Detailed Programme

Г		Easter School						-	CONFERENCE							
		April 3rd -	April 4th - Tuesday				April 5th - Wednesday			April 6th - Thursday						
08:30	09:00	Monday Registration	April 4un - Luesaay Registration			April 5th - Wednesday Registration			April oth - Inursaay Registration							
E	99:00 09:10 Room 2		Large Auditorium Opening cerimony				Large Auditorium			Large Auditorium						
				Plenary Lecture 1: A	Alexandre Marques			Plenary Lecture				Plenar	y Lecture 3: Francisc	o Chinesta		
09:10	09:55		(ZF R+D Centre, Portugal) Materials in Car safety Systems				(ESA/ESTEC, Netherlands) New Moteriols, new Possibilties for Space Applications			(ENSAM, France) Empowering Materials Science and Engineering from the Use of Physics-Based and Data-Driven Hybrid Modelling Approaches						
			Chair: António J. Pontes				Chair: J. Pedro Nunes			Chair: J. Miguel Nóbrega						
			Room S1 Materials for Energy & Power Generation - Synergy special	Room 53 Materials for Environm.	Room 54 Biomedical, Bio-Derived &	Room 52 Materials & Cultural	Room S1 Materials for Energy &	Room 53 Materials for Structural &	Room S4 Biomedical, Bio-Derived &	Room 52	Room 51 Materials for Structural &	Room 53	Room S4 Materials for Digital	Room S2	Large Auditorium	
			session Chairs: Luis Pereira e Pedro Salomé	Protect. & Remediation Chair: J Labrincha	Bio-Insp. Materials I Chair: Miguel Cerqueira	Heritage Chair: João P. Veiga	Power Generation II Chair: Carlos Costa	Multifunct. Applications I Chair: Maria G. Rasteiro	Bio-Insp. Materials II Chair: João C. Bordado	PARALAB Workshop	Multifunct. Applications Chair: Albano Cavaleiro	Materials Processing II Chair: J. Miguel Nóbrega	Transformation Chair: Jorge L. Alves	Industrial Forum Chair: Renato Reis		
.0:00	10:20	Introduction to OpenFoam: Pre- Processing	SALCTIVE 10:10 - Everyone knows that bydragen is a rather bad everyowerce, but nobody says - Tratangies for a warnisoble and saily everyy decarbosistion Additio Meedes (FUII/Formupa)	037 - Characterization of used foundly sandly plantic waste composites adds Maeiro (UM/Portugal)	O6 - Finite Statement Analysis of Different State Designs and Thicknesses using 3th Printed FLA and PCI. Ana Source (UC/Purtugal)	0132 - Lead antimonate: A base ingredient for yellow, amongs, and green decarations in Paraguese azulyjo: Umberto Versnedi (UML/Portugal)	O118 - Mos Phase / MISINS / NI Persus Composites for Servey Convention Application Sergii Sergiienka (UA/Portugal)	0126 - Magnetic Fe-doped calcium phosphotes on promising multifunctional motoricis 'Taila Canvalho (U.K./Potugal)	OSB - Gelatin microspheres for the delivery of Calcium in coated MgtCa Block for binnedical applications for committed alloy bloodgradation forabel Soura (UA/Portagal)		062 - Photochemial treatment of silver cocord gloss surfaces trees translevic (tasks. Zagreb/Enostis)	O45 - The Effect of a Dynamic Mining System in the Thermoplastic Assin Transfer Modifing Process Filips Martins (UA/Portugal)	OS3 - Electronic Paper with Polygymile for sol Smart Security Top Guillberne Fernina (UNL/Portugal)	O148 - LüMüA — Lightweight Discremiscs by nijection Mouting in Seamle of Architecture Ass Cutter (CELOPLAS/Portugis)		
.0:20	10:30			Obt - g-Citid functionalized with bramine for photocophysis and water decontamination: thermal	OR3 - Ligament scoffolds based on PLA/graphite conspicteiet composites Magda Silva (UM/Portugal)	OSB - The Corporter & Westley's art of pointing magic lantern glass slides: the contribution of material	00 - An investigation of pitting correction on capper heat exchangest by surface analysis and electrachemical techniques. Ana Chia (FCIP/PortugiA)	Old - Got tungsten art weiting of an cost ACOCHENIO 2 extentio high entropy allay Julia Shen (UNL/Portugal)	O38 - Nanofibers functionalized with cyclic dipeptides for biosensor applications Oselela Santas	Complete Characterization of Thermoplastics by DSC, DMA and Rotational Rheology Workshop	084 - Phosphote adsorption and its impact on the structure of MMOs Máscia Silva (UK/Portugal)	0122 - Deposition of hard and dense Or thin films by sputtering without the need of energetic particles bombardment Sunday Adebaya (UC/Portugal)	ORR - Printed testile-based supercapacitors for wearable electronics José T. Cansalho (UNL/Portugal)	O47 - Layered double hydroxides (LDH): one multifunctional material for phosphorus recovery. Frederica		
.0:30	10:40			conditions officers Alika Soura (UC/Portugui)	(UM/Portugal)	characterisation studies Angela Santos (LNL/Portugal)		(LNL/Porsigal)	(UM/Portugal)	Rheology Workshop	Maca sava (cat/rortaga)	Adebayo (UC/Portugal)	(LNL/Portugal)	Maia (SMAILMATER/PT)		
0:40	11:00		WSEE - Advanced Characterization of Manerial Degradation Processor in Li- ion Intraview, Andre Claustine (Frauntscher /Germany)	030 - Reusable polymeric membranes for efficient chromium removal from contominated water saana Queless (UM,/Portugal)	QBS - Study of the exploiation of layered double hydroxides and their dispersion in biopolymer systems Cristina Neves (UAL/Portugal)	030 - Portuguese glack orcana – evolution through time: Catalina Santos (UNIL/Portugal)	O4 - A facile blow spinning technique for green cellulose acestate/polyatyrene composite asparator for finable energy storage devices herjid Rafique (UNL/Partugal)	QP9 - Silco-methyl modified alkoyalisms coating for writing surfaces - whiteboards assé C. Alamida (UM/Portugal)	0127 - Perzelectric and Magnetically Responsive Bloodegradable Composites with Tailored Parous Marghalogy For Neural Tissue Engineering Teresa Almeida (UM/Portugal)		040 - Mechanical analysis for varied sample dimensions of Alif- and its shart carbon flore composite Ellen Fernandes (Shent Univ/Belgium)	0128 - Thermal analysis as a tool to perceive changes in polymer blends Sibele Cestari (UMA/Portugal)	0115 - Improving performance of paper-based dipole antennas by electromagnetic flue concentration Rul Cavalha (UM/Porsugal)	OS14 - Characterization of ligate and its polymer composites for the production and sublication of green filter on a precursor of carbon fiber Rul Kibelra (UM/Portugal)		
1:00	11:20	Easter Course Coffee Break		Coffee	Break			Coffee E		1		ı	Coffee Break			
1:20	11:40		NN12 - Energy storage systems: from the challenges of lithium-ion batteries to the strategies beyond lithium. Carlos Costa (UM/Portugal)	GS1 - Atechanically recycled thermoplastic: thermal and mechanical analysis André Costa (IPL/Postugal)	0120 - From disposable to wearable biolectronics using paper derived laser induced graphere Yamas Hobeles (URL/Fortugal)	O2 - Unrowilling Unanium User: U- yellow glacs or a fachionable maserial in the 19th century Alexandra Rodrigues (UNL/Portugal)	6529 - Transparent piezoelectric materials for energy harvesting and multi-touch detection devices Tago Marinho (UM/Portugal)	0025 - Nonmigratory internal plasticization of polykinyl chloride): efficient approaches Talks Resende (UC/Pursugal) 028 - Normible descripcion	0182 - Smart mapping pad for continuous monitoring of the pressure at the lower limb-socker interface Vater Senzadas (UA/Portagal)		O90 - Multifunctional polymer- board magnetoelectric platform incorporating magnetic ionic liquido tillana Fernandes (USA/Portugal)	GS4 - Microtructural and Mechanical Characterization of Ai- Steel Binetallic Compacter Helider Numes (INEGL/Portugal)	CES - Mechanical characteristics of Alb primed carbon nonatubes minjoured thermoplastic composites via FFF additive manufacturing Yiyun Wu (UA/Portugal)	OSS9 - CELMOV - New solutions for the cor of the future Ana Cortea (CELOPLAS/Pernagal)		
1:50	12:00	Introduction to OpenFoam: Simulation	Const. Classification March State Secretarion for self-	OST - Fowards a circular economy for nout eco-friendly composite materials: a reprocessability and recyclobility study Joans Guides (INSG/Portugal)	O108 - Nonit-cliquid-Based Electroactive Polymer Composites for Cordio: Tissue Engineering Rafaels Meins (UM/Portugal)	0124 - Wood-based panels and their consunation challenges while used in Contemporary Art Susses Duarte (UNIL/Portugal)	Obb - Formation of Crystalline Silicon Tunnel Junctions for Persockibe on Silicon Tonders Solor Cells Killian Lobato (FCUL/Persugal)	028 - Prennible descripcion radical polymerization of vinyl chiolde: from fundamental studies to high performance PVC materials Carlos Abrea (UC/Fortugal)	0117 - Immobilization of enological pectinase in polyamide microparticles for wine clarification Sandra Oliveira (UM/Portugal)	Complete Characterization of Thermoplastics by DSC,	642 - Wear resistance by copolyment with controlled structure under Boundary Labrication Conditions Fability Ferreira (IJC/Portugal)	026 - Litro-low temperature fichrication of Both-Schick PTC2 delectric ceramics Camila Ribelia (UA/Fortugal)	075 - Laser Powder Bed Fusion of 3D and 8D Assetic Structures Jadio Cardoso (UNL Portugal)	0116 - SAFEGRIS - Stoneware with high thermal performance and softery to the end-user Samuel Moseins (CTCV/Fortagel)		
2:00	12:20	and Post-Processing	Parallel and environmental freedom procession batterier Federica Bella (Politacolca Torino, (Italy)	OS7 - Renewable 3th printing filament using applical hyproducts or fredericks – a circular economy strongy stallina Gonçalves (UA/Portugal)	OSB - Attribution of commissions properties to an upper limb prochesis Geopalo Fenerca (UBI,(Portugal)	0122 - Famings with complex goldwork from Inco. Age Western sterios gold allay compaction and decoration recheigent Sofia Serana (UNIL/Portugal)	Q74 - Dielectric barrier discharge plasma actuations based on thermounting composites for flow control in wind turbines blader Jodio Perwiss (UBI) Prentugal)	0100 - On the reliability of electrically conductive tredier prepared through core-g-initing of industrial grade conductive ink Nana Costa (UM/Portugal)	OS2 - Suitability of using active bioplastics derived from parato and coffee approducts on paper cooling Google Oliveira (UA/Portugal)	DMA and Rotational Rheology Workshop	OSIR - Fibrous minforced multilayer composites for structural applications: modeling and apprintental Fernanda Leibe (Fibresamics-OMinha/Portugal)	Odé - in citu interrityer hat forging ar-deard directed energy deposition of income 62%; process and microstructure analysis Francisco Farlas (UNL/Fortugal)	038 - Hybrid digital-droplet microfluidict for nano-droplet generation Beasts Coelho (LNL/Porsugal)	OSS - New Mineral Resources for the Portaguese Centeric Industry - Case Studies of Industrial Symbiosis with the Natural Score Sector Antideia Silva (CTCV/Portugal)		
2:20	12:40 14:00	Easter Course Lunch		0536 - Alends of Recycled Polysopylene / Polysopylene Carla Martins (UM/Portugal)	OB1 - liffect of pine resins incorporation on physicachemical thermal, and mechanical properties of biobased and biolographible composites tillians Source (LIA/Portugal)	000 - Perlininary results from an archaeometric approach to ceramic analysis from early Manilthic society in Vale Pincel I (Siner, Portugal Ana Saraiva (UNIL /Persugal)	OSE - Development of transparent ISO2-No this films by Reactive Magnetons Sputtering for thermoelectric modules Josea Ribelro (UM/Portugal)	D111 - Influence of polymer matrix on the performance of printable electroluminesters materials and devices Daniela Fernandes (USA/Fortugal)	2		0146 - Low electrical percolation threshold MerCNI/FellOH using magnetic patterning David Staves (Ceed/Portugal)	OSE - In situ hor-forging and post- deposition stress milef heat treatment on HSLA steels produced do art based additive manufacturing (gar Felice (LNL/Persugal)	OSE - Alginate-based luminecone composite inits for anti- counterfeiting and self actuator application Bideas Grus (UM/Portugal) Lunch	O165 - Surface functionalaction of a polymer substates with electroluminatanet take for automotive components for ilighting Disa Statuse (SIMOLDES/Porsugal)		
12:40	14:00	LUMET COURSE LUNCH	Chairs: Luis Pereira e Pedro	Chair: Ana V Machado	Chair: Maria A. Lopes	Chair: Júlio C. Viana	Chair: Carlos Costa	Chair: Ugo Lafont	Chair: Maria C. Lança			Chair: Maria. C. Paiva	Chair: Fernando Duarte		Materials for Stretural &	
4:00	14:30		Salomé	Chair: Aria V Machado KN1 - Motivisk and Sustainability Anticio T. Marques (FEUP/Portugal)	Chair: Mania A. Lopes 897 - No-board materials towards the development of new structures for food packaging applications. Miguel Corqueira (INL/Portugal)	KNS - Cultural Heritage, Masselak Science and Synchrotron Radiotion a perspective from a group of Postupurer serio tallo P. Weige (UNI, Prompte)	Chair: Carlos Costa 1049 - Multibody Dynamics for Biomedical and Arraques Engineering Applications Paula Flores (MM/Portugal)	ENG - Composites of cellulose nanofabric and minerals with high boxin properties Makia G. Raseko (UC/Penagal)	Chair: Mana C. Lança KMB - Polymers from Sussainable Row Motoriolit Jobs C. Bardada (GT/Paragal)			Janes martiel C. PalVil	1044 - Analysis of thermal reprocessing in powder bed of FFF pirited PLA parts: compaction method results sales from		Multifunct. Applications Chair: António T Marques IN2 - Spectring: a nononchrology for tailoring nanoncoviole Albano Cavaleiro (UC/Vorsuph)	
H	Ц				— four condensy (INT/Actality)	(UNL/Porsign) Materials for Mobility	room post/Portugal)	America (UC/Portugal)		l	ORAIDEA Workshop		Jorge L. Alies (FEUP/Portugal)	S4 Plast Workshop		
4:30	14:50			0117 - Improving the environmental performance of a plantic toller claims by withtraducing reprocessed plantic Saffa Rocha (UN)Formuph)	ORB - Advantage of poly(i-lactic) acid coating for bisactive functionalization of \$255 Stainless Streit Maxim Ivanov (UA/Portugal)	Materials for Mobility Chair: Júlio C. Viana Ott - December Chromium Coolings on Polycorbonous Substrates for the Automobile Industry Rilga Ponte (UC/Fortugal)	OS1 - Lead-free MithABCO-NAMI perovide organic embedded in electrosque anotifiers (Essecial Mareira (UM/Postugal)	O25 - Synthesis, dielectric and magnetic properties of Calabas 207 thin films prepared by pulsed loser deposition Bruna Silva (UM/Fortagal)	O188 - Functionalised fiber-based autoroses with 2nd nanoparticles envisaging antimicrabial fiber applications told Mareka (Ribereanic-told/Postupil)	Complete Characterization of Thermoplastics by DSC, DMA and Rotational	ORAIDEA Workshop Chair: Sandra Carvalho 0167 - Design and machining of dereal implores Pedra-Pressa (Prifer Group)	OEEI - Colcium phosphase production via high energy acid milling: Effect of CO2 partial pressure and post-entiting quesching florats seleza (SST/bernigal)	OB3 - Thermoresistive Properties of Fully Intiger Princed PIDOT PSS Patterns, Claudia Buga (UM/Portugal)	S4 Plast Workshop Chair: António J. Pontes OSAR - Polymer laser transmission welling for the automative indutry Yelia Vana (MSR- CLSH/Portugal)	OSS: - Development of Polymeric Food Pocking Films with improved domine Properties Carolina Remos (PKIP/Portugal)	
H	Н		RN14 - Challenges and Opportunities in the Lithium Bottery Value Chain José Gançalves (CENTI/Portugal)	James Haller (URI/PORTUGA)			Materials Processing I	(matheografie)	/www.com/ronage)	Rheology Workshop		(IST/Portugal)				
	Ш		ton document (CRAT/PORTIGIA)					Chair: Paulo Flores								
.4:50 .5:00	15:00 15:10	Hands-on: Multiphase flow	18915 - Rail-to-real pilot production of photovoltaics and between Made	0139 - Conned Yuna Masseflow: Analytical Bass and Chemical Characterisation Nidda Valida (CNN/Partugal)	0002 - Xarehon gum biosyethesis by reusing moist olive pomoce Pedro Crugelia (PR/Portugal)	CBS - Multifunctional Curamics for Assonautical and Assonace Applications Batteryus Shydysk (UBA/Fortugal)	QSG - The impact of the temperature holding time on the applical properties of microwave quithesis Neuseen SekraS (UMA/Portugal)	OSIZ - Thick and smooth remastructured Cr-based coolings by MPMS (Ricado Seria (UC/Portugal)	0150 - Phermoplastic stanch/PLA/CaCO'à biocomposite for a multifunctional and circular economy-enaled visual communication board substance Carlos Correla (UA/Portugal)	Complete Characterization of Thermoplastics by DSC, DMA and Rotational	O168 - Properation and characterization of bloostive glass for densi implant costings Manuel Gings and lines Hammani (UAI/Portugal)	OSP - Manufacturing of cork powder ninflorced polyamide 6 composites by Thermopiatic Resin Transfer Molding Laura Samos (UA/Portugal)	OBB - influence of printing parameters as the geometry, dilution, and mechanical properties of Johnson produced single layers using Sulfoctory 16600 power Diago Silva (ISSP)Permigal)	C145 - Evaluation of high wall rhickness sociation on the properties of injected components through CMe and RVCM processes: A Cose study André Cetta (EV_(Portugal)	OSS - Conductive PEER nanocomposites for meth-quinning oppications Sofia Silva (Centif Portugal)	
5:10	15:30		photovoltaics and botteries Mad Yilkumad (VTT/Finland) Materials for Energy &	Q140 - The Fooretial of Aprifood Moute to Salve Construction's Emilianemental Problems: A Review Margarida Soares (CVR/Perhapal)	OS - Development of furnimescent managantizins for the detection of pathogenesisted disease in plants Ana Brinca-Moreira (UA/Portugal)	0184 - Prospective Materials for Modern Railway Systems: Ruben Santos (PELP/Portugal)	G14 - The Effect of Preconditioning Treatment on Microstructural Characterization of Spheroidal Graphite Irons Autónia Pires (FBUP)Portugal)	ON6 - CFRP lominates enhanced with graphene nanoparticles in multifluctional applications zalia Parente (UBI/Portugal)	OSS - improvement of the ductility of polytectic acid by using a natural based plasticitor: Issume Casurla (troks. Polytechnic Valencia) Spain)	Rheology Workshop	O169 - PVD deposition of TiN-Me (Me + Ag or Ze) this files on dental implants Markes Marques (UM/Portugal)	099 - Numerical Simulations of Carbon Fibers Impregnation with Polymer as Ankastopic Permetality Medium Nelson Googalees (INS-GE/Portugal)	O60 - Regenerated cellulose-based ionic conductors for green electronic applications talks Cunha (UNIL/Portugal)	OSSS - Lever tranomission weiding rio design für polymerc: Agelecika Rocha (PER)/Portugal)	O182 - Ausrescent carbon data produced from Apoporthus Africanus (L.) HO(Int. Leaves Paulo Numes (UTAQ/Fortugal)	
			Materials for Energy & Power Generation I Chair: Carla Martins			Sensors & Actuators I Chair: Vitor Sencadas										
5:30	15:50	Easter Course Coffee	O104 - Challenger and apportunities to integrate need substates for enhanced performance into recognised PV technologies Pedia Salomé (INL/Portuga)	OSS2 - Alternative salid activators from water glass for alkali activated materials or grapolyment manufacture P. Delgado-Hara (Univ. IzdegSpale)	037 - Manerial Design-For Societiesce (or Mr 6/87) – A New Malatic Analysis for Bio-Compasion Materials A. T. Manques (INSE- FEUP/Portugal)	COSS - Sputter deposited Au-TiO2 nanocomposites for highly sensitive LSPR gas sensing Nuno Figueleido (stC/Portugal)	021 - A Sustainable and Fast Adenhad for the Fabrication of Adultivall Carbon Nanosubes (MRCATIG - Synthesia Francoa) and Machanies (Behasa Neesati (UA)/Fortugal)	O35 - Machine Learning Anthodologies in the Identification of Material Hardening Parameters Dasiel Cruz (1966/64/Fortugal)	OS1 - Valorization of binals whell residues in contine ware products make Vilasinho (UA/Portugal)	Complete Characterization of Thermoplastics by DSC, DMA and Rotational Rheology Workshop	0170 - Study of biocomposibility and antimicrobial response of the developed implant: Maria C. Lacça (UNC./Portugal)	OSSI - Thermodynomic simulation and design of microstructure in FERV composites produced by SPS Ricardo Mineiro (UA/Fortugal)	OSSA - Adjustment of the mechanical properties of PAA samples obtained by additive manufacturing. Jaan Ivanta Martine (Jahu, Polyechnic Valencia/Spain)	0160 - Reprocessing Study of Thereoptismic Industrial Residues Ana Vera Machado (UM)(Portugal)	OS62 - Color-curomizable photoluminescent polyethylene composite Cauca Pillar (UA,Persagal)	
15:50	16:10	Break		Coffee	Break			Coffee E		I		004 - Microstructural Analysis of	Coffee Break	1		
6:10	16:30		Q107 - influence of active material ratio in direct int preced lithium-ion cathodis: Rathel Fints (UM/Portugal)	OSB - Monufacture of coral recruitment substrates: influence of mosts framewhen to skel security parameters the Masus (FELP/Portugal)	O34 - Finalite Noncorructural Ti- Cu(Ag Thin Films for Mightensing Biomedical Application + Olaudia Lapes (UMA/Portugal)	09 - FDM Capacitive Sensors Ana Silva (UA/Portugal)	0384 - Consolidation Model for Neeted Compression Mouting of Thermopisistic Composites Picta Estandiari (KEP) Persugal)	O118 - Microwave-Assisted Synthesis of TiO2 for a simple phenodeproduction process of Methylene blue (MM) Sanz Zandi (UM/Portugal)	Ot68 - Chemical and biological characteristation of nanomeractural multilayers of [PSC/MAp-Agils for biomedical applications Erika Misseds (Univ. Sodocene Paris/France) Sensors & Actuators III	Complete Characterization of Thermoplastics by DSC, DMA and Rotational Rheology Workshop	0071 - Description of the chrosion deposition process Educate Piles and Silvia Gavelino (Ceramed 8/Portugal)	Odi - Microstructural Analysis of scored 72 th emerglacemed sia DED: Response Surface Methodology for process parameters apprications and para teact treatment the manda Mibelina (FELP)Persugal)	0566 - Estrucion Blow Molding Simulatar: a Novel Approach to Support the Digital Transportation of the Packaging Industry Francisco Mives			
-	\vdash		-					ı	Chair: Maria C. Lança			ı		1		
.6:30	16:50	Hands-on: Structural Mechanics and Thermal Residual Stresses	012 - Mjörld Frengy Manwelling/Strange Trealise and Finalise Missist for Jeef Fowered Wearvalle Technologies Clara Preniss (FCDF/Fortugal)	0561-1(F-cycle assessment of metalic surface floidings on plastic components for the customotive industry Ass Pres (CENTRAFI/Portugal)	012 - Organic-Inorgonic nonoffense: 20 Scriffolds for Insue representation André Lopes (UA/Fortugal)	601 - Novel count layer concept for real time monitoring of composite assument slob Genela (UM/Fortugal)	OR2 - Thermoplisatic enatrix composites board on commission years Lale Ameries (INSER/Portugal)	096 - Binchically conductive thermoplastic polyurethane compositors with criented single well carbon noneclabor Marisma Silva (UM/Portugal)	OSS - Process and Saructural Health Monitoring of a Composite Coververpool Pressure Visitel Helesa Rocha (MSP/Partugal)	Complete Characterization of Thermoplastics by DSC, DMA and Rotational	O172 - Selection and conduction of core studies in a clinical environment Meediga Armés (Mospital Vec. S. Benno/Purtugal)	922 - Gos Tungsten Arc Welding of a FaSSManabCaseCrab Risk High emotypy alloy microstructure and mechanical behavior sala G. Lopes (LML/Parmgal)	A tribute to Prof. Teresa Cidade			
6:50			097 - PSDOT: PSS Electrospray Functionalisation of Carbon Yame for Interpration in Flushible Fibre-Shaped Supercapacters: Mariana Monia (UNL/Fortugal)		029 - Synthesis and characterisation of hydroxyopathe serage! composite with mixture and nanoparticles of barriers tilenses for bone regeneration. Carmo Laega (UNL/Portugal)	OSG - Finagraphy-Printed Thermachumic Stickers based on Nickel Complexes and Gehaluse Deviactives this for Smart Sensing Journa Figuries (UNL/Portugal)	KNG [16:50 - 17:28] - Monriole Innovation for Statusion-Board Addition Manufacturing Labeling Cardon (Gheet Univ/Relgium)		0164 - The influence of knisted fabric orientation on pressure sensors performance tubes Amuda (Ribre camics-UM/Portugal)	Rheology Workshop		Clos	ing Cerimony (Large Au	ditorium)		
.7:30 .7:50 8:10	18:10 18:30		Paster Session 1 with Protess of sessions: "Materials for environmental protection and remediation", "Biomedical, Bio-Derived & Bio-Impired Materials", "Raterials and cultural heritage", "Materials for mobility" and "Materials for energy and power generation."				Paster Session 2 with Posters of sessions: "Moterials for the digital transformation", "Materials for structural and multifunctional applications", "Materials Processing", "Sensors and Actuators" and "Industrial Forum"									
9:00	19:00 20:00		Cocktail Party													
1:00	21:00 22:00						Conference Dinner (Hotel de Guimarães)									

			Poster Session 1 (April 4th - Tuesday)	
	Poster Panel No.	Poster Number	Title	Author/Affiliation
	1	44	Cork formulations based on thermoplastic starch for additive manufacturing	Luiza Melo de Lima (UA/Portugal)
	2	99	Recycling Polyurethane and Thermoplastic Urethane Waste from External Prostheses for the Manufacture of Filaments for 3D Printing	Daniela Leal (INEGI/Portugal)
	3	28	Analysis and characterization of microplastics in beach sediments from coastal	Inês Machado (UM/Portugal)
	4	23	environments of Northern Portugal Electroconductive silicon nitride ceramic: a novel substrate material for BDD	Filipe Oliveira (UA/Portugal)
io	5	17	electrodes for water remediation Analysis of microplastics in a commercial exfoliating product	Daniel Ribeiro (PIEP/Portugal)
ediat	6	67	Microplastics in Marine Environment: Establishing a Methodology for Sampling	Rui Sousa (UM/Portugal)
d Rem	7	29	and Analysis Upscaling photodegradation of organic micropollutants	Inês Oliveira (UA/Portugal)
Materials for Environmental Protection and Remediation	8	73	Removal of phosphate from eutrophic waters using lamellar double hydroxides of	
tectic			MgAI	Tiago Farraia (UA/Portugal)
al Pro	9	22	Techniques for rapid identification of recycled PP	Filipa Rocha (UM/Portugal)
ment	10	79	Incorporation of recycled PET in new materials for Additive Manufacturing	Sofia Sousa (UA/Portugal)
viron	11	81	Polyethylene terephthalate glycol degradation effects on material morphology Spent filtering earths as precursor in the synthesis of geopolymers or alkali	Chiara Fiorillo (Ghent Univ /Belgium)
for Er	12	93	activated materials. Effect of sodium hydroxide-sodium silicate solutions ratio on	P. Delgado-Plana (Univ. Jaén /Spain)
erials	13	101	New technologies for the energy and circular transition - the demand of Mineral Resources	José Miguel Martins (DGEG/Portugal)
Mat	14	102	Effect and characterisation of a natural based terpenoid on the mechanical properties of PLA and tangerine peel flour green composite	Juan Ivorra Martinez (Univ. Polytechnic Valencia/Spain)
	15	109	Environmental Impact Assessment on the Production of a Fire Curtain	L. Nascimento (CVR/Portugal
	16	110	Life Cycle Assessment of a Pavement with industrial waste incorporation	L. Nascimento (CVR/Portugal)
	17	113	Last decade of research on cork use in adsorption applications	Raquel N. Silva (CTCOR/Portugal)
	18	117	A methodology to foster plastics recycling	Sibele Cestari (UM/Portugal)
	19	1	Functionalized nanofibers with linear dipeptides for biosensor applications Adelino Handa (UM/Portugal)	Adelino Handa (UM/Portugal)
	20	68	Preparation of flexible Leather-Polymer Composites adapted for Additive Manufacturing	Sílvio Abrantes (UA/Portugal)
	21	55	A preliminary study of PLLA coating in Ti-alloy substrate for application in bone implants	Noelle C. Zanini (UA/Portugal)
	22	18	Sustainable functionalisation of stents to prevent urinary tract infections	Daniela Santo (UC/Portugal)
	23	43	Bio-based expanded cork polymer composites (eCPC) with poly(lactic acid) (PLA)	Lisete Moutinho (UA/Portugal)
	24	64	for injection moulding Biodegradable agricultural mulch films loaded with bionematicides - a novel	Rita Chim (UC/Portugal)
	25	51	strategy to control root-knot nematodes Optimization of melt processing, drawing and stabilization of ligninbased green	Miguel Guerreiro (PIEP/Portugal)
terials	26	7	fibers Hap deposition on PCL/CH 3D Scaffolds for tissue regeneration	André F. P. Lopes (UA/Portugal)
	27	52	<u>-</u>	Miguel Rodrigues (FEUP/Portugal)
ired N		19	Nanomaterial-Based Biosensor Development: Application of Plasmonic Thin Film	
-lnsp	28		for Optical Detection Purposes PLLA-316L Stainless Steel Piezoelectric Device Potential Towards Next-Generation	Diana I. Meira (UM/Portugal)
nd Bic	29	41	Bone Implants Cork and MoS2 Composite – A Novel Green Material Suitable for Thermoelectric	Julio Rocha (UA/Portugal)
Biomedical, Bio-Derived, and Bio-Inspired Ma	30	33	Sensing Applications	Joana Figueira (UNL/Portugal)
-Deriv	31	75	Chitosan-based magnetic aerogels for bone tissue engineering Development of drug-loaded gelatin spheres for incorporation into bone-like	Marta Corvo (UNL/Portugal)
I, Bio	32	42	composite scaffolds	Júnia Rodrigues (UA Portugal)
edica	33	9	Development of a wearable sensor to monitor pulmonary function	Bernardo Vicente (UA/Portugal)
Biom	34	58	ZnO-based coatings to reduce microbial growth on high-touch surfaces	Patrícia P. Silva (UM/Portugal)
	35	74	Composite materials using banana tree and sugarcane agro wastes	Tiago Fernandes (UM/Portugal)
	36	20	LSPR-based optical transducers for biosensing using magnetron sputtered nanocomposite thin films	Diogo Costa (UM/Portugal)
	37	87	Synthesis of Biobased TPUs by Reactive Extrusion	Ana R. Torres (UM/Portugal)
	38	103	Mechanical behavior of poly(lactic acid) biocomposites reinforced with Posidonia oceanica wastes and plasticized with cinnamic acid esters	Jaume G. Caturla (Univ. Polytechnic Valencia/Spain)
	39	104		A C Machado (UMinho/Portugal)
	40	108	Nanocomposite foam-coated fabrics for biological protective clothing	Inês Moreira (Fibrenamics-UMinho/Portugal)
	41	126	Poly(Ionic Liquid) derived materials for Tissue Engineering applications	Marta Corvo (UNL/Portugal)
			<u> </u>	

			VTERE-FELICITER: The materiality of a Portuguese archaeological Roman glass	
tural	42	25	collection conservation and restoration case-study	Inês Coutinho (UNL/Portugal)
Materials & Cultural Heritage	43	69	Late Bronze Age metals from Monte Cavalo (Vouzela, Viseu): characterization of the copper-based alloy and its corrosion	Sofia Serrano (UNL/Portugal)
erials Heri	44	105	Study on grisaille paint layers stability under natural conditions	Carla Machado (UNL/Portugal)
Mate	45	125	Bedding mortars from medieval ceramic flooring from the Alcobaça Monastery in Portugal	Fernanda Carvalho (UNL/Portugal)
Materials for Mobility	46	92	Application of micro-level indicators for circularity in the automotive industry: case studies of plastic products	Joana Matos (UM/Portugal)
	47	3	Exfoliated carbon yarn structure for highly stable flexible supercapacitors electrodes in simulated sweat solutions	Amjid Rafique (UNL/Portugal)
	48	57	Transverse magnetic susceptibility and relaxation in Li ferrite nanoparticles	Pablo Hernández-Gómez (Univ. Vallodolid/Spain)
	49	49	Comparison of different pseudocapacitive red-ox mediator electrodes in decoupled water electrolysis	Martins Vanags (Riga Technical Univ./Latvia)
_	50	45	Use of ultra-small TiO2 anatase nanoparticles in energy applications	Mairis lesalnieks (Riga Technical Univ./Latvia)
ratior	51	34	Green cellulose-based polymer electrolyte suitable for e-Textiles	Ana Baptista (UNL/Portugal)
Materials for Energy & Power Generation	52	27	Processing of flexible PDMS/KNN/G piezocomposites for energy harvesting enhancement	Inês Loureiro (UA/Portugal)
owei	53	12	Composite Hull for Wave Energy Converters	Diogo Vale (CorPower Ocean/Portugal)
87 & 1	54	4	All-fibre Photovoltaic Storage Devices for e-Textiles	Ana Baptista (UNL/Portugal)
r Ener	55	62	Enhancement of power conversion on single electrode yarn shaped triboelectric generators	Raquel Barras (UNL/Portugal)
als fo	56	11	Application of binary PdSb/C as an anode in a polymeric electrolyte reactor -fuel cell type for electrosynthesis of methanol from methane	Camila Godoi (Univ. São Paulo/Brazil)
Materi	57	32	Methane-to-methanol conversion and power co-generation on PdNi supported on ATO electrocatalysts in a polymeric electrolyte reactor-fuel cell (PER-FC)	Jéssica F. Coelho (Univ. São Paulo/Brazil)
_	58	111	High porosity biowaste electrocatalyst for seawater batteries	João P. Ferreira (FCUP/Portugal)
	59	112	Wool based battery separator for energy storage applications	João Serra (UM/Portugal)
	60	128	Light-cured and biosourced polymer electrolytes for aqueous photovoltaics	Federico Bella (Politecnico Torino/Italy)
	61	130	Three Dimensional BaTiO3 – Graphite composite with hierarchical porosity for mechanical energy harvesting	Artur Baeta (UA/Portugal)

			Poster Session 2 (April 5th - Wednesday	
			Poster Session 2 (April Still - Wednesday)	
	Poster Panel	Poster Number	Title	Author/Affiliation
al	1	10	Study of fiber-based capacitive sensors for wearable applications	Bernardo Vicente (UA/Portugal)
Materials for Digital Transformation	2	54	Development of a sol-gel film for digital inkjet printing on impermeable tableware ceramic surfaces	Monique Dias (UA/Portugal)
for orma	3	26	Sensing light on paper: Tunable optoelectrical resistor switch as load resistance	Inês Cunha (UNL/Portugal)
erials	4	100	for digital photoelectronics on paper Characterization of resins to DLP 3D print porous structures: the effects of post-	Leonardo Santana (FEUP/Portugal)
Mat	5	124	curing and cleaning time on the technological properties of materials Low Temperature Sintering of Printed Zinc Oxide Nanoparticle Layers towards	Madalena Roque (UNL/Portugal)
	6	63	Printed Electronics Influence of Cr and V on quaternary FeTiTaW alloy	Ricardo Martins (IST/Portugal)
	7	30	Increasing habitat safety by integrating technological solutions into ceramic	, , ,
			materials Behavior of screen-printed carbon-based inks over different stretchable	Inês Rondão (CTCV/Portugal)
	8	16	polymeric substrates Design of Hybrid MWCNT/Ferrite Nanomaterials for Electromagnetic Shielding	Cláudia Buga (DTX/Portugal)
	9	15	Textile Applications	Clara Pereira (FCUP/Portugal)
	10	37 61	Silicon nitride-based suspensions for vat photopolymerization – a study Development of a fully function food packaging for orange juice	João Pereira (UA/Portugal) Pedro Rodrigues (UM/Portugal)
	12	8	Kinetics of first-order phase transitions on magnetic materials for energy	André Beleza (FCUP/Portugal)
	13	38	applications: magnetization and atomic structure Development and characterization of fire-retardant polyurethane foams	Jocyla R. Manhique (IPB/Portugal)
	14	14	Development of e-skin adhesives based on eco-friendly polyurethane (PU)	Cidália Castro (UM/Portugal)
	15	5	Influence of suspensions additives in the rheological behaviour of glazes for stoneware	Ana Caetano (UA/Portugal)
	16	70	Exfoliation of layered double hydroxides for application in nanocomposites	Sofia Silva (UA/Portugal)
	17	48	Preliminary assessment on the utilization of biomass fly ash in the production of controlled low-strength materials	Marinelia Capela (UA/Portugal)
	18	31	Alternative sintering of ceramics by Flash sintering: a case study of alumina	Ines Vilarinho (UA/Portugal)
	19	6	Application of Adiabatic Temperature Rise Method for Fast Kinetics TPUs Formulation Development	Ana C. Lima (IPB/Portugal)
	20	50	Synthesis and characterization of semiconducting diamond membranes for electro-optical biosensors	Miguel A. Neto (UA/Portugal)
ions	21	2	Defects analysis and solidification simulation of aluminium mechanical component, manufactured by HPDC	Alexandre Velhinho (UNL/Portugal)
olicat	22	53	Mechanical performance of silicon nitride parts made by robocasting	Mónica Faria (UA/Portugal)
al apı	23	47	Transparent hydrophobic silica-based coatings	Mariana R. Silva (UA/Portugal)
ction	24	21	One-step Synthesis of Diamond-Carbon Nanofiber Composites	Eduardo Silva (UA/Portugal)
and multifunctional applications	25	35	Validation of An In-Line Slit Microrheometer Coupled to A Microextruder for 3D- Printing Filament Production	João D. Sousa (UM/Portugal)
m pt	26	46	Magnetic thermoplastic polyurethane composites	Mariana M. Silva (UM/Portugal)
ral	27	59	Lime ash waste from the cellulose industry as raw material in rehabilitation mortars	Paula Seabra (UA/Portugal)
structu	28	60	Development of eco-cement with Municipal Solid Waste Incineration Bottom Ash	Paula Seabra (UA/Portugal)
for st	29	71	Effect of solvent vapor annealing on optical properties and surface adhesion of conjugated D:A thin films	Taina Casagrande (Univ Fed Tecn Curitiba/Brazil
rials	30	65	Effect of laser parameter on plastic injection mould' cleaning	Rodrigo Santos (UA/Portugal)
Materials for	31	76	Strategies to modify the leather conductivity towards wearable sensor applications	Vitor Sencadas (UA/Portugal)
	32	36	CoFe2O4\BaTiO3 Bilayers deposited by laser ablation over SrTiO3 substrates	João M. Oliveira (UM/Portugal)
	33	13	Thermoformability of polycarbonate substrates with silver-based conductive ink for in-mould electronics applications	Catarina Ribeiro (UM/Portugal)
	34	80	Characterization of printed films with conductive silver-based inks via screen- printing used for functional parts	Catarina Ribeiro (UM/Portugal)
	35	84	Prediction of alloying elements' effects on the structural properties of NbMoTaWX (X = AI, Ti, V, Cr, Zr, and Y) using the CALPHAD method	Bernardo Ribeiro (FEUP/Portugal)
	36	90	Structural and Dielectric Properties of Electrospun LiNbO3-CoFe2O4 Composite Nanofibers with Different Co-Ferrite Concentrations	Tiago Rodrigues (UM/Portugal)
	37	91	Resistance Spot Welding Parameters Optimization Using Taguchi Method	Gonçalo A. Amorim (ISEP/Portugal)
	38	98	Impact of gas tungsten arc welding on the microstructure and mechanical performance of a newly developed Cr29.7 Co29.7Ni35.4Al4Ti1.2 multi-principal	João G. Lopes (UNL/Portugal)
	39	114	Microstructure and Mechanical Properties of Gas Metal Arc Welded CoCrFeMnNi Joints Using a 410 Stainless Steel Filler Metal	Jiajia Shen (UNL/Portugal)
	40	115	Development of Polymeric Material Systems with Metallic Aspect	L. Pedroso (UM/Portugal)
	41	116	From Transparent to Translucent: a Route Towards Multifunctional Parts Injected with a Single Material	L. Pedroso (UM/Portugal)
	42	118	Electroplated Ni-Al2O3 Nanocomposite Coatings on AA6082	Ruben Santos (FEUP/Portugal)
	43	119	Characterisation of low-carbon steel reinforced with TiC and WC particles Using lignin and coffe grounds as bio-additives for PLA processing by FDM 3D-	Aida Moreira (FEUP/Portugal)
	44	120	printing	Silvia L. Rivera (Univ. Coruna/Spain)
	45	122	Development of different wheelchair cushions for pressure ulcer prevention: Preliminary user evaluation	Silvia Ferreira (Fibrenamics-UM/Portugal)
	46	123	Multilayer Composites for Application in Bulletproof Vests	Maurício Malheiro (UM/Portugal)

			Reuse of plastic injection moulds by degraded coating removal through laser	
	47	66	technology	Rodrigo Santos (UA/Portugal)
	48	72	Synthesis and application of monolith Silica/Pebax aerogel for CO2 adsorption	Thauane Selva (UNIT/Brazil)
			under high pressure	, ,
g.	49	77	The influence of the material and processing conditions in injection moulding high- gloss parts	Cláudia Freitas (UM/Portugal)
Processing	50	78	Integration of multi-material and advanced processing concepts in a single moulding step	Tiago F. Fernandes (UM/Portugal)
ě	51	83	Thermoformability of biopolymer composites with coffee husk	Filipa Rocha (UM/Portugal)
Materials I	52	96	Effect of mold material on mechanical properties and morphology of short carbon fiber reinforced ABS	Ellen Fernandez (Ghent Univ/Belgium)
ate	53	97	Microstructure evolution of WAAM fabricated HSLA steel during uniaxial load	Igor Felice (UNL/Portugal)
2	54	106	Production and Characterization of Jute Reinforced Composites with Thermoplastic Matrix	Ana R. Carreiras (ISEP/Portugal)
	55	107	Influence of Moisture on the Mechanical Behavior of Composite Materials Produced by Manual Molding	Gabriela Pinheiro (ISEP/Portugal)
	56	127	Exploring Flash sintering as a processing technique of porcelain-based materials	Camila Ribeiro (UA/Portugal)
Sensors & Actuat.	57	89	Electrical response to moisture of pure polyantimonic acid-based sensors	Sofia R. Mendes (UC/Portugal)
Industrial Forum	58	121	Development of polypropylene compound with natural fibres and recycled thermoplastic with glass fibre for automotive applications: A competitive alternative to polyamide 6	Clara Gonçalves (PIEP/Portugal)