

	Day 1 (September, 7)
8:00-9:00	Registration
9:00-9:15	Welcome and opening
	Chair: Isabel Duarte
9:15-10:00	Plenary lecture – J. Banhart Light-metal foams - Scientific challenges and industrial applications
10:00-10:30	Coffee-break
	Chair: Robertt Valente
10:30-10:50	H. Mata Study of AFS forming based on penetration with spherical punch test
10:50-11:10	N. Peixinho Development of manufacturing process of cellular structures with controlled internal geometry
11:10-11:30	N. M. Alves Ability of SLM to produce thin structures
11:30-11:50	V.H. Carneiro Deformation behavior of self-expanding magnesium stents based on auxetic chiral lattices
11:50-12:10	I. Duarte A new class of closed-cell aluminium foams reinforced with carbon nanotubes
12:10-12:30	L. Gil Biomimetic cork-based ecoceramics for hydrogen generation using concentrated solar energy
12:30-14:00	Lunch
	Chair: J. M. Ferreira
14:00-14:45	Plenary lecture – M. F. Vaz Trabecular bone: A natural solid foam
14:45-15:05	C. Marques Robocasting of porous multifunctional calcium phosphate scaffolds for bone engineering
15:05-15:25	J. Mesquita-Guimarães Mechanical behaviour of zirconia scaffolds infiltrated with bioglass 58S
15:25-15:50	Coffee-break
15:50-16:10	G. Bonfait About the use of porous material in space for liquid localization and heat transfer
16:10-16:30	C. Amaral Thermal characterization of polyurethane foams with phase change material
16:30-16:50	S. Pinto Nanocellulose foams containing phase change materials and carbon nanostructures: a new energetic efficient and fire retardant foam
18:00-19:00	Social Programme*
20:00	Conference dinner**

* *Tour on traditional boats (named Moliceiro) around Aveiro's urban canals (Passeio de barco Moliceiro nos canais de água urbanos de Aveiro), not included in the price of the conference*

** *Meliã Ria Hotel & SPA, Cais da Fonte Nova, Lote 5, 3810-200 Aveiro, Portugal, GPS: [40.6386 \(N\)](#), [-8.6452 \(W\)](#)*

Day 2 (September, 8)	
9:00–9:15	Registration
Chair: A. Andrade-Campos	
9:15–10:00	Plenary lecture – M. Vesenjak Geometrical and mechanical analysis of various cellular metals
10:00–10:30	Coffee-break
10:30–10:50	R. M. Natal Jorge The transient analysis of the foam bone microstructure: A meshless approach
10:50–11:10	J. Belinha Incursion on the multi-scale analysis of steel foams using meshless methods
11:10–11:30	J. Dias-de-Oliveira Asymptotic expansion homogenisation and topology optimisation of cellular materials
11:30–11:50	I. Duarte Deformation and failure mechanisms of aluminium foams using rejected precursor materials
11:50–12:10	T. Branquinho Study of the physical and mechanical properties of epoxy composites
12:10–12:30	N. V. Gama Rigid polyurethane foams from unrefined crude glycerol - study of crude glycerol composition
12:30-14:00	Lunch
Chair: H. Fernandes	
14:00-14:45	Plenary lecture – J. M. Ferreira Design and fabrication of porous scaffolds for bone regeneration and tissue engineering
14:45-15:05	N. Vitorino Extrusion of porous cellular ceramics
15:05-15:25	A.R. Barbosa Glass foams from cathode ray tubes
15:25-15:50	Coffee-break
15:50-16:10	H.R. Fernandes The use of egg shells to produce cathode ray tube (CRT) glass foams
16:10-16:30	N. Vitorino Processing of functionalized cellular alumina monoliths
16:30-17:00	Closing session