Monday, 1 September 2025

Time	ROHM Square (1st floor of Bldg. 63)
16:00 - 18:00	Registration
18:00 - 20:00	Welcome Reception

Tuesday, 2 September 2025

Time	Room A (2nd floor of Bldg. 63)	Room B (2nd floor of Bldg. 63)
9:00 - 9:20	**Welcome Talk**	
9:20 - 10:10 (45+5)	***Plenary Session*** *Chair: Shinsuke Suzuki* **Plenary: David Dunand** Iron-Tungsten Foams for Redox Cycling at High Temperature	
10:10 - 10:20	Break	
	Fabrication *Chair: Natsumi Tsuchida*	
10:20 - 11:00 (35+5)	**Invited: Ryosuke Suzuki** Fabrication of Aluminum Foam from Sheet Materials by a Combined Roll-bonding and Extrusion	
11:00 - 11:20 (15+5)	**Michal Kuris** Lightweight aluminium components made by foaming assisted casting technique	
11:20 - 11:40 (15+5)	**Yuji Kume** Fabrication of Porous Iron using Formable Powder Mixtures and Iron Oxides Reduction Sintering	
11:40 - 13:00	Lunch Break	
	Mechanical: Invited *Chair: Nihad Dukhan*	
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 *Chair: Yuji Kume*	**AM, Biomedical** *Chair: Akihiro Takezawa*
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	**Ernesto Javier Delgado Pujol** Porous Titanium Combined with Sustainable Bacterial Cellulose-Chitosan Hydrogels for Osteochondral Regeneration
14:30 - 14:50	Break	
	Macro/Microstructure: Invited *Chair: Koichi Kitazono*	
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 *Chair: Koichi Kitazono*	
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	
16:00 - 16:20 (15+5)	**Francisco García-Moreno** Pore nucleation and growth in aluminium alloy foams analysed by X-ray tomoscopy	
16:20 - 18:00	Poster Session	

Wednesday, 3 September 2025

Time	Room A (2nd floor of Bldg. 63)	Room B (2nd floor of Bldg. 63)
	Plenary Session *Chair: David Dunand*	
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 *Chair: Francisco García-Moreno*	
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 - 13:00	Lunch Break	
	Fabrication: Invited *Chair: Paul Kamm*	
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 *Chair: Norbert Babcsan*	**Mechanical** *Chair: Fero Simancik*
13:50 - 14:10 (15+5)	**Yuki Wakai** In-situ observation of periodic melting behavior in pure titanium powder during laser powder bed fusion	**Hidenori 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 *Chair: Ryosuke Suzuki*	**Fabrication, Properties** *Chair: Masataka Hakamada*
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)	**Norbert Babcsan** Smart Aluminum Foams: Functional Integration in Lightweight Engineering	**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)		**Masanori Shiomi** Frictional properties of porous metals fabricated by space holder technique
15:40 - 17:00	(Transfer to Dinner Site)	
17:00 - 19:00	Conference Dinner	

Thursday, 4 September 2025

Time	Room A (2nd floor of Bldg. 63)	Room B (2nd floor of Bldg. 63)
	Application *Chair: Masanori Shiomi*	
9:30 - 9:50 (15+5)	**Norbert Babcsan** From Space to Drones: Advanced Aluminium Foams for Lightweight UAV Components	
9:50 - 10:10 (15+5)	**Sara Matsumura** Visualization of Powder Behavior in Powder Dampers with Varying Particle Sizes and Clearances	
10:10 - 10:30 (15+5)	**Juliane Hüttl** Properties of a Porous Metallic Transport Layer Based on Paper Technology	
10:30 - 10:40	Break	
	Thermofluidic *Chair: Hidenori Yoshimura*	
10:40 - 11:00 (15+5)	**Nihad Dukhan** Enhancing Free Convection in Open-Cell Metal-Foam Hat Sink Using Holes	
11:00 - 11:20 (15+5)	**Fero Simancik** Heat battery made of aluminium foam filled with PCM	
11:20 - 11:40 (15+5)	**Patricia Fernandez Morales** Comparative Study of the Thermal Behavior of Porous and Solid A356 Aluminum Alloy Using Temperature Rise Tests and CFD Simulations	
11:40 - 12:00	Closing Remark	
12:00 - 13:00	Lunch Break	
13:00 - 17:00	Conference Tour	

Poster Session

#	Presenter / Title
1	**Seungmin Cho** Bonding Characteristics and Thermal Shock Behavior of Active Metal Brazed Substrates Using Lotus-Type Porous Cu
2	**Minseo Kim** Fabrication and Application of Nanoporous Silver Based on Ag-Al-Mn Alloy
3	**Rusheng Zhao** Negative Strain Rate Sensitivity of Al-Mg-Sc Alloy Lattice Structures
4	**Mao Kosaka** Mechanical Properties of Flexible and Rigid Aluminum Alloy Lattice Structures
5	**Takuya Hiranuma** Evaluation of spatter generation and compositional changes of Hastelloy X during laser powder bed fusion using in-situ X-ray imaging and EPMA
6	**Ernesto J. Delgado-Pujol** Improving Fatigue Life and Corrosion Resistance of Additively Manufactured Ti6Al4V Dental Implants through Porous/Hybrid Designs and β-Ti HiPIMS Coating
7	**Kanta Hada** Feature Extraction and Dimensionality Reduction of Architected Materials Using Variational Autoencoders