

Programme

Tuesday - November 7		
Faculty of Electrical Engineering and Computer Science		
14:00-15:00	Registration	
15:00-15:30	Invited Lecture 1 prof. Kruno MILICEVIC: Digital Transformation of Metrology	Chairman: T. Kołtunowicz Aula E201
15:30-16:00	Invited Lecture 2 prof. Anton TRNIK: Non-destructive measurement of Young's modulus	Chairman: T. Kołtunowicz Aula E201
16:00-18:00	Visit Laboratory	
18:00-19:00	Steering Commitee Meeting-part 1	Aula E212
19:00-20:00	Steering Commitee Meeting-part 2	Aula E212

Wednesday - 8 November 2023		
	Faculty of Mechanical Engineering - Aula A1	
8:00-9:00	Registration	
9:00-9:30	Welcome Speech	
9:30-10:00	Invited Lecture 3 prof. Ivana MILICEVIC: Application of recycled materials in construction: From Structural Elements to Electromagnetic Shielding	Chairman: A. Trnik
	Session 1 - Mechanical Engineering - A	Chairman: A. Trnik
10:00-10:15	P. R. Koczan Thermal conditions of 3D prints created using the FDM method	
10:15-10:30	M. Leleń Analysis of geometric features of double-layer structure after water jet cutting	
10:30-10:45	K. Ludziak Application hydrotreated vegetable oils (HVO) in low-temperature combustion systems.	
10:45-11:00	W. Okuniewski Effect of shot peening treatment on Ti-6AL-4V: Comparison of additive manufacturing to conventional methods	
11:00-11:15	P. Podolak Multiple impact response of titanium-based FMLs in numerical simulations	
11:15-11:30	M. Rodziewicz The Effect of Filler Size on the Structure and Selected Functional Properties of Silorane-based Powder Company of the Structure and Selected Functional Properties of Silorane-based Powder Company of the Structure and Selected Functional Properties of Silorane-based Powder Company of the Structure and Selected Functional Properties of Silorane-based Powder Company of the Structure and Selected Functional Properties of Silorane-based Powder Company of the Structure and Selected Functional Properties of Silorane-based Powder Company of the Structure and Selected Functional Properties of Silorane-based Powder Company of the Structure and Selected Functional Properties of Silorane-based Powder Company of the Structure and Selected Functional Properties of Silorane-based Powder Company of the Structure and Selected Functional Properties of Silorane-based Powder Company of the Structure and Selected Functional Properties of Silorane-based Powder Company of the Structure and Selected Functional Properties of Silorane-based Powder Company of the Structure and Selected Functional Properties of Silorane-based Powder Company of the Structure and Selected Function Properties of Silorane-based Powder Company of the Structure and Selected Function Properties of Silorane-based Powder Company of Silora	Composites
11.30-12.00	Coffee Break	

	Session 2 - Electrical Engineering	Chairman: K. Milicevic
12:00-12:15	M. Lech Analysis of the phenomenon of vacuum, low-voltage electric arc	
12:15-12:30	A. Zielonka The impact of renewable energy sources on power grids in Poland	
12:30-12:45	P. Gałaszkiewicz Electrical properties of Mo-W-C nanocomposites.	
12:45-13:00	J. Kowalska The impact of PV sources on the SAIDI and SAIFI indicators	
13:00-13:15	D. Kostyła Fiber optic pressure gauge in medium-voltage vacuum devices	
13:15-13:30	A. Wilczyńska The influence of constructional and technological parameters on AC measurements and surface in nanocomposites	norfology of multilayered NiFe-SiO2
13.30-14.30	LUNCH - restaurant "Lanczomania"	
14.30-15.00	Invited Lecture 4 prof. Igor MEDVED: Determination of moisture diffusivity in porous materials	Chairman: Z. Suchorab
	Session 3 - Interdisciplinary	Chairman: I. Medved
15:00-15:15	E. Osmólska Innovative Strategies to Increase Safety in the Fruit and Vegetable Juice Production Process	
15:15-15:30	P. Tymińska-Wójcik Innovative Cheneau brace as an optimised alternative to static orthosis improving idiopathic scolid	osis therapy
15.30-16.00	Coffee Break	
16.00-18.00	Poster Session - PS	
19.00-22.00	Gala Dinner - restaurant "Za Kulisami"	

Thursday - 9 November 2023		
Faculty of Civil Engineering and Architecture - Aula AIII		
9:00-9:30	Invited Lecture 5 Hakim ABDELGADER: How to choose concrete mix design methods in hot weather climates	Chairman: R. Rusinek
9:30-10:00	Invited Lecture 6 Andjelka HEDRIH: Sperm-oocyte interaction as an oscillatory fenomenon	Chairman: R. Rusinek
	Session 4 - Mechanical Engineering - B	Chairman: P. Valvo
10:00-10:15	D. Sałamacha Impact of measurement conditions and measurement strategy on the accuracy and repeatability of pos	itioning of a milling plotter
10:15-10:30	M. Sowa Effect of the oral environment on the degradation of dimethacrylate resins blends modified with liquid rubber	
10:30-10:45	A. Świetlicki Effects of heat treatment and shot peening on 17-4PH steel manufactured using DMLS technology.	
10:45-11:00	M. Trendak Oil quality testing as a basis for warranty claims	
11:00-11:15	Wet vacuum impregnation as a modification of the malting process of barley grains of different varieties	
11:15-11:30	R. Zablotni Examining the Effect of Double Excitation in a Lumped Parameter Model for the Implanted Human Mid	dle Ear
11.30-12.00	Coffee Break	

	Session 5 - Civil Engineering	Chairman: Z. Suchorab
12:00-12:15	A. Alsharif- ONLIE The effects of polyethylene and polypropylene fiber additions on the mechanical properties of self-compacting concrete	
12:15-12:30	M. Budka Mechanical properties and mechanical erosion resistance of polymer composites with a quartz protective layer	
12:30-12:45	M. Grzegorczyk-Frańczak Investigation of the possibility to improve the frost resistance of concrete using polymer microspheres	
12:45-13:00	M. Janek Self-healing of cementitious composites by microbial precipitation of carbonates	
13:00-13:15	A. Szewczak Adhesion of modified epoxy glue to concrete	
13:15-13:30	W. Zbyszyński Evaluation of the interface layer impact on fracture energy of the 3D printed multi-layered mortar con	nposite
13.30-14.30	LUNCH - restaurant "Lanczomania"	
14.30-15.00	Invited Lecture 7 prof. Paolo VALVO: The Finite Element Method in Solid and Structural Mechanics	Chairman: A. Hedrih
15:00-15:30	Invited Lecture 8 prof. Daniele FANTERIA: Differences and potential synergies between science, technolog the perspective of an aeronautical structural engineer	Chairman: A. Hedrih ny and engineering:
16.00-18.00	Visit Lublin	
19.00-22.00	Dinner - restaurant "Trybunalska"	

Friday - 10 November 2023		
Faculty of Environmental Engineering		
9:00-9:30	Invited Lecture 9 prof. Stefano LENCI: 1:1 internal resonance in wind turbines towers	Chairman: R. Rusinek
9:30-10:00	Invited Lecture 10 prof. Tamas KALMAR-NAGY: A mechanistic model for turbulence	Chairman: R. Rusinek
	Session 6 - Mechanical Engineering - C	Chairman: T. Kalmar-Nagy
10:00-10:15	M. Droździel-Jurkiewicz Interlaminar fracture toughness analysis of carbon-fiber titanium laminates – effect of surface n	nodification
10:15-10:30	S. Kapyś Selected properties of PHB modified by nigella oil cake	
10:30-10:45	J. Brzozowska Problems of forecasting the length of the assembly cycle of complex products realized in the mto (make-to-order) model	
10:45-11:00	K. Cybul Improving relative measurement uncertainty by developing and implementing a new force reference standard up to 100 kN into the national metrology infrastructure	
11:00-11:15	B. Czajka Compressed composite columns - experimental and numerical research	
11:15-11:30	F. Longwic Highly filled polymers as a method of plant waste management	
11.30-12.00	Coffee Break	

	Session 7 - Environmental Engineering	Chairman: Z. Suchorab
12:00-12:15	G. Sadowska Development of a method for short-term forecasting of energy yield in solar-powered systems	
12:15-12:30	K. Wrzesińska Application of HPLC-ICP-MS Coupled Technique for Direct Determination of Iodinated Contrast Me	edia (ICM) in Hospital Wastewater
12:30-12:45	M. Staniszewski Application of machine learning to identify activated sludge organisms	
12:45-13:00	N. Marchelina Non-ureolytic pathway of MICP for improvement of loose sandy soil	
13:00-13:15	D. Mikušová Monitoring of water transport using reflectometric technique	
13:15-13:45	Closing Ceremony	