## **NOVEMBER 27**

## **NOVEMBER 28**

15:40 Closing Ceremony

09:30	Opening	Ceremony
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PLENARY LECTURE 1 WITH JOSÉ GRESES
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## 10:40 Coffee break / Exhibition

11:10	HYBRID MOULDS	
11:10	An automated approach to conformal cooling design for hybrid injection molds	Eleonora Caneve, Nuno Agostinho, Luís Santos and António R. Silva
11:30	Mold5G - Using Additive Manufacturing to enhance the production of injection tools	Nuno Agostinho, Eleonora Caneve, Luís Santos and António R. Silva
11:50	Improving Efficiency in Injection Moulding Tools: The Role of Simulation in Modelling Conventional and Conformal Cooling Channels	<u>Luis Dias</u> and Rui Soares
12:10	Revolutionizing Injection Moulds: Large-Scale Conformal Cooling Channels via DED-Arc	Tiago Núncio, Paulo J. Morais, C. Sofia Proença and <u>Eurico</u> <u>Assunção</u>
12:30	Lunch break / Exhibition	
14:00	PLENARY LECTURE 2 WITH PAULO BÁRTOLO	

14:40	HYBRID AND ADDITIVE MANUFACTURING	SYSTEMS
14:40	A new approach to multi-material metamaterials via fused filament fabrication	<u>João Ferreira</u> , Sérgio Tavares and Victor Neto
15:00	Robotic extrusion-based additive manufacturing for urban spaces: a study of materials and large-scale production	Afonso Santos, Artur Costa, Álvaro M. Sampaio and António Pontes

15:20 Electric Field Assisted AM for improved Attur.Baeta, Paula M. Vilarinho piezoelectric behavior of PLLA

## 15:40 Coffee break / Exhibition

16:10	DIGITAL TOOLS FOR ADDITIVE MANUFAC	TURING
16:10	Industrial Robot Trajectory Generation and Execution for 3D Printing using an ABB IRB 1200	Marcella Cavalcanti, Hugo Costelha and Carlos Neves
16:30	Computational Design: an application to geometry and 3D printing	Carlos Costa, Ana Simões, Violeta Clemente and João Dias-de-Oliveira
16:50	Predictive modeling of morphing behavior in 4D printed PLA-based polymers	Mylene Cadete, Idalina Gonçalves and Victor Neto
17:10	Digital-Enabled Certification and Qualification in Additive Manufacturing: The DILAPRO Approach	<u>Ana Queiroz Barbosa.</u> Rita Bola, Eurico Assunção
17:30	Use of waste from the stone industry for decorative ceramic application	Pedro Custódio, <u>Liliana</u> <u>Gouveia</u> and Alexandre Vieira
17:50	Additive manufacturing by extrusion of thermoplastics polymers applied to the naval industry	P. J. Novo, F. J. P. Simões, Patrício Banda, Sérgio Leirinha, Patrícia Agostinho, Tânia Carvalho, Marco Lagares and P. G. Martinho

09:30	PLENARY LECTURE 3 WITH IAN GIBSON

10:10	MATERIALS FOR ADDITIVE MANUFACTO	JRING
10:10	Road to the "perfect" 3D-printed fruit and vegetable-based structure	<u>Tatiana Pereira</u> and Maria Manuel Gil
10:30	Metal chips as a sustainable feedstock for AM	<u>Catarina Batista</u> , Patrícia Rodrigues, Daniel Gatões, Fátima Barreiros, Tânia Carvalho and Teresa Vieira
10:50	Relative Permittivity Extraction using Fast Prototyped Standards with the Waveguide Method	Saúl Carvalho, João Reis, Samuel Heleno, Luís Duarte, Telmo Fernandes and Rafael Caldeirinha
11:10	Coffee break / Exhibition	
11:40	Sustainable faience additive manufacturing by the incorporation of limestone residues	<u>Paulo Novo</u> , Fátima Barreiros, Liliana Gouveia and Alexandre Vieira
12:00	Study of composite materials obtained by Automated Fibre Placement with thermoplastic matrix and carbon fibre reinforcement	M. L. Silva, P. J. Novo, P. Esfandiari, A. Carreiras, Tânia Carvalho, P. G. Martinho and J. F. Silva
12:20	Impact of Energy Density and Energy Intensity on Laser Powder Bed Fusion-Based Pure Iron Additive Manufacturing	<u>Pedro Lopes</u> , Luís Oliveira and Jorge L. Alves
12:40	Lunch break / Exhibition	
14:00	HYBRID PRODUCTS	

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14:00	2D metallic metamaterials produced by material extrusion	<u>Daniel Gatões</u> , Luís Cacho, Patrícia Rodrigues, Diogo Neto and Teresa Vieira
14:20	Design of 3D Printed Horn Antennas for Millimeter-Wave Applications in the 18-26.5 GHz Band	Samuel Heleno, Saúl Carvalho, João Reis, Luís Duarte, Telmo Fernandes and Rafael Caldeirinha
14:40	Design and Optimization of an Amplitude-Tapered Corporate Feeding Network for Large Array Antennas with Fixed Beam Steering at 50-75 GHz	Samuel Heleno, Saúl Carvalho, João Reis, Luís Duarte, Telmo Fernandes and Rafael Caldeirinha
15:00	C-Band Laminate And 3D Printed Patch Antennas: A Comparative Study	Samuel Heleno, Saúl Carvalho, João Reis, Luís Duarte, Telmo Fernandes and Rafael Caldeirinha
15:20	Influence of the macro-interlocking design on the mechanical behaviour of dissimilar joints produced by additive manufacturing	<u>Teresa Abreu</u> , Rui M. Leal, Carlos Leitão and Ivan Galvão

19:30 Conference Dinner

Cooperativa João Paulo II - Espaço Vita

