



## Programme

<b>Chair: Mg. Lāsma Bugovecka</b>		
<b>10:00–10:05</b>	<b>Opening</b>	
<b>10:05–10:35</b>	<b>Juris Dzelme</b>	Artificial intelligence, human values and nanotechnologies.
<b>10:35–10:50</b>	<b>Gunta Kizane, Liga Avotina, Nadina Tina Vanaga, Arturs Zarins</b>	Implementation of sheep wool fibers in air filtrating systems for absorption of volatile organic compounds.
<b>10:50–11:05</b>	<b>Rouz Barjoud, Yelyzaveta Rublova, Vitaljis Lazarenko, Jana Andzane, Raitis Sondors, Donats Erts</b>	New functional aerogels for electrochemical applications.
<b>11:05–11:20</b>	<b>Arturs Zarins, Liga Avotina, Annija Elizabete Goldmane, Aija Trimdale-Deksne, Kristaps Sarsuns, Jelena Kirilova</b>	Thermal stability and decomposition processes of fluorescent benzantrone-based dyes.
<b>11:20–11:35</b>	<b>Elmars Spalva, Jana Andzane, Donats Erts</b>	Bismuth selenide and nitrogen-doped MWCNT heterostructures for use in flexible thermoelectrics.
<b>11:35–11:50</b>	<b>Artis Jaunklavins, Rudolfs Janis Zabolockis, Ingars Reinholds, Elina Pajuste</b>	Occupational safety in working with tritium in research laboratories: development of an algorithm using model experiments.
<b>11:50–12:05</b>	<b>Kristofers Ozolins, Oskars Putans, Raimonds Poplausks, Juris Prikulis</b>	Modernization of legacy scientific equipment via remotely controlled adapter.
<b>12:05–12:35</b>	<b>Coffee break, discussions</b>	
<b>Chair: Dr. Artūrs Zariņš</b>		
<b>12:35–12:50</b>	<b>Lasma Bugovecka, Uldis Malinovskis, Sergejs Isajevs, Aiga Andrijanova, Andis Liepins, Donats Erts</b>	Analysis of human lung tissue biopsy material using atomic force microscopy.

<b>12:50–13:05</b>	<b>Līga Avotina, Annija Elizabete Goldmane, Marina Romanova, Aleksandrs Zaslavskis, Gunta Kizane, Yuri Dekhtyar</b>	Infrared spectrometry analysis of thermally treated silicon for fabrication of nanocapacitors.
<b>13:05–13:20</b>	<b>Elza Dzene, Jana Andzane, Donats Erts</b>	Use of Sb <sub>2</sub> Te <sub>3</sub> and single-wall nanotube heterostructures in the formation of thermoelectric samples by encapsulating them in different polymers.
<b>13:20–13:35</b>	<b>Ilga Lauma Leimane, Irina Oliseveca, Raimonds Poplausks, Donats Erts</b>	Different approaches to obtaining nanoporous anodic alumina membranes with AAO layer thickness over 60 μm by anodisation in sulfuric acid electrolyte.
<b>13:35–13:50</b>	<b>Anna Ansonē, Līga Avotina, Mihails Halitovs, Arturs Zarins</b>	Investigation of radiation-induced effects in lithium orthosilicate-based ceramic breeder materials using Fourier transform infrared spectrometry.
<b>13:50–14:05</b>	<b>Davis Gavars, Raitis Sondors, Margarita Volkova, Donats Erts, Jana Andzane</b>	Effect of synthesis parameters on the morphology and thermoelectric properties of hybrid metal oxide nanowire arrays.
<b>14:05–14:10</b>	<b>Closing remarks</b>	