

Day 1: Sept. 2, 2026			
08:30 - 09:00		Registration	
09:00 - 09:15		Welcome Address (Prof. Cho-Pei Jiang)	
Keynote Speeches (Session Chair: Cho-Pei Jiang)			
09:15 - 09:45	Ma Qian	The Royal Melbourne Institute of Technology, Australia	Coupled composition-microstructure design enables strong and ductile titanium-oxygen-iron alloys
09:45 - 10:15	Mahdi Habibnejad	GE Additive-AP&C, Canada	
An Integrated Framework for Reliable Additive Manufacturing of Ti-6Al-4V: bridging the gap between powder feedstock			
Coffee Break (10:15 - 10:30, Main Lobby)			
Conference Sessions: Scope and Speaker List (Presentation 15 mins)			
Session 1		Jung-Ting Tsai	
Session Chair			
Invited Speaker		Speech Title	
10:35 - 10:55	Chang Woo Gal	Korea Institute of Materials Science, South Korea	Digital Light Processing as a Route to Metal and Metal/Ceramic Multi-Material Structures
Speaker		Paper Title	
10:55 - 11:10	Chen-Wei Chao	National Kaohsiung University of Science and Technology, Taiwan	Determination of Material Specific Humping Thresholds in High Speed Laser Welding of SUS316S Thin Sheets
11:10 - 11:25	Chung-Wei Cheng	National Yang Ming Chiao Tung University, Taiwan	Laser Power Modulation for Spatter Suppression and Enhanced Porosity in Wobble-Based LPBF Lattice Structures
11:25 - 11:40	Hsiao-Chen Cho	National Kaohsiung University of Science and Technology, Taiwan	Numerical Simulation of Molten Pool Dynamics and Surface Roughness Formation Mechanisms
11:40 - 11:55	Lucie Hlavůňková	Czech Technical University, Czech Republic	Influence of LPBF Process Parameters on the Surface Integrity of Nickel-Based Superalloys
11:55 - 12:10	Kamasani Reddappa Reddy	National Taipei University of Technology, Taiwan	Development of a Computational Fluid Dynamics Model for Cyclone Filter Design in Laser Powder Bed Fusion Process
Lunch Break (12:10 - 13:05, Main Lobby)			
Session 2		Chinmai Bhat	
Session Chair			
Invited Speaker		Speech Title	
13:10 - 13:30	Yong Lin Kong	Rice University, United States of America	Addressing unmet clinical needs with near-field microwave 3D printing
Speaker		Paper Title	
13:30 - 13:45	Yi-Fei Sung	National Taiwan University of Science and Technology, Taiwan	Comparison of MIM and MJB Processing of 17-4 PH Stainless Steel: Correlation with Powder Type and Microstructure
13:45 - 14:00	Šimon Petrášek	Czech Technical University in Prague, Czech Republic	Towards productive laser powder bed fusion of 17-4 PH steel: parameter study at 80 μm layer thickness
14:00 - 14:15	Wojciech Macek	Gdańsk University of Technology, Poland	An open source toolbox for fracture-surface analysis
14:15 - 14:30	Sabyasachi Dey	Indian Institute of Technology (Banaras Hindu University), India	Fatigue crack growth and fracture toughness of LPBF Al-Si-Mg alloy
14:30 - 14:45	Ju-Han Chung	National Cheng Kung University, Taiwan	Fabrication of crack-free 6061 aluminum alloy by incorporating Niobium Interlayer in Laser Foil Printing Additive
14:45 - 15:00	Chih-Hao Yang	National Pingtung University of Science and Technology, Taiwan	CuMn2O4 Electrode Synthesized via Ball-Milling and Calcination of Ag-Coated Cu/MnO2 Powders for Metal–Air Batteries and
Coffee Break (15:00 - 15:15, Main Lobby)			
Session 3		Allen Yang	
Session Chair			
Invited Speaker		Speech Title	
15:20 - 15:40	V. Arumugaprabu	Kalasalingam Academy of Research and Education, India	Sustainable Additive Manufacturing and Circular Economy: Recycling Agricultural Waste into High-Performance Biochar
Speaker		Paper Title	
15:40 - 15:55	Chen-Rui Liu	National Taiwan University, Taiwan	Influence of Unimodal and Bimodal Particle-Size Distributions of Iron-Nickel Oxide Powders on Microstructure Evolution and
15:55 - 16:10	Michał Wojaśiński	Warsaw University of Technology, Poland	Composite hydrogel with hydroxyapatite nanoparticles as osteogenic filling for porous bone implants
16:10 - 16:25	Tsugumi Ono	The University of Osaka, Japan	Nitrogen-Engineered Porous Core–Shell Ti–TiN Composites for Enhanced Tribological Performance
16:25 - 16:40	Vishwanatha H. M.	Manipal Institute of Technology, India	Influence of Inclined Deposition on the Tensile Properties and Microstructure of WAAM SS316L
16:40 - 16:55	Nandita Roy	Manipal Institute of Technology, India	Powder Characterization, Rheological, and Curing Depth Analysis of Alumina-Zirconia Composite Slurry for Ceramic Additive
16:55 - 17:10	Ramteja Saragandla	National Taipei University of Technology, Taiwan	Formulation and Optimization of Aluminium Nitride Photocurable Slurry for DLP-Based Ceramic Additive Manufacturing
17:10 - 17:25	Kuan Ting She	National Taiwan University of Science and Technology, Taiwan	Low-Reflectivity Core–Shell Composite Powder for Low-Power Laser Sinter-Based Additive Manufacturing of 17-4 PH Stainless
17:25 - 17:40	Seto Agung Riyanto	National Taipei University of Technology, Taiwan	Hybrid Solid-Liquid Architected Lattices for Enhanced Energy Dissipation: A Bio-Inspired Concentric Design Approach
17:40 - 17:55	Yi-Cheng Lee	National Tsing Hua University, Taiwan	Breaking the Strength-Ductility Trade-Off in SiC-Reinforced Metal Matrix Composites via Nacre-Inspired Multi-Material Laser
End of Day 1			
Day 2: Sept. 3, 2026			
Keynote Speeches (Session Chair: Jeng-Ywan Jeng)			
09:00 - 09:30	Aijun Huang	Monash University, Australia	Development of High-strength and toughness Commercial Aerospace Ti alloys for Additive Manufacturing
09:30 - 10:00	Aditya Thakur	Technical University of Braunschweig, Germany	
In Space Manufacturing: Challenges, Opportunities, and Current Research Trends			
Coffee Break (10:00 - 10:15, Main Lobby)			
Conference Sessions: Scope and Speaker List (Presentation 15 mins)			
Session 4		Hong Chuong Tran	
Session Chair			
Invited Speaker		Speech Title	
10:20 - 10:40	Shao-Pu Tsai	National Taiwan University, Taiwan	Insights into Texture Formation in Additively Manufactured Ti-Nb Alloys via Large Volume 3D EBSD
Speaker		Paper Title	
10:40 - 10:55	Chi-Ho Ng	Tohoku University, Japan and The University of Queensland, Australia	Solute and Particle-Driven Microstructural Control and Its Impact on the Machinability of 3D-Printed Ti-6Al-4V
10:55 - 11:10	Chun-Liang Chen	National Dong Hwa University, Taiwan	Effect of Ti and V Additions on the Microstructural Evolution of Mechanically Alloyed CoCrFeNi-Based High-Entropy Alloys
11:10 - 11:25	Yau-Hung Chiou	You Need Technology Consulting Co., Ltd., Taiwan	The Current Development Status of Titanium and Titanium Alloys Powder Forming Technology in the Greater China Region
11:25 - 11:40	Kenta Yamanaka	Tohoku University, Japan	Synchrotron and neutron diffraction study on microstructural evolution in additively manufactured α + β titanium alloys
11:40 - 11:55	Mallikarjuna B	National Institute of Technology Tiruchirappalli, India	Processing and Investigation of Less Explored Laser Powder Bed Fusion BT3-1 Titanium Alloy for Aeroengine Applications
Lunch Break (12:00 - 12:50, Main Lobby)			
Session 5		Mayur Jiyalal Prajapati	
Session Chair			
12:55 - 13:10	Che-Wei Tsai	National Tsing Hua University, Taiwan	Developing Lightweight RHEA Composites with Alumina Reinforcement for High-Temperature Applications
13:10 - 13:25	Hong Chuong Tran	National Taipei University of Technology, Taiwan	Multi-Physics Modeling of Laser Powder Bed Fusion and Advanced Laser Materials Processing
13:25 - 13:40	Jung-Ting Tsai	National Taiwan University of Science and Technology, Taiwan	Unlocking Additive Manufacturing Potential: Particle Size and Morphology as Key Drivers in Digital Light Process
13:40 - 13:55	Jin Cheng Tsai	National Taipei University, Taiwan	Comparative Patent Analysis of Porite MIM and Fe-49Co-2V Permendur in Quantum Materials Applications
13:55 - 14:10	Shenglu Lu	The Royal Melbourne Institute of Technology, Australia	Iron: Tailoring Variant Selection and Texture in Additively Manufactured Titanium Alloys
14:10 - 14:25	Po-Han Huang	National Cheng Kung University, Taiwan	Effect of Directional Thermal Behavior on the Anisotropic Properties of Inconel 625 Fabricated by Laser Foil Printing
14:25 - 14:40	Po-Chun Chiu	National Taiwan University, Taiwan	Layer-Dependent Thermal Non-Uniformity and Microstructural Variation of NiCuZn Ferrite during Box-Type Furnace Sintering
Coffee Break (14:40 - 14:55, Main Lobby)			
Session 6		V. Arumugaprabu	
Session Chair			
Invited Speaker		Speech Title	
15:00 - 15:20	M. Uthaykumar	Amrita Vishwa Vidyapeetham, India	Corrosion studies on 316 SS B4C composite prepared through powder metallurgy
Speaker		Paper Title	
15:20 - 15:35	Gow-Yi Tzou	Minghsin University of Science and Technology, Taiwan	Investigations on Rotating Compression of Porous Cylinder with Constant Shear Friction
15:35 - 15:50	Hsiang-Yu Teng	Cheng Shiu University, Taiwan	FEM Simulation on Rotating Compression of Porous Ring with Constant Shear Friction
15:50 - 16:05	Krzysztof Żak	Opole University of Technology, Poland	Functional Characterization of Machined Ductile Iron Surfaces Based on Multimodal Topography Measurements and
16:05 - 16:20	Shuya Onodera	The University of Tokyo, Japan	A study on topology optimization for additive manufacturing with overhang constraints
16:20 - 16:35	Laras Prasetyo Adhi	National Taipei University of Technology, Taiwan	Image-Based Geometric Measurement of Complex 3D-Printed Structures from Top-View Images
End of Day 2			
Day 3: Sept. 4, 2026			
Keynote Speeches			
09:00 - 09:30	Martin Jackson	The University of Sheffield, UK	New design opportunities through solid-state processing of low-cost titanium powder and particulate
09:30 - 10:00	Hung-Wei (Homer) Yen	National Taiwan University, Taiwan	
Ti Alloys with Bone-Like Modulus: Machine Learning, Design Principle, and 3D Printing			
Coffee Break (10:00 - 10:15, Main Lobby)			
Session 7		Che-Wei Tsai	
Session Chair			
Invited Speaker		Speech Title	
10:20 - 10:40	Yuan-Hui Chueh	National Taiwan University, Taiwan	Advances in Multi-Material Metal Laser Powder Bed Fusion through Interface Engineering and Process Optimization
Speaker		Paper Title	
10:40 - 10:55	Kristen Xu	Incus GmbH, Austria	Lithography-Based Metal Manufacturing of Titanium Enabling Technical Applications
10:55 - 11:10	Lisa Sinawehl	INCUS GmbH, Austria	Lithography-based Metal Manufacturing of Titanium enabling Technical Applications
11:10 - 11:25	Che-Nan Kuo	National Sun Yat-Sen University, Taiwan	Development of High-Strength 3D-Printing Aluminum Alloys: from In-Situ Synthesis to Ex-Situ Addition
11:25 - 11:40	Ping-Yu Chan	Tamkang University, Taiwan	Influence of Grayscale Printing Strategies on the Dimensional Accuracy and Shape Stability of Binder Jetting Sand Molds
11:40 - 11:55	Tseng Wan-Ling	Tamkang University, Taiwan	Research of Image-oriented Binder Jetting inkjet area analysis and ink compensation
End of Day 3			