

Tuesday, 2 September 2025

Time	Room A	Room B
9:00 - 9:20	Welcome Talk	
9:20 - 10:10 (45+5)	Plenary Session <i>Chair: Shinsuke Suzuki</i> Plenary: David Dunand Iron-Tungsten Foams for Redox Cycling at High Temperature	
10:10 - 10:20	Break	
	Fabrication <i>Chair: Soongkeun Hyun</i>	
10:20 - 11:00 (15+5)	Invited: Ryosuke Suzuki Fabrication of Aluminum Foam from Sheet Materials by a Combined Roll-bonding and Extrusion	
11:00 - 11:20 (15+5)	Fero Simancik Lightweight aluminium components made by foaming assisted casting technique	
11:20 - 11:40 (15+5)	Donghui Yang Fabrication of porous Mg/Zn alloys by low-temperature reactive sintering powder metallurgy approach	
11:40 - 13:00	Lunch Break	
	Mechanical: Invited <i>Chair: Soongkeun Hyun</i>	
13:00 - 13:40 (35+5)	Invited: Koichi Kitazono Energy absorption capacity of Sn-Bi alloy lattice structures manufactured using vat photopolymerized resin molds	
13:40 - 13:50	Break	
	Mechanical <i>Chair: Yuji Kume</i>	AM, Biomedical <i>Chair: Akihiro Takezawa</i>
13:50 - 14:10 (15+5)	Mingfang Zhu Deformation characteristics of graded aluminum foams under high strain rates	David Dunand Additively Manufactured Titanium with Steel or CaCl ₂ Spaceholders for Enhanced Orthopedic Materials
14:10 - 14:30 (15+5)	Ningzhen Wang Effect of alloy matrix on the mechanical properties and deformation mechanisms of aluminum foams	
14:30 - 14:50	Break	
	Macro/Microstructure: Invited <i>Chair: Koichi Kitazono</i>	
14:50 - 15:30 (35+5)	Invited: Paul Kamm Examining the Development of Aluminium Foams Using X-ray Tomoscopy	
15:30 - 15:40	Break	
	Macro/Microstructure <i>Chair: Koichi Kitazono</i>	Biomedical <i>Chair: Ryosuke Suzuki</i>
15:40 - 16:00 (15+5)	Yuta Kushiya Effect of TiC heterogeneous nucleation site particles on the melting behavior of Ti-6Al-4V powder by in-situ X-ray and thermal imaging during laser powder bed fusion	Guillermo Martínez Enhancing Titanium Implant Performance through Porous Substrates and Novel Biofunctional Coatings
16:00 - 16:20 (15+5)	Francisco García-Moreno Pore nucleation and growth in aluminium alloy foams analysed by X-ray tomoscopy	Ernesto Javier Delgado Pujol Porous Titanium Combined with Sustainable Bacterial Cellulose-Chitosan Hydrogels for Osteochondral Regeneration
16:20 - 16:50	Break	
16:50 - 18:00	(Poster Session)	

Wednesday, 3 September 2025

Time	Room A	Room B
	Plenary Session <i>Chair: Afsaneh Rabiei</i>	
9:30 - 10:20 (45+5)	Plenary: Hideo Nakajima Fabrication of Aluminum Alloys with Open-channel and Columnar Structure through Ceramic Fiber Template Method and Wire-extraction Method	
10:20 - 10:40	Break	
	Mechanical / Fabrication <i>Chair: Francisco García-Moreno</i>	
10:40 - 11:00 (15+5)	Shungo Yano Formation of deformation bands caused by changes in the pore arrangement of directional porous metals	
11:00 - 11:20 (15+5)	Jiwoon Lee Pore refinement of lotus-type porous Cu fabricated by continuous casting	
11:20 - 11:40 (15+5)		
11:40 - 13:00	Lunch Break	
	Fabrication: Invited <i>Chair: Olaf Andersen</i>	
13:00 - 13:40 (35+5)	Invited: Satomi Takamatsu Particles on inner surface of pores in aluminum alloy foam fabricated by semi-solid route	
13:40 - 13:50	Break	
	AM <i>Chair: Olaf Andersen</i>	Mechanical <i>Chair: Fero Simancik</i>
13:50 - 14:10 (15+5)	Yuki Wakai In-situ observation of periodic melting behavior in pure titanium powder during laser powder bed fusion	Hiddenori Yoshimura Effect of Cell Wall Thickness of Lattice-type Metallic Cellular Structure on Mechanical Properties
14:10 - 14:30 (15+5)	Kazuki Sakae Application of porous metal created by metal laser powder bed fusion to Powder damper and study on the damping phenomena	Masataka Hakamada Strong Electrodeposition Joining of Aluminum Alloy Sheets by Interfacial Composites of Nanoporous Anodic Aluminum Oxides and Metals
14:30 - 14:40	Break	
	Fabrication <i>Chair: Nihad Dukhan</i>	Fabrication <i>Chair: Masataka Hakamada</i>
14:40 - 15:00 (15+5)	Natsumi Tsuchida In-situ observation of melting behavior with spherical primary crystals of Al-6.4mass%Si for semi-solid foaming	Thomas Moore Fabrication of Uniform Copper Foams via Polystyrene Foam Templates
15:00 - 15:20 (15+5)		Ellis Hancox Production of low density, pure metal foams with uniform pore size made by electroless plating of latex beads
15:20 - 15:40 (15+5)		Rakesh Merugu Effects of Heat Treatment on Properties and Micropore Formation of Closed-cell Al ₃ Zr/AA6061 and AA6061 Foams
15:40 - 17:00	(Transfer to Dinner Site)	
17:00 - 19:00	Conference Dinner	

Thursday, 4 September 2025

Time	Room A	Room B
	Plenary Session <i>Chair: Shinsuke Suzuki</i>	
9:00 - 9:50 (45+5)		
9:50 - 10:10	Break	
	Application <i>Chair: Donghui Yang</i>	Thermofluidic <i>Chair: Hidenori Yoshimura</i>
10:10 - 10:30 (15+5)		Nihad Dukhan Enhancing Free Convection in Open-Cell Metal-Foam Hat Sink Using Holes
10:30 - 10:50 (15+5)	Sara Matsumura Visualization of Powder Behavior in Powder Dampers with Varying Particle Sizes and Clearances	Fero Simancik Heat battery made of aluminium foam filled with PCM
10:50 - 11:10 (15+5)	Juliane Hüttl Properties of a Porous Metallic Transport Layer Based on Paper Technology	Patricia Fernandez Morales Comparative Study of the Thermal Behavior of Porous and Solid A356 Aluminum Alloy Using Temperature Rise Tests and CFD Simulations
11:10 - 11:30	Closing Remark	
11:30 - 13:00	Lunch Break	
13:00 - 17:00	Conference Tour	