

Programme of the 2nd Workshop on “Auxetics and Related Systems”

Date/Time	Chairman	Lecturer	Tea break
<u>Friday:</u>			
13:00	Lunch		
14:30	Opening		
14:45	<i>Bogdan Maruszewski</i>	Attila Imre	
<u>On the existence of negative pressure states</u>			
15:45	<i>Vitaly Novikov</i>	Bogdan Maruszewski	
<u>On nonclassical thermomechanical properties of a vortex field in superconductors</u>			
			16:45 – 17:00
17:00	<i>Miroslaw Dudek</i>	Jacek Dzedzic	
<u>Combining tight-binding and Molecular Dynamics methods to model the behaviour of metals in the plastic regime</u>			
		Grzegorz Bergmanski	
<u>Structural analysis of computer-simulated materials</u>			
18:30	Dinner and welcome party		
<u>Saturday:</u>			
8:00	Breakfast		
9:00	<i>Peter Pikhitsa</i>	Rod Lakes	
<u>Performance of solids with reversed properties: viscoelasticity and stability</u>			
10:00	<i>Gaoyuan Wei</i>	Andrew Alderson	
<u>Mass transport properties of auxetic materials</u>			
			11:00 – 11:15
11:15	<i>Attila Imre</i>	Krzysztof Wojciechowski	
<u>Surprising elastic properties of some aperiodic solids of cubic symmetry</u>			
12:30	Lunch		
14:00	<i>Fabrizio Scarpa</i>	Peter Pikhitsa	
<u>Architektura of cylinders with implications for materials with negative Poisson's ratio</u>			
		Joseph Grima	
<u>On rotating 'rigid' and 'semi-rigid' units and their potential for auxetic behaviour</u>			
			16:00 – 16:15
16:15	<i>Andrew Alderson</i>	Chris Smith	
<u>Mechanisms for negative thermal expansion and its links with negative Poisson's ratio</u>			
		Tadeusz Paszkiewicz	
<u>Anisotropic properties of mechanical characteristics and auxeticity of cubic crystalline media</u>			
18:30	Banquet		

Date/Time	Chairman	Lecturer	Tea break
<u>Sunday:</u>			
8:00	Breakfast		
9:00	Posters	<i>Jarostaw Rybicki</i>	
12:30	Lunch		
14:00	<i>Rod Lakes</i>	Fabrizio Scarpa	
<u>Dynamic Poisson's ratio and fatigue properties of auxetic PU open cell foams</u>			
		Frank Nazare	
<u>Modelling the α-to-β phase change in Cristobalite</u>			
			16:00 – 16:15
16:15	<i>Chris Smith</i>	Naveen Ravirala	
<u>Characterisation and modelling of auxetic polymeric products</u>			
		Konstantin Tretiakov	
<u>Simulation of elastic properties of soft particles in two and three dimensions</u>			
			17:45 – 18:00
18:00	Round Table		
20:00	Bonfire		
<u>Monday:</u>			
8:00	Breakfast		
9:00	Excursion to Rogalin and Kórnik		
14:00	Lunch		
15:00	<i>Krzysztof Wojciechowski</i>	Hajime Kimizuka	
<u>Atomistic characterization of structural and elastic properties of auxetic crystalline SiO₂</u>			
		Gaoyuan Wei	
<u>Simulation of the first man-made re-entrant organometallic network</u>			
			17:00 – 17:15
17:15	<i>Hajime Kimizuka</i>	Mirosław Dudek	
<u>New algorithm for molecular-dynamics simulations of auxetics</u>			
		Jarostaw Rybicki	
<u>EXAFS as a local structural probe for auxetic materials</u>			
18:30	Dinner		

Date/Time	Chairman	Lecturer	Tea break
<u>Tuesday:</u>			
8:00	Breakfast		
9:00	<i>Tadeusz Paszkiewicz</i>	Kim Alderson	
	<u>Microstructural evolution in the processing of auxetic polymers</u>		
		Nikos Gouskos	
	<u>FMR resonance field shift of magnetic nanoparticles or agglomerates embedded in a nonmagnetic matrix</u>		
			10:45 – 11:00
11:00	<i>Kim Alderson</i>	Teik-Cheng Lim	
	<u>Stiffness studies of some semi-auxetic laminates</u>		
		Larry Peel	
	<u>Exploration of high and negative Poisson's ratio elastomer-matrix laminates</u>		
12:30	Lunch		
14:00	<i>Nikos Gouskos</i>	Manabendra Mukherjee	
	<u>Novel structure and swelling dynamics in ultrathin CdS-polyacrylamide nanocomposite films</u>		
		Tomasz Streck	
	<u>Computer simulation of heat transfer through a ferrofluid</u>		
16:00	Closing		
17:30	Dinner		
18:30	Return to Poznań		