

Monday, 25.5.	
9:00 - 13:00	Registration
13:00	Lunch
14:00	Welcome Speech and Conference Opening
14:20	AI in Experimental Mechanics <i>Koňas, Brno University of Technology</i>
15:20	Effect of Heat Treatment on the Microstructure and Mechanical Properties of LPBF Ti-6Al-4V Produced from Reused Powder <i>J. Hrabovský, Brno University of Technology</i>
16:00	Coffebreak
16:40	Experimental and numerical investigation of turbine blade trailing edge under extreme thermomechanical loading <i>J. Pavlas, Czech Technical University in Prague</i>
17:00	Single-Input-Multiple-Output Modal Analysis with a Large Number of References Performed by High-Speed DIC <i>M. Hagara, Technical University of Košice</i>
17:20	Validation and Application of Incremental Creep Testing for SLM AISI7Mg and AISI10Mg Aluminium Alloys <i>R. Halama, Technical University of Ostrava</i>
17:40	The Effect of Heat Treatment on Preferred Orientation and Residual Stresses of Aluminium Alloy Produced by Selective Laser Melting <i>K. Trojan, Czech Technical University in Prague</i>
18:00	Measurement of composite deformations using optical fibers <i>R. Musilová, Research Centre Řež</i>
18:20	Effect of Printing Orientation and Loading Rate on Tensile Response and Evolution of Poisson's Ratio in SLS PA12 <i>J. Prajka, Technical University of Ostrava</i>
19:00	Dinner

Tuesday, 26.5.		
Young Scientists Competition	9:00	Parameter Estimation and System Identification of a Demolition Excavator Based on Simulated and Measured Data <i>M. Šulc, Brno University of Technology</i>
	9:20	A comparative study of RFWR and LWR modeling approaches applied to a biomedical peristaltic pump <i>O. Mikulénka, Brno University of Technology</i>
	9:40	Fixture Development for Measuring Clearances of Tilting Pad Journal Bearings <i>J. Janýška, Brno University of Technology</i>
	10:00	Improvement of a low cost force gauge using parametric geometry optimization <i>O. Richter, Brno University of Technology</i>
	10:20	Coffebreak
Young Scientists Competition	11:00	Effect of Environment on Fatigue Crack Growth in Bonded Patches <i>A. Karkulín, VZLU AEROSPACE, a. s.</i>
	11:20	Modal Analysis of Bridges Using Modern Methods of Monitoring: A Case Study <i>P. Kálalová, Czech Technical University in Prague</i>
	11:40	Influence of Hot Isostatic Pressing on the Tensile Response of Thin 3D-Printed Ti-6Al-4V Specimens <i>P. Bočan, Czech Technical University in Prague</i>
	12:00	Development and Testing of Integrated Composite Gaseous Fuel Tanks for Aircraft use <i>O. Uher, Czech Technical University in Prague</i>
	12:20	Deformation Behavior and Energy Dissipation in Lattice Structures: A Comparison of Stochastic and non Stochastic Structure <i>A. Boualleg, Technical University of Liberec</i>
	13:00	Lunch
Keynote Lecture	14:00	Indentation-Based Residual Stress Measurement Using Digital Image Correlation <i>G. Schajer, University of British Columbia</i>
Session 2	14:40	Estimation of the Damping Coefficients of the Joints in Bennett Mechanism <i>R. Huňady, Technical University of Košice</i>
	15:00	Moisture Treatment of Unfired Rammed Earth Together with Freeze-thaw Test and its Impact on Bending Strength <i>P. Padevět, Czech Technical University in Prague</i>
	15:20	Coffebreak + Poster Session
Sponsor Session	16:00	Kesacon Kft.
	16:15	HBM měřicí technika s.r.o.
	16:30	DEWESoft s.r.o.
	16:45	X-Sight s.r.o.
	17:00	Labtech s.r.o.
	17:15	SVM Tech s.r.o.
	17:30	SVS FEM s.r.o.
	17:45	IMI s.r.o.
	18:00	Committee Meeting
	19:00	Dinner

Wednesday, 27.5.		
Session 3	9:00	Implementation and integration algorithm for a modified continuum isotropic damage-coupled unified viscoplastic model <i>J. Halama, Czech Technical University in Prague</i>
	9:20	Cyclic Softening and Ratcheting of 42CrMo4+QT Steel: Experimental Basis for the FABEST LCF Benchmark <i>F. Chovanec, Technical University of Ostrava</i>
	9:40	Recent Advances in Viscoelastic and Thermo-Mechanical Behavior of Magnetorheological Elastomers <i>I. Petriková, Technical University of Liberec</i>
	10:00	Multimodal SEM-Based Characterisation of Corrosion-Induced Microstructure around Reinforcing Steel <i>Z. Prašek, Czech Technical University in Prague</i>
	10:20	Temperature-Dependent Constitutive model for ASA Polymer: Experimental and Numerical Investigation <i>P. Palička, Technical University of Košice</i>
	10:40	Experimental Validation of Stress Intensity Factors Using Digital Image Correlation Measurement <i>P. Dlhý, Institute of Physics of Materials CAS</i>
	12:00	Lunch
Poster Session		Low-Cycle Fatigue Life and Cyclic Stress-Strain Response of SLM AISI10Mg Subjected to Powder Reuse <i>J. Cienciala, Technical University of Ostrava</i>
		Knowledge Base for Fatigue Life Assessment of Weldments <i>M. Kepka, University of West Bohemia</i>
		Experimental Dynamic Analysis of the Composite Part of a Hybrid Carousel Disc <i>R. Zbončák, VÚTS, a.s.</i>
		Stress and vibration analysis of a tram drive unit <i>J. Václavík, Research Centre Řež</i>
		Flexural behavior of adhesively bonded composite profiles <i>J. Krystek, University of West Bohemia</i>
		Influence of 5.56 × 45 mm Projectile Impact Energy on the Damage of UHPFRC Targets <i>T. Hrabé, Czech Technical University in Prague</i>
	The Effect of Artificially Induced Osteoporosis on Bone Mechanical Properties in a Miniature Pig Model <i>A. Jira, Czech Technical University in Prague</i>	
	Measuring the Temperature and Humidity of Concrete Structures using IoT Sensors <i>P. Bittnar, Czech Technical University in Prague</i>	