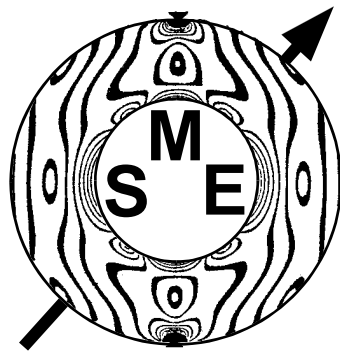


XXIX Sympozjum
Mechaniki Eksperymentalnej
imienia prof. Jacka Stupnickiego

19-22 października 2022
Warszawa



29th Symposium
on Experimental Mechanics
in memory of prof. Jacek Stupnicki

October 19-22 2022
Warsaw

PROGRAMME

ŚRODA/WEDNESDAY, 19.10

17:00 - 22:00	rejestracja uczestników registration of participants
19:00 - 22:00	kolacja supper

CZWARTEK/THURSDAY, 20.10

9:00 - 9:10	rozpoczęcie Sympozjum Opening Ceremony	
9:10 - 10:30	sesja wiodąca K.1 Keynote session K.1	K.I-01 Milan Růžička, Nikola Schmidová, Milan Dvořák, David Blaha, Karel Doubrava: STRAIN AND STRESS MONITORING IN COMPOSITES
		K.I-02 José Eduardo Wesfreid: DYNAMICS OF STRUCTURES IN TRANSITION TO TURBULENCE
10:30-11:00	przerwa na kawę coffee break	
11:00-13:00	sesja plenarna P.1 Plenary session P.1	P.1-01 Marcin Bocheński, Bartosz Drzymała, Krzysztof Kolano: INFLUENCE OF THE REAL OBJECT PARAMETERS ON THE ENERGY HARVESTER OPERATION
		P.1-02 Adam Kowalik, Przemysław Wiewiórski, Walis Jones, Mirosław Bocian, Justyna Krzak, Jerzy Kaleta: DIFFERENTIAL PRESSURE TRANSDUCER IN ULTRASONIC ATOMIZATION
		P.1-03 Adam Kowalik, Przemysław Wiewiórski, Walis Jones, Mirosław Bocian, Justyna Krzak, Jerzy Kaleta: NON-DESTRUCTIVE CONVERSION OF A 3D PRINTER TO AN ULTRASONIC ATOMIZATION STATION
		P.1-04 Daniel Lewandowski, Kacper Surma, Rafał Mech: MAGNETOCALORIC HEAT PUMP WITH NOVEL MAGNETOCALORIC REGENERATOR GEOMETRY
		P.1-05 Rafał Mech, Oleksandr Ivanow, Przemysław Wiewiórski, Bianka Kowalska: DEVELOPMENT OF LOW-COST HIGH FREQUENCY DATA ACQUISITION SYSTEM FOR ENERGY HARVESTING APPLICATIONS

		P.1-06 Rafał Mech, Daniel Lewandowski, Kacper Surma: <i>INFLUENCE OF THE MAGNETIC FIELD DIRECTION ON THE DEFORMATION OF MAGNETOSTRICTIVE MATERIAL</i>
		P.1-07 Andrzej Mitura, Krzysztof Kecik: <i>EXPERIMENTAL RESEARCH OF THE INFLUENCE OF A COIL SHAPE ON ENERGY RECOVERY</i>
		P.1-08 Andrzej Mitura, Krzysztof Kecik: <i>RESEARCH OF ELECTROMECHANICAL COUPLING IN A SYSTEM WITH TWO LEVITATING MAGNETS</i>
		P.1-09 Janusz Orkisz, Maciej Głowacki: <i>ON POSSIBILITY OF DEDICATED EVOLUTIONARY ALGORITHMS APPLICATION TO PHYSICALLY BASED SMOOTHING OF EXPERIMENTAL DATA</i>
13:00 - 14:00		obiad lunch
14:00-15:45	sesja plenarna P.2 Plenary session P.2	P.2-01 Paweł Baj, Filip Hahs: <i>THE EFFECT OF SECONDARY FLUORESCENCE ON LIF MEASUREMENTS</i>
		P.2-02 Tomáš Balint, Jozef Živčák, Miroslav Kohan, Samuel Lancoš, Bibiána Ondrejová: <i>OPTIMIZATION OF PARAMETERS DURING FILAMENT EXTRUSION</i>
		P.2-03 Karol Bukowski, Łukasz Klotz: <i>EXPERIMENTAL INVESTIGATION OF THE INFLUENCE OF POROUS MATERIALS ON VORTICAL STRUCTURES FORMED BEHIND A BACKWARD-FACING STEP</i>
		P.2-04 Artur Drózdź, Paweł Niegodajew, Mathias Romańczyk, Witold Elsner: <i>LOGARITHMIC CONVECTION VELOCITY PROFILE IN ADVERSE-PRESSURE-GRADIENT TURBULENT BOUNDARY LAYERS</i>
		P.2-05 Ludek Jancik, Petra Dancova: <i>FLUID FLOW MEASUREMENT IN AIR DUCTS UNDER UNSTEADY FLOW CONDITIONS - SIMULATION TECHNIQUES</i>
		P.2-06 Miroslav Kohan, Samuel Lancoš, Tomáš Balint, Marek Schnitzer, Radovan Hudák, Jozef Živčák: <i>PARAMETER SETTINGS OF THE PEEK AND PPSU FILAMENTS PRODUCTION WITH THE CERAMIC COMPONENT</i>
		P.2-07 Grzegorz Milewski, Stanisław Rumian, Michał Kopacz, Adam Ciszkievicz: <i>HYDRODYNAMIC MODEL ANALYSIS OF VALVULAR HEART DISEASES</i>

15:45 - 16:15		przerwa na kawę coffee break
16:15 - 18:00	sesja plenarna P.3 Plenary session P.3	P.3-01 Szymon Derda, Aleksander Karolczuk: <i>CYCLIC STRAIN FIELD EVOLUTION AND CRACK GROWTH MONITORING VIA DIC STRAIN MEASUREMENT IN LAYERWISE METAL COMPOSITES</i>
		P.3-02 Maria Kotelko, Viorel Ungureanu: <i>EXPERIMENTAL TESTS OF ULTIMATE AND POST-ULTIMATE BEHAVIOUR OF TWCFS OPEN-SECTION MEMBERS USING DIC TECHNIQUE AND 3D LASER SCANNING</i>
		P.3-03 Maciej Kotyk, Łukasz Pejkowski: <i>INFLUENCE OF LOAD ON THE VALUE OF THE LONGITUDINAL MODULE DURING THE TEST OF LOW CYCLE FATIGUE OF TITANIUM ALLOY Ti6Al4V</i>
		P.3-04 Patrycja Lau, Piotr Paczos: <i>ANALYTICAL, NUMERICAL AND BENCH TESTS OF AXLES IN RAIL VEHICLES</i>
		P.3-05 Dariusz Rozumek, Janusz Lewandowski: <i>GROWTH OF FATIGUE CRACKS IN SPECIMENS WELDED UNDER BENDING WITH TORSION</i>
		P.3-06 Piotr Swacha, Adam Lipski, Michał Piotrowski: <i>DETERMINATION AND EXPERIMENTAL VERIFICATION OF THE RELATION BETWEEN STRESS AMPLITUDE AND VIBRATION AMPLITUDE IN THE VHCF REGIME</i>
		P.3-07 Tadeusz Szymczak, Zbigniew L. Kowalewski, Tomasz Sobolewski, Adam Brodecki, Jacek Górecki: <i>STAND TESTS FOR SELECTED COMPONENTS OF SPECIAL VEHICLES UNDER STATIC AND CYCLIC LOADING</i>
18:00 - 19:00		kolacja supper

PIĄTEK/FRIDAY, 21.10

9:30 - 12:00	Zwiedzanie laboratoriów CEZAMAT visiting CEZAMAT laboratories
13:00 - 14:00	obiad lunch

14:00-15:20	sesja wiodąca K.II Keynote session K.II	K.II-01 Adam Lipski: FATIGUE TESTS IN THE GIGACYCLE RANGE
		K.II-02 Bartosz Babiarczuk, Daniel Lewandowski, Rafał Mech, Bartosz Nowak, Justyna Krzak, Jerzy Kaleta: FROM ATOMS TO ELASTICITY - MOLECULAR FACTORS INFLUENCING THE MECHANICAL PROPERTIES OF SILICA AEROGELS
15:20 - 15:40	przerwa na kawę coffee break	
15:40 - 17:50	sesja plenarna P.4 Plenary session P.4	P.4-01 Monika Chuda-Kowalska: INFLUENCE OF THE PURLIN SHAPE ON THE LOAD-BEARING CAPACITY OF SANDWICH PANELS
		P.4-02 Artur Ganczarski, Tomasz Gawlik: ANALYSIS OF LARGE DEFORMATIONS OF ROD
		P.4-03 Grzegorz Lesiuk, Michał Smolnicki, Szymon Duda, Paweł Zielonka, Tomasz Osiecki: EXPERIMENTAL AND NUMERICAL INVESTIGATION OF PULL-OUT BEHAVIOR OF SINGLE BASALT - FIBER
		P.4-04 Aleksandra M. Pawlak, Natalia Ławida, Tomasz Górny: EXPERIMENTAL INVESTIGATION OF SHORT THIN-WALLED COLD-FORMED CHANNEL COLUMNS WITH MODIFIED CROSS-SECTIONAL SHAPE
		P.4-05 Adam Piasecki, Piotr Paczos: MICROSTRUCTURE AND MECHANICAL PROPERTIES OF Ni - TiO₂ - CNTs SINTERED MATERIALS
		P.4-06 Wojciech Smagowski, Andrzej Teter: HOW TO ESTIMATE THE VALUE OF BIFURCATION LOAD IN A SHORT Z-COLUMNS MADE OF LAMINATE UNDER SHORTENING
		P.4-07 Mikołaj Jan Smyczyński, Piotr Paczos: EXPERIMENTAL TESTS OF QUICK ASSEMBLY ANCHORS
		P.4-08 Radosław Stachowiak, Dariusz Boroński, Lucjan Śnieżek: INFLUENCE OF TECHNOLOGICAL PARAMETERS OF THE FRICTION STIR WELDING PROCESS ON THE MECHANICAL PROPERTIES OF THE S235-AA5083 JOINT
		P.4-09 Agnieszka Szust, Anna Wybraniec, Andrzej Woźniak: COMPARATIVE ANALYSIS OF TYPE Q BINDER'S STRENGTH

		P.4-10 Wojciech Ziótkowski, Dariusz Boroński, Robert Kosturek: METHOD OF TESTING THE FRACTURE TOUGHNESS FOR THIN WALLED JOINT S355-AA6061 MADE USING THE FSW METHOD
17:50 - 18:10	Posiedzenie Sekcji Metod Eksperymentalnych Mechaniki Komitetu Mechaniki PAN Meeting of the Section of Experimental Methods of Committee on Mechanics of the Polish Academy of Sciences	
18:15 - 19:30	Walne Zgromadzenie PSME General Meeting of Polish Association for Experimental Mechanics	
20:00 - 24:00	uroczysta kolacja dinner party	

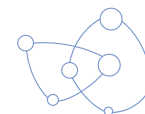
SOBOTA/SATURDAY, 22.10

9:00-11:10	sesja plenarna P.5 Plenary session P.5	P.5-01 Łukasz Bereś, Paweł Pyrzanowski: RESEARCH ON DRIVES POWERED BY HUMAN MUSCLES
		P.5-02 Aleksy Figurski, Dawid Myszka: INVESTIGATION OF COMPLIANT MECHANISMS FOR POSSIBLE APPLICATION IN PROSTHETICS
		P.5-03 Dominik Pachnicz, Przemysław Stróżyk: ANALYSIS OF TEMPORALIS MUSCLE ACTIVITY IN VIVO
		P.5-04 Roland Pawliczek, Cyprian Skóra: EFFECT OF LOADING PARAMETERS ON DYNAMIC CHARACTERISTICS MZGS100 FATIGUE TEST STANDS
		P.5-05 Filip Pelowski, Ignacy Lipowiecki, Michał Kowalik: TEST AND COMPARISON OF DIFFERENT DIGITALIZATION TECHNIQUES FOR OBJECTS WITH DIFFICULT TO SCAN SURFACES
		P.5-06 Jerzy Pisarek: EXTENSION OF PIV METHOD
		P.5-07 Agnieszka Szust, Anna Wybraniec, Kacper Hubicki, Monika Bączyk: ANALYSIS OF DISPLACEMENTS OF THE CONDYLAR PROCESS AFTER DISTRACTION OF THE MANDIBULAR BODY

		P.5-08 Dawid Urbański, Witold Rządowski: POROSITY EVALUATION STUDY OF EXTRUDED FOAMED MATERIALS
		P.5-09 Karol Wachtarczyk, Marcel Bender, Neha Yadav, Paweł Gąsior, Ralf Schledjewski, Jerzy Kaleta: CHALLENGES IN THE USE OF HIGHLY BIREFRINGENT FIBER BRAGG GRATINGS FOR STRAIN SENSING IN COMPOSITES
		P.5-10 Krzysztof Zawisliński, Marek Matyjewski: AUTOMATED DESIGN AND ITS APPLICATION IN ORTHOSES
11:10 - 11:30		przerwa na kawę coffee break
11:30 - 12:50	sesja wiodąca K.III Keynote session K.III	K.III-01 Roland Pawliczek: INCREASING THE EFFICIENCY AND FLEXIBILITY OF LABORATORY TESTING WITH VIRTUAL INSTRUMENT TECHNIQUES
		K.III-02 Zbigniew L. Kowalewski: FATIGUE DAMAGE ASSESSMENTS SUPPORTED BY NONDESTRUCTIVE TESTING TECHNIQUES
12:50 - 13:00		zakończenie Sympozjum Closing Ceremony
13:00-14:00		obiad lunch

MIEJSCE OBRAD / THE SYMPOSIUM VENUE

Centrum Zaawansowanych Materiałów i Technologii CEZAMAT
Centre for Advanced Materials and Technologies CEZAMAT
Poleczki 19, 02-822 Warszawa



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Polish Association for Experimental Mechanics

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