



## CONFERENCE PROGRAMME

Venue: Riga Technical University, Faculty of Materials Science and Applied Chemistry, Paula Valdena Street 3/7, Riga, Latvia, LV-1048.

Wednesday, 30 <sup>th</sup> of May		
17:00 – 19:00	Registration and Welcome reception	1-st floor

Thursday, 31 <sup>st</sup> of May		
8:30 – 9:00	Registration	1-st floor
9:00 – 9:20	Opening ceremony Deputy Vice-Rector for Research <b>Prof. Gatis Bažbauers</b> Head of Institute of Silicate Materials <b>Prof. Gundars Mežinskis</b>	Room No. 101
9:20 – 11:00	Session I	Room No. 101
11:00 – 11:30	Refreshments, posters and exhibition	1-st floor
11:30 – 13:00	Session II	Room No. 101
13:00 – 13:50	Lunch break, posters and exhibition	Expo café
13:50 – 15:00	Session III	Room No. 101
15:00	Bus to Jaunmoku palace	1-st floor
17:00	Conference dinner	Jaunmoku palace

Friday, 1 <sup>st</sup> of June		
9:00 – 11:25	Session IV	Room No. 101
11:25 – 11:55	Refreshments, posters and exhibition	1-st floor
11:55 – 13:35	Session V	Room No. 101
13:35 – 14:25	Lunch break, posters and exhibition	Expo café
14:25 – 16:45	Session VI	Room No. 101
16:45	Closing remarks and discussions. Farewell party	1-st floor
17:30	Optional excursion to Old Town of Riga	1-st floor

Thursday, 31 <sup>st</sup> of May		
Session I		
Chairman: <b>Prof. X. Zhou, Prof. K. Baltakys</b>		
9:20 – 9:50	<i>Plenary lecture:</i> “Kilchoanite, $\alpha$ -C <sub>2</sub> SH and Hydroxyledegrewite: Hydrothermal Synthesis and Thermal Stability” <b>Prof. Kęstutis Baltakys (Lithuania)</b>	
9:50 – 10:20	<i>Plenary lecture:</i> “Alkali-activated Binder from Tungsten Mining Waste and Waste Glass” <b>Prof. Xiangming Zhou (United Kingdom)</b>	
10:20 – 10:40	<i>Oral presentation:</i> “Influence of Silica-fume Source on Crystallization of Xonotlite, Tobermorite and C-S-H gel” <b>PhD student Felipe Marti-Montava (Belgium)</b>	
10:40 – 11:00	<i>Oral presentation:</i> “Temperature Influence on Rankinite Carbonation Hardening Process” <b>PhD student Agne Smigelskyte (Lithuania)</b>	

Session II		
Chairman: <b>Prof. J. Szczerba, Prof. J. Grabis</b>		
11:30 – 12:00	<i>Plenary lecture:</i> “From Traditional to Smart Refractories” <b>Prof. Jacek Szczerba (Poland)</b>	
12:00 – 12:20	<i>Oral presentation:</i> “Highly Porous Cordierite Ceramic with Additive of Some Nanopowders” <b>Assoc.Prof. Ruta Svinka (Latvia)</b>	
12:20 – 12:40	<i>Oral presentation:</i> “The Effect of Adsorption Temperature on the Uptake of Cu <sup>2+</sup> , Co <sup>2+</sup> and Cr <sup>3+</sup> Ions by Hydrotalcite” <b>Dr. Agnė Bankauskaitė (Lithuania)</b>	
12:40 – 13:00	<i>Oral presentation:</i> “Study of the Performance Characteristics of Erbium-containing Laser Glasses” <b>PhD student Dmitry Petrov (Ukraine)</b>	

Session III	
Chairman: Prof. X. Zhou, Prof. J. Grabis	
13:50 – 14:20	<i>Plenary lecture:</i> “Development Principles of Ceramic Matrix Composites with Extreme Dynamic Strength” <b>Prof. Laszlo A. Gömze (Hungary)</b>
14:20 – 14:40	<i>Oral presentation:</i> “Andalusite as a Source of the Gehlenite-Anorthite Materials Precursor” <b>Dr. Edyta Sniezek (Poland)</b>
14:40 – 15:00	<i>Oral presentation:</i> “Natural Radioactivity in Clay Ceramics and their Raw Materials in Latvia” <b>Dr. Daina Riekstina (Latvia)</b>

Friday, 1 <sup>st</sup> of June	
Session IV	
Chairman: Prof. M. Krunks, Prof. A. Medvids	
9:00 – 9:45	<i>Lecture provided by general sponsor of the conference SIA Armgate:</i> “Most recent data obtained with CAMECA SIMS instruments (NanoSIMS50L; IMS7f-Auto)” <b>Emmanuel Camecasse</b>
9:45 – 10:15	<i>Plenary lecture:</i> “Hydrodeoxygenation of Anisole under Mild Reaction Conditions by Using Ordered Mesoporous Silica with Ru or Pt Atoms” <b>Prof. Izabela Nowak (Poland)</b>
10:15 – 10:45	<i>Plenary lecture:</i> “Hierarchically Structured Electroconductive Oxide Ceramics” <b>Prof. Irina Hussainova (Estonia)</b>
10:45 – 11:05	<i>Oral presentation:</i> “Correlation Between Optical, Morphological and Compositional Properties of GeSn Layer Irradiated by Infrared Nd:YAG Laser Radiation” <b>Dr. Pavels Onufrijevs (Latvia)</b>
11:05 – 11:25	<i>Oral presentation:</i> “Low-temperature ZnO and Cu <sub>x</sub> O-ZnO Heterostructure Formation on Glass and Fabric Substrates” <b>Student Raivis Eglitis (Latvia)</b>

Session V	
Chairman: Prof. I. Hussainova, Assoc.Prof. R. Svinka	
11:55 – 12:25	<i>Plenary lecture:</i> “Novel Inorganic Materials for Photovoltaics” <b>Prof. Malle Krunks (Estonia)</b>
12:25 – 12:55	<i>Plenary lecture:</i> “Optical Properties of Quantum Cones Formed in Semiconductors by Laser Radiation” <b>Prof. Arturs Medvids (Latvia)</b>
12:55 – 13:15	<i>Oral presentation:</i> “The Matrix Effect and Application of the Multi-parameter Optimization Method for X-ray Spectrometric Determination of the Quantitative Composition of Clays” <b>PhD student Anna Trubaca-Boginska (Latvia)</b>
13:15 – 13:35	<i>Oral presentation:</i> “The Synthesis of Wollastonite from Silica Gel Waste” <b>Student Andrius Gineika (Lithuania)</b>

Session VI	
Chairman: Prof. K. Baltakys, Prof.G. Mezinskis	
14:25 – 14:45	<i>Oral presentation:</i> “Influence of WO <sub>3</sub> Amount on the Properties of Mullite Ceramics” <b>Dr. Ludmila Mahnicka-Goremikina (Latvia)</b>
14:45 – 15:05	<i>Oral presentation:</i> “Porous Cordierite Ceramics with Illite Clay Additive: Synthesis and Properties” <b>PhD student Maris Rundans (Latvia)</b>
15:05 – 15:25	<i>Oral presentation:</i> “Crack Reduction in Clay Bricks by Surfactants” <b>PhD student Sandra Guzlina (Latvia)</b>
15:25 – 15:45	<i>Oral presentation:</i> “Development of Biomorphic Cellular Ceramic using Illite Clay” <b>Student Martins Randers (Latvia)</b>
15:45 – 16:05	<i>Oral presentation:</i> “Evaluation of the Physical and Mechanical Characteristics of Nanostructured Antifriction Coatings Based on Ti-Cu” <b>PhD student Darja Andrejeva (Latvia)</b>
16:05 – 16:25	<i>Oral presentation:</i> “Evaluation of the Physical and Mechanical Characteristics of Multi-Layer Corrosion Resistant Nanostructured Metal Coatings” <b>PhD student Gints Rijkuris (Latvia)</b>
16:25 – 16:45	<i>Oral presentation:</i> “Research on Properties of High Performance Foamed Concrete” <b>PhD student Eva Namsone (Latvia)</b>