

MON June 12th	
8:50-9:00	Opening ceremony
9:00-9:30	MON-IN-I Invited lecture
Isabel Duarte	MULTIFUNCTIONAL STRUCTURES BASED ON CELLULAR METALS FOR ENGINEERING APPLICATIONS
9:30-10:30	MON-I Contributed lectures
Sebastian Pistor	COMPARATIVE STUDY OF SIMULATED WATER-ASSISTED INJECTION MOLDED BICYCLE FRAMES AND THEIR INJECTION MOLDED COUNTERPARTS
Theresa Rubenzucker	INVESTIGATION OF THE THEORETICAL LIMITS OF SHORT FIBER COMPOSITE PERFORMANCE BASED ON RVE SIMULATIONS
Evrin Burkut	PRODUCTION AND VISCOELASTIC CHARACTERIZATION OF MAGNETORHEOLOGICAL PDMS FOAMS
Barbora Kotlánová	VOLUME CHANGES MEASUREMENT OF ELASTOMERS USING 3D DIC
11:00-12:00	MON-II Contributed lectures
Jan Krivošej	EXPERIMENTAL VALIDATION OF MOTION SENSOR PHYSILOG®5 APPLIED TO SHOULDER JOINT
Adam Tater	MODELLING OF TEMPERATURE FIELD DISTRIBUTION ON SINGLE ANNULAR USING HIGHER ORDER NEURAL NETWORKS
Alexander Engel	SIMULATION OF MODIFIED AUXETIC STRUCTURES DURING DROP WEIGHT IMPACT
Sergej Grednev	AI-ASSISTED STUDY OF AUXETIC STRUCTURES
Laura Lindner	SIMULATION OF THE MECHANICAL BEHAVIOR OF TRIPLY PERIODIC MINIMAL SURFACE (TPMS) BASED GYROID
14:30-15:00	MON-IN-II Invited lecture
Petr Koudelka	LABORATORY X-RAY IMAGING IN MATERIAL SCIENCES
15:00-15:30	MON-IN-III Invited lecture
Tomáš Fíla	ACTUAL CHALLENGES IN EXPERIMENTAL IMPACT DYNAMICS: PROGRESS IN STATE-OF-THE-ART INSTRUMENTATION AND HIGH SPEED X-RAY IMAGING
15:30-16:30	MON-III Contributed lectures
Jan Sleichrt	EXPERIMENTAL APPROACH AND HIGH SPEED X-RAY IMAGING SYSTEM FOR INVESTIGATION OF COMPLEX MODES OF DEFORMATION IN MATERIALS AT ELEVATED STRAIN RATES
Nela Krčmářová	RESPONSE OF THE ULTRA HIGH PERFORMANCE CONCRETE UNDER DYNAMIC COMPRESSIVE LOADING
Jan Falta	MECHANICAL PROPERTIES OF BASALT: A STUDY ON COMPRESSIVE LOADING AT DIFFERENT STRAIN RATES USING SHPB
Veronika Drechslerová	EFFECT OF AGING ON MECHANICAL PROPERTIES OF 3D PRINTED SAMPLES USING STEREOLITHOGRAPHY
TUE June 13th	
9:00-9:30	TUE-IN-I Invited lecture
Nejc Novak	COMPUTATIONAL AND EXPERIMENTAL MECHANICAL CHARACTERISATION OF MODERN CELLULAR METAMATERIALS AT DIFFERENT STRAIN RATES
9:30-10:30	TUE-I Contributed lectures
Jonathan Glinz	FAST CONTINUOUS IN-SITU XCT OF ADDITIVELY MANUFACTURED CARBON FIBER REINFORCED TENSILE TEST SPECIMENS
Julia Maurer	INVESTIGATION OF LOCAL DEFECT FORMATION IN SHORT GLASS FIBRE REINFORCED POLYMERS BY MICRO-MECHANICAL SIMULATIONS AND INTERRUPTED IN-SITU EXPERIMENTS
Blanka Zaloudkova	EFFECT OF THE LONG-TERM STORAGE METHODS ON THE STABILITY OF CARTILAGE BIOMECHANICAL PARAMETERS
Rene Preuer	CONDUCTIVE OPEN-CELL SILICONE FOAM FOR MODULATABLE DAMPING AND IMPACT SENSING APPLICATIONS
Miroslav Yosifov	SEGMENTATION OF PORES IN CARBON FIBER REINFORCED POLYMERS USING THE U-NET CONVOLUTIONAL NEURAL NETWORK
11:00-12:00	TUE-II Contributed lectures
Alessandra Panerai	ANALYSIS OF PEEL AND SHEAR STRAINS IN CRACKED LAP SHEAR

	SPECIMENS SUBJECTED TO FATIGUE LOADING USING DIGITAL IMAGE CORRELATION
Vaclav Rada	COMPUTED TOMOGRAPHY SYSTEM WITH STRICT REAL-TIME SYNCHRONIZATION FOR IN-SITU 3D ANALYSIS OF PERIODICALLY VIBRATING OBJECTS
Yunus Emre Yilmaz	IMPROVING STRAIN WAVE MEASUREMENT ACCURACY IN DIRECT IMPACT HOPKINSON BAR TESTS OF CELLULAR MATERIALS USING A 2 MEASURING POINTS WAVE SEPARATION TECHNIQUE
Michal Kubínyi (Testima)	CONNECTION BETWEEN ACADEMIC RESEARCH AND X-RAY NDT DEVELOPMENT IN INDUSTRY
Railway Research Institute (VUZ)	COMPANY PRESENTATION
WED June 14th	

9:30-10:30	WED-I	Contributed lectures
Patrik Kovář	SCALABLE ACTIVATION FUNCTION EMPLOYMENT IN HIGHER ORDER NEURAL NETWORKS IN TASKS OF SUPERVISED LEARNING	
Tomáš Kohout	THE POSSIBILITIES OF UTILISING THE SKIDOMETER T2GO FOR FORENSIC ENGINEERING	
Radosław Grabiec	DESIGN OF THE ALGORITHM, PRINT AND ANALYSIS OF POROUS STRUCTURES WITH MODIFIABLE PARAMETERS	
Yogesh Gandhi	GEOMETRY PROJECTION METHOD FOR DESIGNING AND MANUFACTURING VARIABLE-STIFFNESS COMPOSITE LAMINATE.	
Pavel Vrtal	DYNAMIC TESTS OF THE PROTECTIVE AND SECURITY BARRIER SYSTEM PROBAR	
Radim Dvořák	ASYNCHRONOUS TIME INTEGRATION WHILE ACHIEVING ZERO INTERFACE ENERGY	
11:00-11:10	Closing ceremony	