



Programme

Chair: Assoc. Prof. Tatjana Glaskova-Kuzmina		
10:00–10:05	<u>Tatjana Glaskova-Kuzmina</u> <i>University of Latvia, Riga, Latvia</i>	Opening of the Conference special session
10:05–10:20	<u>Andrejs Krauklis, Floriane Verceux, and Sotirios Grammatikos</u> <i>Norwegian University of Science and Technology, Gjøvik, Norway</i>	Quantitative structure-property relationships for non-destructive evaluation of aging in polymers
10:20–10:35	<u>Stanislav Stankevich, Daiva Zeleniakienė, Jevgenijs Sevčenko, Olga Bulderberga, Katerina Zetkova, Joao Tedim, and Andrey Aniskevich</u> <i>University of Latvia, Riga, Latvia Kaunas University of Technology, Kaunas, Lithuania SYNPO, Pardubice, Czech Republic Campus Universitário de Santiago, Aveiro, Portugal</i>	Moisture absorption and its modelling of polymer systems incorporated with layered double hydroxide particles
10:35–10:50	<u>Monika Chomiak, Mateusz Małysiak, Małgorzata Szymiczek, Michał Szafron, Bartosz Wolny, Oliwia Cudnik, Maciej Smagula, and Łucja Wantuch</u> <i>Silesian University of Technology, Gliwice, Poland</i>	Advanced structural analysis of epoxy-carbon composites for lightweight bicycle frames
10:50-11:05	<u>Mustafa Dündar, Ergün Ekici, and İlyas Uygur</u> <i>Çanakkale Onsekiz Mart University, Çanakkale, Turkey Düzce University, Duzce, Turkey</i>	Numerical investigation and optimisation of low velocity impact behaviour of thermoplastic based composite materials with different fibre types
11:05-11:20	<u>Mostafa Sadeghian, Arvydas Palevicius</u> <i>Kaunas University of Technology, Kaunas, Lithuania</i>	Application of the differential quadrature numeric technique to study deflection and stability of ultra-small- scale plates
11:20-11:35	<u>Leons Stankevics, Olga Bulderberga, Jevgenijs Sevčenko, and Andrey Aniskevich</u> <i>University of Latvia, Riga, Latvia</i>	Linear and nonlinear viscoelastic models for creep of 3D printed polyethylene terephthalate glycol samples

11:35-11:50	<u>Mughees Shahid</u> and Daiva Zeleniakiene <i>Kaunas University of Technology, Kaunas, Lithuania</i>	Comparative investigations and prediction of elastic properties in various fibre systems of hemp reinforced bio-epoxy plastic composite using numerical and analytical methods
11:50-12:05	Virtual coffee break	
12:05-12:20	<u>Anish Niranjn Kulkarni,</u> Andrejs Pupurs, and Mārtiņš Irbe <i>Riga Technical University, Riga, Latvia</i>	Manufacturing of high-performance thermoset composites using electromagnetic induction heating
12:20-12:35	<u>Karina Dragašiūtė,</u> Gediminas Monastyreckis, and Daiva Zeleniakiene <i>Kaunas University of Technology, Kaunas, Lithuania</i>	Localized epoxy curing technology for enhanced aviation composite bonding
12:35-12:50	<u>Rudolfs Gravitis,</u> Oskars Platnieks, and Sergejs Gaidukovs <i>Riga Technical University, Riga, Latvia</i>	Melt blending-induced cross-linking in fiber-reinforced biopolyesters for advanced bio-based composites
12:50-13:05	<u>Piotr Zagulski</u> and Rafał Chatys <i>Kielce University of Technology, Kielce, Poland</i>	Effect of post-curing on the mechanical properties of polymer composites
13:05-13:20	<u>Sultan Ullah</u> and Giedrius Janusas <i>Kaunas University of Technology, Kaunas, Lithuania</i>	Mechanical performance and impact resistance of polymer composites enhanced by glass microspheres and a hybrid matrix
13:20-13:35	<u>Martins Nabels-Sneiderds,</u> Oskars Platnieks, Anda Gromova, Liga Orlava, and Sergejs Gaidukovs <i>Riga Technical University, Riga, Latvia</i>	High-barrier packaging film application: biodegradable poly (butylene succinate) laminate with nanocellulose
13:35-13:50	<u>Justas Ciganas,</u> Loreta Kelpsiene, and Urte Cigane <i>Siauliai State Higher Education Institution, Siauliai, Lithuania</i>	Research and development of innovative composite for roofing applications
13:50-14:05	Virtual coffee break	
14:05-14:20	Monika Chomiak, <u>Iwona Gródek,</u> Małgorzata Szymiczek, Martyna Gawlas, Martyna Rzepiela, Julia Wawrzynek, Jakub Otyński, and Paulina Ferdyn <i>Silesian University of Technology, Gliwice, Poland</i>	Accelerated aging and lifetime assessment of organic filler-modified composites
14:20-14:35	<u>Elina Vindedze,</u> Tatjana Glaskova- Kuzmina, Partel-Peeter Kruuv, Didzis Dejus, Janis Jatnieks, Maksims Jurinovs, and Sergejs Gaidukovs <i>AM Craft, Riga, Latvia</i> <i>University of Latvia, Riga, Latvia</i> <i>Riga Technical University, Riga, Latvia</i>	Characterization and comparative analysis of ISO and ASTM standards for mechanical properties of ULTEM™ 9085
14:35-14:50	<u>Nawres J. Al-Ramahi,</u> Roberts Joffe,	Electro-thermal performance of carbon fiber

	and Patrik Fernberg Luleå University of Technology, Luleå, Sweden	composites for ice prevention applications
14:50-15:05	<u>Muhammad Imran Rameel,</u> Gediminas Monastyreckis, and Daiva Zeleniakienė <i>Kaunas University of Technology,</i> <i>Kaunas, Lithuania</i>	Integrating MXene coatings into composite materials for enhanced strain sensing
15:05-15:20	<u>Mohamad Alsaadi,</u> Declan M. Devine, and Eoin P. Hinchy <i>Technological University of the Shannon,</i> <i>Athlone, Ireland</i> <i>University of Limerick, Limerick, Ireland</i>	A comparison study on the shape memory and viscoelastic behaviour of 4D printed photocurable methacrylate and epoxy-based resins
15:20-15:35	<u>Zeenat Akhter</u> and Arvydas Palevicius <i>Kaunas University of Technology,</i> <i>Kaunas, Lithuania</i>	Piezoelectric polymer PVDF sensors for advanced energy harvesting and sensing applications
15:35-15:50	<u>Müslüm Kaplan</u> <i>Bartın University, Bartın, Turkey</i>	Development and characterization of conductive polymer nanocomposites and their melt-spun filaments for smart textile applications
15.50–16:00	Concluding remarks	