

DAS-29 Symposium Program

Wednesday, 26 th September		
Time	Event	Location
13:00 – 20:00	Registration	Symp. space II floor
18:00 - 19:00	Scientific Committee Meeting	
19:00 - 21:00	Welcome cocktail	Symp. space II floor
Thursday, 27 th September		
Time	Event	Location
08:00 -	Registration	Symposium space II floor
08:30 - 09:00	Opening Ceremony	
09:00 - 09:50	Keynote lectures - 1	
09:50 - 10:15	Coffee break	
10:15 - 11:05	Keynote lectures - 2	
11:05 - 12:25	Symposium session I	
12:30 - 13:30	Lunch	Restaurant – V floor
13:30 - 14:20	Keynote lectures - 3	Symposium space II floor
14:20 - 15:30	Symposium session II	
15:30 - 16:00	Coffee break	
16:00 - 16:50	Keynote lectures - 4	
16:50 - 18:00	Symposium session III	
18:30 - 20:00	Dinner	Restaurant – V floor
Friday, 28 th September		
Time	Event	Location
08:00 - 12:30	Technical visit	Military Technical Instit.
12:30 - 13:30	Lunch	Restaurant – V floor
13:30 - 14:20	Keynote lectures - 5	Symposium space II floor
14:20 - 15:30	Symposium session IV	
15:30 - 16:00	Coffee break	
16:00 - 17:15	Symposium session V	
18:30 - 22:30	Symposium dinner	Restaurant in the city
Saturday, 29 th September		
Time	Event	Location
09:00 - 09:50	Keynote lectures - 6	Symposium space II floor
09:50 - 11:00	Symposium session VI	
11:00 - 11:30	Coffee break	
11:30 - 12:45	Symposium session VII	
12:45 - 13:00	Closing ceremony	
13:00 - 14:00	Lunch	Restaurant – V floor

Thursday, 27th Sept.

Registration			
Opening ceremony			
09:00 - 09:50		Keynote lectures - 1	
CHAIRMEN:		Josef EBERHARDSTEINER	
09:00	Tabea Wilk, Matthias Bartholmai, Werner Daum: INTRODUCTION IN THE SYSTEM OF THE SPLIT HOPKINSON PRESSURE BAR AND VALIDATION OF THE METHOD	Poster board No	Page in Proceedings
09:25	Ferenc Dömötör COMPLEX DIAGNOSTICS OF THE CUTTING PROCESS OF METAL COMPOSITE STRUCTURES		52
09:50 - 10:15		Coffee break + discussion	
10:15 - 11:05		Keynote lectures - 2	
CHAIRMEN:		Lajos BORBÁS	
10:15	Francesca Cosmi, Salvatore Scozzese, Nathalie Steimberg, Giovanna Mazzoleni: QUANTITATIVE STRUCTURAL ASSESSMENT OF RAT TIBIAL EPIPHYSEAL EXPLANTS KEPT IN MICROGRAVITY CONDITIONS		76
10:40	Djuro Koruga BIOMECHANICS OF TUBULIN, MICROTUBULES AND THEIR ORGANELLES		146
11:05 - 12:25		Symposium session I	
CHAIRMEN:		Wilfried EICHLSEDER and Snežana ĆIRIĆ-KOŠTIĆ	
11:05	Zdravko Virag, Fabijan Lulić, Ivan Korade: A FOUR ELEMENT VISCO-ELASTIC WINDKESSEL MODEL OF THE ARTERIAL TREE	01	42
11:10	M. Bán, A. Kertész, E. Bognár: A COMPUTER-BASED MEASUREMENT METHOD FOR EXPLANTED CORONARY STENTS	02	60
11:15	Gábor Katona, Béla M. Csizmadia: THE EFFECT OF ORIGINATION METHOD OF ANATOMICAL COORDINATE SYSTEM OF HUMAN KNEE TO THE PROsthESIS DESIGNING AND IMPLANTATION	03	62
11:20	Ákos Lengyel, Eszter Bognár, János Dobránszky: THE EFFECT OF STENT POSITIONING DURING ELECTROPOLISHING	04	64
11:25	Torda László Sélley, András Szilágyi, Eszter Bognár: BIODEGRADABLE POLYMER COATINGS FOR STENTS	05	66
11:30	Péter Molnár, István Németh, László Farkas, Tibor Juhász: INTELLIGENT LOAD CELL AS A NEW MEDICAL AID	06	70
11:35	Gábor Péter Balassa, Gábor Katona: QUALIFICATION METHODS ON SPECIFIC STRUCTURES: KNEE PROSTHESES	07	72
11:40	Marek Kulig: EXPERIMENTAL ANALYSIS OF THE STABILITY OF THE OBLIQUE FEMUR FRACTURE, SECURED WITH INTRAMEDULLARY RODS	08	96
11:45	Mateusz Wirwicki, Tomasz Topoliński: PRELIMINARY TESTING OF ZIRCONIUM DIOXIDE – A COMPARISON OF SELECTED DENTAL CERAMIC	09	110

11:50	I. Djuric, I. Mileusnic, A. Debeljkovic, M. Radovanovic, D. Koruga: AFM SURFACE ROUGHNESS ANALYSIS OF EYE POSITIONING CONTACT LENS	10	150
11:55	I. Hur, M. Marjanović, J. Kuzmanović, L. Matija: PRE- AND POST-BRUSHING NANOSCALE SURFACE ROUGHNESS OF MICROHYBRID AND NANOHYBRID COMPOSITE RESIN DENTAL FILLINGS	11	154
12:00	D. Stamenković, M. Tomić, A. Debeljković, J. Munčan, L. Matija: HOW INCORPORATED NANOMATERIALS IN CONTACT LENSES AFFECT THEIR MECHANICAL AND OPTICAL PROPERTIES	12	158
12:05	K. Colic, Z. Miskovic, M. Regodic, A. Veg, A. Sedmak: EXPERIMENTAL ANALYSIS OF ARTIFICIAL HIP IMPLANT MADE OF TITANIUM ALLOY	13	162
12:10	D. Petrović, R. Radojević, K. Tomantschger, Z. Golubović: THE UNIFORMITY OF WHEAT SEEDING OVER AN AREA AND DEPTH	14	166
12:15	D. Petrović, R. Radojević, P. Vukša, Z. Golubović: DROPLET SIZE DISTRIBUTIONS OF CONVENTIONAL AND AIR-INDUCED NOZZLES	15	170
12:30 - 13:30 LUNCH			
13:30 - 14:20 Keynote lectures - 3 CHAIRMEN: Ivo ALFIREVIĆ			
13:30	K. Luczynski, A. Dejaco, O. Lahayne, J. Jaroszewicz, W. Swieszkowski, C. Hellmich: MICRO-CT/MICROMECHANICS-BASED FINITE ELEMENT MODELS AND QUASI-STATIC UNLOADING TESTS DELIVER CONSISTENT VALUES FOR YOUNG'S MODULUS OF RAPID-PROTOTYPED POLYMER-CERAMIC TISSUE ENGINEERING SCAFFOLD		2
13:55	L. Krstulović-Opara, E. Garafulić, B. Klarin, Ž. Domazet and P. Jurić: DETECTION OF STRUCTURAL DAMAGES IN CRP MATERIALS BASED ON INFRARED IMAGING AND FFT		16
14:20 - 15:30 Symposium session II CHAIRMEN: Damir SEMENSKI and Frantisek PLÁNIČKA			
14:20	Aleksandar Stanojevic, Gerhard Winter, Florian Grün: AUTOMATIC DETERMINATION OF CRACK PARAMETERS FOR TMF LOADED SPECIMEN	16	12
14:25	Rene Prahl, Reinhard Zisser-Pfeifer: MODEL FOR THE REDUCTION OF COMPONENTS OF DEVIATIONS FOR COORDINATE MEASURING MACHINES	17	14
14:30	M. Hackert-Oschätzchen, G. Meichsner, A. Martin, H. Zeidler, A. Schubert: FAST MICROMILLING WITH JET ELECTROCHEMICAL MACHINING	18	54
14:35	H. Zeidler, M. Hahn, J. Schneider, M. Hackert-Oschätzchen, A. Schubert: ACCELERATED PRECISION MANUFACTURING THROUGH ELECTRO DISCHARGE MACHINING WITH ULTRASONIC VIBRATION ASSISTANCE	19	56
14:40	Gábor Balogh and István Szabó: NEW PROCEDURE TO COMBINE CAD MODELING FEM SIMULATION AND BARKHAUSEN-NOISE STRESS ANALYSIS IN SHEET METAL FORMING	20	74
14:45	Matej Babić, Matjaž Milfelner, Peter Kokol: LASER ENERGY TECHNOLOGY OF HARDENING	21	140
14:50	Matej Babić, Matjaž Milfelner, Peter Kokol: USE FRACTAL ANALYSIS FOR DESCRIBE MECHANICAL PROPERTY OF ROBOT LASER HARDENED MATERIAL	22	142
14:55	M. Mitić, Z. Miljković, M. Lazarević, B. Babić, I. Lazarević: IMAGE-BASED VISUAL SERVO CONTROL OF ROBOT MANIPULATOR UNDER PARAMETER UNCERTAINTIES	23	174
15:00	V. Nikolić, Ž. Čojbašić, D. Ristić-Durant, E. Petrović, S. Matić, I. Ćirić: KALMAN FILTER FOR ROBOT VISION-BASED HUMAN TRACKING	24	178
15:05	Z. Dančuo, B. Rašuo, V. Zeljković, J. Vidaković, V. Kvrgić: ACCELERATIONS IN A HIGH PERMANENCE HUMAN CENTRIFUGE	25	182
15:10	J. Vidaković, V. Kvrgić, G. Ferenc, Z. Dančuo, M. Lazarević: CONTROL OF A HUMAN CENTRIFUGE	26	186

15:15	Aleksandar Marinković, Tatjana Lazović, Miloš Stanković: DAQ AND TRIBOLOGY PERFORMANCES FOR EXPERIMENTAL INVESTIGATION OF BEARINGS	27	258
15:20	Marija Milojević, Milosav Ognjanović, Božidar Rosić: FRETTING WEAR GENERATED IN SPLINE JOINT OF BACK-TO-BACK GEAR TESTING RIG	28	262
15:30 - 16:00 Coffee break + discussion			
16:00 - 16:50 Keynote lectures - 4 CHAIRMEN: Gianni NICOLETTO			
16:00	Cristian Catalin PETRE, Mihai Valentin PREDOI, Marian SOARE: MULTIPOINT GENERATION OF GUIDED WAVES IN PIPES. EXPERIMENTAL VALIDATION.		112
16:25	Valentina Golubović-Bugarski: EXPERIMENTAL DYNAMIC ANALYSIS OF BRIDGES		144
16:50 - 18:00 Symposium session III CHAIRMEN: Milan RŮŽIČKA and Dan Mihai CONSTANTINESCU			
16:50	Marina Frančić, Domagoj Damjanović, Mladenko Rak: TESTING OF THE RAILWAY BRIDGE "SAVA JAKUŠEVAC" AFTER REPARATION	29	24
16:55	Tanja Ilijaš, Domagoj Damjanović, Joško Krolo: DEPENDENCE OF CABLE FUNDAMENTAL FREQUENCY ON BENDING STIFFNESS, STRESS AND BOUNDARY CONDITIONS	30	34
17:00	Milan Růžička, Peter Koštúr: IMPACT DAMAGE DETECTION USING PIEZOELECTRIC SENSORS/ACTUATORS NETWORK	31	46
17:05	Jakub Vágner, Bohumil Culek jr., Bohumil Culek: METHODOLOGY OF MULTIAXIAL FATIGUE TEST SIMPLIFICATION	32	48
17:10	Fillemon N. Nangolo: INVESTIGATION OF VERTICAL RESPONSE OF MECHANICAL SYSTEMS	33	50
17:15	Zbigniew L. Kowalewski, Tadeusz Szymczak: AN INFLUENCE OF CYCLIC TORSION PARAMETERS ON TENSILE CHARACTERISTIC VARIATION	34	98
17:20	M. Przybylski, J. Kaleta, D. Lewandowski, M. Królewicz: APPLICATION OF MAGNETORHEOLOGICAL ELASTOMERS IN VIBRATION DAMPER	35	106
17:25	Mihai Valentin PREDOI, Cristian Catalin PETRE: MULTIPOINT GENERATION OF GUIDED WAVES IN PIPES. FINITE ELEMENTS MODEL.	36	114
17:30	Cotrumba Mirela, Radoiu Bogdan, Pintilie Alexandru: AUTOMATIC COMPENSATION OF THE LOAD'S BALANCE BY TILTING SYSTEM INSTALLED ON MARINE CRANES	37	116
17:35	J. Svorcan, S. Stupar, A. Simonović, D. Komarov, S. Trivković: ASSESSMENT OF AIRCRAFT WING FREQUENCY CHARACTERISTICS	38	190
17:40	N. Zorić, Z. Mitrović, A. Simonović, S. Stupar: A PIC32 BASED ACTIVE VIBRATION CONTROL OF SMART COMPOSITE BEAMS	39	194
17:45	M. Benur, S. Vasin, V. Golubović-Bugarski, M. Ognjanović: EXPERIMENTAL IDENTIFICATION OF DISTURBANCE TRANSMISSION FACTOR	40	198
17:50	K. Aleksandar, M. Milinović, O. Jeremić, D. Jerković: COMPARATIVE ANALYSES OF SERIAL LINKED EXPERIMENTAL TESTED WIRE ROPE ABSORBERS	41	202
17:55	J. Tanasković, D. Milković, V. Lučanin, R. Mitrović: EXPERIMENTAL RESERACH OF COMBINED TUBES COLLISION ENERGY ABSORBER	42	206
18:30 - 20:00 DINNER			

Friday, 28th Sept.

08:00 - 12:30

TECHNICAL VISIT

12:30 - 13:30

LUNCH

13:30 - 14:20

Keynote lectures - 5

CHAIRMEN: **Dan PASTRAMA**

13:30

Eubomír Gajdoš and Martin Šperl:

MICROPLASTIC LIMIT AS DETERMINED BY THE INDUCTANCE AND RESISTANCE METHOD

44

13:55

K. Miková, M. Guagliano, O. Bokůvka, L. Trško, F. Nový:

FATIGUE PROPERTIES OF X70 MICROALLOYED PIPELINE STEEL AFTER SHOT PEENING APPLICATION

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14:20 - 15:30

Symposium session IV

CHAIRMEN: **Werner DAUM and Zbigniew KOWALEWSKI**

14:20

Boris Huber, Norbert Krouzecky:

INVESTIGATION OF EFFECTS OF STRENGTHENING OF A BRIDGE PIER ON THE FLOOD FLOW OF THE RIVER DANUBE

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14:25

Frane Pamuković, Martin Surjak, Janoš Kodvanj:

APPLICATION OF THE OPTICAL SYSTEM ARAMIS FOR DETERMINING THE STABILITY OF EXTERNAL FIXATOR

44

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14:30

Lovre Krstulović-Opara, Endri Garafulić and Željko Domazet:

DETECTION OF OSMOTIC DAMAGES IN GRP BOAT HULLS

45

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14:35

Marko Jurišić, Nenad Drvar:

APPLICATION OF OPTICAL MEASUREMENT FOR SIMULATION IMPROVEMENT

46

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14:40

Katarzyna Makowska, Zbigniew L. Kowalewski:

QUALITATIVE EVALUATION OF STRUCTURAL DEGRADATION AND MECHANICAL PROPERTIES BY MEANS OF BARKHAUSEN AND MAGNETOACOUSTIC EMISSION

47

90

14:45

Jakub Tabin:

QUALITY OPTIMIZATION OF MEASUREMENT PATHS INCLUDED IN THE EXPERIMENTAL CRYOGENIC STAND FOR TENSILE TESTING AT ULTRA-LOW TEMPERATURES

48

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14:50

A. Czernuszewicz, J. Kaleta, D. Lewandowski, P. Wiewiórski:

MAGNETIC FIELD INVESTIGATIONS FOR A MAGNETOCALORIC LABORATORY TEST STAND

49

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14:55

M. Gergesova, B. Zupančič, I. Saprunov, I. Emri:

THE ALGORITHM FOR AUTOMATED TIME-TEMPERATURE SUPERPOSITION

50

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15:00

M. Mančić, M. Đorđević, E. Petrović, J. Milisavljević:

TURBULENCE INTENSITY IN A SMOOTH TUBE MEASURING WITH HOT WIRE ANEMOMETER

51

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15:05

I. Ćirić, Ž. Čojbašić, V. Nikolić, E. Petrović, J. Milisavljević, S. Nikolić:
VARIABLE SPEED WIND GENERATOR AERO TURBINE OPTIMAL FUZZY CONTROL

52

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15:10	Dejan Micković, Slobodan Jaramaz, Predrag Elek: EXPERIMENTAL CHARACTERISATION OF TWO-PHASE REACTIVE FLOWS IN PROPELLANT CHAMBER	53	218
15:15	Dragiša Skoko, Cvetko Crnojević, Mileta Ristivojević: INCLINATION EFFECTS OF OUTLET NOZZLE ON SENSITIVITY OF PNEUMATIC COMPARATOR	54	222
15:20	Z. Posteljnik, S. Stupar, A. Simonović, D. Komarov, J. Svorcan: EXPERIMENTAL INVESTIGATION OF INDUSTRIAL STEEL STACK TEMPERATURE DISTRIBUTION	55	226
15:25	N. Petrašinović, S. Stupar, A. Simonović, S. Trivković, O. Peković: COLD COMPACTION ALUMINUM ALLOYS SWARF	56	230
15:30 - 16:00 Coffee break + discussion			
16:00 - 17:15 Symposium session V			
CHAIRMEN: Francesca COSMI and Peter PALČEK			
16:00	Z. Tomičević, F. Hild, J. Kodvanj, S. Roux, A. Bakić: TWO SCALE FULL-FIELD MEASUREMENT ON SPHEROIDAL GRAPHITE CAST IRON	57	36
16:05	N. Radović, A. Morri, A. Morri, G. Minak: EFFECT OF MICROSTRUCTURE ON MECHANICAL BEHAVIOUR OF SPHEROIDAL AND COMPACTED CAST IRONS	58	82
16:10	A. Bashir, W. Dudziński, P. Śmietana, M. Dudziński: MICROSTRUCTURE AND MECHANICAL PROPERTIES OF POWER TURBINE BLADES AFTER 25 YEARS OF OPERATION	59	88
16:15	Robert SOŁTYSIAK: THE ANALYSIS OF THE LOCAL MATERIALS PROPERTIES IN THE WELDED JOINTS	60	92
16:20	Tomasz Tomaszewski, Janusz Sempruch: INFLUENCE OF PRESTRAIN ON THE MECHANICAL PROPERTIES OF AW-6063 ALUMINUM ALLOY	61	100
16:25	Jerzy Kaleta, Daniel Lewandowski, Dajana Sawicka: BASIC ANALYSIS OF SINGLE CRYSTAL NIMNGA MICROSTRUCTURE	62	104
16:30	F. Baciú, S.D. Pastrama, H. Gheorghiu, D. Vlasceanu: EXPERIMENTAL DETERMINATION OF MECHANICAL CHARACTERISTICS OF STEEL FOR NUMERICAL SIMULATION OF THE WELDING PROCESS	63	118
16:35	L. Trško, O. Bokůvka, W. Żórawski, František Nový: FATIGUE PROPERTIES OF STRUCTURAL STEEL INFLUENCED BY SAND BLASTING	64	126
16:40	Farkašová Mária, Tillová Eva, Chalupová Mária: MICROSTRUCTURE AND THE PROPERTIES OF AISi6Cu4 CAST ALLOY AFTER Sb-MODIFICATION	65	128
16:45	Hurtalová Lenka, Tillová Eva, Chalupová Mária: THE STRUCTURAL ANALYSIS OF SECONDARY (RECYCLED) AISi9Cu3 CAST ALLOY	66	130
16:50	Tatiana Liptáková, Pavol Fajnor, Monika Halamová: EFFECTS OF SURFACE FINISHING ON LOCAL CORROSION OF 316-TI STAINLESS STELS	67	132
16:55	Peter PALČEK, Ivana HLAVÁČOVÁ, Mária CHALUPOVÁ: INFLUENCE OF AZ61 STRUCTURE ON THE PLASTIC DEFORMATION AROUND A CRACK	68	134
17:00	J. Lozanović-Šajić, S. Mladenović, E. Dzindo: MODELING OF WELDED STEEL X20 AND X22	69-1	254
17:05	M. Blagojević, A. Dišić, M. Živković, R. Slavković: VERIFICATION OF DEFORMATION MEASUREMENTS RESULTS USING OPTICAL MEASURING SYSTEM TRITOP	69-2	290
17:10	A. Dišić, M. Živković, V. Milovanović, M. Blagojević: SOME ASPECTS IN DESIGN OF SPLIT HOPKINSON TENSION BAR	69-3	294
17:15	V. Milovanović, M. Živković, A. Dišić, D. Rakić: COMPARATIVE RESULTS OF WAGON STRESSES OBTAINED BY MEASURING WITH STRAIN GAUGES AND STRESSES OBTAINED BY FEM CALCULATION	69-4	298
18:30 - 22:30 SYMPOSIUM DINNER			

Saturday, 29th Sept.

09:00 - 09:50 Keynote lectures - 6			
CHAIRMEN: Otakar BOKUČKA			
09:00	Z. L. Kowalewski, A. Rutecka, K. Makowska, K. Pietrzak: FATIGUE DAMAGE OF AL/SIC COMPOSITES – MACROSCOPIC AND MICROSCOPIC ANALYSIS		86
09:25	Andreja Popit, Anatolij Nikonov, Igor Emri: ACOUSTIC PROPERTIES OF GRANULAR WASTE TIRES		136
09:50 - 11:00 Symposium session VI			
CHAIRMEN: Mieczyslaw SZATA and Miroslav ŽIVKOVIĆ			
09:50	I. Duvnjak, M. Rak, J. Krolo, M. Bartolac, M. Frančić: EXPERIMENTAL INVESTIGATION OF THE COLLAPSED STEEL BRIDGE DEFORMATION	70	26
09:55	Diana Šimić, Ana Radić: STABILITY OF THIN-WALLED SYMMETRICAL AND NON-SYMMETRICAL OPEN-SECTION BEAMS	71	40
10:00	Giorgio Olmi, Alessandro Freddi: FAILURE PROBABILITY EVALUATION OF TURBOGENERATOR COIL RETAINING RINGS BASED ON LCF EXPERIMENTAL DATA AND LOCAL STATES OF LOAD	72	78
10:05	G. Nicoletto, E. Riva, A. Saletti: FATIGUE STRENGTHENING OF CRANKSHAFTS BY DEEP ROLLING	73	80
10:10	T. Maneski, A. Petrović, M. Milošević, N. Mitrović, N. Momčilović: CLASSICAL AND MODERN MEASURING METHODS IN EXPERIMENTAL ANALYSIS OF G – BEAM STRUCTURE	74	234
10:15	O. Peković, S. Stupar, A. Simonović, D. Petrašinović, N. Zorić: EXPERIMENTAL DETERMINATION OF GUY WIRE TENSION	75	238
10:20	D. Milković, G. Simić, Ž. Jakovljević, J. Tanasković, V. Lučanin: WAYSIDE MONITORING SYSTEM FOR WHEEL-RAIL CONTACT FORCES MEASUREMENTS	76	242
10:25	M. Stanković, M. Ristić, A. Simonović, M. Jovanović: BUCKLING BEHAVIOUR OF DENTED ALUMINIUM ALLOY CYLINDRICAL SHELL SUBJECTED TO UNIFORM AXIAL COMPRESSION	77	246
10:30	Mirjana Šojić-Radić: EXPERIMENTAL STRAIN ANALYSIS IN DOUBLE LAYER PRESSED JOINT	78	250
10:35	M. Tanasijević, U. Bugarić, P. Jovančić, D. Ignjatović, D. Polovina: RELATIONSHIP BETWEEN THE RELIABILITY AND THE LENGTH OF CONVEYOR RUBBER BELT	79	274
10:40	R. Mitrović, Ž. Mišković, M. Tasić, Z. Stamenić, N. Soldat, N. Matic: CONVEYOR IDLERS TESTING MACHINE	80	278
10:45	Predrag Živković, Miloš Ristić, Milosav Ognjanović: WEAR AND RELIABILITY OF PLANETARY GEAR SET CENTRAL PINION	81	282
10:50	D. Jankovic, M. Ristivojevic: DETERMINING RELIABILITY OF FUEL INJECTORS IN EXPLOITATION	82	286

11:00 - 11:30		Coffee break + discussion	
11:30 - 12:45		Symposium session VII	
		CHAIRMEN: Igor EMRI and Alesandro FREDDI	
11:30	Yvonne Theiner, Günter Hofstetter: DRYING SHRINKAGE OF CONCRETE STRUCTURES STRENGTHENED BY OVERLAYS	83	6
11:35	L. Wagner, T. K. Bader, K. Borst, J. Eberhardsteiner: NANOINDENTATION TO STUDY WITHIN-TREE VARIABILITY OF WOOD CELL WALL STIFFNESS	84	8
11:40	Richard Zemann, Friedrich Bleicher: HELICAL COMPOSITE SPRINGS	85	10
11:45	Nenad Turčić, Miljenko Haiman, Joško Krolo: TESTING THE TIMBER – LIGHTWEIGHT CONCRETE COMPOSITE GIRDER SAMPLES	86	28
11:50	Marko Bartolac, Joško Krolo, Ivan Paska: EXPERIMENTAL TESTING OF PRECAST CONCRETE POLES FOR OVERHEAD ELECTRICAL LINES	87	30
11:55	D. Damjanović, M. Rak, I. Duvnjak, M. Frančić, S. Planić: STATIC, DYNAMIC AND FATIGUE TESTING OF RAILWAY SLEEPERS	88	32
12:00	A. Skender, D. Damjanović, Ž. Šimunić: SHEAR MODULUS TESTING METHOD FOR ELASTOMERIC BEARINGS	89	38
12:05	Peter Ficzere, Lajos Borbás: VALIDATION OF NUMERICAL ANALYSIS RESULTS IN CASE OF RAPID PROTOTYPING BY EXPERIMENTS USING OPTICAL TECHNIQUES	90	68
12:10	Riccardo Panciroli, Giangiacomo Minak: HYDROELASTIC SLAMMING OF COMPOSITE PLATES	91	84
12:15	Jerzy Kaleta, Daniel Lewandowski, Rafał Mech: MAGNETOSTRICTIVE COMPOSITES BASED ON TERFENOL-D PARTICLES WITH DEFINED POLARIZATION	92	108
12:20	D. A. APOSTOL, D. M. CONSTANTINESCU, L. MARSAVINA, E. LINUL: DENSIFICATION AND ENERGY EFFICIENCY OF POLYURETHANE FOAMS	93	120
12:25	D. M. CONSTANTINESCU, C. R. PICU, D. A. APOSTOL, M. SANDU: EVALUATION OF THE FRACTURE TOUGHNESS OF MWNT AND GPL EPOXY NANOCOMPOSITES	94	122
12:30	J. Milisavljević, E. Petrović, I. Ćirić, M. Mančev, D. Marković, M. Đorđević: TENSILE TESTING FOR DIFFERENT TYPES OF POLYMERS	95	266
12:35	S.Ćirić Kostić, Z.Šoškić, A. Pavlović, G.Minak: LOW VELOCITY IMPACT ON A COMPLEX COMPOSITE STRUCTURE	96	270
12:45 - 13:00		Closing ceremony	
13:00 - 14:00		LUNCH	