



80<sup>th</sup> International Scientific  
Conference of the  
University of Latvia 2022

## Advanced Composites and Applications

Tuesday, 15 February 2022, 10.00 AM, online

### Programme

<b>Chair: Assist. Prof. Tatjana Glaskova-Kuzmina</b>		
<b>10:00-10:05</b>	<b>Tatjana Glaskova-Kuzmina</b> <i>University of Latvia, Riga, Latvia</i>	<b>Opening of the Conference special section</b>
<b>10:05-10:20</b>	<b>Andrey Krauklis</b> <i>University of Latvia, Riga, Latvia</i>	<b>Modular paradigm in the multiscale modeling of material aging</b>
<b>10:20-10:35</b>	<b><u>Anna Kufel</u> and <u>Stanisław Kuciel</u></b> <i>Cracow University of Technology, Cracow, Poland</i>	<b>Biopolypropylene hybrid composites reinforced with natural fibers</b>
<b>10:35-10:50</b>	<b><u>Karolina E. Mazur</u>, <u>Natalia Pieszczyk</u>, and <u>Stanisław Kuciel</u></b> <i>Cracow University of Technology, Cracow, Poland</i>	<b>Environmentally friendly polymer composites based on poly (3-hydroxybutyrate-co-3-hydroxyvalerate) (PHBV) reinforced with lignocellulosic fillers</b>
<b>10:50-11:05</b>	<b><u>Zainab Al-Maqdasi</u>, <u>Liva Pupure</u>, <u>Nazanin Emami</u>, and <u>Roberts Joffe</u></b>  <i>Luleå University of Technology, Luleå, Sweden Riga Technical University, Riga, Latvia</i>	<b>Analysis of long-term performance of wood polymer composites with added multifunctionality</b>
<b>11:05-11:20</b>	<b><u>Leons Stankevics</u>, <u>Andrey Aniskevich</u>, and <u>Vladimir Spacek</u></b> <i>University of Latvia, Riga, Latvia SYNPO, Pardubice, Czech Republic</i>	<b>Mechanical properties of epoxy resin filled with core-shell rubber nanoparticles</b>
<b>11:20-11:35</b>	<b><u>Sharath P. Subadra</u>, <u>Paulius Griskevicius</u></b> <i>Kaunas University of Technology, Kaunas, Lithuania</i>	<b>Impact induced damage in fibre reinforced composites and the effect of matrix dominant properties on the effect of damage propagation</b>

11:35-11:50	<b>Piotr Zagulski and Rafał Chatys</b> <i>Kielce University of Technology, Kielce, Poland</i>	<b>Forecasting the aging of fiber composites made by vacuum methods</b>
11:50-12:05	<b>Kestutis Špakauskas, Paulius Griškevičius</b> <i>Kaunas University of Technology, Kaunas, Lithuania</i>	<b>Analysis of damage recovery and self-healing possibilities in fiber-reinforced composite structures with thermoplastic matrix</b>
12:05-12:20	<b>Prasad Shimpi, Daiva Zeleniakiene</b> <i>Kaunas University of Technology, Kaunas, Lithuania</i>	<b>Structural health monitoring of 3D woven composites using MXene nanoparticles</b>
12:20-12:35	<b>Tatjana Glaskova-Kuzmina, Stanislav Stankevich, Andrey Anishevich, Evgeni Ovodok, Sergey Poznyak, Gediminas Monastyreckis, and Daiva Zeleniakienė</b> <i>University of Latvia, Riga, Latvia</i> <i>Belarusian State University, Minsk, Belarus</i> <i>Kaunas University of Technology, Kaunas, Lithuania</i>	<b>MXene-doped polymer coatings demonstrating de-icing for aircraft applications</b>
12.35-12:45	<b>Conclusions, discussions</b>	