



institute of materials
& machine mechanics
slovak academy of sciences

S^NM^T

15th International Conference on

STRUCTURAL MATERIALS

November 11, 2025 – Bratislava, Slovakia

Final Program

8:30 – 9:00 AM	Registration
9:00 – 9:10 AM	Introduction
9:10 – 10:40 AM	Keynote Lectures Session Chair: J. Jerz (KL-1) CEITEC: a case study of a successful center of excellence in materials Pavel Krecmer CEITEC – the Central European Institute of Technology Brno University of Technology, Czech Republic (KL-2) Microstructural aspects of the mechanical performance of Mg-LPSO alloys Kristián Máthis and Daria Drozdenko Faculty of Mathematics and Physics, Charles University, Prague, Czech Republic (KL-3) Investigation of the properties of aluminous porcelain samples of a long-rod insulator subjected to high DC voltage Przemysław Ranachowski ¹ , Zbigniew Ranachowski ¹ , Adam Brodecki ¹ and Krzysztof Wieczorek ² ¹ Institute of Fundamental Technological Research Polish Academy of Sciences, Warsaw, Poland ² Wroclaw University of Science and Technology, Wroclaw, Poland
10:40 – 11:20 AM	Tee/Coffee Break
11:20 AM – 12:20 PM	Keynote Lectures Session Chair: P. Ranachowski (KL-4) Advanced characterization by atomic (neutron) techniques: probing nano/micro-structural parameters with real-world impact Massimo Rogante Rogante Engineering Office, Civitanova Marche, Italy (KL-5) High hardness high entropy alloy by wire arc additive manufacturing Anatoliy Zavdoveev ¹ and Massimo Rogante ² ¹ E. O. Paton Electric Welding Institute NASU, Kyiv, Ukraine ² Rogante Engineering Office, Civitanova Marche, Italy
12:20 – 2:00 PM	Lunch Break & Lab Tour
2:00 – 3:00 PM	Oral Lectures Session Chair: M. Rogante (OL-1) Precipitation during in-situ and post-heat treatments of Al-Mg-Sc-Zr alloys processed by powder-bed fusion Štefan Nagy ¹ , Mohammad Sadegh Mohebbi ² and Vasily Ploshikhin ² ¹ Institute of Materials and Machine Mechanics, SAS, Bratislava, Slovakia ² Airbus Endowed Chair for Integrative Simulation and Engineering of Materials and Processes, University of Bremen, Germany (ISEMP) (OL-2) Effect of precipitation annealing on mechanical properties of CoCrFeNi based complex concentrated alloys with Al and Ti additions Alena Klimová, Michaela Štamborská, Tatiana Pelachová, Otto Bajana, Kateryna Kamyshnykova and Kateryna Ulybkina Institute of Materials and Machine Mechanics, SAS, Bratislava, Slovakia (OL-3) Recent development in structural applications of aluminum foams Jaroslav Kováčik ¹ , Jaroslav Jerz ¹ , František Šimančík ¹ , Liviu Marsavina ^{2,3} , Emanoil Linul ³ , Andrei-Nicolae Bădăluță ³ and Sergiu-Valentin Galațanu ³ ¹ Institute of Materials and Machine Mechanics, SAS, Bratislava, Slovakia ² Romanian Academy – Timisoara Branch, Timisoara, Romania ³ Politehnica University Timisoara, Timisoara, Romania
3:00 – 3:30 PM	Closing Remarks