



PROGRAM (Preliminary)

Wednesday, 22nd September

Time	Event	Location
13:00 – 17:30	Registration	WUT
15:30 – 17:00	Scientific Committee Meeting	
18:00 – 20:00	Welcome cocktail	Museum of Architecture

Thursday, 23rd September

7:30 – 8:30	Registration	Wrocław University of Technology (WUT)
8:30 – 9:30	Opening Ceremony	
9:30 – 10:45	Keynote lectures	
10:45 – 11:10	Coffee break	
11:10 – 12:00	Keynote lectures	
12:00 – 13:00	Poster presentation I	
13:00 – 14:00	Lunch	
14:00 – 14:50	Keynote lectures	
14:50 – 16:00	Poster presentation II	
16:00 – 16:30	Coffee break	
16:30 – 17:20	Keynote lectures	
17:20 – 18:15	Poster presentation III	
18:15 – 20:00	Dinner	

Friday, 24th September

8:00 – 12:30	Technical Visit	Wrocław University of Technology (WUT)
13:00 – 14:00	Lunch	
14:00 – 14:50	Keynote lectures	
14:20 – 16:00	Poster presentation IV	
16:00 – 16:30	Coffee break	
16:30 – 16:40	Presentation DAS28 (Hungary)	
16:40 – 17:50	Poster presentation V	
17:50 – 18:15	Coffee break	
18:45 – 24:00	Symposium dinner	Piwnica Świdnicka http://www.piwnicaswidnicka.com/

Saturday, 25th September

8:30 – 9:20	Keynote lectures	Wrocław University of Technology (WUT)
9:20 – 10:30	Poster presentation VI	
10:30 – 11:00	Coffee break	
11:00 – 12:00	Poster presentation VII	
12:10 – 12:25	Closing ceremony	
12:30 – 13:30	Lunch	

Thursday, 23rd September

7:30 – 8:30			Registration
8:30 – 9:30			Opening Ceremony
9:30 – 10:45			Keynote lectures
09:30	Karl-Hans Laermann: CONSIDERATIONS ON THE HISTORICAL AND FUTURE DEVELOPMENTS OF EXPERIMENTAL MECHANICS		55
09:55	Romuald Będziński, Magdalena Kobielarz, Magdalena Bartkowiak-Jowska: SELECTED PROBLEMS IN THE SOFT TISSUE INVESTIGATIONS		4
10:20	Giorgio OLMI, Alessandro FREDDI: LCF CHARACTERIZATION WITH SENSITIVITY ANALYSES OF MATERIALS FOR TURBOGENERATOR COIL RETAINING RINGS AND ROTORS		78
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11:10 – 12:00			Keynote lectures
11:10	Dalibor Blažek, Peter Palček, Martin Kasenčák, Jakub Porubčan: THE INTERNAL DAMPING OF DEPINNED DISLOCATIONS IN Mg AZ31 ALLOY		5
11:35	Stefan Dan Pastrama, Pedro Moreira, Valentin Richter-Trummer, Paulo Tavares De Castro, Mario Vaz: A DIGITAL IMAGE CORRELATION METHODOLOGY FOR OBTAINING FRACTURE MECHANICS PARAMETERS		81
12:00 – 13:00			Poster presentation I
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12:04	Dario Croccolo, Alessandro Freddi, M. De Agostinis, N. Vincenzi: EXPERIMENTAL STUDY OF FRICTION IN ALUMINIUM BOLTED JOINTS		17
12:08	Eva Tillová, Lenka Hurtalová, Mária Chalupová: INFLUENCE OF THE AGE-HARDENING ON MECHANICAL PROPERTIES OF THE RECYCLED AISi9Cu3 CAST ALLOY		107
12:12	Małgorzata Kalisz, Wojciech Moćko, Zbigniew L. Kowalewski: AN INFLUENCE OF LOADING HISTORY ON THE NANOINDENTATION PARAMETERS OF TANTALUM		45
12:16	Imre Norbert Orbulov, Árpád Németh, János Dobránszky, János Ginsztler: CHARACTERIZATION OF LIGHT WEIGHT METAL FOAMS		79
12:20	Kamil Kolařík, Nikolaj Ganev, Zdenek Pala, Jan Jersák: RELATIONSHIPS BETWEEN MECHANICAL PROPERTIES OF HARDENED STEEL FUNCTIONAL SURFACE		48
12:24	Marek Maj: THE COMPUTATIONAL ESTIMATING RELIABILITY INDEXES FOR REINFORCED CONCRETE SILO ON BULK MATERIALS		62
12:28	Ivan Saprunov, Igor Emri: TIME DEPENDENT PROPERTIES OF PA FIBERS IN COMPARISON WITH CORRESPONDED MATERIAL BULK PROPERTIES		91
12:32	Jerzy Kaleta, Przemysław Wiewiórski, Wojciech Wiśniewski: MAGNETIC METHOD OF INVESTIGATION MARTENSITIC TRANSFORMATION INDUCED BY PLASTIC DEFORMATION IN BULK SPECIMENS		42
12:36	Jerzy Kaleta, Daniel Lewandowski, Rafał Mech: HIGH VOLUME FRACTION OF TERFENOL-D POWDER MAGNETOSTRICTIVE COMPOSITES		43
12:40	Christoph Wikete, Thomas K. Bader, Andreas Jager, Karin Hofstetter, Josef Eberhardsteiner: MECHANICAL PROPERTIES AND MICROSTRUCTURAL CHARACTERISTICS OF HARDWOOD		115
12:44	Leszek Czechowski, Jacek Jankowski: EXPERIMENTAL TESTS FOR HIGH-STRENGTH COMPOSITE MATERIALS		19

12:48	Gianni Nicoletto, Enrica Riva: MACRO- AND MESOSCOPIC STRAINS OF WOVEN CFRP LAMINAS DURING OFF-AXIS LOADING	73
12:52	Jürgen Vogel, Sven Zocher, Hans-Jürgen Feige: ANALYSIS OF MECHANICAL PROPERTIES OF CFRP-LAMINATES BY DIC AND DMA	114

13:00 – 14:00 Lunch

14:00 – 14:50 **Keynote lectures**

14:00	Ante Bakić, Damir Semenski, Stjepan Jecić: CONTACT CAUSTICS MEASUREMENTS EXPANDED TO ANISOTROPIC MATERIALS	1
14:25	Martin Macdonald, Manoj Arunajith Heiyantuduwa, Maria Kotelko: WEB CRIPPLING OF THIN-WALLED BEAMS EXPERIMENTAL INVESTIGATIONS	60

14:50 – 16:00 **Poster presentation II**

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14:54	Milosav Ognjanovic, Matug Benur: DISTURBANCE ENERGY TRANSMISSION THROUGH VIBRATION SYSTEM AND THROUGH FREQUENCY SPECTRUM	76
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15:18	Thomas Fössl, Martin Leitner, Wilfried Eichlseder: EVALUATION OF FILLET WELD PROPERTIES IN DEPENDENCE OF WELD MANUFACTURING PARAMETERS	26
15:22	Bohumil Culek, Bohumil Culek, Jakub Vágner: WELD INFLUENCE ON FATIGUE BEHAVIOR OF THE SIMPLE STEEL SPECIMEN	18
15:26	Jacek Gadomski, Paweł Pyrzanowski: DAMAGE IDENTIFICATION OF STRONGLY LOADED CARBON REINFORCED COMPOSITE USING ELECTRIC RESISTANCE CHANGE METHOD	29
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16:00 – 16:30		Coffee break	
16:30 – 17:20		Keynote lectures	
16:30	Milan Růžička, Karel Doubrava, Milan Dvořák, Viktor Kulíšek: DAMAGE MONITORING USING FBG SENSORS		90
16:55	Enikő Soós: EXPERIMENTAL AND NUMERICAL ANALYSIS OF A THREAD CUTTING SCREW JOINT SUBJECTED TO THERMAL LOADING		95
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17:24	Krouzecky Norbert, Huber Boris: EXPERIMENTAL DETERMINATION OF THROTTLE COEFFICIENTS - USING THE EXAMPLE REISSECK II POWER PLANT GROUP		51
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17:32	Jens Kretzschmar, Martin Stockmann, Sven Schiller, Udo Hellfritzsich: EXPERIMENTAL - NUMERICAL METHOD TO DETERMINE THE TOOL SURFACE LOADS DURING THE ROLLING PROCESS OF GEAR WHEELS		50
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17:48	Dušan Stamenković, Jelena Milisavljević, Marko Mančić: OPTIMIZATION OF rubber-metal SPRINGS FOR RAILWAY VEHICLES		96
17:52	Damian Pietrusiak, Jerzy Czmochocki: EXPERIMENTAL IDENTIFICATION OF BUCKET WHEEL EXCAVATOR MODAL MODES		85
17:56	Jacek Marcin Bomba, Jerzy Kaleta: MODELLING OF MAGNETOMECHANICAL ENERGY DISSIPATION IN MAGNETOSTRICTIVE ACTUATOR		11
18:00	Paweł Gąsior, Jerzy Kaleta, Aleksander Przygoda: SHM SYSTEM FOR STRINGS MONITORING OF A POWER BOILER		33
18:04	Marcin Jankowski, Maria Kotefko: EXPERIMENTALLY AIDED NUMERICAL MODEL OF THE HEAD TO THE VEHICLE SEAT HEAD RESTRAINT IMPACT		40
18:08	Andrea Bernasconi, Francesca Cosmi, Salvatore Scozzese: EXPERIMENTAL ANALYSIS OF FIBRE ORIENTATION IN AN INJECTION MOULDED CLUTCH PEDAL		3
18:15 – 20:00		Dinner	

Friday, 24th September

8:00 – 12:30			Technical Visit		
13:00 – 14:00			Lunch		
14:00 – 14:50			Keynote lectures		
14:00	László Valenta, János Halas, Tibor Volosin, András Czmerk: SILICON ELASTOMER BASED SENSOR FOR MEASURING TIRE-LOAD	111			
14:25	Dragan Milković, Goran Simić, Vojkan Lučanin: AERODYNAMIC PRESSURE FORCE ON PERSON PRODUCED BY PASSING TRAIN	68			
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14:54	Adam Mazurkiewicz, Tomasz Topoliński: RELATIONSHIP BETWEEN FATIGUE LIFE AND STRUCTURAL INDICES OF HUMAN TRABECULAR BONE	64			
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15:02	Anna Nikodem: RHEOLOGICAL PROPERTIES OF HUMAN TIBIA BONE	74			
15:06	Maciej Panek: MODEL ANALYSIS OF BOVINE BONE IN THE CANTILEVER BEAM SYSTEM WITH ADDITIONAL MASS	80			
15:10	Celina Pezowicz: REGIONAL STRENGTH VARIATION OF VERTEBRAL ENDPLATE	84			
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15:26	Sylvia Szotek: MECHANICAL PROPERTIES OF HUMAN FASCIA	102			
15:30	Małgorzata Żak, Celina Pezowicz: MECHANICAL PROPERTIES OF ANNULUS FIBROSUS ON THE UNIAXIAL TENSILE TEST	119			
15:34	Stanisław Zaborski, Andrzej Wołyniec, Adam Sudzik: ELECTROCHEMICAL POLISHING HEADS BIOPROSTHETIC HIP	117			
15:38	Gergely Hargitai, István Bagi, Lajos Borbás: STABILITY ENHANCEMENT OF HIP'S FRACTURES	35			
15:42	Henrietta Lelovics, Tatiana Liptáková: TIME-DEPENDENT CHANGES IN MICROHARDNESS AND ELASTIC MODULUS OF ACRYLIC BONE CEMENT	56			
15:46	Hans Nägerl, Caspar Graf Stauffenberg, Karlheinz Frosch, Christoph Fiedler, Jochen Fanghänel, Dietmar Kubein-Meesenburg, Martin Wachowski: TOTAL KNEE REPLACEMENT WITH NATURAL ROLLBACK	70			
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15:54	Péter Rózahegyi: BIOMECHANICAL TESTING POSSIBILITIES AND EXPERIENCES IN THE MECHANICAL TESTING LABORATORY OF BAY ZOLTÁN FOUNDATION	88			

16:00 – 16:30	Coffee break	
16:30 – 16:40	Presentation DAS28 (Hungary)	
16:40– 17:50	Poster presentation V	
16:40	Grzegorz Milewski, Anna Hille: EXPERIMENTAL STRENGTH ANALYSIS OF ORTHODONTIC EXTRUSION FOR HUMAN ANTERIOR TEETH	66
16:44	Bartosz Czerwiec, Ludomir J.Jankowski, Przemysław Stróżyk, Agnieszka Szust: STUDY OF THE STRAIN DISTRIBUTIONS IN MANDIBLE MODELS	20
16:48	Przemysław Stróżyk, Agnieszka Szust: NUMERICAL ANALYSIS OF THE STRAIN DISTRIBUTIONS IN MANDIBLE MODELS AFTER MARGINECTOMY	100
16:52	Ligia Brezeanu, Gabriela Beresescu: FEM ANALYSIS OF STRESS IN NON-CARIOUS CERVICAL LESION RESTORATION WITH FOUR DIFFERENT RESTORATIVE MATERIALS	12
16:56	Magdalena Bartkowiak-Jowska: DYNAMIC MECHANICAL AND RHEOLOGICAL PROPERTIES OF POLYMERS FOR BIODEGRADABLE MEDICAL DEVICES	2
17:00	Dániel Domján, László Milán Molnár, Eszter Bognár, László Dévényi: POROUS POLYMER COATINGS FOR STENTS	22
17:04	Katarzyna Kazimierska-Drobny, Monika Galanciak, Mariusz Kaczmarek: DETERMINATION OF MECHANICAL PARAMETERS OF PVA HYDROGELS	46
17:08	Francesca Cosmi: PRELIMINARY RESULTS IN SYNCHROTRON X-RAY DIFFRACTION MEASUREMENTS OF RUBBER COMPOSITES STRUCTURE BEFORE AND AFTER EXPOSURE TO HYDROGEN	16
17:12	Maciej Gawlikowski, Karolina Gorka, Roman Kustosz: THE APPLICATION OF THROMBOGENESIS TO IN-VITRO INVESTIGATION OF BLOOD PUMPS	32
17:16	Fabijan Lulić, Zdravko Virag, Mario Savar: A REDUCED MODEL OF THE ARTERIAL TREE	59
17:20	Tomasz Rusin, Dorota Jurkojc, Maciej Darlak, Roman Kustosz: USE OF DIGITAL IMAGE CORRELATION FOR MEASUREMENT OF DEFORMATION OF VENTRICULAR ASSIST DEVICE UNDER WORKING PRESSURE	89
17:24	Henriette Steiner, Tibor Szilágyi: EFFECT OF THERAPEUTIC RIDING ON THE COORDINATION OF MOVEMENTS OF BLIND CHILDREN (A LONG-TERM STUDY)	99
17:28	Robert Michnik, Jacek Jurkojc, Marek Gzik, Wojciech Wolański, Paweł Potkova: THE USE OF THE MOTION ANALYSIS METHOD FOR ESTIMATION OF BODY BEHAVIOUR DURING SIMULATED CAR ACCIDENT	65
17:32	Wilk Jakub: INVESTIGATION OF THE EFFECTS OF TORSION ON CARRIER PROFILES	116
17:36	Damian Derlukiewicz, Górski Artur: NUMERICAL AND EXPERIMENTAL RESEARCH IN COMPLIANCE TEST OF MODERN AMBULANCE EQUIPMENT WITH PN-EN 1789 STANDARD	21
17:40	Ewelina Świątek-Najwer, Romuald Będziński, Szymon Dragan jr., Paweł Krowicki, Krzysztof Krzysztoforski: INVESTIGATION OF LOWER LIMB MECHANICAL AXIS USING 3D SONOGRAPHY AND MAGNETIC RESONANCE	105
17:44	Krowicki Paweł: NEW APPROACH TO BONE SURFACE RECONSTRUCTION FROM 2.5D SONOGRAPHIC DATASET	52
17:50– 18:15	Coffee break	
18:45 – 24:00	Symposium dinner (Piwnica Świdnicka)	

Saturday, 25th September

8:30 – 9:20		Keynote lectures
08:30	Mieczysław Szata, Grzegorz Lesiuk: INVESTIGATION OF FATIGUE CRACK GROWTH IN PUDDLED STEEL AFTER 100-YEARS OPERATING TIME	101
08:55	Klaus Hoffmann, Thomas Gabmayer, Klaus Decker: REMOTE CONTROL OF LONG-TERM MEASUREMENTS ON WIND TURBINES USING UMTS TECHNOLOGY	36
9:20 – 10:30		Poster presentation VI
09:20	Otakar Bokůvka, František Nový, Wojciech Żórawski: FATIGUE ENDURANCE OF AISI 316L STEEL WITH ELECTRO-SPARK DEPOSITED COATINGS	10
09:24	Predrag Čanžar, Janoš Kodvanj, Ante Bakić, Zvonimir Tomičević, Martin Surjak: FATIGUE CRACK GROWTH IN ALUMINUM ALLOY AlCu5BiPb	14
09:28	Barbara Reggiani, Lorenzo Donati, Luca Tomesani: THERMAL-ELECTRIC SIMULATIONS FOR THE TEMPERATURE SETTING IN A CREEP-FATIGUE TEST	87
09:32	Jakub Vágner, Bohumil Culek jr, Bohumil Culek: METHOD OF LOAD SIMPLIFICATION FOR MULTIAXIAL FATIGUE TESTS	110
09:36	Lubomir Gajdos, Martin Sperl, Richard Nekvasil: CORROSION FATIGUE PROPERTIES OF S355 J2G3 STEEL	30
09:40	Václav Horák: THE ADVANCED FATIGUE STRENGTH TEST METHOD OF THIN-WALLED SMALL AIRCRAFT WING	37
09:44	Jerzy Kaleta, Daniel Lewandowski, Michał Liberda, Rafał Mech, Przemysław Wiewiórski: ENERGY HARVESTER WITH HIGH PULSE MECHANICAL STIMULATION	44
09:48	Wilfried Eichseder, A. Trausmuth, I. Godor, M. Stoschka: ROLLING CONTACT FATIGUE PREDICTION OF DIFFERENT PLASMA NITRIDED AND CASE HARDENED SPECIMENS	24
09:52	Elżbieta Gadalińska, Bartosz Korzeniewski, Jerzy Kaniowski: OPTIMIZATION OF XRD MEASUREMENT PARAMETERS FOR TEXTURED, COARSE GRAIN ALUMINIUM SHEET	28
09:56	Christoph Dorn, Matthias Stark, Friedrich Bleicher, Johannes Bernreiter: ANALYSIS OF LOAD PROFILE OF A VERTICAL AND HORIZONTAL MACHINING CENTER	23
10:00	Giorgio Olmi: IN-FIELD EXPERIMENTAL STRESS ANALYSIS IN THE ELASTIC AND PLASTIC FIELDS ON MOTORBIKE HANDLEBAR CLAMPED JOINTS	77
10:04	Tadeusz Smolnicki: MEASUREMENT OF TRACTION AND STEERING FORCES OF MULTICATERPILAR MECHANISM OF STACKER MACHINE DRIVE	94
10:08	Christoph Habersohn, Falko Puschitz, Friedrich Bleicher: DEVELOPMENT OF A VIRTUAL MODEL FOR AN OVER-DETERMINED PARALLEL KINEMATICS STRUCTURE	34
10:12	Ambrus Zelei, László L. Kovacs, László Bencsik, Gábor Stépán: IMPEDANCE CONTROL OF A CEILING BASED SERVICE ROBOT – SIMULATION AND EXPERIMENT	118
10:16	Vojkan Lučanin, Jovan Tanasković: RESEARCH OF COLLISION ENERGY AND ABSORBERS DYNAMIC OF PASSENGER TRAIN	58
10:20	Ivo Stancic, Tamara Grujic Supuk, Vlasta Zanchi: BUILDING AND TESTING OF A SIMPLE HIGH SPEED KINEMATIC MEASUREMENT SYSTEM	98
10:30 – 11:00		Coffee break

11:00 – 12:00		Poster presentation VII
11:00	Vasile Năstăsescu, Nicolae Iliescu: NUMERICAL SIMULATION OF CHARPY AND IZOD TESTS	71
11:04	Eugenia C. Cojocaru, Helmut J. Holl, Andreas Brandl: EXPERIMENTAL AND NUMERICAL ANALYSIS OF THE ROTATIONAL STIFFNESS OF A LINEAR MOTION GUIDE	15
11:08	Szymon Imielowski, Cezary Ajdukiewicz, Aniela Glinicka: POSTCRITICAL BUCKLING OF SELECTED METAL COLUMNS	39
11:12	Diana Šimić: THE IMPACT OF LATERAL RESTRAINT ON THE STABILITY OF THE THIN-WALLED Z-SECTION BEAM	92
11:16	Artur Galek, Harald Moser, Thomas Ring, Matthias Zeiml, Roman Lackner, Josef Eberhardsteiner: EXPERIMENTAL INVESTIGATION OF STRAIN BEHAVIOR AND TRANSPORT PROPERTIES OF THERMALLY-LOADED CONCRETE	31
11:20	Umut D. Cakmak, Georg Grestenberger, Zoltán Majo: DEVELOPMENT OF A STICKINESS TEST METHODOLOGY	13
11:24	István Bognár: THE EFFICIENCY INCREASEMENT OF COMBINE HARVESTERS BASED ON NEW PRINCIPLES	9
11:28	Mihai Valentin Predoi, Marian Soare, Cristian Cătălin Petre: OPTIMAL CHOICE OF GUIDED MODES FOR COATED PLATES INSPECTION	86
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11:36	Friedrich Bleicher, Johannes Bernreiter, Michael Heger, Reinhard Prenner, Simon Wallner, Norbert Krouzecky: DIGITAL SCALE MODELLING OF ROUGH BOUNDARIES IN SPILLWAY CONDUITS	7
11:40	Momčilo P. Milinović, Olivera A. Jeremić, Aleksandar V. Kari: RING WIRE ABSORBER EXPERIMENTAL MODELLING UNDER THE SHOCK IMPULSE	67
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11:52	Mariusz Kaczmarek, Katarzyna Kazimierska-Drobny, M. Marciniak, M. Okońska: IDENTIFICATION OF STRUCTURAL AND TRANSPORT PARAMETERS OF SOILS FROM COLUMN TESTS	41
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