i> Vipin Richhariya, Oscar Carvalho, Ashis Tripathy and F. S. Silva <i>Study of Composites Materials from Waste for Large-Scale Additive Manufacturing</i> Patricio Banda Vargas, Fábio Simões and Artur Mateus
11:00 11:20	Coffee break
11:20 12:40	C – Materials Processing and Characterization <i>Controlling morphological development during Additive Manufacturing: a route to mapping of properties</i> Daniel Silva, João Pinheiro, Saba Abdulghani, Christina S Kamma-Lorger, Eduardo Solano, Juan Carlos Martinez, Paula Pascoal-Faria, Artur Mateus and Geoffrey R Mitchell

	<i>Damage propagation in drilled carbon/epoxy plates under cyclic loading</i> L.M.P. Durão, J.E. Matos, N.C. Loureiro, J.L. Esteves, Susana C.F. Fernandes <i>Investigations on the wear performance of coated tools in machining UNS S32101 duplex stainless steel</i> F.J.G. Silva, V.F.C. Sousa, R.D.S.G. Campilho and R. Alexandre <i>Ovine Model as a Temporomandibular Disc Substitute: Characterisation and the Outcomes of Freezing Storage</i> Daniela Trindade, Cecília Calado, Nuno Alves and Carla Moura
12:40 14:00	Lunch Break
14:00 14:40	Keynote Speaker 1 <i>Present and future of the ALBA Synchrotron in Spain</i> Caterina Biscari ALBA Synchrotron, Spain
14:40 16:00	C – Materials Processing and Characterization <i>WC-Co Filament for Additive Manufacturing - Material Extrusion (MEX)</i> Gonçalo Oliveira, Maria Teresa Vieira, Ana Senos, Maria Elisabete Costa, Ricardo Mineiro, Cristina Fernandes, Daniel Figueiredo <i>Material extrusion (MEX) steel filament comparison using non-destructive techniques</i> Daniel Gatões, Bernardo Alves, Gonçalo Rodrigues and M. T. Vieira <i>Dual function WS2 thin-films as a substrate for ultrafast response thermocouple to temperature evaluation in μinjection molding</i> Tomás Resendes, Manuel Evaristo, António Pina, Henrique Pizarro and Teresa Vieira <i>Understanding dimensional and geometrical tolerances of metal, polymer and composite powder bed fusion additive manufacturing technologies</i> Ana C. Lopes, Eva C. Silva, Álvaro M. Sampaio and António J. Pontes
16:00 16:20	Coffee break
16:20 17:00	C – Materials Processing and Characterization <i>Designing Sctructural Metamaterials</i> João Cardoso, Patrícia Almeida, Gonçalo Catatão, Guilherme Cândida, Frederico Páscoa, Daniela Silva, Carla Machado, João P. Borges, Alexandre Velhinho <i>Structural and optical characterization of mechanochemically synthesized CuSbS2</i> L. Esperto, I. Figueira, J. Mascarenhas, T.P. Silva, J.B. Correia and F. Neves

17:00 17:20	<i>Correlative in-situ Microscopy combining properties from AFM and SEM in material science</i> Veronika Hegrová NenoVision s.r.o.
---------------	--

Auditorium 2: Edifício da Resinagem

10:00 11:00	B - Structural Materials <i>Deposition of functionally graded material between Inconel 625 and AISI 431</i> Jorge Gil, Abílio de Jesus, M. Beatriz Silva, M.F. Vaz, Ana Reis <i>The role of boron on the microstructure and properties of a Ni-Si-B casting alloy</i> Gonçalo M. Gorito, Manuel F. Vieira and Laura M. M. Ribeiro <i>An Investigation on the Reinforcement of a Cast Stainless Steel with WC-MMC</i> Aida B. Moreira, Laura M.M. Ribeiro and Manuel F. Vieira
11:00 11:20	Coffee break
11:20 12:40	D – Materials Modelling and Simulation <i>Cell Culture Bioreactor's manufacturing from materials' selection to numerical models</i> Paula Pascoal-Faria, João Meneses, Abhisked Datta, João Silva, Frederico Ferreira, Carla Moura and Nuno Alves <i>Cellular Materials Optimisation Framework</i> Miguel Silva, António Pereira, Nuno Alves, Álvaro Sampaio and António Pontes <i>Development of new mesh geometries with different mechanical properties using the design freedom of Melt Electrowriting</i> Sebastian Sterk, Rita Rynkevicius, Silva M.E.T., Alves J.L., Fernandes A.A., D. Pinheiro <i>Microstructural modelling of the thermoelastic properties of dense ZTA ceramics</i> Gustavo Carmo, J. Mesquita-Guimarães, J. Baltazar, S. Olhero and J. Pinho-da-Cruz
12:40 14:00	Lunch Break

14:00 14:40	Keynote Speaker 2 <i>Numerical Modelling Approaches for Bone Tissue Engineering</i> Paula Pascoal Faria Polytechnic of Leiria, Portugal
14:40 16:00	D – Materials Modelling and Simulation <i>Geometric characterization automation of single line depositions by direct laser deposition</i> Jorge Gil, Abílio de Jesus, M. Beatriz Silva, M.F. Vaz, Ana Reis, João Manuel R.S. Tavares <i>Micromechanical modeling of the material impact in the feed-stock filaments properties for indirect additive manufacturing (MEX)</i> Luís Cacho, Bernardo Alves, Amílcar Ramalho, Augusta Neto, Teresa Vieira and Gonçalo Rodrigues <i>Embossing pressure effect on mechanical and softness properties of industrial base tissue papers with FEM validation</i> Joana Costa Vieira, António de O. Mendes, Marcelo Leite Ribeiro, André Costa Vieira, Ana Margarida Carta, Paulo Torrão Fiadeiro, Ana Paula Costa <i>Experimental characterization and numerical modeling of the corrosion effect on the mechanical properties of the biodegradable magnesium alloy WE43 for orthopedic applications</i> Felipe Saconi, André Costa Vieira and Marcelo Leite Ribeiro
16:00 16:20	Coffee break
16:20 17:00	D – Materials Modelling and Simulation <i>Elastic and plastic properties of gyroid sheet foams</i> Ana Pais, Jorge Lino Alves and Jorge Belinha <i>Functional gradients of the gyroid infill for structural optimization</i> Ana Pais, Jorge Lino Alves and Jorge Belinha

Auditorium 3: Sala da Exposição de Moldes

10:00 11:00	A – Functional Materials <i>Anchoring manganese and cobalt oxides onto S,N-doped graphene electrode materials for supercapacitors</i> Fátima Montemor, Teresa M. Silva, Alberto Adán Más, Diana M. Fernandes, Ana C. Alves and Rodrigo Braga <i>Carbon yarn-based supercapacitors with in-situ regenerated cellulose hydrogel for sustainable wearable electronics</i> José Tiago Carvalho, Inês Cunha, João Coelho, Elvira Fortunato, Rodrigo Martins and Luís Pereira <i>Measuring in-situ X-ray scattering of natural rubber biaxial deformation: a new equipment for polymer studies</i> Daniel P. da Silva, Barbara Lamolinara, André Costa, Fábio Gameiro, Paula Pascoal-Faria, Artur Mateus, Juan Carlos Martinez, Pranee Phinyocheep, Taweechai Amornsakchai and Geoffrey R Mitchell
11:00 11:20	Coffee break
11:20 12:40	A – Functional Materials <i>Graphene nanoplatelet-reinforced poly(propylene): nanofiller characteristics influence on the properties of nanocomposites</i> Luiza Melo de Lima, Tito Trindade and Martinho Oliveira <i>Nucleation activity of graphene in polyamide 6-based nano-composites prepared by in situ polymerization</i> Joana Lagarinhos, Martinho Oliveira <i>Composites based on PDMS and Graphite Flakes for Thermoelectric Sensing Applications</i> Joana Figueira, Eliana M. F. Vieira, Joana Loureiro, Higinio Correia, Elvira Fortunato, Rodrigo Martins and Luís Pereira <i>Copper / Stainless Steel Friction Stir Spot Welds – Feasibility and microstructural analysis</i> D. Taborda, R.M. Leal, T. Morgado, C. Leitão and I. Galvão
12:40 14:00	Lunch Break
14:40 16:00	B – Structural Materials <i>A breathable and washable smart fabric for pressure sensing</i> Luisa M. Arruda, Inês P. Moreira and Raul Figueiro <i>Ferronematic Liquid Crystal Polymers and Elastomers</i> Sarah J. Reeves, Fred J. Davis and Geoffrey R Mitchell

	<i>Thermoplastic composites reinforced with wool and wood: application in the automotive industry</i> Gabriela Martins, Catarina Baptista, Cyril Santos, Filipe Antunes and Artur Mateus <i>Effect of the amino-silane mineral waste treatment on the mechanical resistance of PA12-mineral composites processed by SLS printing</i> Daniel Barros, Luís Nobre, João Bessa, Fernando Cunha, Michael Machado, João P. Mendonça, Paulo Machado, César Fernandes and Raúl Fanguero
16:00 16:20	Coffee break
16:20 17:00	C – Materials Processing and Characterization <i>Impact of the substrate on the structure and microstructure of potassium sodium niobate films with different degree of preferential orientation</i> Rui Pinho, Rui Vilarinho, J. Agostinho Moreira, M. Elisabete Costa and Paula M. Vilarinho <i>Ca₃Mn₂O₇ thin films prepared by Pulsed Laser Deposition</i> Bruna Silva, João Oliveira, Tiago Rebelo, Pedro Rocha-Rodrigues, Neenu Lekshmi, Armandina Lopes, João Araújo, Francis Deepak, Bernardo Almeida

Centro para o Desenvolvimento Rápido e Sustentável do Produto (CDRSP)

17:40 19:40	Workshop <i>Demonstration Measurement of AFM-in-SEM Solution</i> (maximum of 10 people per session) NenoVision; Dias de Sousa
19:40 20:30	Visit to the Centre for Rapid and Sustainable Product Development (CDRSP)

April 12, 2022

Auditorium 1: Teatro Stephens

08:30 09:00	Registration
09:00 10:00	Plenary Lecture 2 <i>Nanostructured Functional Materials by ATRP</i> Krzysztof Matyjaszewski Carnegie Mellon University, United States of America
10:00 11:00	C – Materials Processing and Characterization <i>Additive manufactured stoneware fired in microwave furnace</i> Tiago Santos, Melinda Ramani, Susana Devesa, Catarina Batista, Margarida Franco, Luís Costa, Nelson Ferreira, Nuno Alves and Paula Pascoal-Faria <i>Reproducibility study of the T-RTM process for glass fiber re-inforced polyamide 6 composites</i> Filipe Martins, Laura Santos, Ricardo Torcato, Paulo Lima and Martinho Oliveira <i>Material Extrusion: shaping and sintering optimization through microtomography</i> Bernardo Alves, Daniel Gatões, Ricardo Loureiro and Maria Teresa Vieira
11:00 11:20	Coffee break
11:20 12:40	C – Materials Processing and Characterization <i>Sedimentation in the A356-Al₂O₃ Stirred Cast</i> Omid Emadinia, Rui Madureira, Rui Soares, Helder Nunes, Inês Frada, Vitor Anjos, Carlo Silva Ribeiro, Rui Neto, Ana Reis and Manuel Vieira <i>Spark Plasma Sintered and Textured Ba_{0.7}Sr_{0.3}TiO₃: Microstructure and Electrical Characterization</i> Camila Ribeiro, Fátima Zorro, Alexander Tkach, Paulo Ferreira, Sloany Medeiros, M. Elisabete Costa, Jacques Noudem and Paula M. Vilarinho <i>Investigations on blowing agents for the processability of foamed parts by rotational molding techniques</i> Joana Lopes and Carla I. Martins <i>Powder Bed Fusion: a new casting technology</i> Francisco Reis Cruz, Pedro Cunha e Silva and Teresa Vieira
12:40 14:00	Lunch Break
14:00 14:40	Keynote Speaker 3

	<i>Conservation and strengthening of cultural heritage buildings: A materials perspective from a structural engineer</i> Paulo Lourenço University of Minho, Portugal
14:40 16:00	B – Structural Materials <i>Exploring Construction and Demolition Waste (CDW) to reduce natural aggregates in 3DP mortar as a chance to find new aesthetic possibilities – the recycled brick</i> Joana Costa, João Teixeira, Bárbara Rangel, Luís Moreira, Lino Maia, Jorge Lino Alves and Rui Neto <i>Evaluation of the potential of metakaolin, electric arc furnace slag, and biomass fly ash for geopolymer cement compositions</i> Tomás Archer de Carvalho, Florindo Gaspar, Ana Marques, Artur Mateus C – Materials Processing and Characterization <i>Mortars from built cultural heritage: materials characterization of the Palace of Knossos case of study</i> Fernanda Carvalho, Pedro Sousa, Nuno Leal, Joaquim Simão, Elissavet Kavoulaki, Maria Margarida Lima, Teresa Pereira da Silva, Hugo Águas, Giuseppina Padeletti, João Pedro Veiga <i>Stress Relaxation and Creep Behaviour of Material Jetting Parts</i> Mário Pereira, Paulo Reis, Miguel Silva and Martins Ferreira
19:00	Gala Dinner at Quinta do Paul (Ortigosa)

Auditorium 2: Edifício da Resinagem

10:00 11:00	A – Functional Materials <i>Carbon quantum dot based UV protective coatings</i> Mariana R.F. Silva, Manuel Alves, Maria H. Fernandes, Paula M. Vilarinho, Paula Ferreira <i>Recent progresses toward the development of TMDs based industrial dry lubricants for multi-environment sliding</i> Talha Bin Yaqub, Abbas Al- Rjoub, Filipe Fernandes and Albano Cavaleiro <i>Precise approach for the surface functionalization of poly(Lactic) acid coating via electrical patterning</i> Maxim Ivanov, Júlio R. H. Rocha and Paula M. Vilarinho
11:00 11:20	Coffee break
11:20 12:40	C – Materials Processing and Characterization <i>Development of antimicrobial surfaces by deposition of Zinc nanoparticles by magnetron sputtering on Ta2O5 nanostructured surfaces</i> C. Rebelo, L. Fialho, C. F. Almeida Alves, J. D. Castro, P. Sampaio and Sandra Carvalho <i>Biobased Polyurethane Coatings for Corrosion Protection of Stainless-Steel</i> Tiago A.R. Silva, Ana C. Marques, Rui Galhano dos Santos, Maryna Taryba and M.F. Montemor <i>Multifunctional coated textiles for active biological protection</i> Joana C. Antunes, Tânia Ferreira, Maria Sousa-Silva, Fernanda Gomes, Fernando Cunha, Inês P. Moreira, Mariana Henriques, Raúl Fanguero <i>Circularity micro-indicators applied to plastic parts: the materials perspective</i> Joana Matos, Ricardo Simões and Carla I. Martins
12:40 14:00	Lunch Break
14:00 14:40	Keynote Speaker 4 <i>Reversible deactivation radical polymerization: giving a new life to poly(vinyl chloride)</i> Jorge Coelho University of Coimbra, Portugal
14:40 16:00	C – Materials Processing and Characterization <i>Assessment of Work Hardening Behavior of Sheet Metal Materials using Meso and Macro Scale Specimens</i> D. J. Cruz, A. F. G. Pereira, V. M. Simões, R. L. Amaral, A. D. Santos and M. C. Oliveira <i>Valorization of bauxite residue in ceramic pastes</i>

	I.S. Vilarinho, A. C. Dias, J. Carneiro, C. Pinto, J.A. Labrincha and M.P. Seabra <i>Development and characterization of bulk and epoxy molding compounds from non-metallic fractions recovered from printed circuit boards</i> Márcia Silva, Raimundo Silva, Paulo Nóvoa, Helena Soares, Margarida Bastos and António Marques <i>Waste marble powder valorisation in 3D printable cement-based composites</i> Ana Mafalda Matos, Pedro Pêgo, Barbara Rangel and Jorge Lino Alves
16:00 18:20	Poster Session & Coffee break

Auditorium 3: Sala da Exposição de Moldes

Workshop - Plastics & Sustainability

10:00 11:00	<i>Plastics & Sustainability – The problem</i> Jorge Fernando Jordão Coelho University of Coimbra <i>New Sustainable Raw Materials for Polymer Production</i> João Carlos Moura Bordado University of Lisbon
11:00 11:20	Coffee break
11:20 12:40	<i>Straightforward Modifications of Soybean Oil to Useful Materials</i> Arménio Coimbra Serra University of Coimbra <i>New Challenges in the Production of Microbial Biopolymers</i> Maria da Ascensão Carvalho Fernandes Miranda Reis New University of Lisbon <i>Solutions for Plastics Sustainability</i> Ana Vera Machado Nóbrega University of Minho
12:40 14:00	Lunch Break
14:40 16:15	<i>Wood-based Composites as a Sustainable Alternative to Rigid Plastic Packaging</i> Fernão Domingos de Montenegro Baptista Malheiro de Magalhães University of Oporto <i>Biobased Polymers and Composite Materials and Recycling: a Pathway for Sustainability</i> Armando Jorge Domingues Silvestre University of Aveiro <i>CircularSeas – The new plastics challenge</i> Geoffrey Mitchell Polytechnic of Leiria
16:15 16:30	Coffee Break
16:30 17:00	Round Table

April 13, 2022

Auditorium 1: Teatro Stephens

08:30 09:00	Registration
09:00 10:00	Plenary Lecture 3 <i>Materials for Biomedical Applications</i> Hélder Santos University of Groningen, The Netherlands
10:00 11:00	A – Functional Materials <i>A nature-inspired anti-slipping winter shoe-sole</i> Vipin Richhariya, Oscar Carvalho, Ashis Tripathy and F. S. Silva <i>Novel coaxial fibers combining piezoelectrical and electrical conductive polymers towards cardiac tissue engineering</i> Mariana R. Gomes, Fábio F.F. Garrudo, Paola Sanjuan-Alberte and Frederico C. Ferreira <i>A thermoresponsive injectable microparticles/hydrogel drug delivery system for cancer treatment</i> Henrique Carrêlo, Paula Soares, João Paulo Borges and Maria Teresa Cidade
11:00 11:20	Coffee break
11:20 12:40	A – Functional Materials <i>Alkali activated cements based on slags from different industries</i> M.A. Gómez-Casero, L. Pérez-Villarejo, P.J. Sánchez-Soto, D. Eliche-Quesada <i>Genipin crosslinked chitosan reinforced apatite cement as a carrier for local anti-inflammatory drug delivery</i> M.A. Martins, J. Oliveira, P. Zelenovskii, L. Mafra, S.M. Olhero, L. Gonçalves, A. F. Bettencourt and P.M.C. Torres <i>Piezoelectric PVDF-TrFE/Hydroxyapatite nanofibers for bone tissue engineering</i> Frederico Barbosa, Paola S. Alberte, Fábio F. F. Garrudo, Marta S. Carvalho, Paula Pascoal-Faria, Frederico C. Ferreira and João C. Silva <i>Electrospun polycaprolactone fibers doped with EMIIM and PEDOT for Neural Tissue Engineering</i> Nuno Roberto, Joana Dias, Lya Piaia, J.P. Borges and C.R. Henriques
12:40 14:00	Lunch Break
14:00 14:40	Keynote Speaker 5 <i>Liquid crystal elastomers</i>

	Geoffrey R. Mitchell Polytechnic of Leiria Portugal
14:40 16:00	A – Functional Materials <i>Superparamagnetic iron oxide nanozymes for synergistic cancer treatment</i> Lúcia A. A. Costa, Marta Mateus, João Paulo Borges, Jorge Carvalho Silva, Susana Barreiros and Paula I. P. Soares <i>Extracellular Hyperthermia for the treatment of advanced cutaneous melanoma</i> Beatriz Simões, Filipe V. Almeida and Paula I. P. Soares <i>Tantalum Doped Bioactive Glass: towards a pro-regenerative and antibacterial response</i> A. Sofia Pádua, Sílvia R. Gavinho, M. Pedro F. Graça, Isabel Sá-Nogueira and Jorge C. Silva <i>Magnetic bioactive glass-based 3D systems for bone cancer therapy and regeneration</i> Ricardo J.R. Matos, João Paulo Borges, Jorge Carvalho Silva and Paula I. P. Soares
16:00 16:20	Coffee break
16:20 18:00	A – Functional Materials <i>Gastro-retentive electrospun nanofibers used in gastric wall wound healing</i> Sara F. C. Guerreiro, Anabela G. Dias, Pedro L. Granja and Juliana R. Dias <i>Effect of Portland cement addition in ferrosilicon slag alkali activated materials</i> P. Delgado-Plana, S. Bueno-Rodríguez, L. Pérez-Villarejo and D. Eliche-Quesada <i>PLA Electrospun Fibres Coated with PEDOT by Vapor Phase Polymerization for Neural Regeneration</i> Laura S. Pires, Diogo Melo, J.P. Borges and C.R. Henriques <i>Piezoelectric Calcium Modified Barium Titanate for Bone Regeneration</i> Ricardo M.D. Madeira, Tânia Vieira, Jorge C. Silva, Ivone R. Oliveira, João P. Borges, M. Margarida R. A. Lima and M. Carmo Lança <i>FEA dual model and experimental characterization to investigate the effect of an FCC microstructure on the macroscale and microscale stresses of a PZT actuated vibrating thin plate</i> Daniela Butan, Fengwei Sun, Paul Moroney, Noel P. O'Dowd, Seamus Clifford, Mark Southern, Patrick Walsh, Sean Cunningham
18:00	Closing Ceremony

Auditorium 2: Edifício da Resinagem

10:00 11:00	A – Functional Materials <i>Development of injectable and in situ solidifying biomaterials for vertebral body repair – synthesis, characterization, and application</i> Gabriela Martins, Margarida Figueiredo and Helena Gil <i>Nitroprusside-based organic-inorganic functional hybrids</i> Wei-Jian Xu, Qiu-Rong Guan, Wei-Xiong Zhang, Andrei Kholkin, João Rocha <i>Characterization of electromechanical performance of chitosan films</i> Dayana Guzmán, Srikanth Kolagatla, Brian J. Rodriguez, Paula M. Vilarinho, Cláudia Nunes, Paula Ferreira
11:00 11:20	Coffee break
11:20 12:40	C – Materials Processing and Characterization <i>Additive manufactured polymeric sandwich structures for oral devices: a preliminary study</i> Ana C. Pinho, Ana P. Piedade <i>Multifunctional sintering-free composite scaffolds developed by additive manufacturing</i> S.M. Olhero, N. Ribeiro, P.M.C. Torres, T. Carvalho, J. Horta, J. P. Araújo <i>Manufacturing calcium phosphates scaffolds using 3D printed lost molds</i> M. Albardeiro, A. Sousa, M. Guedes, R. Marat-Mendes, C. Pina, L. Figueiredo, E. Ascenso, R. Baptista <i>Study of optical components for the automotive industry</i> Artur C. Potêncio, Irene S. Ferreira and Pedro G. Martinho
12:40 14:00	Lunch Break
14:00 14:40	Keynote Speaker 6 <i>Polymers and 3D Printing</i> Jules Harings University of Maastricht, The Netherlands
14:40 16:00	A – Functional Materials <i>Challenges and opportunities to integrate novel substrates for enhanced charge extraction into recognized PV technologies</i> Pedro M.P. Salomé, Jennifer Teixeira, Paulo Fernandes <i>Temperature-sensing inks for real-time monitoring in food packaging</i>

	Liliana Leite, Luís Nobre, Inês Boticas, Miguel Navarro, João Bessa, Fernando Cunha, Pedro Neves and Raúl Fanguero <i>Porous PDMS conformable coating for high power output carbon fibers based triboelectric energy harvesters</i> Raquel Barras, Andreia dos Santos, Tomás Calmeiro, Elvira Fortunato, Rodrigo Martins, Hugo Águas, Pedro Barquinha, Rui Igreja, Luís Pereira <i>Enhanced Fe-TiO₂ solar photocatalysts on porous platforms for water purification</i> M. L. Matias, A. Pimentel, A. S. Reis Machado, J. Rodrigues, J. Deuermeier, E. Fortunato, R. Martins and D. Nunes
16:00 16:20	Coffee break
16:20 18:00	A – Functional Materials <i>Microstructured MWCNT/PDMS composites for multiple sensing applications</i> Cláudia S. Buga, Júlio C. Viana <i>The effects of co-doping tetrahedrite with Ni and Se on the thermoelectric properties</i> Duarte Moço, Elsa Lopes, Luis Santos and António Pereira Gonçalves <i>Magnetic Scaffolds for bone cancer theranostics</i> F.J.T.M. Tavares, P.I.P. Soares, J.C. Silva, J.P. Borges <i>Radio Frequency phase shifter based on BST thick films prepared by Electrophoretic deposition method</i> Patrícia Bouça, Anna Włodarkiewicz, Alexander Tkach, João Nuno Matos, Nuno Borges de Carvalho and Paula M. Vilarinho <i>Study the effects of reprocessed PPS on the mechanical performance of injection molded parts</i> Carla I Martins, Nuno Mariz, Ricardo Freitas, Jorge Ferreira

Auditorium 3: Sala da Exposição de Moldes

From Research to Market

10:00 11:00	<i>Complementary tools for micro analysis in electron microscopy</i> Andrea Thoene Bruker Nano GmbH <i>Gain the maximum throughput with artifact-free surfaces for sample characterization by using high current plasma FIB-SEM</i> Martin Suchánek TESCAN ORSAY HOLDING, a.s. <i>Analysis of Metallic Powders: from raw material to final product</i> Joana Costa, Carlos Sousa, João Capelle, Luísa Moura Specanalitica, Lda
11:00 11:20	Coffee break
11:20 12:40	<i>Metha.Ortho.Finger</i> Tiago Marques Moldetipo group <i>Add.Powder</i> Catarina Baptista LCR/ COBLEX - LUZ COSTA & RODRIGUES, LDA <i>Neptune.Controller</i> Tiago Marques Moldetipo group From Research to Market (R2M-2)
12:40 14:00	Lunch Break
14:40 16:00	D – Materials Modelling and Simulation <i>Development of 3D-printed scaffolds with mathematically defined curvature for osteochondral defect repair applications</i> Pedro Marcelino, João Carlos Silva, Carla Moura, João Meneses, Nuno Alves, Paula Pascoal-Faria and Frederico Castelo Ferreira <i>Digital microfluidics for amplification monitoring of cancer biomarkers</i> Beatriz J. Coelho, Bruno Veigas, Luís Bettencourt, Hugo Águas, Elvira Fortunato, Rodrigo Martins, Pedro V. Baptista, Rui Igreja C – Materials Processing and Characterization <i>Processing conditions and characterization of novel hybrid nanofibrous membranes of Nylon 6/yeast cell wall components</i> Rodolfo Ferreira, Rodrigo Colhe, Elisabete Coelho and José A. Lopes da Silva <i>Aqueous gelcasting of complex shaped zircon compacts</i> Eduardo Rosado, Carmen Alcázar, Paloma Recio, Rodrigo Moreno
16:00 16:20	Coffee break

16:20 18:00	<i>C.Orthopedics</i> Tiago Marques Moldetipo group From Research to Market (R2M-3)