

ICAMPP 2025

Sunday, 7 th of September		
Time	Theme	Facilitator
18:30	Registration desk open	Tanja Plestenjak
19:00	Informal get together event	Joško Valentinčič

Monday, 8 th of September		
Time	Theme	Facilitator(s)
8:30	Registration desk open	Tanja Plestenjak
9:00	Opening	Joško Valentinčič
9:15	Welcome speech: Franci Pušavec, vice dean, Faculty of Mechanical Engineering, Univeersity of Ljubljana	Joško Valentinčič
9:30	Keynote lecture: 3D printing of metals for energy saving applications (Mária Teresa Pérez-Prado, IMEDIA Materials Institute)	Edvard Govekar
10:15	Keynote lecture: Potentials of Beam Shaping in Laser-based Additive Manufacturing (Dominic Bartels, Bayerisches Laserzentrum GmbH)	Edvard Govekar
11:00	Coffee break	
	Session 1	Andrej Jeromen Lukas Löber
11:15	V. Gostiša, L. Sterle, D. Klobčar, E. Pušavec Post-Processing of 3D-Printed Metal Parts via Controlled Severe Plastic Deformation	
11:30	Mirza Imširović, Uroš Trdan, Laurent Berthe, Grega Čepon, Damjan Klobčar Enhancing Wire Arc Additively Manufactured Components through In-Situ Vibrations and Laser Shock Waves	
11:45	Abid Shah, Ahamad Ali Shaik, Neel Kamal Gupta, Rezo Aliyev, Henning Zeidler Influence of Pre-deposition Surface Conditions in Bimetallic Components using DED-Arc/M	
12:00	Jaka Simončič, Andrej Jeromen, Bojan Podgornik, Edvard Govekar Powder Mixture Composition Control System for Laser DED of Clad-Continuous Functionally Graded Materials	
12:15	Quoc-Phu Ma, Duy-Quy Vo, Ondrej Hilser, Jiri Hajnys, Jakub Mesicek, Akash Nag, Preeti Gautam, Jana Petru A Case Study on Applying Machine Learning to Predict the Hardness of Components Manufactured Using Powder Bed Fusion Technology	
12:30	Lukas Löber Concepts for improving laser-based additive manufacturing processes	
12:45	Arno Elspaß, Jan Wegner, Stefan Kleszczynski Plasma Electrolytic Polishing of Stainless-Steel Components Produced by Laser-Based Metal Powder Bed Fusion	
13:00	Lunch	
	Session 2	Deja Muck Diana Popescu
14:30	Jan Češnjevar, Deja Muck, Boris Beja Touching Art Through 3D Printing	
14:45	Diana Popescu, Mariana Cristiana Iacob 3D Printing - A skilful tailor for comfort	
15:00	Nina Štanfel, Anja Sarjanović, Deja Muck, Helena Gabrijelčič Tomc Customized Transtibial Prosthesis Cosmetics via 3D Modeling and Printing	
15:15	Hafsa Mir, Lukas Löber Construction of Various Materials using Stationary or Mobile systems ranging from Polymers and Concrete to Metals and Ceramics using advanced sintering	
15:30	Xabat Orue, Eduardo Tabares, Mikel Abasolo, Iban Quintana Improvement of fatigue properties of Ti-6Al-4V manufactured by Direct Energy Deposition with Laser Beam and Coaxial Wire (DED-LB/CW)	
15:45	Coffee break	
	Session 3	Keren Zohar-Hauber Stefan Kleszczynski
16:00	Keren Zohar Hauber, Taitana Vompe, Michael Kazakin, Alex Katz-Demyanetz Binder Jet Additive Manufacturing of metal/ceramic composites for high-performance applications	
16:15	Anish Nair, Andrej Jeromen, Roman Šturm, Peter Rodič, Barbara Kapun, Denis Sačer, Ingrid Milošev, Edvard Govekar Mechanical performance of biomedical Ti6Al4V-4Cu alloy: role of DED-LB fabrication strategy	
16:30	Urban Klanjšček, Mitjan Kalin Dry sliding performance of 18Ni300 produced by selective laser melting	
16:45	Jishnu Alavoor, Subhrojyoti Mazumder, Jithinraj Edaklavan Korothe, Afzaal Ahmed Effect of hatch spacing on tribological characteristics of additive manufactured SS316L steel	
17:00	Enej Istenič, Miha Brojan Viscoelastic Channel Flow During Solidification In The Context Of Additive Manufacturing Methods	
17:15	Panel discussion: The future of AM research and industrial uptake	Edvard Govekar
18:00	Best paper award, announcement of papers invited for publication in the Journal of Mechanical Engineering thematic issue	Marko Jerman
19:00	Departure to dinner	Tanja Plestenjak

ICAMPP 2025

	Tuesday 9 th September		
Time	Theme		Facilitator(s)
8:30	Registration desk open		Tanja Plestenjak
9:00	Ljupka Vrteva, Slovenian female engineer of the year		Joško Valentinčič
9:30	Keynote lecture: Multiphysic modeling of laser-based AM (Andreas Otto, TU Wien)		Henning Zeidler
10:15	Keynote lecture: Development of heat treatments for additively manufactured alloys (Jan Haubrich, German Aerospace Center (DLR) – Institute of Material Science)		Henning Zeidler
11:00	Coffee break		
	Session 4		Dominik Kozjek Long Ye
11:15	<u>Dominik Kozjek</u> , Drago Bračun, Primož Podržaj	Coaxial monitoring of meltpool for laser powder bed fusion process control	
11:30	<u>Long Ye</u> , Yilin Ma, Kaiwen Zhang, Yichang Zhou, Haodong Zhao, Zhaosheng Li, Hao Xue, Nan Yu	Machine learning-enabled mapping of spatial-temporal process–quality correlations in laser directed energy deposition+	
11:45	<u>E. A. Bonifaz</u> , J. Li	Thermal Modelling in High-Deposition-Rate Laser Directed Energy Deposition Process	
12:00	<u>Ehsan Kiani Harchegani</u> , Andrej Lebar, Joško Valentinčič, Izidor Sabotin, Sylvie Castagne, Marko Jerman	3D-Printed Soft Pneumatic Actuator with Enhanced Bending Performance and Control Precision	
12:15	<u>Andrej Suhadolc</u>	HP Technologies for 3D printing Plastic and Metal	
12:30	<u>Jure Kajbič</u> , Jernej Klemenc	Metal Wire As a Strain-Sensing Element in 3D-Printed Thermoplastics	
12:45	Jan Bartolj, <u>Domen Strenčan</u> , David Homar, Katharina Schmitz, Franc Majdič	Additively Manufactured Proportional Directional Hydraulic Valve and Mounting Plate, Tested in Mineral Hydraulic Oil	
13:00	Lunch		
	Session 5		Neel Kamal Gupta Afzaal Ahmad
14:00	<u>Jithinraj Edaklavan Korothe</u> , Henning Zeidler, Krishna Kumar Saxena, Muhammad Hazak Arshad, Joško Valentinčič	Plasma Electrolytic Polishing of Lattices: Role of Lattice Density and Forced Electrolyte Flow	
14:15	Aswin Karkadakattil, <u>Afzaal Ahmed</u> , Jibin Boban, Joško Valentinčič	Improving the surface quality of additively manufactured parts using laser polishing and artificial intelligence-based modelling	
14:30	<u>Jibin Boban</u> , Alfin Jaison, Afzaal Ahmed, Jithinraj Edaklavan Korothe	Sustainable polishing of additively manufactured metallic parts using recycled wire electrodes	
14:45	<u>Neel Kamal Gupta</u> , Toni Böttger, Henning Zeidler	Effect of Particle Blasting on Residual Stress and Surface Finish of PBF-LB/M Components	
15:00	<u>Samira Kaya</u> , Şükrü Kaya, Miray Aksoy, Enes Er, Cevat Sarioğlu	Corrosion behavior of the Ti-6Al-4V alloy fabricated by the laser powder bed fusion process: effect of plasma electrolytic polishing	
15:30	Coffee break		
15:45	Panel discussion: Challenges in post-processing		Henning Zeidler
16:30	Best female presentation award, final remarks and closing of the conference		Izidor Sabotin