



World Symposium on Mechanical - Materials Engineering & Science

9-11 September, 2021 – Prague (Czech Republic)



WMMES 2021

**World Symposium on
Mechanical - Materials Engineering & Science**
9-11 September 2021 – Prague (Czech Republic)

REGISTRATION

(from 8 September 2021 – Wednesday to 9 September 2021 - Thursday)

8 September, 2021
9 September, 2021

Registration will start on Wednesday from 10:30 to 20:00
from 08:30 until 10 September 2021

OPENING / CEREMONY

9 September 2021 – Thursday (in Hall PRAGUE)

10:30 - 11:00
11:00 - 12:00

Opening Concert
Opening Speeches

Will be announced in venue because of the pandemic



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ORAL PROGRAM 9 September, 2021 – Thursday

HALL - PRAGUE EAST		9 September, 2021 – Afternoon Sessions
SESSION: Mechanical Engineering, Industrial Design and Manufacturing - I Chairman: Bernhard Heiden - Carinthia University of Applied Sciences, Austria Marian Marschalko – Ostrava Technical University, Czech Republic		
13:00 - 13:15	INCREASING THE RELIABILITY OF FMEA EVALUATION BY MODIFYING RATING SCALES AND APPLYING PAIRWISE COMPARISON METHOD Speaker: Edina Kulcsár - University of Pannonia, Hungary	
13:15 - 13:30	INFLUENCE OF OPERATING PARAMETERS ON THE PERFORMANCE OF A SOLAR ADSORPTION REFRIGERATION MACHINE Speaker: Adenane Ghrici - University of Tlemcen, Algeria	
13:30 - 13:45	EVALUATING COORDINATED COOPERATIVE CONTROL OF THREE ACTIVE CAR SYSTEMS USING FUZZY-LOGIC Speaker: Vase Jordanoska - University "Ss. Cyril and Methodius", Republic of Macedonia	
13:45 - 14:00	THE INFLUENCE OF THE IMPACT ON THE DYNAMIC RESPONSE OF THE DRIVE MECHANISM OF AN INTERNAL COMBUSTION ENGINE Speaker: Andra Constantin - University of Craiova, Romania	
14:00 - 14:15	DESIGN AND NUMERICAL CHARACTERIZATION OF A HUMAN ANKLE PROSTHESIS Speaker: Copilusi Cristian - University of Craiova, Romania	
14:15 - 14:30	EXPERIMENTAL APPROACHES REGARDING A CHILDREN WALKING REHABILITATION TEST BED Speaker: Copilusi Cristian - University of Craiova, Romania	
14:30 - 15:00	Coffee Break	
SESSION: Mechanical Engineering, Industrial Design and Manufacturing - II Chairman: Copilusi Cristian - University of Craiova, Romania		
15:00 - 15:15	FACTORS AFFECTING THE IMPLEMENTATION OF INFORMATION SYSTEMS IN MANUFACTURING INDUSTRY Speaker: Paraskevi Kapetanopoulou - Aristotle University of Thessaloniki, Greece	
15:15 - 15:30	ATTRIBUTES RELEVANT FOR SUSTAINABLE ADDITIVE MANUFACTURING - MATERIAL DRIVEN APPROACH Speaker: Daniela Mladenovska - Mother Teresa University, Republic of Macedonia	
15:30 - 15:45	WHEELCHAIR CLIMBING CONSTRUCTION FOR INDUSTRIAL LOGISTICAL APPLICATIONS Speaker: Bernhard Heiden - Carinthia University of Applied Sciences, Austria	



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15:45 - 16:00	THE INCORPORATION AND USE OF METAMATERIALS IN EVERYDAY OBJECTS Speaker: Delia Alexandra Prisecaru - University Politechnic of Bucharest, Romania
16:00 - 16:15	LOOSE MATERIAL FILLING IN THE LOADING TROUGH PROFILE OF THE BELT CONVEYOR Speaker: Leopold Hrabovský - VSB Technical University of Ostrava, Czech Republic
16:15 - 16:30	MECHANICAL FRICTION RETAINERS USED FOR BRAKING AND LOCKING PALLETS IN PLACE Speaker: Leopold Hrabovský - VSB - Technical University of Ostrava, Czech Republic
16:30 - 16:45	VERSATILE HARDWARE TO ANALYZE THE PERFORMANCE OF A NONLINEAR CONTROLLER Speaker: Deyka Garcia - Universidad Tecnológica de Panamá, República de Panamá
16:45 - 17:00	PROCESS OF ADDITIVELY MANUFACTURING AN INDEXABLE INSERT Speaker: Jindřich Sýkora - University of West Bohemia, Czech Republic
17:00 - 17:15	INVESTIGATION OF THE INFLUENCE OF THE AIRFLOW AROUND A GRINDING WHEEL ON THE COOLANT SUPPLY Speaker: Roman Stabauer - University of Applied Sciences RFH- Cologne, Germany
	END OF ORAL SESSIONS



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HALL - PRAGUE WEST		9 September, 2021 – Afternoon Sessions
SESSION: Computational Mechanical - Materials Engineering & Science - I		
Chairman: Marian Drusa – Zilina University, Slovakia		
13:00 - 13:15	A NEW NUMERICAL FRAMEWORK FOR THE FULL FIELD MODELLING OF DYNAMIC RECRYSTALLIZATION IN CPFEM CONTEXT APPLIED TO MODEL 304L STEEL Speaker: David Alejandro Ruiz Sarrazola - MINES ParisTech, PSL – Research University, France	
13:15 - 13:30	EXPERIMENTAL CALIBRATION METHODOLOGY FOR NUMERICAL PARAMETERS IN A DEM SOFTWARE BASED IN GRANULAR MATERIAL STATIC TESTS Speaker: Rodrigo Estay Huidobro - Federico Santa María Technical University, Chile	
13:30 - 13:45	DYNAMIC SIMULATION ANALYSIS OF A MOTORCYCLE SUSPENSION SYSTEM – ASSESSMENT OF COMFORT Speaker: Stefan Segla - Technical University of Kosice, Slovakia	
13:45 - 14:00	MODELING OF THIN SHEET FORMING PROCESSES BY COMBINING SOLID-SHELL FINITE ELEMENT WITH NON-QUADRATIC ANISOTROPIC PLASTICITY MODELS APPLICATION TO MAGNETIC PULSE FORMING PROCESSES Speaker: Mohamed Mahmoud - PSL - Research University, Computational Solid Mechanics Research Group, France	
14:00 - 14:15	PRODUCTION AND CHARACTERIZATION OF ANIMAL WASTE REINFORCED COMPOSITE MATERIALS BY POWDER METALLURGY Speaker: Ahmet Yonetken - Afyon Kocatepe University, Turkey	
14:15 - 14:45	Coffee Break	
SESSION: Computational Mechanical - Materials Engineering & Science - II		
Chairman: István Gábor Gyurika - University of Pannonia, Hungary		
14:45 - 15:00	IN-PLANE-STRESS PREDICTION BASED ON A NEURAL NETWORK WITH RVE SIMULATIONS Speaker: Shuang Zhou - RWTH Aachen University, Germany	
15:00 - 15:15	ADVANCED CALCULATION OF THE DEFLECTION OF WORM SHAFTS WITH FEM Speaker: Johannes Gründer - Technische Hochschule Nürnberg Georg Simon Ohm, Germany	
15:15 - 15:30	VALIDATION OF THE TIME DOMAIN BOUNDARY ELEMENT METHOD IN ACOUSTICS REGARDING FLEXIBLE MULTIBODY SIMULATIONS AND ACOUSTIC MEASUREMENTS Speaker: Schneider Simon - University of Applied Sciences of Ulm, Germany	
15:30 - 15:45	INFLUENCE OF RADIATION DAMAGE ON THE FRACTURE TOUGHNESS OF ALUMINUM ALLOYS – COMPUTATIONAL METHODS ON THE AA6061-T6 Speaker: Mohamed Shokeir - Université Paris Saclay, France	



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15:45 - 16:00	<p>QUANTITATIVE PHASE-FIELD MODELING OF CRACK PROPAGATION IN MULTI-PHASE BRITTLE MATERIALS Speaker: Arezoo Emdadi - Missouri University of Science and Technology, USA</p>
16:00 - 16:15	<p>NUMERICAL CHARACTERISTICS OF PLASMA ARC WELDING IN SiC-ZrB₂ CERAMICS USING A MULTI-SCALE/MULTI-PHYSICS PHASE-FIELD MODEL Speaker: Arezoo Emdadi - Missouri University of Science and Technology, USA</p>
16:15 - 16:30	<p>CHALLENGES IN DEVELOPING OF 3D NONLINEAR VISCOELASTIC MODELS Speaker: Liva Pupure - Riga Technical University, Latvia</p>
<p>SESSION: Materials Science and Engineering - I Chairman: Luís Mesquita - Instituto Politécnico de Bragança, Portugal</p>	
16:30 - 16:45	<p>BEHAVIOUR OF CELLULAR BEAMS AT ELEVATED TEMPERATURES Speaker: Luís Mesquita - Instituto Politécnico de Bragança, Portugal</p>
16:45 - 17:00	<p>DETERMINATION OF RESEARCH GUIDELINES AND ESTABLISHING OF A TEST FRAMEWORK FOR THE DEVELOPMENT OF NEW CVD COATING FORMULATIONS AND NEW APPROACH COATING EQUIPMENT Speaker: István Gábor Gyurika - University of Pannonia, Hungary</p>
17:00 - 17:15	<p>FIRE PERFORMANCE OF WOOD AND WOOD-BASED PANELS TOWARDS THE DEVELOPMENT OF WOOD FIRE DOORS Speaker: Luís Mesquita - Instituto Politécnico de Bragança, Portugal</p>
17:15 - 17:30	<p>WEAR BEHAVIOUR OF AUSTEMPERED, DUCTILE IRON MICROALLOYED WITH BORON UNDER DIFFERENT CONTACT LOAD BY DRY SLIDING WEAR CONDITIONS Speaker: Mikheil Chikhradze - F. Tavazde Metallurgy and Materials Science Institute, Georgia</p>
<p>END OF ORAL SESSIONS</p>	



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10 September, 2021 – Friday

HALL – PRAGUE EAST		10 September, 2021 – Morning Sessions
SESSION: Mechanical Engineering, Industrial Design and Manufacturing - III Chairmen: Kazimierz Drozd - Lublin University of Technology, Lublin, Poland Petr Král - Czech Academy of Sciences, Czech Republic		
08:45 - 09:00	ESTIMATION OF DYSPEPTIC MECHANICAL ENERGY IN POLYLACTIDE SAMPLES MADE BY 3D PRINTING BY INCREASING DEGREE OF FILLING Speaker: Anna Gawęł - Cracow University of Technology, Poland	
09:00 - 09:15	ON THE APPROPRIATE PREPARATION AND REALIZATION OF PRODUCTION PROCESS QUALITY ATTRIBUTE MEASUREMENT Speaker: Eliška Cézová - Czech Technical University in Prague, Czech Republic	
09:15 - 09:30	WATER HAMMER EXPERIMENTAL AND NUMERICAL INVESTIGATION IN LABORATORY PIPELINE APPARATUS Speaker: Viktor Iliev - Ss. Cyril and Methodius" University in Skopje, R. North Macedonia	
09:30 - 09:45	DISCRETE ELEMENT SIMULATION OF DRY SNOW USING THE DEVELOPED ANALYTIC BOND MODEL Speaker: Hassan Bahaloo - Lula University of Technology, Sweden	
09:45 - 10:00	KINEMATIC ANALYSIS OF A HYPER-REDUNDANT ROBOT WITH APPLICATION IN VERTICAL FARMING Speaker: Ciprian Lapusan - Technical Univ. of Cluj-Napoca, Romania	
10:00 - 10:15	TENSILE STRENGTH AND DIMENSIONAL VARIANCES IN PARTS MANUFACTURED BY SLA 3D PRINTING Speaker: Ognen Tuteski - Ss Cyril and Methodius University, Republic of North Macedonia	
10:15 - 10:30	ANALYSIS OF LONGITUDINAL BEAM DAMAGE OF CONTAINER CHASSIS SEMI-TRAILER USING FINITE ELEMENT METHOD – CASE STUDY Speaker: Kazimierz Drozd - Lublin University of Technology, Lublin, Poland	
10:30 - 11:00	Coffee Break	
SESSION: SS- Mechanical Properties in Progressive Mechanically Processed Metallic Materials Convener: Assoc.Prof.Dr. Radim Kocich - VŠBU Technical University of Ostrava, Czech Republic Chairmen: Assoc.Prof.Dr. Radim Kocich - VŠBU Technical University of Ostrava, Czech Republic		
11:00 - 11:15	STRESS-STRAIN DISTRIBUTION WITHIN ROTARY SWAGED TUNGSTEN HEAVY ALLOY Speaker: Ludmila Krátká - VŠB-Technical University of Ostrava, Czech Republic	



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11:15 - 11:30	RESIDUAL STRESS DISTRIBUTION IN COPPER-ALUMINIUM CLAD COMPOSITE FABRICATED BY ROTARY SWAGING Speaker: Pavel Strunz - Nuclear Physics Institute, Czech Republic
11:30 - 11:45	EFFECT OF RESIDUAL STRESS ON CRACKING OF HOT DIE-FORGED BRASS FITTINGS Speaker: Lenka Kuncicka - VSB-Technical University of Ostrava, Czech Republic
11:45 - 12:00	CORRELATION OF TEXTURE AND RESIDUAL STRESS IN TWIST CHANNEL ANGULAR PRESSED LAMINATED AL/CU COMPOSITES Speaker: Radim Kocich - VSB-Technical University of Ostrava, Czech Republic
12:00 - 12:15	INFLUENCE OF ROTARY SWAGING ON CREEP BEHAVIOUR OF P92 STEEL Speaker: Petr Král - Czech Academy of Sciences, Czech Republic
	LUNCH BREAK

HALL - PRAGUE EAST		10 September, 2021 – Afternoon Sessions
SESSION: Energy		
Chairman: Nihad Dukhan - University of Detroit Mercy, USA		
13:00 - 13:15	EXPERIMENTAL ANALYSIS OF PIEZO-ELECTRIC ENERGY HARVESTING TILES Speaker: Anthony Ademola Adeyanju - University of West Indies, Trinidad and Tobago	
13:15 - 13:30	DEFINING PONDER INDICATORS FOR ACHIEVING ENERGY EFFICIENCY OF A PUMP STATION WITH CASCADE PUMP ARRANGEMENT Speaker: Marija Lazarevikj - "Ss.Cyril and Methodius" University in Skopje, R. North Macedonia	
13:30 - 13:45	DETERMINATION OF THE AERODYNAMIC FORCES ACTING ON A SINGLE AIRFOIL BASED ON EXPERIMENTAL MEASUREMENTS Speaker: Marija Lazarevikj - "Ss.Cyril and Methodius" University in Skopje, R. North Macedonia	
13:45 - 14:00	AN APPROACH TOWARDS GUIDE VANES OPTIMIZATION FOR VARIABLE SPEED FRANCIS TURBINES Speaker: Filip Stojkovski - Ss. Cyril and Methodius" University in Skopje, Republic of North Macedonia	
14:00 - 14:15	IMPROVEMENT OF EXTRAPOLATED HUB-HEIGHT WIND DATA USING CONTINUOUS WAVE LIDAR MEASUREMENT Speaker: Maduako Emmanuel Okorie - Namibia University of Science and Technology (NUST), Namibia	
14:15 - 14:30	A COOLING DEIGN FOR AN END CELL IN FUEL-CELL STACK USING FORCED AIR FLOW IN METAL FOAM: MODELING AND EXPERIMENT Speaker: Nihad Dukhan - University of Detroit Mercy, USA	
14:30 - 15:00	Coffee Break	



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SESSION: Materials Science and Engineering - II	
Chairman: Dietrich Voswinkel - Paderborn University, Germany Franco Concli - Free University of Bolzano, Italy	
15:00 - 15:15	MOLECULAR DYNAMICS INVESTIGATION ON THE EFFECT OF MWCNTS ON THERMO-MECHANICAL PROPERTIES OF AMORPHOUS CELLULOSE REINFORCED WITH SILICON CARBIDE NANOTUBES (Video Presentation) Speaker: Ahmad Y. Al-Maharma - RWTH Aachen University, Germany
15:15 - 15:30	IMPROVING THE ACCURACY OF DEEP-DRAWN FIBER-METAL LAMINATE PARTS BY PRELIMINARY SURFACE TREATMENT Speaker: Dietrich Voswinkel - Paderborn University, Germany
15:30 - 15:45	17-4 PH SS MANUFACTURED VIA SELECTIVE LASER MELTING: LOW-CYCLE-FATIGUE PROPERTIES Speaker: Franco Concli - Free University of Bolzano, Italy
15:45 - 16:00	17-4 PH SS MANUFACTURED VIA SELECTIVE LASER MELTING: HIGH CYCLE FATIGUE PROPERTIES Speaker: Franco Concli - Free University of Bolzano, Italy
16:00 - 16:15	FEM MODELING OF TOOL WEAR IN HARD TURNING OPERATIONS Speaker: Franco Concli - Free University of Bolzano, Italy
16:15 - 16:30	DEVELOPMENT OF THERMOMECHANICAL PROCESSING OF FULLY FERRITIC LAVES PHASE STRENGTHENED STAINLESS STEELS Speaker: Jana Pöpperlová - RWTH Aachen University, Germany
16:30 - 16:45	A COMPARISON BETWEEN THEORETICAL AND EXPERIMENTAL DATA OF THERMO-PHYSICAL PROPERTIES OF JATROPHA OIL AND IRON NANOPARTICLES Speaker: Veikko Shalimba - Namibia University of Science and Technology, Namibia
16:45 - 17:00	MECHANICAL BEHAVIOUR OF 4D PRINTED COMPONENTS FABRICATED BY BINDER JET ADDITIVE MANUFACTURING FROM SHAPE MEMORY ALLOY POWDERS Speaker: Constantin V Solomon - Youngstown State University, USA
17:00 - 17:15	EFFECT OF NOBLE METAL (M=Ag, Au) DOPING CONCENTRATION ON MECHANICAL AND BIOMEDICAL PROPERTIES OF Ti-M MATRIX THIN FILMS DEPOSITED BY MAGNETRON SPUTTERING Speaker: Cecil Cherian Lukose - Northumbria University, UK
17:15 - 17:30	EFFECT OF CORUNDUM SAND PROPORTION ON STRENGTH PROPERTIES GEOPOLYMER MORTAR BASED ON FLY ASH (2) Speaker: Kinga Plawecka, Kinga Korniejenko, Patrycja Bazan - Cracow University of Technology, Poland
17:30 - 17:45	EXPERIMENTAL INVESTIGATION OF FAST SINTERING OF SMALL ICE PARTICLES Speaker: Hassan Bahaloo - Lulea University of Technology, Sweden
END OF ORAL SESSIONS	



POSTER PROGRAM 9 September, 2021 – Thursday

13.00 -15.30

Stand No: 1 VARIANCES OF THE THERMO-MECHANICAL PROPERTIES OF FILLED POLYMER MATERIALS IN A VARIATION OF INJECTION MOLDING INPUT PARAMETERS

Václav Čontoš - WITTE Nejdek s.r.o., Czech Republic

Stand No: 2 FEA ANALYSIS OF TENSILE STRESS THIN STEEL SHEET WITH REINFORCING RIBS CREATED BY LOCAL LASER TREATMENT

Oleksandr Kapustynskiy - Vilnius Gediminas Technical University, Lithuania

Stand No: 3 FABRICATION, MICROSTRUCTURE, AND WEAR DAMAGE OF THE Si₃N₄-Ag-GNPs COMPOSITES PREPARED BY SPS

Pavol Hvizdoš - Slovak Academy of Sciences, Slovakia

Stand No: 4 UNSTEADY HEAT CONDUCTIVITY PROBLEM FOR COATED CYLINDER UNDER MIXED BOUNDARY HEATING CONDITION

Slhor Turchyn - Kazimierz Wielki University, Poland

Stand No: 5 INNOVATIVE SOLUTION FOR THE TRANSPORT OF WIRE ROPES OF LARGE SIZE AND LENGTH

Luigi Solazzi - Università degli studi di Brescia, Italy

Stand No: 6 A METHOD TO OPTIMISE SEMI-TRAILERS WITH THE USE OF FEM ANALYSIS AND DURABILITY TESTS WITH A ROAD SIMULATOR

Marcin Januszka - Silesian University of Technology, Poland

Stand No: 7 APPLYING SCHEME OF THE EXPONENTIAL REPLACEMENT IN THE FINITE ELEMENT METHOD FOR THE PROBLEM OF ADVECTION-DIFFUSION

Yuliya Turchyn - Ivan Franko National University of Lviv, Ukraine

Stand No: 8 DESIGN AND MANUFACTURING METHOD OF GFRP BLADES FOR VERTICAL AXIS WIND TURBINE

Marin Gutu - Technical University of Moldova, Republic of Moldova

Stand No: 9 HEAT TRANSFER IN DOUBLE ANNULAR DUE TO NATURAL CONVECTION

Jan Pařez - Czech Technical University in Prague, Czech Republic

Stand No: 10 FINITE/BOUNDARY ELEMENT METHOD SIMULATION FOR HEPATIC TUMOR ABLATION USING INTERSTITIAL HYPERTHERMIA

Marek Paruch - Silesian University of Technology, Poland



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Stand No: 11 POLYPROPYLENE AND STEEL FIBER REINFORCEMENT EFFECT ON GEOPOLYMER COMPOSITE LONG-TERM PROPERTIES

Rihards Gaillītis - Riga Technical University, Riga, Latvia, Latvia

Stand No: 12 ELEMENTS OF TECHNOLOGICAL EDUCATION - CLASSIFICATION OF TECHNOLOGICAL PRODUCTION PROCESSES IN THE MATERIALS INDUSTRY

Daniela Alice Luta - University Polyethnic of Bucharest, Romania

Stand No: 13 ELEMENTS OF TECHNOLOGICAL EDUCATION - CLASSIFICATION OF PRODUCTION ENTERPRISES IN THE MATERIALS INDUSTRY

Daniela Alice Luta - University Polyethnic of Bucharest, Romania

Stand No: 14 WEIGHT OPTIMIZATION BY USING BOTH ALUMINUM AND COMPOSITE MATERIAL ON THE BIG EXCAVATOR

Andrea Buffoli - University of Brescia, Italy

Stand No: 15 PROCESS OF DRYING PEACHES BY FORCED CONVECTION

Visanu Vitali - Technical University of Moldova, Republic of Moldova Technical University of Moldova, Republic of Moldova

Stand No: 16 TRIBO-MECHANICAL BEHAVIOR OF GEOPOLYMER COMPOSITES REINFORCED WITH WASTED FLAX FIBER

Patrycja Bazan - Cracow University of Technology, Poland

Stand No: 17 INTERFACE CHARACTERIZATION OF Al/SiCp COMPACTS

Mariana Ciurdas - University Polyethnic of Bucharest, Romania

Stand No: 18 CORROSION BEHAVIOR AND STRUCTURAL CHARACTERIZATION OF TITANIUM DENTAL IMPLANT

Daniela Alina Neculescu - University Polyethnic of Bucharest, Romania

Stand No: 19 ANALYTICAL MODEL OF THE FRICTIONAL HEATING IN A DISC-PAD SYSTEM WITH FUNCTIONALLY GRADED MATERIALS DURING BRAKING

Katarzyna Topczewska - Bialystok University of Technology, Poland



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SOCIAL PROGRAM

9 September, 2021 — Thursday

Opening Concert in Hall Prague - 10.30

Welcome Cocktail in Garden of Duo Hotel - 19:00

11 September, 2021 — Saturday

Gala Dinner in Garden of Duo Hotel - 19:00

(Barbeque Party and Surprise Shows)

NOTES

Cocktail and gala dinner will be organized in open air.

As it was announced on the official web page, this year for the safety of our participants, Cultural & Field Trip will unfortunately not be able to be organized because of the travel restrictions by bus due to the Covid-19 pandemic.