

PROGRAM - TUESDAY 25 SEPTEMBER

14:30 REGISTRATION OF PARTICIPANTS

19:30 WELCOME RECEPTION - PANORAMIC RESTAURANT

PROGRAM - WEDNESDAY 26 SEPTEMBER MORNING

8:45 OPENING CEREMONY - AUDITORIUM HALL, Conferences and Events Center, 2nd Floor

9:20 *SPONSOR PRESENTATION*: State of the art in the fields of strain gauge measurements and digital image correlation equipment
Presenter: Adrian TANASESCU, SPECTROMAS

9:30 *ORAL SESSION 1: Biomechanics & Structural analysis* - AUDITORIUM HALL, Conferences and Events Center, 2nd Floor
CHAIRMEN: Bernhard PICHLER, Lajos BORBÁS

Time	ID	Title	Authors	Presenter
9:30	49	EXPLORING EXPERIMENTALLY THE POTENTIALITIES OF PLATELET RICH PLASMA IN TREATING PELVIC ORGAN PROLAPSE	Stavros K. KOURKOULIS, Eleftheria L. CHRYSANTHOPOULOU, Vasileios PERGIALIOTIS, Despina N. PERREA, Stergios K. DOUMOCHTSIS, Chara SPILIOPOULOU	Stavros K. KOURKOULIS
9:50	22	BONE STRUCTURE INVESTIGATION IN A CASE OF AUTOSOMAL RECESSIVE OSTEOPETROSIS	Francesca COSMI, Natalia MAXIMOVA	Francesca COSMI
10:10	88	DISPLACEMENT-ENCODED MRI REVEALS ALTERED STRAIN PATTERNS IN ENZYMATICALLY DEGRADED CARTILAGE DURING CYCLIC COMPRESSION	Maria-Ioana PASTRAMA, Lianne ZEVENBERGEN, Nele FAMAEE, Willy GSELL, Corey P. NEU, Uwe HIMMELREICH, Ilse JONKERS	Maria-Ioana PASTRAMA
10:30	14	IMPACT ON A MICRO-REINFORCED UHPC: EXPERIMENTAL STUDIES VS. NUMERICAL MODELING	Astrid KOWITZ, Cheng-Chieh WU, Falk HILLE, Rosemarie HELMERICH, Daniel KADOKE, Klaus-Peter GRÜNDER, Stephan HAUSER, Henrik SCHWARZINGER	Astrid KOWITZ

10:50 COFFEE BREAK

11:10 *POSTER SESSION 1: Biomechanics & Structural analysis* - AUDITORIUM HALL, Conferences and Events Center, 2nd Floor
CHAIRMEN: Lovre KRSTULOVIC-OPARA, Mario GUAGLIANO

Time	ID	Title	Authors/Presenter	Presenter
11:10	11	PERFORMANCE MEASUREMENT OF SAILORS WITH CUSTOM HIKING BENCH AND MOTION TRACKING SYSTEM	Bernadett KISS, Rita KISS	Bernadett KISS
11:14	24	ANALYSING HUMAN BALANCE RECOVERY ACTION USING CALCULATED TORQUES OF A DOUBLE PENDULUM MODEL	Bernadett KISS, Balint PETRO, Rita M KISS	Balint PETRO
11:18	34	INVESTIGATION OF THE DESIGN ASPECTS OF RUNNING SUITS APPLYING MOTION ANALYSIS	Zsófia PÁLYA, Anna GULYÁS, Marianna HALÁSZ, Rita M KISS	Zsófia PÁLYA
11:22	62	HUMAN BALANCING IN THE SAGITTAL PLANE	Csenge A. MOLNÁR, Ambrus ZELEI, Tamás INSPERGER	Csenge A. MOLNÁR
11:26	30	3D-PRINTED ANKLE-FOOT ORTHOSIS: A DESIGN METHOD	Alberto DAL MASO, Francesca COSMI	Francesca COSMI
11:30	97	AUTOMATIC GUIDANCE OF BIOPSY CATHETER TO PERIPHERAL AIRWAYS TARGETS USING A NOVEL ROBOTIC SYSTEM	Lucian Gheorghe GRUIONU, Cătălin CONSTANTINESCU, Andreea ȘOIMU-IACOB, Cătălin CIOBÎRCĂ, Anca UDRISTOIU, Ștefan Dan PASTRAMĂ, Gabriel GRUIONU	Ștefan Dan PASTRAMĂ
11:34	74	STIFFNESS DETERMINATION IN STEEL SPECIMENS ORIGINATING FROM NEW AND DISCARDED TRAMWAY RAILS BY MEANS OF NANOINDENTATION	Valentin JAGSCH, Patricia HASSLINGER, Olaf LAHAYNE, Christian HELLMICH, Stefan SCHEINER	Patricia HASSLINGER
11:38	13	COMPARISON OF FRACTURE PROPERTIES OF STEEL PIPES	Ľubomír GAJDOŠ, Martin ŠPERL	Ľubomír GAJDOŠ
11:42	8	A SMALL-SCALE TEST BRIDGE FOR MEASUREMENT- AND MODEL-BASED STRUCTURAL ANALYSIS	Cheng-Chieh WU, Daniel KADOKE, Michael FISCHER, Harald KOHLHOFF, Sven WEISBRICH, Frank NEITZEL	Cheng-Chieh WU
11:46	31	NUMERICAL AND EXPERIMENTAL INVESTIGATION OF CONTACT LENGTH DURING ORTHOGONAL CUTTING	Szabolcs BEREZVAI, Tamas G. MOLNAR, Attila KOSSA, Daniel BACHRATHY, Gabor STEPAN	Szabolcs BEREZVAI
11:50	67	ROUTE TO THE AUTOMATIC IDENTIFICATION OF MODAL PARAMETERS	Zoltan LOVASZ, Zoltan DOMBOVARI	Zoltan LOVASZ
11:54	16	INVESTIGATING THE EFFECTS OF SEVERE SHOT PEENING ON PURE IRON	Sara BAGHERIFARD, Mauro Filippo MOLLA, Mario GUAGLIANO	Mario GUAGLIANO
11:58	57	EXPERIMENTAL APPROACH TO THE VERIFICATION OF NUMERICAL MODEL OF HYBRID MACHINE FOR CONSTRUCTION WORKS	Jakub ANDRUSZKO, Damian DERLUKIEWICZ, Mariusz STAŃCO	0
12:02	64	NUMERICAL AND EXPERIMENTAL ANALYSIS OF THE RUBBER BUMPER STIFFNESS	Mariusz STAŃCO, Paulina DZIAŁAK	Paulina DZIAŁAK
12:06	84	EXPERIMENTAL INVESTIGATION OF RESTITUTION COEFFICIENT FOR HYBRID COMPOSITES	Marcin OBSZAŃSKI, Marek MATYJEWSKI	Marek MATYJEWSKI
12:10	28	DESIGN OF COMMERCIAL HEXAGONAL HONEYCOMBS OF EQUAL OUT-OF-PLANE SHEAR MODULI	Ștefan SOROHAN, Dan Mihai CONSTANTINESCU, Marin SANDU, Adriana SANDU	Dan Mihai CONSTANTINESCU
12:14	60	METHODOLOGY OPTIMIZATION TESTS OF COMPOSITE ROTOR BLADES OF HELICOPTERS IN EXTREME CONDITIONS	Časlav B. MITROVIĆ, Nebojša PETROVIĆ, Goran VOROTOVIĆ, Mirjana OPAČIĆ	Mirjana OPAČIĆ
12:18	94	EXPERIMENTAL STRESS ANALYSIS OF A CANTILEVER BEAM	Ionuț GEONEA	Ionuț GEONEA
12:22	59	MEASURING THE AXIAL FORCE ON TURBO-JET ENGINE ROTOR	Nenad KOLAREVIĆ, Miloš STANKOVIĆ, Stevan CRNOJEVIĆ, Dušan MICKOVIĆ, Marko MILOŠ	Nenad KOLAREVIĆ
12:26	50	DAMAGE MONITORING OF DIFFERENT CONCENTRATION CARBON NANOTUBE/EPOXY GLASS FIBER REINFORCED COMPOSITES UNDER QUASI-STATIC INCREMENTAL LOADINGS	Ilona LAZARIDOU, Stavros K. KOURKOULIS, Nikolaos D. ALEXOPOULOS	Stavros K. KOURKOULIS

12:30 POSTER DISCUSSIONS - AUDITORIUM HALL LOBBY, Conferences and Events Center, 2nd Floor

13:00 LUNCH - PANORAMIC RESTAURANT

PROGRAM - WEDNESDAY 26 SEPTEMBER AFTERNOON

14:20 **SPONSOR PRESENTATION:** Current software tools for an efficient research process
Presenter: *Constantin CIOLOFAN*, INAS SA

14:30 **ORAL SESSION 2: Honorary Invited Lecture** - AUDITORIUM HALL, Conferences and Events Center, 2nd Floor
CHAIRMAN: *Nicolae ILIESCU*

Time	ID	Title	Authors	Presenter
14:30	73	EXPERIMENTING FOR KNOWING: EVOLUTION OF A CONCEPT IN TECHNICAL SCIENCE	Alessandro FREDDI	Alessandro FREDDI

14:50 **ORAL SESSION 3: Romanian Session** - AUDITORIUM HALL, Conferences and Events Center, 2nd Floor
CHAIRMEN: *Alessandro FREDDI, Attila KOSSA*

Time	ID	Title	Authors	Presenter
14:50	75	EXPERIMENTAL AND NUMERICAL STUDY ON THE BENDING STRENGTH OF A T-CORE SANDWICH PANEL	Adriana SANDU, Ștefan SOROHAN, Marin SANDU, Dan Mihai CONSTANTINESCU, Emil NUȚU	Emil NUȚU
15:10	46	DYNAMIC TEST OF A BRIDGE OVER THE DANUBE-BLACK SEA CHANNEL AT AGIGEA	Cristian Lucian GHINDEA, Radu Iuliu CRUCIAT, Ionuț Radu RĂCĂNEL	Cristian Lucian GHINDEA
15:30	58	EVALUATION OF HUMAN KNEE FLEXION-EXTENSION ON INCLINED TREADMILL USING WEARABLE SENSORS	Alin PETCU, Daniela TARNITA, Ionut GEONEA, Raluca MALCIU	Alin PETCU

15:50 COFFEE BREAK

16:10 **POSTER SESSION 2: Romanian Session** - AUDITORIUM HALL, Conferences and Events Center, 2nd Floor
CHAIRMEN: *Francesca COSMI, Zbigniew KOWALEWSKI*

Time	ID	Title	Authors	Presenter
16:10	4	S-N CURVE OF COMPOSITE SPECIMENS DETERMINED IN TENSION-TENSION FATIGUE TESTING	Ionel IACOB, Ionel CHIRICA, Elena-Felicia BEZNEA	Ionel IACOB
16:14	2	ESTIMATIONS OF THE SHIP HULL OSCILLATIONS	Dumitru LUPASCU, Ionel CHIRICA, Elena-Felicia BEZNEA, Mihaela BARCAN (SAVIN)	Mihaela BARCAN (SAVIN)
16:18	3	SHIPS'S HULL STRUCTURAL SAFETY ESTIMATION	Dumitru LUPASCU, Ionel CHIRICA, Liviu-Dan STOICESCU, Mihaela BARCAN (SAVIN)	Mihaela BARCAN (SAVIN)
16:22	29	EXPERIMENTAL AND NUMERICAL EVALUATION OF WAVE IMPACT STRESS ON A COMPOSITE BOAT HULL	Adrian CARAMATESCU, Costel Iulian MOCANU	Adrian CARAMATESCU
16:26	33	IMPACT RESPONSE OF SANDWICH PANELS WITH POLYURETHANE AND POLYSTYRENE CORE AND COMPOSITE FACESHEETS	Oana Alexandra MOCIAN, Dan Mihai CONSTANTINESCU, Marin SANDU, Ștefan SOROHAN, Dorin ROȘU, Michael FEUCHTER	Oana Alexandra MOCIAN
16:30	43	EXPERIMENTAL STUDIES ON UNIAXIAL AND ECHIBIAXIAL TENSILE TESTS APPLIED TO PLASTIC MATERIALS SHEETS	Adrian PASCU, Mihaela OLEKSIK, Nicolae ROȘCA, Eugen AVRIGEAN, Valentin OLEKSIK	Adrian PASCU
16:34	44	OPTICAL STUDY FOR SPRINGBACK PREDICTION, THICKNESS REDUCTION AND FORCES VARIATIONS ON SINGLE POINT INCREMENTAL FORMING	Nicolae ROȘCA, Valentin OLEKSIK, Adrian PASCU, Mihaela OLEKSIK, Eugen AVRIGEAN	Valentin OLEKSIK
16:38	47	FINITE ELEMENT STUDY ON THE STRESS STATE ACROSS THE THICKNESS OF A CURVED LAMINATE	Marius Nicolae BABA	Marius Nicolae BABA
16:42	52	DYNAMIC TESTS PERFORMED ON FLAT FREIGHT WAGON	Nicușor Laurențiu ZAHARIA, Alexandru Ionuț PĂTRAȘCU, Dan Mihail COSTESCU	Dan Mihail COSTESCU
16:46	53	STATIC TESTS ON A RAILWAY VEHICLE BODY BEFORE BOGIE REPLACEMENT	Nicușor Laurențiu ZAHARIA, Dan Mihail COSTESCU, Elvis Georgian ZIDARU, Stefan Dan PASTRAMA	Elvis Georgian ZIDARU
16:50	54	EXPERIMENTAL STRESS ANALYSIS OF A RAILWAY CAR USING A DEDICATED TEST RIG	Elvis-Georgian ZIDARU, Alexandru PĂTRAȘCU, Nicușor-Laurențiu ZAHARIA, Anton HADĂR	Elvis-Georgian ZIDARU
16:54	55	EXPERIMENTAL STRESS ANALYSIS ON RAILWAY VEHICLE BODY	Alexandru Ionuț PĂTRAȘCU, Nicușor Laurențiu ZAHARIA, Elvis Georgian ZIDARU, Anton HADĂR	Alexandru Ionuț PĂTRAȘCU
16:58	56	NONLINEAR DYNAMICS OF HUMAN KNEE JOINT DURING JUMPS	Daniela TARNIȚĂ, Dan MARGHITU, Alin PETCU	Daniela TARNIȚĂ
17:02	61	EXPERIMENTAL STUDY OF THE DYNAMIC RESPONSE OF A CABLE UNDER WIND FLOW	Vlad Daniel URDĂREANU, Ionuț Radu RĂCĂNEL, Mircea DEGERATU, Costin Ioan COSOIU, Cristian Lucian GHINDEA, Radu Iuliu CRUCIAT	Vlad Daniel URDĂREANU
17:06	85	COMPARATIVE RESULTS OF MILLING STRATEGIES IMPLEMENTATION	Adrian BUT, Radu Marian CĂNARACHE	Adrian BUT
17:10	87	STRENGHT OF BRIDGE STRUCTURES: A STUDY	Mihai-Liviu BĂIAȘU, Diana-Ionela SANDU, Marilena MANEA, Andrei-Mădălin GRIGORE	Andrei-Mădălin GRIGORE
17:14	89	EXPERIMENTAL STUDIES OF A BRIDGE MADE FROM REINFORCED CONCRETE BEAMS - BRIDGE OF TRANSILVANIA HIGHWAY	Polidor BRATU, Ovidiu VASILE, Cătălin ZAHARIA	Polidor BRATU
17:18	90	EVALUATION OF ELASTOMERIC STRUCTURAL BEARINGS PERFORMANCE BASED ON NATURAL SCALE TESTS	Polidor BRATU, Ovidiu VASILE, Sorin POPA	Sorin POPA
17:22	91	ASSESSMENT OF SOIL STRENGTH AND DEFORMABILITY PARAMETERS IN LABORATORY CONDITIONS	Cornelia-Florentina DOBRESCU, Oana Tonciu	0
17:26	92	SPECIALISED TESTS FOR THE ASSESSMENT AND CLASSIFICATION OF SAFES FOR THE VALUES PROTECTION, FROM THE SECURITY IN USE POINT OF VIEW	Cristinel SEBE, Cătălin ZAHARIA, Sorin POPA	Sorin POPA
17:30	93	STATIC AND DYNAMIC TESTS FOR DETERMINING THE CHARACTERISTIC PERFORMANCE OF MECHANICAL SPLICES IN REINFORCED CONCRETE	Ovidiu VASILE, Oana TONCIU	Ovidiu VASILE
17:34	96	THREE-POINT BENDING BEHAVIOUR OF ORGANIC MODIFIED COMPOSITES	Cristian MUNTENIȚĂ, Marian Sebastian DRĂGHICI, Violeta SAVA, Vasile BRIA, Adrian CÎRCIUMARU, Iulia GRAUR	Iulia GRAUR

17:38 POSTER DISCUSSIONS - AUDITORIUM HALL LOBBY, Conferences and Events Center, 2nd Floor

18:30 MEETING OF THE SCIENTIFIC COMMITTEE - COLOCVIUM HALL, Conferences and Events Center, 2nd Floor

19:30 DINNER - PANORAMIC RESTAURANT

PROGRAM - THURSDAY 27 SEPTEMBER

9:00 VISIT OF PELES CASTLE

13:00 LUNCH - PANORAMIC RESTAURANT

14:30 **ORAL SESSION 4: Structural analysis & Materials characterization and testing** - AUDITORIUM HALL, Conferences and Events Center, 2nd Floor
CHAIRMEN: Werner DAUM, Paweł PYRZANOWSKI

Time	ID	Title	Authors	Presenter
14:30	32	A METHOD FOR STRAIN ANALYSES OF SURFACES WITH CURVED BOUNDARIES BASED ON MEASURED DISPLACEMENT FIELDS	Thomas LEHMANN, Martin STOCKMANN, Jörn IHLEMANN	Thomas LEHMANN
14:50	12	INVESTIGATION OF THE SHRINKAGE BEHAVIOR OF CONCRETE CONSIDERING THE MOISTURE CONTENT	Stefan SMANIOTTO, Martin DREXEL, Günter HOFSTETTER	Stefan SMANIOTTO
15:10	23	DAMAGE OBSERVATION IN GLASS FIBER REINFORCED COMPOSITES VIA μ -TOMOGRAPHY	Zvonimir TOMIČEVIĆ, Amine BOUTERF, Robert SURMA, François HILD	Zvonimir TOMIČEVIĆ
15:30	40	CHARACTERIZATION OF A CORK-RUBBER COMPOSITE USING ADVANCED MATERIAL MODELS	Jiří KOCÁB, Radek KOTTNER, Attila KOSSA	Jiří KOCÁB

15:50 COFFEE BREAK

16:10 **POSTER SESSION 3: Materials characterization and testing & Numerical methods & Practical applications/Case studies/ Instrumentation** - AUDITORIUM
CHAIRMEN: Robert ZEMČÍK, Martin STOCKMANN

Time	ID	Title	Authors	Presenter
16:10	37	WATER PERMEABILITY OF HOT MIX ASPHALT	Daniel STEINER, Bernhard HOFKO	Daniel STEINER
16:14	39	ON THE COMPRESSIBILITY OF RUBBER: EXPERIMENTS AND THEORETICAL CONSIDERATIONS	Robert PLACHY, Stefan SCHEINER, Krzysztof W. LUCZYNSKI, Armin HOLZNER, Christian HELLMICH	Robert PLACHY
16:18	45	MICRO- AND MACROSCOPIC CHARACTERIZATION OF GRANITE	Josef EBERHARDSTEINER, Sophie SCHMID, Olaf LAHAYNE, Roland REIHSNER, Bernhard PICHLER	Bernhard PICHLER
16:22	70	EFFECT OF AS-CAST SURFACE LAYER ON ALUMINIUM ALLOY FATIGUE STRENGTH	Sebastian POMBERGER, Martin LEITNER, Michael STOSCHKA	Sebastian POMBERGER
16:26	71	EARLY-AGE CHARACTERIZATION AND MULTIS-SCALE MODELING OF POLYMER-MODIFIED CEMENT PASTES	Luise GÖBEL, Markus KÖNIGSBERGER, Andrea OSBURG, Bernhard PICHLER	Bernhard PICHLER
16:30	95	DETERMINING THE EMISSIVITY FACTOR OF THERMOPLASTIC MATERIALS FOR A THERMOPLASTIC BENDING PROCESS	Martin KLINGENBRUNNER, Julia PLATZER, Friedrich BLEICHER	Julia PLATZER
16:34	19	TOUGHNESS TESTS OF TOOL STEELS FOR WORK AT LOW TEMPERATURE	Željko DOMAZET, Francisko LUKŠA, Petra BAGAVAC	Željko DOMAZET
16:38	21	INFRARED THERMOGRAPHY OF STEEL STRUCTURE BY FFT	Petra BAGAVAC, Lovre KRSTULOVIĆ-OPARA, Željko DOMAZET	Lovre KRSTULOVIĆ-OPARA
16:42	36	A NEW SURFACE PREPARATION METHOD FOR MICROSCOPIC DIGITAL IMAGE CORRELATION APPLICATIONS	Edgar PERETZKI, Martin STOCKMANN, Thomas LEHMANN, Jörn IHLEMANN	Edgar PERETZKI
16:46	41	DYNAMIC TESTING OF A SPECIMEN SETUP FOR COMBINED HIGH PRECISION UNIAXIAL TENSION-COMPRESSION TESTS OF RUBBER	Lars KANZENBACH, Erik OELSCH, Thomas LEHMANN, Jörn IHLEMANN	Lars KANZENBACH
16:50	78	APPRECIABLE CROSS SECTION REDUCTION UPON MODERATE INTRADOS BENDING STRESS INCREASE IN CURVED BEAMS	Antonio STROZZI, Enrico BERTOCCHI, Sara MANTOVANI	0
16:54	79	DETECTION OF SURFACE DAMAGE USING RESISTANCE TOMOGRAPHY IN THIN GRAPHENE LAYER	Marek STEPNOWSKI, Paweł PYRZANOWSKI	Paweł PYRZANOWSKI
16:58	65	EXPERIMENTAL DETERMINATION OF FATIGUE PROPERTIES AND ε -N CURVES FOR S355J2+N STEEL GRADE	Vladimir MILOVANOVIĆ, Miroslav ŽIVKOVIĆ, Gordana JOVIČIĆ	Vladimir MILOVANOVIĆ
17:02	83	STUDY REGARDING THE GEOMETRICAL DEVIATIONS FOR 3D PRINTED FUNCTIONAL PARTS	Samuel PUȘCAȘU, Radu Emanuil PETRUSE, Adrian PASCU, Ioan BONDREA	Samuel PUȘCAȘU
17:06	72	SEISMIC CALCULATION FOR GENERATOR PROTECTION PANEL	Paweł MAŚLAK, Jerzy CZMOCHOWSKI, Tadeusz SMOLNICKI	Paweł MAŚLAK
17:10	51	1:60 SCALED EARTHQUAKE TESTING OF THE IMMERSSED TUNNEL OF THE HONG KONG-ZHUHAI-MACAO-BRIDGE	Eva BINDER, Chong LI, Herbert MANG, Yong YUAN, Bernhard PICHLER	Eva BINDER
17:14	86	ASSESSMENT OF GRINDING WHEEL WEAR VIA MONITORING OF PROCESS POWER	Clemens SCHWAIGER, Matthias HACKSTEINER, Friedrich BLEICHER	Clemens SCHWAIGER
17:18	48	COMPARISON OF COOLING SIMULATIONS OF INJECTION MOULDING TOOLS CREATED WITH CUTTING MACHINING AND ADDITIVE MANUFACTURING	József Bálint RENKÓ, Dávid Miklós KEMÉNY, József NYIRŐ, Dorina KOVÁCS	József Bálint RENKÓ
17:22	63	CUTTING FORCE MEASUREMENT FROM ACCELERATION SENSOR IN MILLING OPERATION	Adam K KISS, Daniel BACHRATHY, Gabor STEPAN	Adam K KISS
17:26	68	EXAMINATION OF THE INTERMODAL TRAILER FRAME IN ACCORDANCE WITH UIC 596-5	Jacek KARLIŃSKI, Paulina DZIAŁAK	Paulina DZIAŁAK
17:30	76	DESIGN THINKING IN NUMERICAL AND EXPERIMENTAL EVALUATION OF THE STRUCTURE OF CONSTRUCTION ROBOT	Damian DERLUKIEWICZ, Jakub ANDRUSZKO	0
17:34	81	HARDWARE IN THE LOOP SIMULATION FOR HOMING MISSILES	Ivana TODIĆ, Vladimir KUZMANOVIĆ	Vladimir KUZMANOVIĆ

17:38 POSTER DISCUSSIONS - AUDITORIUM HALL LOBBY, Conferences and Events Center, 2nd Floor

19:30 GALA DINNER - PANORAMIC RESTAURANT

PROGRAM - FRIDAY 28 SEPTEMBER

9:00 **ORAL SESSION 5: Materials characterization and testing & Practical applications/Case studies/ Instrumentation** - AUDITORIUM HALL, Conferences and Events
CHAIRMEN: Milan RŮŽIČKA, Miroslav ŽIVKOVIČ

Time	ID	Title	Authors	Presenter
9:00	69	YIELDING AND STRAIN LOCALIZATION EFFECTS IN GUM METAL - A UNIQUE TI ALLOY - INVESTIGATED BY DIGITAL IMAGE CORRELATION AND INFRARED THERMOGRAPHY	Elżbieta A. PIECZYSKA, Karol GOLASIŃSKI, Michał MAJ, Maria STASZCZAK, Zbigniew KOWALEWSKI, Tadahiko FURUTA, Shigeru KURAMOTO	Elżbieta A. PIECZYSKA
9:20	27	EXPERIMENTAL DYNAMICAL ANALYSIS OF SPECIMENS' MATERIAL PROPERTIES MANUFACTURED BY ADDITIVE TECHNOLOGIES	Bálint Ádám KOVÁCS, Peter FICZERE, Lajos BORBÁS	Lajos BORBÁS
9:40	5	SUPERSONIC TEST CASES AT HIGH ANGLES OF ATTACK	Dijana DAMLJANOVIĆ, Đorđe VUKOVIĆ, Jovan ISAKOVIĆ, Marko MILOŠ	Dijana DAMLJANOVIĆ
10:00	20	OPTIMIZATION OF LASER BEAM CUTTING PARAMETERS OF HIGH DENSITY COMPOSITE FIBRE CEMENT FLAT BOARD	László MOLNÁR, Tamás CSISZÉR, Lajos BORBÁS, Levente László BOGNÁR	László MOLNÁR

10:20 COFFEE BREAK

10:40 **POSTER SESSION 4: Materials characterization and testing & Practical applications/Case studies/ Instrumentation** - AUDITORIUM HALL, Conferences and Events Center, 2nd Floor
CHAIRMEN: Stavros KOURKOULIS, Marko MILOŠ

Time	ID	Title	Authors	Presenter
10:40	6	CONCEPT OF A GAS-SENSITIVE NANO AERIAL ROBOT SWARM FOR INDOOR AIR QUALITY MONITORING	Patrick P. NEUMANN, Dino HÜLLMANN, Matthias BARTHOLMAI	Patrick P. NEUMANN
10:44	7	MULTI-INTERVAL LOAD CELL WITH STEPLESS AUTOMATIC RANGE TRANSITION ACCORDING THE WEIGHT	Martin STOCKMANN, Thomas LEHMANN, Jörn IHLEMANN	Martin STOCKMANN
10:48	9	CONTROL OF A SPHERICAL PARALLEL MANIPULATOR WITH THREE DEGREES OF FREEDOM	Dino HÜLLMANN, Harald KOHLHOFF, Jessica ERDMANN, Patrick P. NEUMANN	Patrick P. NEUMANN
10:52	15	PASSIVE RFID TRANSPONDER – LOW-POWER MULTI-SENSOR INTERFACE FOR STRUCTURAL HEALTH MONITORING IN CONCRETE	Sergej JOHANN, Christoph STRANGFELD, Omid CHAHARDEHINEJAD, Matthias BARTHOLMAI	Sergej JOHANN
10:56	26	APPLICATION OF AN ELECTRIC CONTACT SENSOR IN MACHINING	David HAJDU, Daniel BACHRATHY, Tamas INSPERGER, Gabor STEPAN	David HAJDU
11:00	77	IMPROVED SPINDLE SPEED MEASUREMENT BY ANALOGUE SENSOR	Daniel BACHRATHY	Daniel BACHRATHY
11:04	82	KEY FACTORS TOWARDS A HIGH QUALITY ADDITIVE MANUFACTURING PROCESS	Radu Emanuil PETRUSE, Samuel PUȘCAȘU, Adrian PĂSCU, Ioan BONDREA	Radu Emanuil PETRUSE
11:08	1	TOW TRUCK FRAME MADE OF HIGH STRENGTH STEEL UNDER CYCLIC LOADING	Tadeusz SZYMCZAK, Adam BRODECKI, Katarzyna MAKOWSKA, Zbigniew L. KOWALEWSKI	Zbigniew L. KOWALEWSKI
11:12	42	FATIGUE DAMAGE PREDICTION OF NOTCHED SAMPLES	Liviu Daniel PÎRVULESCU, Anghel CERNESCU	0
11:16	80	ANISOTROPY OF PERIODIC MICROSTRUCTURE IN MODELS OF UNIDIRECTIONAL COMPOSITE MATERIALS	Robert ZEMČÍK, Hana ZEMČÍK, Tomáš KROUPA	Robert ZEMČÍK
11:20	25	ELASTIC-PLASTIC CHARACTERIZATION OF 2024-T351 ALUMINUM MATERIAL BASED ON RING COMPRESSION TEST, BENDING TEST AND UNIAXIAL TENSION/COMPRESSION TESTS	Attila KOSSA, Gabor STEPAN	Attila KOSSA
11:24	10	MICROMECHANICAL ANALYSIS OF FIBER SPATIAL DISTRIBUTION INFLUENCE IN UNIDIRECTIONAL COMPOSITE CROSS-SECTION ON OVERALL RESPONSE IN TERMS OF TENSILE CURVES	Tomáš KROUPA, Hana ZEMČÍK, Robert ZEMČÍK	Tomáš KROUPA
11:28	35	MECHANICAL PROPERTIES OF COMPOSITE STRUCTURAL PARTS FOR MACHINE TOOLS	Milan RŮŽIČKA, Viktor KULÍŠEK, Pavel VRBA, Jan SMOLÍK, Zdeněk POŠVÁŘ	Milan RŮŽIČKA
11:32	38	VALIDATION OF IDENTIFIED MATERIAL PARAMETERS OF RUBBER USING AN ARCAN SHEAR TEST	Radek KOTTNER, Jan HECZKO, Jan KRYSTEK	Radek KOTTNER
11:36	66	EXPERIMENTAL DETERMINATION OF STRAIN HARDENING EXPONENT FOR STREX 700	Aleksandar DIŠIĆ, Miroslav ŽIVKOVIČ, Vladimír MILOVANOVIĆ	Miroslav ŽIVKOVIČ
11:40	17	COMPARISONS BETWEEN SOME COMPOSITE MATERIALS REINFORCED WITH HEMP FIBERS	Cosmin Mihai MIRIȚOIU, Cristian Oliviu BURADA, Marius Marinel STĂNESCU, Dumitru BOLCU, Adriana PĂDEANU, Alexandru BOLCU	Cosmin Mihai MIRIȚOIU
11:44	18	STATIC AND DYNAMIC MECHANICAL PROPERTIES OF A NEW GREEN RESIN BASED ON DAMMAR	Cosmin Mihai MIRIȚOIU, Marius Marinel STĂNESCU, Alexandru BOLCU, Dumitru BOLCU, Cristian Oliviu BURADA, Valeriu IONICĂ	Cosmin Mihai MIRIȚOIU

11:48 POSTER DISCUSSIONS - AUDITORIUM HALL LOBBY, Conferences and Events Center, 2nd Floor

12:30 CLOSING CEREMONY - AUDITORIUM HALL, Conferences and Events Center, 2nd Floor

13:00 LUNCH - TIROL RESTAURANT