

Thursday	Time	Event	Title
	8.30-9.30	Registration Hall level 3	
	9.30-10.00	Opening ceremony Room 300	
G1	Chairperson: M. Sofonea		Room 300
	10.00-10.45	Plenary lecture 1 Y. Wei, Eric Florentin	Polynomial chaos : basis, extensions and applications
	10.45-11.15	Coffee break	
S1	Chairperson: M. Sofonea		Room 300
	11.15-11.30	M. Drozdowska [et al.]	Structural damage detection considering uncertain modal data
	11.30-11.45	A. Zmitrowicz	Application of variational methods in analysis of contact problems including wear profiles and wear debris
	11.45-12.00	M. Roszak [et al.]	Comparison of failure criteria in non-Newtonian shear-thickening fluid in multi-layer ballistic composites – ballistic studies and numerical analysis
	12.00-12.15	D. Zhao [et al.]	Flexible material with variable stiffness zone to reduce high-rate excitation
	12.15-12.30	Y. Wei [et al.]	Identification of material properties using physics-informed neural networks
	12.30-14.30	Lunch Fahrenheit Courtyard, level 0	
G2	Chairperson: C. Bajer		Room 300
	14.30-15.15	Plenary lecture 2 Roger Sauer	Modeling and simulating cellular membranes: Phases, flow and contact
P1	Chairperson: W. Sochacki		Room Hall level 3
	15.15-16.00	Poster session	<i>List of posters below</i>
	16.00 -16.45	Coffee break	
S2	Chairperson: S. Abide		Room 300
	16.45-17.00	P. Kłosowski [et al.]	Experimental and numerical analysis of wood logs corner joints
	17.00-17.15	K. Fiedurek [et al.]	Modelling the twin-screw extrusion process - a case study of a poly(lactic acid) biodegradable composite with flame retardant fillers
	17.15-17.30	M. Sofonea	Modelling, analysis and numerical simulation of a spring-rods system with unilateral constraints
	17.30-17.45	A. Ambroziak	Chemical, physical, and mechanical properties of old concrete – an example
	17.45-18.00	M. Troka [et al.]	Strain datasets of human abdominal wall and its clustering with self-organising maps
	19.00-22.00	Dinner Restauracja Filharmonia, address: Ołowianka 1, Gdańsk	

Friday	Time	Event	Title
	Chairperson: E. Florentin		Room 300
G3	9.00-9.45	Plenary lecture 3 Stephane Abide	Compact finite difference schemes, a higher-order discretisation for fluid flow simulation
G4	9.45-10.30	Plenary lecture 4 Jerzy Małachowski [et al.]	Energetically effective structures manufactured additively for crashworthiness - a review study
	10.30-11.00	Coffee break	
	Chairperson: I. Lubowiecka		Room 300
S3	11.00-11.15	B. Zwarztko [et al.]	Effect of composite shield deformation on blunt chest injuries from impact loading of 7.62×51mm FMJ Ball projectile
	11.15-11.30	D. Kaczor [et al.]	Polymer composites based on polylactide with carbon filler - production and properties
	11.30-11.45	F. Bonaldi [et al.]	Two-phase flows in deformable porous media with frictional contact at matrix – fracture interfaces
	11.45-12.00	F. Jan [et al.]	Application of machine learning in failure mechanics problems
	12.00-12.15	K. Szepietowska [et al.]	Uncertainty quantification for human abdominal wall mechanics
	12.15-12.30	Closing ceremony	Room 300
	12.30-14.00	Lunch Fahrenheit Courtyard, level 0	
	15.00-18.00	Sightseeing Gdańsk Meeting point: in front of Rossmann near Brama Wyżynna (Highland Gate), address: Wały Jagiellońskie 2	

List of posters

No.	Author	Title
1	D. Cekus [et al.]	Application of the design study to search for the optimal bell shape
2	P. Cyprys [et al.]	Implementation of a model to simulate plastic flow through a spiral mandrel by Chris Rauwendaal and its verification for thickness uniformity of the extruded blown film
3	J. Garus [et al.]	Dynamic stability of damped elements modeled with Bernoulli-Euler beams
4	S. Garus	Mechanical wave propagation in dynamic phononic structures
5	C. Han [et al.]	Numerical method to propagate uncertainties on parameters with non integer order PDE
6	S. Kalinowski [et al.]	Surgical implant for repairing hernia optimized for human torso movements
7	M. Krajewski	Analysis of the rotational stiffness of connections between selected steel profiles
8	A. Krolik [et al.]	Defects detection in the flat polyethylene and polyamide boards using air-borne ultrasound
9	K. Sokół [et al.]	Self leveling terrain rover with an active Rocker – Bogie suspension
10	S. Uzny [et al.]	Guiding the end of the column loaded by the jet engine in aspect of instability
11	K. Zerdzicki [et al.]	Influence of honeycomb printing pattern density and thickness of cortical layer on mechanical response of proximal end of 3D printed femur