

32nd DANUBIA-ADRIA SYMPOSIUM ON ADVANCES IN EXPERIMENTAL MECHANICS

September 22 – 25, 2015
Starý Smokovec – High Tatras, Slovakia

PROGRAM



www.das-2015.com / danubia.adria@fstroj.uniza.sk

Symposium Venue

Grand Hotel Bellevue

High Tatras – Slovakia
 Starý Smokovec
 062 01 Vysoké Tatry

<http://www.hotelbellevue.sk/>



Instructions

Oral presentation

Oral presentations will be held 15 minutes including discussion. Please give us the presentation to a symposium notebook during your registration at the registration desk.

Poster presentation

Poster presentations will be held 3 minutes. Poster discussion will be held near the poster in foyer in front of congress hall. Please give us the poster presentation to a symposium notebook during your registration at the registration desk.

Social program

Tuesday - September 22, 2015

19:00 – 20:30 Welcome reception in the Savarin restaurant (near the Grand Hotel Bellevue reception)

Wednesday – September 23, 2015

19:30 – 20:30 Scientific Committee meeting in the Silver lounge

Thursday – September 24, 2015

08:30 – 13:00 Excursion - Sightseeing Tour: Old Royal City Kežmarok. Buses leave at 08:30 sharp in front of the Grand Hotel Bellevue. The coming time to Kežmarok will be about 09:00. Take all of your things from your bus, because you will be travel with the other bus after sightseeing tour. The sightseeing of the historical centre of Old Royal City Kežmarok – 09:00 ÷ 12:00. Comfortable footwear is advised. Bus departure to the Grand Hotel Bellevue will be at 12:00 from parking place.

19:30 – 22:30 Symposium Gala Dinner

The symposium dinner will be in the Outlaw Shed – Stará Lesná. Buses leave at 19:15 sharp in front of the Grand Hotel Bellevue. The coming time to Stará Lesná will be about 19:45. Bus departure to the Grand Hotel Bellevue will be at 22:30 in front of the Outlaw Shed.

Friday – September 25, 2015

12:30 – 13:00 Closing ceremony in the Congress Hall.

32nd DANUBIA-ADRIA SYMPOSIUM
on Advances in Experimental Mechanics

Organized by:

University of Žilina, Žilina, Slovak Republic

Co-organized by:

Austrian Society of Experimental Strain Analysis (ASESA)
Committee for Mechanics the Polish Academy of Sciences (KMPAM)
Croatian Society of Mechanics (HDM)
Czech Society of Mechanics (CSM)
German Society of Experimental Structural Analysis (GESA)
Hungarian Scientific Society of Mechanical Engineering (GTE)
Italian Association for Stress Analysis (AIAS)
Romanian Association for Stress Analysis (ARTENS)
Serbian Society of Mechanics (SSM)
Slovak Society of Mechanics (SSM)
Slovenian Society of Experimental Mechanics (SSEM)

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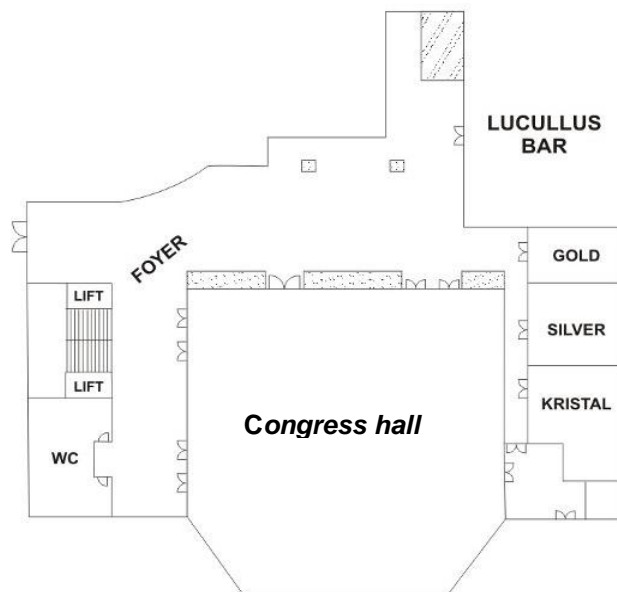
GENERAL PROGRAM

Day	Time	Event	Location
TUESDAY Sept. 22, 2015	15.00 – 19.00 19.00 – 20.30	Registration Welcome reception	Grand Hotel Bellevue
WEDNESDAY Sept. 23, 2015	08.30	Registration	Grand Hotel Bellevue
	09.00 – 09.15	Opening ceremony	Grand Hotel Bellevue
	09.15 – 10.00	Plenary lectures PL 1	
	10:00 – 11.30	Poster oral introduction – A	
	11.30 – 11.50	Coffee break	
	11.50 – 12.30	Poster exhibition and discussion - A	
	12.30 – 14.00	Lunch	
	14.00 – 14.45	Plenary lectures PL 2	
	14.45 – 16.15	Poster oral introduction - B	
	16.15 – 16.45	Coffee break	
16.45 – 17.30	Poster exhibition and discussion - B		
18:00 – 19.30	Dinner		
19.30 – 20.30	Scientific Committee meeting		
THURSDAY Sept. 24, 2015	08.30	Departure for excursion - Sightseeing Tour	Old Royal City Kežmarok
	13.00	Arrival from excursion	Grand Hotel Bellevue
	13.00 – 14.30	Lunch	
	15.00 – 15.45	Plenary lectures PL 3	
	15:45 – 17.30	Poster oral introduction - C	
	17.30 – 17.50	Coffee break	
	17.50 – 18.30	Poster exhibition and discussion - C	
19.30 – 22.30	Symposium Gala Dinner		
FRIDAY Sept. 25, 2015	09.00 – 10.00	Plenary lectures PL 4	Grand Hotel Bellevue
	10.00 – 11:10	Poster oral introduction - D	
	11.10 – 11.35	Coffee break	
	11.35 – 12.15	Poster exhibition and discussion - D	
	12.15 – 12.30	Invitation for DAS 2016, Slovenia	
	12.30 – 13.00	Closing ceremony	
	13.00 – 14.00	Lunch	

Note: Details are in the following pages !!!

SYMPOSIUM LOCATIONS

- Symposium registration – **Grand Hotel Bellevue**
- Accommodation – **Grand Hotel Bellevue**
- Breakfast – **Grand Hotel Bellevue**
- Lunches, dinners, welcome reception – **Grand Hotel Bellevue**
- Symposium Gala Dinner – **Outlaw shed, Stará Lesná**
- Coffee breaks – **Grand Hotel Bellevue**
- All the technical sessions of DAS (plenary lectures, poster oral introduction, poster exhibition and discussion) incl. opening and closing ceremony will be held in the **Congress hall - Grand Hotel Bellevue**
- Scientific Committee meetings will be held in the **Silver lounge - Grand Hotel Bellevue**



TECHNICAL PROGRAM

Wednesday, Sept. 23, 2015

09:15 – 12:30

Plenary Lectures 1

Chairman: Otakar Bokůvka

TIME	AUTHORS	TITLE
09.15 09.30	ALEN OSELI ALEXANDRA AULOVA IGOR EMRI	TIME-TEMPERATURE SUPERPOSITION IN LINEAR AND NON-LINEAR DOMAIN
09.30 09.45	ATTILA KOSSA SZABOLCS BEREZVAI	VISCO-HYPERELASTIC CHARACTERIZATION OF POLYMERIC FOAM MATERIALS
09.45 10.00	GRZEGORZ LESIUK JÓZEF RABIEGA	APPLICATIONS OF THE FRP COMPOSITE DECKS IN BRIDGES STRUCTURES

Poster Session A

Chairman: Martin Stockmann; František Plánička

Poster mounting: 08.30 – 09.00

Poster dismantling: 12.30 - 13.00

Oral introduction

Time	Poster No.	Authors	Title
	18	NORBERT KROUZECKY BORIS HUBER	MODULAR EXAMINATION CONCEPT USING THE EXAMPLE OF THE TESTS OF THE PORT OF ENNS
	19	THOMAS SCHLAPPAL MICHAEL SCHWEIGLER ROLAND REIHSNER WOLFGANG DÖRNER JOSEF EBERHARDSTEINER BERNHARD PICHLER	STRUCTURAL BEHAVIOR OF AN ECCENTRICALLY COMPRESSED CONCRETE HINGE
10.00 11.30	20	ROSEMARIE HELMERICH BORIS MILMANN	REINFORCEMENT CORROSION DETECTION WITH ULTRASONIC ECHO IN CONCRETE BEFORE CRACKING
	21	KLAUS BRANDES WERNER DAUM DETLEF HOFMANN FRANK BASEDAU PETRA KUBOWITZ	INNOVATIVE STRUCTURAL DAMAGE DETECTION OF BRIDGES BY LEAST SQUARES ADJUSTMENT WITH CONSTRAINTS
	22	EDIT GÁBOR IMRE BOJTÁR	NUMERICAL HOMOGENIZATION OF CONCRETE BASED ON COMPUTED TOMOGRAPHY SCANNING
	23	PAWEŁ KUCHARSKI GRZEGORZ LESIUK	NUMERICAL INVESTIGATION OF THE MIXED MODE FRACTURE (I+II) IN LOW CARBON STEEL USED IN BRIDGE ENGINEERING

	DÓRA KÁROLY	
1	DAFNI CHARALAMBOUS BETTINA POGÁCSÁS MICSIK TAMÁS	PREPARATION METHOD FOR INVESTIGATION OF EXPLANTED CORONARY STENTS
3	AGNIESZKA SZUST MAŁGORZATA ŁUKASIEWICZ	STRUCTURAL AND MECHANICAL STUDIES ON DENTAL ALLOYS
4	MAJA BEREZOWSKA MONIKA E. DANIELEWSKA JERZY DETYNA AGNIESZKA ANTOŃCZYK ZDZISŁAW KIEŁBOWICZ	IN-VIVO MEASUREMENTS OF CORNEAL PULSE IN RABBIT. AN ANIMAL MODEL OF HUMAN OCULAR PULSE
5	MAGDALENA TOMANIK JAROSŁAW FILIPIAK	PROPERTIES OF HUMAN TRABECULAR BONE TISSUE IN PROGRESSIVE DEGENERATIVE JOINT DEASE
6	HORIA PETRESCU EMIL NUTU DANIEL VLASCEANU LUCIAN GRUIONU STEFAN DAN PASTRAMA	DEVELOPMENT OF A FINITE ELEMENT MODEL FOR LUNG TUMOR DISPLACEMENTS DURING BREATHING
7	VIERA ZATKALÍKOVÁ PETER PALČEK LENKA MARKOVIČOVÁ MÁRIA CHALUPOVÁ	STRUCTURAL AND FRACTOGRAPHIC ANALYSIS OF Ti6Al4V DENTAL IMPLANT FRACTURED AT A CUTTING PROCESS
10.00 11.30	8 MICHAŁ KOWALI JUSTYNA PYRZANOWSKA AGNIESZKA PIECHAL KAMILLA BLECHARZ-KLIN EWA WIDY-TYSZKIEWICZ KAROL SUPRYNOWICZ PAWEŁ PYRZANOWSKI	EXPERIMENTAL INVESTIGATION ON RAT'S ARTERIES' MECHANICAL BEHAVIOR IN HOOP DIRECTION
91	FRANCESCA COSMI CAMILLA RAVALICO MAGDALENA TOMANIK	PRELIMINARY DESIGN OF AN X-RAY IMAGING SYSTEM FOR THE BONE STRUCTURAL INDEX EVALUATION
11	RICHARD ZEMANN FRIEDRICH BLEICHER	MANUFACTURING OF THREADS IN A CARBON FIBRE REINFORCED POLYMER
12	BEATA BORAK AGATA CZERNUSZEWICZ JACEK ĆWIK JERZY KALETA YURI KOSHKID'KO DANIEL LEWANDOWSKI	INVESTIGATIONS INTO THE MAGNETOCALORIC EFFECT IN POLYMER-BONDED NIMNIN COMPOSITE
13	CHRISTOPH NAUMANN MARTIN RUDOLPH MARTIN STOCKMANN	DEGREE OF CURE DEFINITION FOR AN EPOXY RESIN BASED ON THERMAL DIFFUSIVITY MEASUREMENTS
14	ALEXANDRA AULOVA CRISPULO GALLEGOS IGOR EMRI	ABSORPTIVE PROPERTIES OF PA6 AS DRUG DELIVERY CONTAINER
15	PAVEL OBLAK JOAMIN GONZALEZ-GUTIERREZ BARBARA ZUPANČIČ ALEXANDRA AULOVA IGOR EMRI	MECHANICAL PROPERTIES OF EXTENSIVELY RECYCLED HIGH DENSITY POLYETHYLENE (HDPE)

10.00 11.30	16	LENKA MARKOVIČOVÁ VIERA ZATKALÍKOVÁ	COMPOSITE MATERIALS BASED ON PA REINFORCED GLASS FIBERS
11.50 12.30	Poster exhibition and discussion		

14:00 – 17:30

Plenary Lectures 2

Chairman: Werner Daum

Time	Authors	Title
14.00 14.15	GEORG HOCHREINER JOSEF FÜSSL JOSEF EBERHARDSTEINER	GLULAM – EXPERIMENTAL CHARACTERISATION OF LOCAL STIFFNESS AND FAILURE MODES BY DIC
14.15 14.30	TADEUSZ SZYMCZAK ZBIGNIEW L. KOWALEWSKI ADAM BRODECKI	DETERMINATION OF ARTIFICIAL DEFECTS ON MATERIAL BEHAVIOUR IN MONOTONIC TENSION BY THE USE OF FEM AND DIC METHODS
14.30 14.45	ANDRZEJ KICZKO TADEUSZ NIEZGODA WIESŁAW BARNAT PAWEŁ DZIEWULSKI TOMASZ KULA SŁAWOMIR DZIENIS MICHAŁ KARKOWSKI DAWID KUCHARSKI	THE SELECTED CRASH CUSHION MODIFICATIONS UNDER NUMERICAL INVESTIGATION

Poster Session B

Chairman: Lovre Krstulović - Opara; Lajos Borbas

Poster mounting: 13.30 – 14.00

Poster dismantling: 17.30

Oral introduction

Time	Poster No.	Authors	Title
	27	MICHAEL SCHWEIGLER THOMAS K. BADER GEORG HOCHREINER JOSEF EBERHARDSTEINER	EXPERIMENTAL CHARACTERIZATION OF DOWEL CONNECTIONS BEYOND THE ELASTIC DOMAIN
	28	WOLFGANG HABEL HELMUT WENZEL	IMPROVED RELIABILITY AND EFFICIENCY OF SHM SYSTEMS BY ADVANCED STANDARDIZATION
14.45 16.15	29	JUERGEN VOGEL KRISTIN RUDOLPH HANS-JUERGEN FEIGE JENS SAUPE JUERGEN GRIMM RIGO HEROLD	MICROTENSILE TEST OF HARMNST POLYMERS – DOWNSCALED IN DIMENSION
	30	PATRICK P. NEUMANN SEBASTIAN EBERT DETLEF LAZIK MATTHIAS BARTHOLMAI	INVERSE CALIBRATION ROUTINE FOR LINEAR SOIL GAS SENSORS
	31	MATTHIAS BARTHOLMAI MICHAEL KAMMERMEIER TABEA WILK KLAUS-DIETER WERNER	HIGH DYNAMIC MEASUREMENT OF STRAIN AND ACCELARATION USING A MULTICHANNEL MEASURING SYSTEM WITH SINGLE CABLE SERIAL CONNECTION

	SUSANN HANNUSCH MARTIN STOCKMANN JÖRN IHLEMANN	EXPERIMENTAL METHOD FOR RESIDUAL STRESS ANALYSIS WITH FIBRE BRAGG GRATING SENSORS
	LARS KANZENBACH MARTIN STOCKMANN JÖRN IHLEMANN	EXTENSION OF THE TESTING MACHINE CONTROL FOR HIGH-PRECISION UNIAXIAL TENSION MEASUREMENTS
	SERGEJ PETROV PATRICK P. NEUMANN KLAUS-DIETER WERNER DETLEF LAZIK MATTHIAS BARTHOLMAI	CONCEPT FOR INVESTIGATING MECHANICAL IMPACTS ON DISTRIBUTED SUBSURFACE GAS MONITORING
	CHENG-CHIEH WU SVEN WEISBRICH FRANK NEITZEL	INVERSE FINITE ELEMENT ADJUSTMENT OF MATERIAL PARAMETERS FROM INTEGRATED ANALYSIS OF DISPLACEMENT FIELD MEASUREMENT
	MARKUS HILL WOLFGANG KILLIAN STEPHAN ODENWALD	MEASUREMENT SYSTEM FOR PRESSURE DISTRIBUTION WITH FUNCTIONAL ADAPTION OF EFFECTIVE RANGE FOR STATIC AND DYNAMIC LOADING CONDITIONS
	BILJANA ILIĆ MIRKO MILOSAVLJEVIĆ JOVAN ISAKOVIĆ MARKO MILOŠ	STAGNATION PRESSURE TRANSIENT CONTROL IN A HIGH-PRESSURE SUPERSONIC BLOWDOWN WIND TUNNEL TEST FACILITY
14.45 16.15	SIMON SEDMAK UROS TATIC BRANISLAV DJORDJEVIC FILIP VUCETIC EMINA DZINDO	NUMERICAL CALCULATION OF A STEEL SUPPORT STRUCTURE FOR A PIPELINE USING FINITE ELEMENT METHOD
	UROS TATIC BRANISLAV DJORDJEVIC SIMON SEDMAK MILOS MILOSEVIC ALEKSANDAR SEDMAK	STEREOMETRIC METHODS OF MEASURING STRAIN AND DISPLACEMENT IN WELDED JOINTS SUBJECTED TO TENSILE LOAD
	T.CZAPLINSKI R.FRATCZAK Ł.MACIEJEWSKI A.PRZYGODA	DAMAGE ASSESSMENT USING AUTOMATION WITH FITNET PROCEDURES
	ŞTEFAN SOROHAN MARIN SANDU ADRIANA SANDU DAN MIHAI CONSTANTINESCU	FINITE ELEMENT MODELS USED TO DETERMINE THE EQUIVALENT IN PLANE PROPERTIES OF HONEYCOMBS
	ROBERT ULEWICZ PAWEŁ SZATANIAK	FATIGUE CRACKS OF DOMEX 700MC STEEL
	WITOLD RZĄDKOWSKI KAROL SUPRYNOWICZ PAWEŁ PYRZANOWSKI	PIEZOELECTRIC TRANSDUCER ELECTRICAL CAPACITANCE AS A FACTOR OF DAMAGE DETERMINATION
	WITOLD RZĄDKOWSKI KAROL SUPRYNOWICZ MICHAŁ KOWALIK PAWEŁ PYRZANOWSKI	PIEZOELECTRIC CHARGE AMPLIFIER FOR SMALL FREQUENCY LOADS REGISTRATION

	45	MAGDALENA MAZUR KATARINA MIKOVA GERGELY NAGYMÁTÉ	IMPACT STRENGTH OF HIGH STRENGTH STEELS
14.45 16.15	2	ÁKOS PETHES GRÉTA SZABÓ ZOLTÁN BEJEK RITA M. KISS	THE IMPACT OF THE LEVEL OF KNEE OSTEOARTHRITIS ON THE POSTURAL STABILITY
	87	MILAN UHRÍČIK MILAN SAPIETA ZUZANA STANKOVIČOVÁ PETER PALČEK	THE STRESS DETECTION OF STAINLESS STEEL DURING THREE-POINT BENDING CYCLIC LOADING
16.45 17.30	Poster exhibition and discussion		

Thursday, Sept. 24, 2015

15:00 – 18:30

Plenary Lectures 3

Chairman: Gianni Nicoletto

Time	Authors	Title
15.00 15.15	LOVRE KRSTULOVIĆ MATEJ VESENJAK ISABEL DUARTE ZORAN REN ŽELJKO DOMAZET	INFRARED THERMOGRAPY AS A METHOD FOR ENERGY ABSORPTION EVALUATION OF METAL FOAMS
15.15 15.30	GRZEGORZ SOCHA BARTOSZ MADEJSKI	INVESTIGATIONS OF DEFORMATION-INDUCED DAMAGE OF INCONEL718 SUPRALLOY
15.30 15.45	THOMAS LEHMANN MARTIN STOCKMANN	RESIDUAL STRESS STATE AND FRACTURE MECHANICAL PROPERTIES OF AL/Mg COMPOUNDS

Poster Session C

Chairman: Dan Constantinescu; Mieczysław Szata

Poster mounting: 14.30 – 15.00 Poster dismantling: 18.30

Oral introduction

Time	Poster No.	Authors	Title
15.45 17.30	49	MARIUSZ STAŃCO MARIUSZ KOSOBUDZKI	THE LOADS IDENTIFICATION ACTING ON THE 4X4 TRUCK
	50	MAHDI RAHMANI FRIEDRICH BLEICHER	EXPERIMENTAL INVESTIGATION OF OVER DETERMINATION IN MACHINE TOOLS LINEAR GUIDES
	51	IGOR MILOSEVIC THOMAS HATZENBICHLER	CHARACTERISATION OF SEVERAL LUBRICANTS IN CASE OF DIE FORGING OF ALUMINIUM ALLOYS BY THE RING COMPRESSION TEST
	52	DJORDJE DJURDJEVIC MAJA RADOJKOVIC SIMON SEDMAK BRANISLAV DJORDJEVIC UROS TATIC	COMPARISON OF TWO NUMERICAL MODELS OF CONNECTED STEEL BEAMS AS SEPARATE AND COMBINED PLATES

	53	MATE TOTH DANIEL BACHRATHY GABOR STEPAN	CHATTER IDENTIFICATION BY SPECTRAL PROPERTIES OF MACHINED SURFACES
	54	MILOSAV OGNJANOVIC IVICA JOVANOVIC NENAD KOLAREVIC	TESTING AND PREDICTION OF MACHINE PARTS FAILURES CAUSED BY FRETTING
	55	LILLA ASZTALOS PÉTER NAGY ESZTER BOGNÁR ISTVÁN SZIKORA	PATTERN CHANGE OF FLOW DIVERTERS DUE TO BENDING
	56	PETER FICZERE LAJOS BORBAS	NEW APPLICATION OF 3D PRINTING METHOD FOR PHOTOSTRESS INVESTIGATION
	57	ANATOLY NIKONOV IGOR EMRI	ACOUSTIC CHARACTERIZATION OF LIGHTWEIGHT MATERIALS USING NONSTANDARD MEASURING SETUP
	58	ZBIGNIEW L. KOWALEWSKI GRZEGORZ SOCHA LECH DIETRICH TOMASZ LIBURA	THIN SHEET OF BRASS TESTING UNDER CYCLIC TENSION-COMPRESSION USING NOVEL ANTI-BUCKLING FIXTURE
	59	ALAN VAŠKO	FORMULATION OF SHAPE OF GRAPHITE IN CAST IRONS BY A SHAPE FACTOR
	60	MÁRIA MIHALIKOVÁ JÁN MICHEL' ANNA LIŠKOVÁ	ANALYSIS OF WELDED JOINTS IF AND S420 STEELS
	79	ION BADOI DAN MIHAI CONSTANTINESCU	WEAR BEHAVIOR OF METAL MATRIX COMPOSITES IN COMPARATION WITH SINTERED METAL CARBIDE
15.45 17.30	80	IOANA COSMOIU DRAGOS A. APOSTOL CATALIN R. PICU DAN M. CONSTANTINESCU MARIN SANDU	INFLUENCE OF FILLER DISPERSION ON THE MECHANICAL PROPERTIES OF NANOCOMPOSITES
	63	ADRIÁN BAČA RADOMILA KONEČNÁ GIANNI NICOLETTO LUDVÍK KUNZ	EFFECT OF THE BUILD ORIENTATION ON THE FATIGUE PERFORMANCE OF SELECTIVE LASER MELTED Ti6Al4V ALLOY
	64	TATIANA LIPTÁKOVÁ MARTIN LOVIŠEK SYLVIA DUNDEKOVÁ	PROPERTIES OF Al BRASSES AFFECTED DEGRADATION
	65	JÁN LAGO OTAKAR BOKŮVKA FRANTIŠEK NOVÝ	THE WELD TOE IMPROVEMENT OF DOMEX 700 BY LASER REMELTING
	81	PREDOI MIHAI VALENTIN PETRE CRISTIAN CATALIN	MULTIMODE WAVE PROPAGATION IN IMMERSSED PIPES
	86	GIANNI NICOLETTO ANTONIO DI FILIPPO ANELLINO STOCCHI	MECHANICAL TESTING OF ADVANCED DISCONTINUOUS CARBON/EPOXY COMPOSITE MATERIALS
	88	GIANNI NICOLETTO FRANCESCOVALENTI ANTONIO DI FILIPPO	STRAIN MAPPING DURING TENSILE TESTS OF RANDOM DISCONTINUOUS CARBON/EPOXY COMPOSITES
	89	JAROSLAV VÁCLAVÍK STANISLAV HOLÝ OTAKAR WEINBERG	EXPERIMENTAL VERIFICATION OF THE HOLE DRILLING METHOD WITH INVERSE LAYERS REMOVING
17.50 18.30	Poster exhibition and discussion		

Friday, Sept. 25, 2015

09:00 – 12:15

Plenary Lectures 4

Chairman: Zbigniew L. Kowalewski

Time	Authors	Title
09.00 09.15	FERENC SAFRANYIK ISTVÁN OLDAL BÉLA M. CSIZMADIA	EFFECT OF VIBRATION ON SILO FLOW OF COHESIONLESS GRANULAR MATERIALS
09.15 09.30	MILAN RŮŽIČKA KAREL DOUBRAVA MILAN DVOŘÁK VIKTOR KULÍŠEK ONDŘEJ UHER	SMART COMPOSITE HYBRID STRUCTURES
09.30 09.45	MIHAELA TACA DAN M. CONSTANTINESCU FLORIN BACIU VICTOR GEANTA DANA D. DAISA RADU ȘTEFĂNOIU	INFLUENCE OF TECHNOLOGICAL PARAMETERS ON THE TOUGHNESS IMPROVEMENT OF MICROALLOY STEELS
09.45 10.00	JELENA M. DJOKOVIĆ RUŽICA R. NIKOLIĆ	INFLUENCE OF THE JOINT GEOMETRY ON THE STRESS INTENSITY FACTOR OF THE FILLET WELDED CRUCIFORM JOINT SUBJECTED TO TENSION AND BENDING

Poster Session D

Chairman: Milosav Ognjanovic; Anatoly Nikonov

Poster mounting: 08.30 – 09.00

Poster dismantling: 12.15

Oral introduction

Time	Poster No.	Authors	Title
	71	LEOPOLD WAGNER THOMAS K. BADER	CELL WALL PROPERTIES OF ARCHAEOLOGICAL OAK WOOD FROM THE VASA SHIPWRECK: A NANOINDENTATION STUDY
	72	DENISA ZÁVODSKÁ MARIO GUAGLIANO OTAKAR BOKŮVKA LIBOR TRŠKO	FATIGUE RESISTANCE OF LOW ALLOY STEEL AFTER SHOT PEENING
10.00 11.10	73	ĽUBOMÍR GAJDOŠ MARTIN ŠPERL PETR CRHA	THE EFFECT OF CURVATURE OF A PIPE WALL ON THE FRACTURE TOUGHNESS AND PROTECTION OF HIGH PRESSURE PIPELINES
	74	DARIA DROZDENKO JAN BOHLEN FRANTIŠEK CHMELÍK DIETMAR LETZIG PATRIK DOBRŮŇ	INFLUENCE OF ROLLING CONDITIONS ON DEFORMATION BEHAVIOR OF AZ31 MAGNESIUM ALLOY
	75	EVA SCHMIDOVÁ BOHUMIL CULEK PETR HANUS	DYNAMIC FRACTURE BEHAVIOR OF THE MARTENSITIC HIGH STRENGTH STEEL AFTER SPOT WELDING

	76	JAN ČAPEK KRISTIÁN MÁTHIS	INVESTIGATION OF THE DEPENDENCE OF DEFORMATION MECHANISMS ON SOLUTE CONTENT IN POLYCRYSTALLINE MG-AL MAGNESIUM ALLOYS BY NEUTRON DIFFRACTION AND ACOUSTIC EMISSION
	77	FRANK RICHTER ENRICO KÖPPE WERNER DAUM	TRACKING DEFORMATION HISTORY IN SPLIT HOPKINSON PRESSURE BAR TESTING
	78	GRZEGORZ LESIUK MIECZYŚLAW SZATA ANNA ZIĘTY	THE INFLUENCE OF MICROSTRUCTURAL DEGRADATION PROCESSES ON CORROSION RESISTANCE OF 19 TH PUDDLED STEEL
	61	ZUZANA DRESSLEROVÁ PETER PALČEK MILAN UHRÍČIK	INFLUENCE OF CYCLIC LOADING ON THE INTERNAL DAMPING MEASURED ON MAGNESIUM ALLOYS
	62	MONIKA ORAVCOVÁ PETER PALČEK MÁRIA CHALUPOVÁ	PREMATURE FAILURE OF A TOTAL HIP REPLACEMENT
10.00 11.10	82	JURAJ BELAN	INTERMETALLIC PHASES IN CAST AND WROUGHT NICKEL SUPERALLOYS
	83	LENKA HURTALOVÁ EVA TILLOVÁ MÁRIA CHALUPOVÁ	THE MORPHOLOGY OF THE SI PARTICLES IN HYPOEUTECTIC AI-SI CAST ALLOYS
	84	TILLOVÁ EVA CHALUPOVÁ MÁRIA BORKO KAMIL	CHARACTERIZATION OF FRACTURE IN A356 CAST ALLOY
	85	MICHAL KRÁL STANISLAV HOLÝ	STIFFNESS REDUCTION MODEL FOR COMPOSITE MATERIALS UNDER CYCLIC LOADING – IDENTIFICATION OF MODEL PARAMETERS
	90	MIROSLAV SAHUL MARTIN SAHUL JÁN LOKAJ	INFLUENCE OF OXIDE LAYER ON THE PROPERTIES OF AZ 31 MAGNESIUM ALLOY WELDED JOINTS PRODUCED WITH DISK LASER
	66	MIROSLAV OMASTA BRANISLAV HADZIMA	EVALUATION OF OCTACALCIUM PHOSPHATE COATING ON THE CORROSION RESISTANCE OF ELEKTRON 21 MAGNESIUM ALLOY
	92	ENRICO KÖPPE MATHIAS BARTOLMAI WERNER DAUM XIN GONG DETELF HOFMANN FRANK BASEDAU VIVIEN SCHUKAR ANJA WESTPHAL MARIO SAHRE UWE BECK	NEW SELF DIAGNOSTIC FIBER OPTICAL SENSOR TECHNIQUE FOR STRUCTURAL HEALTH MONITORING
11.35 12.15	Poster exhibition and discussion		

COMPANY EXHIBITIONS



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