



Joint International Conference
Functional Materials and Nanotechnologies and
Nanotechnology and Innovation in the Baltic Sea Region

FM&NT - NIBS 2022

Riga, Latvia July 3 — July 6, 2022

PROGRAM







Welcome Message to the

FM&NT - NIBS 2022 PARTICIPANTS

Dear Colleagues,

We welcome you to the Joint International Conference "'Functional Materials and Nanotechnologies' and 'Nanotechnology and Innovation in the Baltic Sea region'" (FM&NT - NIBS) that is being hosted in Riga.

The FM&NT is a continuation of our annual meetings that were postponed and only interrupted in 2020 due to the epidemiological safety measures during Covid-19. It was first organized in 2006 by the Institute of Solid State Physics, University of Latvia (ISSP UL) in Riga. Since 2013 FM&NT conferences have turned over a new page — becoming a common conference of all three Baltic countries. Now it is being organized periodically by the ISSP UL, the University of Tartu, and Vilnius University.

This year, the 4th international conference NIBS 2022 is organized jointly by the University of Latvia, the University of Southern Denmark, the Kaunas University of Technology, Lithuania, and the North German Initiative Nanotechnology (NINa SH) in cooperation with Kiel University, Germany. The first NIBS conference took place in Lithuania in 2017; since then, the event has taken place in Denmark, Poland, and due to the Covid pandemic, also online. The NIBS conference brings together researchers and business stakeholders from the Baltic Sea Region to share the latest achievements in research, innovative solutions, and applications in the field of nanotechnology.

The purpose of the joint FM&NT - NIBS conference is to gather material scientists, physicists, chemists, research staff, engineers, and experts in a wide range of the most demanding application areas. Also including students from universities, research institutes, and related industrial companies. The conference topics include Optical materials; Nanocomposites and ceramics; Thin films and coatings; Energy harvesting and storage; Electronic and photonic devices, and many more. 170 different plenary sessions, invited, oral, and poster presentations of high scientific quality will be given throughout the conference. The joint event will also provide a platform for future collaboration promoting interdisciplinary research.

The FM&NT - NIBS conference will take place at the House of Science, Academic Centre of the University of Latvia in Riga. The conference dinner will be held at the Botanical Garden of the University of Latvia, which is celebrating its 100th anniversary this year.

We thank all supporters - ERDF project "The University of Latvia in the European Research Area - excellence, activity, mobility, capacity" (Project No. 1.1.1.5/18/I/016); CAMART² (European Union's Horizon 2020 Framework Programme H2020-WIDESPREAD-01-2016-2017-TeamingPhase2, Grant Agreement No: 739508), Horizon 2020 project "CanBioSe - Novel 1D photonic metal oxide nanostructures for early stage cancer detection" (Grant Agreement No: 778157), Raith GmbH, and SIA LaboChema Latvija for making this conference happen!

Thank you all for coming, and we hope you will have the most successful and enjoyable conference!

Chairpersons of the FM&NT - NIBS 2022 conference:

Dr. habil. phys. **Andris Šternbergs**, Institute of Solid State Physics, University of Latvia

Prof. Dr. chem. **Donāts Erts**, Institute of Chemical Physics, University of Latvia, Riga, Latvia

SCIENTIFIC TOPICS OF THE FM&NT - NIBS 2022

Nanomaterials and technologies:

Theory and modelling, progressive methods, technologies and design for production, investigation of nano: particles, tubes, composites, core-shell structures; 3-D printing, thin films and coatings

Functional Materials:

Theory and modelling, functional (inorganic, organic, and hybrid) materials for electronics and photonics

Green Energy and Environment:

Theory and modelling, perspective materials, technologies for harvesting and storage of renewable energy: hydrogen, fuel cells, batteries, photovoltaics, piezoelectric, thermoelectric, LED and OLEDs, and development of diverse energy systems.

Bioengineering materials and biotechnologies:

Theory and modelling, biomaterials, micro and nanobiotechnology, biopolymers, applications in bioengineering, biomedical engineering, and technology.

The FM&NT - NIBS 2022 conference starts with the "Motivation day", where experienced researchers will present their latest achievements and results. The next day is the "Innovation day" showing science and innovation synergy, and it will be concluded with a panel discussion 'From lab to fab. What it takes to make a business out of university research'. And last but not least is the "Young Researchers' day" where along with experienced scientists, oral presentations will be given by young researchers.

LIST OF PREVIOUS FM&NT CONFERENCES

Riga (Latvia) 2006 - 2012 annually

Tartu (Estonia) 2013

Riga (Latvia) 2014 Joint RCBJSF and FM&NT Symposium

Vilnius (Lithuania) 2015 Tartu (Estonia) 2017 Riga (Latvia) 2018

Vilnius (Lithuania) 2021 Held online

LIST OF PREVIOUS NIBS CONFERENCES

Kaunas (Lithuania) 2017 Sønderborg (Denmark) 2018

Poznan (Poland) 2019 Joint NanoTech Poland 2019 and NIBS conference & expo

Hamburg (Germany) 2021 Held online

FM&NT - NIBS 2022 COMMITTEES

Conference chairs: Dr. habil. phys. Andris Sternberg, Prof. Dr. chem. Donāts Erts

FM&NT International Organizing Committee

- Prof. Jūras Banys, Vilnius University, Lithuania
- Prof. Antonio Bianconi, Rome International Center for Materials Science Superstripes, Italy
- Prof. Ming-Chi Chou, National Sun Yat-sen University, Taiwan (R.O.C)
- Prof. Marco Kirm, University of Tartu, Estonia
- Prof. Maija Kuklja, National Science Foundation, USA
- Dr. Emeritus Jiri Kulda, Institut Laue-Langevin, France
- Dr. Mārtiņš Rutkis, Institute of Solid State Physics, University of Latvia
- · Prof. Pauls Stradins, Colorado School of Mines, USA

FM&NT - NIBS 2022 Program Committee

- Assoc. prof., Anatolijs Šarakovskis, Institute of Solid State Physics, University of Latvia
- Dr. Andris Anspoks, Institute of Solid State Physics, University of Latvia
- Prof. Mattias Hammar, Royal Institute of Technology (KTH), Sweden
- Prof. Eugene Kotomin, Max Planck Institute for Solid State Research, Germany
- Dr. Alexei Kuzmin, Institute of Solid State Physics, University of Latvia
- Dr. Qin Wang, Research Institutes of Sweden (RISE), Sweden
- · Prof. Toomas Plank, Tartu University, Estonia
- Prof. Nils Nordell, Royal Institute of Technology, Electrum laboratory (KTH), Sweden

NIBS conference co-chairs

- Prof. Franz Faupel, Kiel University, Germany
- Prof Horst-Guenter Rubahn, University of Southern Denmark. Denmark
- Prof. Sigitas Tamulevicius, Kaunas University of Technology, Lithuania
- Assoc. Prof. Jacek Fiutkowski, University of Southern Denmark. Denmark
- Dr. Christian Ohrt, North German Initiative Nanotechnology, Germany

NIBS Advisory board

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- · Dr. Rvnno Lohmus. Tartu University. Estonia
- Prof. Ansger Mortensen, University of Southern Denmark, Denmark

LOCAL ORGANIZING COMMITTEE

Līga Grīnberga, Signe Laimiņa-Koka, Elīna Kerre, Gunta Kunakova, Inese Jansone, Ingars Lukoševics, Linda Ungure, Dace Ņilova, Rihards Ruska, Raitis Kaspars Sika, Roberts Oliņš, Viktors Vibornijs, Edvards Strods, Andrejs Terehovs, Elmārs Spalva, Annija Dinija Miežubrāle, Didzis Salnājs, Dāvis Gavars, Vanda Voikiva, Lāsma Bugovecka, Raitis Sondors, Aleksandrs Dutovs.

All committees sincerely hope that the FM&NT - NIBS 2022 conference will give all participants new insights into the widespread development of functional materials and nanotechnologies, enhance the circulation of information released at the meeting, and will bring new friends, contacts, and common projects!

ORGANIZERS







SUPPORTERS OF THE CONFERENCE





ERDF project "University of Latvia and Institutes in European Research Area - Excellence, Activity, Mobility, Capacity", No: 1.1.1.5/18/I/016

INVESTING IN YOUR FUTURE



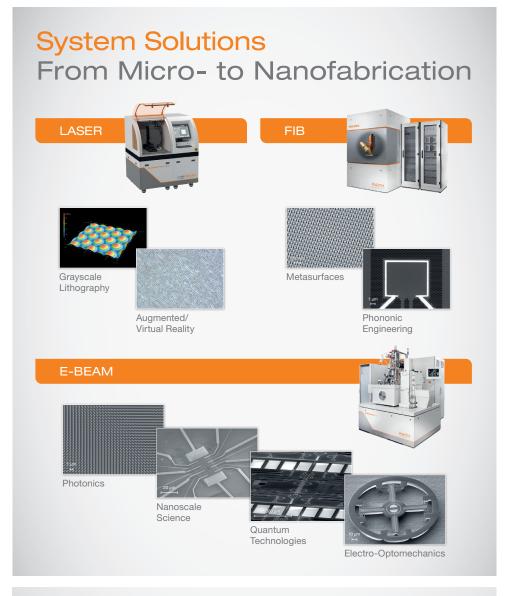
Institute of Solid State Physics, University of Latvia as the Center of Excellence has received funding from the European Union's Horizon 2020 Framework Programme H2020-WIDESPREAD-01-2016-2017-TeamingPhase2, Grant Agreement No: 739508, project CAMART²



European Union's Horizon 2020 project "CanBioSe -Novel 1D photonic metal oxide nanostructures for early stage cancer detection", Grant Agreement No: 778157

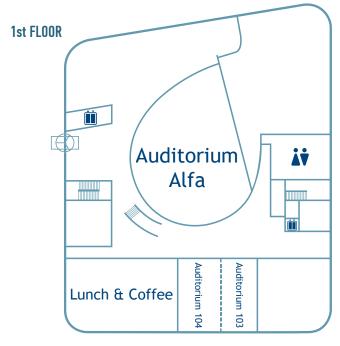


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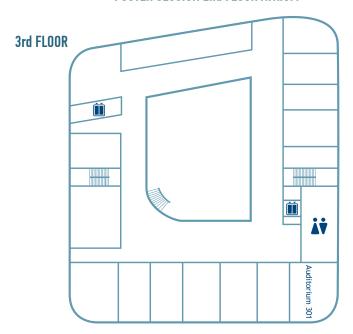




FM&NT - NIBS 2022 SITE



POSTER SESSION 2nd FLOOR ATRIUM



FM&NT - NIBS 2022 AGENDA AT A GLANCE

	July 3 – COME TOGETHER DAY
16:00	Registration
16:00-18:00	Welcome party

Plenary - 40 min
Invited - 30 min
Oral - 20 min

NIBS	
Biosensor materials	
Functional materials (FM) - Bio	
Nanotechnologies	
FM - Properties & structure	
Photonics	
FM - Theory & modelling	
FM - For Nuclear Energy	

July 4 - Motivation day							
08:30	Registration						
		Auditorium 110 - Alfa	l				
09:00	"Opening Addresses representatives"	of the conference FM	1&NT - NIBS 2022				
09:20	Anne Staubitz						
10:00	Muhammet S. Topra	k					
	Coffee 10:40 - 11:00)					
	Aud. Alfa 110	Aud. 103/104	Aud. 301				
11:00	AV. Mudring	S. Račkauskas	A. Ivask				
11:30	A. Ramanavicius	A. Ramanavicius I. latsunskyi M. Bechelany					
12:00	A. Pogrebnjak	R. Viter	A. Tolstov				
12:20	A. Šutka	O. Sulaieva	V. Kisand				
12:40	P. Solař M. Pogorielov M. Tutkus						
	Lunch 13:00 - 14:00	l					
	Aud. Alfa 110	Aud. 103/104	Aud. 301				
14:00	S. Lara Avila	S. Vlassov	J. Montero-Amenedo				
14:30	E. Coy	K. Staliunas	S. Woodward				
15:00	M. Katkov	B. Berzina	B. Hamawandi				
15:20	J. Macutkevic	HM. Piirsoo	J. Andžāne				
15:40	S. Nedilko	A. Šarakovskis	D. Wlodarczyk				
	Photo & Coffee & Sn	acks 16:00 - 16:30					
	Poster session 16:30 - 18:30						

	July 5 - Innovation day					
08:30	Registration					
	Auditorium 110 - Alfa					
08:50	Technical information	in				
09:00	Morten Madsen					
09:40	Jiri Kulda					
	Coffee 10:20 - 10:40	D				
	Aud. Alfa 110	Aud. 103/104	Aud. 301			
10:40	T. Klassen	M. Kirm	J. Banys			
11:10	R. Zontovičius	G. Pucker	A. Scherz			
11:40	M. Rutkis	L. Grineviciute	J. M. Kahk			
12:00	A. Yaremchenko	J. Grūbe	A. Guļāns			
12:20	A. Ozols	R. Nedzinskas	E. Palaimiene			
	Lunch 13:00 - 14:00)				
		Auditorium 110 - Alfa	1			
14:00-	Panel Discussion: "F	rom lab to fab. What	it takes to make			
16:00	business out of university research."					
	Moderator: Prof. HG. Rubahn					
	Panelists: Romanas Zontovicius, Kaunas ST park Emil Højlund-Nielsen, CPHNano Lawrence Nsubuga, Aminic ApS					
16:30- 21:00						

July 6 – Young Researchers' Day					
08:30	Registration				
	Aud. Alfa 110	Aud. 103/104	Aud. 301		
09:00	S. Kumar	R. Jaaniso	M. F. Hoedl		
09:30	<u>G. Kunakova</u>	A. Ramanavičienė	E. Kotomin		
10:00	C. P. Canales	J. Prikulis	D. Gryaznov		
10:20	J. Szewczyk	K. Smits	A. Česnokovs		
	Coffee 10:40 - 11:00)			
	Aud. Alfa 110	Aud. 103/104	Aud. 301		
11:00	A. Tamulevičienė	E. Urbonavicius	S. Ubizskii		
11:30	S. Schröder	A. I. Popov	K. Traskovskis		
12:00	Š. Varnagiris	A. Šternbergs	A. Pidluzhna		
12:20	V. Krasnenko	E. Pajuste	M. Steponaitis		
12:40	S. Zakar	A. Chekhovska	T. Tiirats		
	Lunch 13:00 - 14:00)			
	Auditorium 110 - Alfa				
14:00	Zeynep Altintas				
14:40	Tony Donné				
15:20	Closing ceremony				
	Goodbye refreshments 15:40 - 17:00				

Joint International Conference

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FM&NT - NIBS 2022 PROGRAM

	Sunday, July 3 - COME TOGETHER DAY				
16:00	REGISTRATION				
	Auditorium 105/106				
16:00 -18:00	WELCOME PARTY & NETWORKING				

		Monday, July 4 - MOTIV	ATION DAY		
08:30 - 09:00	REGISTRATION				
Auditorium 110 - Alfa					
09:00 - 09:20	"Opening Addresses of the c	"Opening Addresses of the conference FMNT-NIBS 2022 representatives"			
09:20 - 10:00	Anne Staubitz	Azobenzenes and Diazocines for Light Switchable Materials	PL-1		
10:00 - 10:40	Muhammet S. Toprak	Development of promising nanostructured thermoelectric materials and their hybrids through sustainable chemical routes	PL-2		
10:40 - 11:00	COFFEE BREAK				
	NI	IBS (Auditorium 110 - Alfa)			
11:00 - 11:30	Anja-Verena Mudring	New and improved materials for energy applications enabled by ionic liquids and deep eutectics	INV-1		
11:30 - 12:00	Arunas Ramanavicius	Electrochemical methods for the development and investigation of novel materials	INV-2		
12:00 - 12:20	Alexander Pogrebnjak	Synthesis and characterization of WN/Ti-Si-N nanocomposite multilayer coatings	OR-1		
12:20 - 12:40	Andris Šutka	Mechanisms of polymer surface charge formation and application for energy harvesting	OR-2		
12:40 - 13:00	Pavel Solař	High resolution analysis of nanoparticle speed using a mechanical time-of-flight filter	OR-3		
	Biosenso	or Materials (Auditorium 103/104)			
11:00 - 11:30	Simas Račkauskas	Catalyst-free metal oxide nanowire growth and application	INV-3		
11:30 - 12:00	lgor latsunskyi	Highly regular laser-induced periodic surface silicon structures modified by MXene/TiO ₂ heterostructure for enhanced photodegradation	OR-4		

12:00 - 12:20	Roman Viter	Structure and optical properties of ZnFe20, /ZnO coreshell nanofibers, deposited by coaxial electrospinning	OR-5
12:20 - 12:40	Oksana Sulaieva	The role of medical laboratories in transdisciplinary research projects on biomaterials	OR-6
12:40 -13:00	Maksym Pogorielov	Conductive PCL-MXene electrospun membrane: development and biomedical evaluation	OR-7
	Functiona	al materials - bio (Auditorium 301)	
11:00 - 11:30	Angela Ivask	Nanomaterial-based surfaces - promising alternatives to antimicrobial applications	INV-4
11:30 - 12:00	Mikhael Bechelany	Functional nanomaterials for biosensor and bone regeneration	INV-5
12:00 - 12:20	Alexander Tolstov	Green photocatalytic composites from nanocrystalline TiO ₂ and biodegradable polymer binder for decontamination of wastewater	OR-8
12:20 - 12:40	Vambola Kisand	Antimicrobial activity of commercial photocatalytic SaniTise window glass	OR-9
12:40 - 13:00	Marijonas Tutkus	Super-resolution microscopy and the soft DNA curtains: high-throughput SM method for protein-DNA interaction studies	OR-10
13:00 - 14:00	LUNCH		
	N	IBS (Auditorium 110 - Alfa)	
14:00 - 14:30	Samuel Lara Avila	Graphene for sensors and (quantum) electronics	INV-6
14:30 - 15:00	Emerson Coy	Large Applicability of Polydopamine Coatings in Energy Production	INV-7
15:00 - 15:20	Mikhail Katkov	Nitrogen-doped MWCNTs with temperature stable thermoelectric sensitivity	OR-11
15:20 - 15:40	Jan Macutkevic	Synergy effects in hybrid epoxy composites with carbon and magnetic nanoinclusions	OR-12
15:40 - 16:00	Serhii Nedilko	Hybrid oxide glass ceramics materials: impact of interfaces and interphases	OR-13
	Nanote	chnologies (Auditorium 103/104)	
14:00 - 14:30	Sergei Vlassov	Manipulation and characterization of individual nanostructures	INV-8
14:30 - 15:00	Kestutis Staliunas	Nanostructures for intracavity spatial filtering in microlasers	INV-9
15:00 - 15:20	Baiba Bērziņa	Aluminum nitride — persistent luminescence material	OR-14
15:20 - 15:40	Helle-Mai Piirsoo	Influence to Hardness of Alternating Sequence of Atomic Layer Deposited Harder Alumina and Softer Tantala Nanolaminates	OR-15

15:40 - 16:00	Anatolijs Šarakovskis	Upconversion luminescence in erbium doped transparent oxyfluoride glass ceramics	OR-16
	Functional m	aterials - properties (Auditorium 301)	
14:00 - 14:30	José Montero	Multifunctional Chromogenic and Transparent Conducting Oxide Nanocoatings	INV-10
14:30 - 15:00	Simon Woodward	Organic-Composite Thermoelectrics: Balancing Performance, Sustainability and Ease of Synthesis	INV-11
15:00 - 15:20	Bejan Hamawandi	Nanostructured thermoelectric materials synthesized via solution chemical routes	OR-17
15:20 - 15:40	Jana Andžāne	Application of nanostructured materials for flexible thermoelectrics and energy-efficient buildings	OR-18
15:40 - 16:00	Damian Wlodarczyk	Novel double perovskites and their derivatives hosting rare-earth ions — a prelude to charge transfer phenomenon	OR-19
16:00 - 16:30	PHOTO, COFFEE, AND SNACK	S	
16:30 - 18:30	POSTER SESSION		

		Tuesday, July 5 - INNO	VATION DAY
08:30 - 08:50	- 08:50 REGISTRATION		
		Auditorium 110 - Alfa	
08:50 - 09:00	Technical Information		
09:00 - 09:40	Morten Madsen	Organic photovoltaics: from thin film synthesis to large scale manufacturing	PL-3
09:40 - 10:20	Jiri Kulda	From molecular dynamics simulations to diffuse scattering maps	PL-4
10:20 - 10:40	COFFEE BREAK		•
		NIBS (Auditorium 110 - Alfa)	
10:40 - 11:10	Thomas Klassen	Hydrogen storage: from nano materials to components	INV-12
11:10 - 11:40	Romanas Zontovičius	Evolut 4.0 accelerator by Kaunas STP	INV-13
11:40 - 12:00	Mārtiņš Rutkis	Story how useless thin film thermoelectric generator became ultra-fast laser power sensor	OR-20
12:00 - 12:20	Aleksey Yaremchenko	Perovskite-like La _{1-x} Pr _x NiO _{3-d} as oxygen electrode materials for solid oxide electrolysis cells	OR-21
12:20 - 12:40	Ainārs Ozols	What silica-based thin films could do for augmented reality displays?	OR-22

16	Nanotechnologies - photonics (Auditorium 103/104)			
	10:40 - 11:10	Marco Kirm	A Band Structure Engineering Concept Applied in Design of Novel Light Emitting Materials	INV-14
-10 -11	11:10 - 11:40	Georg Pucker	Silicon nanocrystals used in quantum random number generators, nonlinear optical waveguides for entangled photon generation, color centers in diamond	INV-15
17	11:40 - 12:00	Lina Grinevičiute	Nanostructured anisotropic multilayer coatings for the manipulation of laser radiation	OR-23
18	12:00 - 12:20	Jurģis Grūbe	Photolithography utilizing up-conversion luminescence in nanoparticles mixed with SU8 photoresist with/without organic compounds	OR-24
19	12:20 - 12:40	Ramūnas Nedzinskas	Optical spectroscopy of high-quality ZnO (0002) / Cu (111) thin films grown by electrodeposition	OR-25
		Functional m	naterials - structure (Auditorium 301)	
	10:40 - 11:10	Juras Banys	Phase transitions in metal organic frameworks	INV-16
	11:10 - 11:40	Andreas Scherz	Ultrafast material dynamics studies at the European XFEL	INV-17
DAY	11:40 - 12:00	Juhan Matthias Kahk	Computational Methods for Guiding Peak Assignment in X-ray Photoelectron Spectroscopy	OR-26
DAI	12:00 - 12:20	Andris Guļāns	Impact of spin-orbit interaction on structure of materials	OR-27
	12:20 - 12:40	Edita Palaimiene	ALN ceramics ferroelectric properties and phase transitions dynamics	OR-28
	13:00 - 14:00	LUNCH		
3			Auditorium 110 - Alfa	
4	14:00 - 16:00	0 - 16:00 "Panel Discussion: "From lab to fab. What it takes to make business out of university research." Moderator: Prof. HG. Rubahn, University of Southern Denmark Panelists: Romanas Zontovicius, Kaunas ST park, Emil Højlund-Nielsen, CPHNano, Lawrence Nsubuga, Aminic ApS"		
	16:00 - 16:30	GATHERING FOR THE EXCURS	SION BUS	
-12	16:30-21:00	EXCURSION & CONFERENCE	DINNER	

		Wednesday, July 6 - YOUNG RESEARCI	HERS' DAY
08:30 - 09:00	REGISTRATION		
		Auditorium 110 - Alfa	
09:00 - 09:30	Shailesh Kumar	On-chip source of polarized single photons with orbital angular momentum	INV-18
09:30 - 10:00	Gunta Kunakova	Charge transport in topological insulator nanostructures	INV-19
10:00 - 10:20	Camila Pía Canales	The decade of hydrogen: where are we heading to?	OR-29
10:20 - 10:40	Jakub Szewczyk	Application of biomimetic polydopamine 2D-like thin films for a significant enhancement of ZnO and TiO ₂ photocatalytic properties	OR-30
	Biosenso	or materials (Auditorium 103/104)	
09:00 - 09:30	Raivo Jaaniso	Graphene-based sensors for environmental monitoring	INV-20
09:30 - 10:00	Almira Ramanavičienė	Magnetic Gold-Coated Nanoparticles for Bioanalytical Application	OR-31
10:00 - 10:20	Juris Prikulis	Self-organized nanostructured metal and metal oxide containing multilayers for optical sensing	OR-32
10:20 - 10:40	Krišjānis Šmits	Structural and optical properties of oxide nanoparticles and nanostructures	OR-33
	Functional materia	als - Theory & modelling (Auditorium 301)	
09:00 - 09:30	Maximilian F. Hoedl	First-principles study of proton diffusion in BaFeO ₃₋₆	INV-21
09:30 - 10:00	Eugene Kotomin	First principles calculations of radiation defect properties in complex oxide crystals	INV-22
10:00 - 10:20	Denis Gryaznov	Ab-initio modelling elucidates materials trends for electrochemistry applications	OR-34
10:20 - 10:40	Andrejs Česnokovs	A first-principles study of point defects and electronic conductivity in ZnO	OR-35
10:40 - 11:00	COFFEE		
	N	IBS (Auditorium 110 - Alfa)	
11:00 - 11:30	Asta Tamulevičienė	SERS using Self-Assembled Nano Structures of Different Geometry. Special Case of Wires, Spheres and Triangles	INV-23
11:30 - 12:00	Stefan Schröder	The initiated chemical vapor deposition of tailored polymer thin films – Fundamentals to advanced functional applications	INV-24
12:00 - 12:20	Šarunas Varnagiris	Plasma treatment application for green hydrogen production via hydrolysis of waste aluminum in alkaline water	OR-35

12:20 - 12:40	Veera Krasnenko	Raman vibrational spectrum modeling of water splitting on multifaceted perovskite nanoparticles	OR-36
12:40 - 13:00	Sana Zakar	Electrochemically synthesized ternary transition metal sulfides for energy storage applications	OR-37
	FM&NT (F	or NucEnerg) (Auditorium 103/104)	
11:00 - 11:30	Egidijus Urbonavicius	Nuclear Fusion Research in Lithuania — history and perspectives	INV-25
11:30 - 12:00	Anatoli I. Popov	Deep understanding of advanced optical and dielectric materials for fusion diagnostic applications	INV-26
12:00 - 12:20	Andris Šternbergs	Energy and sustainability: progress in renewables and advanced "green" nuclear energetics	OR-38
12:20 - 12:40	Elīna Pajuste	Fuel retention in ITER-Like-Wall JET plasma facing components	OR-39
12:40 - 13:00	Anastasiia Chekhovska	Experimental studies of the 112Sn(g,n)111Sn and 112Sn(g,p)111m,gln reactions for p-nuclei production simulation	OR-40
	FM	- photonics (Auditorium 301)	
11:00 - 11:30	Sergii Ubizskii	Hyperbolic Phosphorescence Decay Kinetics: Empirical Formula and Theoretical Models	INV-27
11:30 - 12:00	Kaspars Traskovskis	Carbene-metal amides: an emerging class of highly efficient OLED emitters	INV-28
12:00 - 12:20	Anna Pidluzhna	Diethynyl Fluorenes as promising heavy-metal free emissive materials	OR-41
12:20 - 12:40	Matas Steponaitis	Sb ₂ S ₃ Solar Cells with Cost-effective Hole Transport Materials for Semi-transparent Applications	OR-42
12:40 - 13:00	Tauno Tiirats	Thermal, Mechanical, and Acoustic Properties of Polydimethylsiloxane Filled with Hollow Glass Microspheres	OR-43
13:00 - 14:00	LUNCH		
		Auditorium 110 - Alfa	
14:00 - 14:40	Zeynep Altintas	Biosensor applications of functional polymers	PL-5
14:40 - 15:20	Tony Donné	Why don't we have fusion yet?	PL-6
15:20 - 15:40	CLOSING OF THE CONFERENCE	CE CE	
15:40 - 17:00	GOODBYE REFRESHMENTS		

POSTER PRESENTATIONS

		FUNCTIONAL MATERIAL
Po-1	Sami Vuori	Detection of x-ray doses with color-changing hackmanites: mechanism and application
Po-2	Cecilia Agamah	Synthesis of Highly Photochromic Hackmanite from Natural Nepheline
Po-3	Guna Doke	Novel broadband near-infrared emitting long afterglow phosphor MgGeO ₃ : Cr ³⁺
Po-4	Georgijs Bakradze	Peculiarities of the local structure in a new high-entropy low-symmetry $(MnCoNiCuZn)WO_4$ tungstate oxide
Po-5	Jekabs Cirulis	Structure and stability of radiation defects in LiYF ₄
Po-6	Tomas Klinavičius	Design of Antireflective Structures for the Optical Wavelength Range
Po-7	Dace Nilova	Ultraviolet long-lasting luminescence of Ca ₂ Al ₂ SiO ₇ :Pr³+
Po-8	Robertas Grigalaitis	Dielectric properties of mixed halide perovskites
Po-9	Haralds Ozols	Enhancement and origin of photochromism in BaMgSiO ₄ :Fe
Po-10	Yaroslav Zhydachevskyy	Trapping, recombination and glow mechanisms in YAP:Mn ²⁺ crystals as promising TL/OSL detectors
Po-11	Leonid Rusevich	Computer modelling of water splitting on perovskite nanoparticles
Po-12	Arturs Zarins	Effects of sample preparation methods on luminescence of lithium orthosilicate-lithium metatitanate ceramic pellets
Po-13	Halil Arslan	Reactive e-beam evaporation of yttrium:A spectral and structural investigation of yttrium oxide and oxyhydride thin film
Po-14	Julija Grigorjevaite	Optical properties investigation of $\rm K_2Gd(PO_4)(WO_4):20\%Yb^{3+}$ as a function of $\rm Tm^{3+}$ concentration
Po-15	Ernests Einbergs	Mechanical stress visualization of additively built (3D printed) objects using mechanoluminescence
Po-16	Laima Trinkler	Optical properties of ZnMgO epilayers grown on ScAlMgO ₄ substrate
Po-17	Matas Steponaitis	No doping? No problem. Low cost carbazole enamines for efficient perovskite solar cells.
Po-18	Jevgenijs Gabrusenoks	Optical properties of Cu ₂ O single crystals and thin films
Po-19	Andis Poļaks	Fluorine doped tin oxide work function measurements using photoelectron emission yield spectroscopy
Po-20	Meldra Kemere	Luminescence properties and energy transfer in Dy³+/Eu³+ and Tb³+/Eu³+ doped oxyfluoride glasses and glass-ceramics
Po-21	Blessing Adejube	Collective Functionality of Resistive Switching in Nanoparticle Assemblies

Po-22	Edvards Strods	Ga ₂ O ₃ thin films deposited by liquid metal target sputtering
Po-23	Sergejus Balčiūnas	Dielectric properties of $[NH_4][Zn(HCOO)_3]$ metal formate framework doped with alkali metals
Po-24	Augustas Vaitkevičius	Macro- and micro-scale inhomogeneities in heavily doped gadolinium aluminum gallium garnet scintillator
Po-25	Pavels Rodionovs	Red and infrared luminescence in Cr³+ doped calcium aluminates with different Ca/Al content
Po-26	Martynas Kinka	Broadband dielectric investigation of PEBA/UIO-66 mixed matrix membranes
Po-22	Martins Zubkins	Optical properties of high-quality ZnO / SiO ₂ thin films grown by magnetron sputtering
Po-28	Monika Jokubauskaitė	Optical spectroscopy of rock-salt $Zn_{(x)}Mg_{(1-x)}$ 0 thin films with high (up to 85%) Zn content
Po-29	Alexander Molnar	Optimization of the chemical composition of CulnP $_2{\rm S}_{\rm 6}$ layered crystals for energy harvesting applications
Po-30	Yuriy Hizhnyi	Computational studies of atomic and electronic structures of "oxide crystal – oxide glass" interphases
Po-31	Raitis Grzibovskis	Photoelectrical properties of novel hole transport materials for semi- transparent solar cells
Po-32	Roberts Olins	Synthesis and use of functionalized graphene materials for energy storage
Po-33	Vitalii Liubachko	The appearance of the flexoelectric coupling near the ferrielectric phase transition in CulnP_2S_6 layered crystals
Po-34	Vanda Voikiva	Optimization of keratin extraction method from sheep wool
Po-35	Viktors Vibornijs	Tungsten oxide, copper and zinc containing anti-microbial thin film magnetron sputtering
Po-36	Martin Lind	Assessing The Performance of Graphene-Based Gas Sensors in Ambient Air
Po-37	Ciro Federico Tipaldi	Lattice dynamics and Raman and infrared reflectance spectra of YAlO ₃
Po-38	Gundars Strīķis	Role of nucleation layer in MOCVD growth of β-Ga ₂ O ₃ thin films
Po-39	Juhan Saaring	Time-resolved luminescence studies of ternary hexafluorides under synchrotron radiation excitation
Po-40	Barbara Garbarz-Glos	Preparation and electric characterization of lead-free ferroelectric ceramics based on sodium-potassium niobate
Po-41	Irina Tepliakova	ZnO-Schiff base composites for optical detection of coper ions
Po-42	Aleksandrs Začinskis	Iridium incorporation defects in gallium oxide: Ab-initio simulations.
Po-43	Astrida Berzina	Neoprene and ethylene-octene copolymer composites for temperature

Po-44	Madara Leimane	Luminescence and electron paramagnetic resonance of carbon-doped silica glass
Po-45	Maximilian F. Hoedl	The orbital nature of electron holes in BaFeO ₃₋₆ and implications for defect chemistry
Po-46	Emests Tropiņš	Optical writing in the structure of negative SU8 photoresist using up- conversion luminescence of Yb³+ and Tm³+ activated nano-particles
Po-47	Nikolay Ogurtsov	Chemiresistive gas sensors based on the core-shell nanocomposites of the conducting polymer
Po-48	Tetiana Samoilenko	UV-Curable Polymer Materials for Coating and On-Site Repair of Photovoltaic Modules of Solar Cells
Po-49	Lyudmila Kosyanchuk	New laser materials based on polyurethane with chemically bonded polymethine dye
Po-50	Nataliia Davydenko	Stabilized carbon nanotube/polypyrrole nanocomposite for VOC detection
Po-51	Iryna Myroniuk	The effect of polyaniline content on the gas sensing properties of conducting halloysite—polyaniline nanocomposites
Po-52	Olga Slisenko	Structure and transport parameters of binary polyacrylic acid / polysiloxane hybrids
Po-53	Natalia Babkina	Transparent polyurethane materials with effective damping ability and ultraviolet protection
Po-54	Anna Ivanova	Modelling of the crystalline scintillating materials from the first principles
Po-55	Halyna Klym	Physical and chemical water-sorption processes in the MgAl ₂ O ₄ ceramics
		NANOMATERIALS AND TECHNOLOGIES
Po-56	Aušrinė Jurkevičiūtė	Modelling of the Scattering Spectrum of Metal Nanoparticles on Porous Anodized Aluminium Oxide of Various Thickness
Po-57	Mindaugas Ilickas	Comparison of different coatings techniques for zinc oxide nanoparticles for room-temperature UV sensors
Po-58	Šarūnas Jankauskas	Synthesis of Graphene on Si(100) Using Direct MW-PECVD and protective enclosures
Po-59	Syed Shabhi Haider	Designing of Experimental Setup for Impact Induced Mechanoluminescence Measurements
Po-60	Dr Vera Skvortsova	Preparation and tribological properties of multilayer tungsten oxide nano smart coatings
Po-61	Inga Pudza	The use of tungstate nanoparticles in hybrid X-ray detectors
Po-62	Rihards Ruska	Luminescence of doped AlN materials
Po-63	Boris Polyakov	Different strategies for GaN-MoS ₂ and GaN-WS ₂ core-shell nanowire growth

Po-64	Kevon Kadiwala	Thin films of $\rm WSe_2$ synthesized via selenization of $\rm WO_x$ and W precursor materials for comparison
Po-65	Marina Tretjak	Low frequency noise characteristics of composites with MWCNT and Ni@C nanoparticles
Po-66	Elza Dzene	Comparison of methods for integration of Bi ₂ Se ₃ nanowires in NEM switches
Po-67	Gazy Khatmi	Femtosecond laser ablation at 1030 nm, second harmonic and third harmonic for Nitrocelluece membrane
Po-68	Paniz Vafaei	Graphene gas sensors grafted with ${\rm TiO_2}$ nanolayers: temperature dependence of ${\rm NO_2}$ response
Po-69	Sanu Bifal Maji	Time Resolved Luminescence study of Pr³+ doped LuPO, nanocrystals synthesized in aqua-organic solvent.
Po-70	Daniel Aguilar Ferrer	Study of the Rhodamine 6G Photodegradation Efficiency with Different Polydopamine Shell Thickness Au/PDA Nanoplatforms
Po-71	Lina Mikoliunaite	Fast Microwave Assisted Solvothermal Synthesis of Magnetite Nanospheres
Po-72	Vitalijs Lazarenko	Nanostructured Bi ₂ Se ₃ thin films as a perspective anode for aqueous rechargeable lithium-ion batteries
Po-73	Irina Oliseveca	Investigation of Single walled carbon nanotube network anode in aqueous LiNO3 electrolyte
Po-74	Raimonds Meija	Electrochemistry of nanostructured Bi ₂ Se ₃ thin films in aqueous Na electrolyte
Po-75	Krisjanis Buks	Properties and applications of blended and encapsulated bismuth selenide and CNT hybrid structure-based flexible thermoe
Po-76	Mati Kook	Chemical Exposure and Abrasion Effect on Photocatalytical Activity of Antibacterial Surfaces Covered with Acrylic Matrix
Po-77	Lasma Bugovecka	Mechanical stability of MWCNT and Bi ₂ Se ₃ Thermoelectric Polymer Composite Thin Films
Po-78	Viktoriia Fedorenko	Role of polymer to forming of ${\rm Fe_3O_4/Fe_2TiO_5}$ core-shell nanofibers, deposited by coaxial electrospinning
Po-79	Andrei Felsharuk	Fe-nanoparticle seeded growth of Bi ₂ Se ₃ nanoribbons
Po-80	Jurij Grechenkov	Calculated optical properties of chalcopyritic solid solutions for photovoltaic applications
Po-81	Yelyzaveta Rublova	Effect of the cations on the SEI layer formation on the $\mathrm{Bi}_2\mathrm{Se}_3$ anode in aqua mediums
Po-82	Edgars Vanags	Determination of light element content in sodium bismuth titanate samples using secondary electron hyperspectral imaging

Po-83	Annamarija Trausa	SERS substrates based on gold nanoparticle-coated ZnO tetrapods
Po-84	Didzis Salnājs	Optimal synthesis parameters and characterization of catalyst-free grown $\mathrm{Bi_2Se_3}$ nanoribbons
Po-85	Liga Bikse	Towards surface-enhanced Raman spectroscopy on the tip of optical fiber: comparison of substrates
Po-86	Nadzeya Khinevich	SERS-active substrates based on silver nanoparticle array induced surface lattice resonance
Po-87	Liga Jasulaneca	Cryogenic temperature nanoelectromechanical switch
Po-88	Loreta Brauna	Impact of electrodes on properties of flexible encapsulated Bi ₂ Se ₃ /CNT hybrid network materials
Po-89	Margarita Baitimirova	Application of graphene for enhancement of physical properties of Bi ₂ Se, and Bi ₂ Se, ZnO nanostructures
Po-90	Yana Suchikova	The technological features of nanostructures formation on the surface of indium phosphide by electrochemical etching
Po-91	Mantas Mikalkevičius	Influence of femtosecond laser parameters for imposing laser-induced periodic surface structures on silicon surface
Po-92	Pavlo Golub	Topological defects movement control in liquid crystal cells
Po-93	Davis Gavars	Thermoelectric Properties of Copper Oxide Nanowire Networks
Po-94	Halil Arslan	Reactive e-beam evaporation of yttrium: A spectral and structural investigation of the growth kinetics
Po-95	Raitis Sondors	Effect of thermally dewetted Au nanoparticles on the morphology of Bi ₂ Se ₃ nanoribbons synthesized by physical vapor deposition
Po-96	Harleen Kaur	Optimization of conditions for testing the efficacy of antimicrobial surfaces
Po-97	Elina Neilande	Evaluation of antibacterial properties of Cu-doped titanium dioxide using DFT calculations
Po-98	Aleksandrs Dutovs	In-situ optical control of nanoporous alumina layer thickness
Po-99	Uldis Malinovskis	Sensing of vascular endothelial growth factor-A using close packed Au nanoparticle arrays on porous anodic aluminum oxide-Al templates.
Po-100	Anatolijs Truhins	Luminescence, XPS and Raman of crystalline quartz affected to high pressure by detonation
Po-101	Valerii Malyshev	Infiltration control of highly ordered nanoporous aluminum oxide membranes with aqueous electrolytes

		GREEN ENERGY AND ENVIRONMENT
Po-102	Julija Lukasevica	EXAFS study of NiO lattice dynamics using reverse Monte Carlo and force field methods
Po-103	Vitalijs Dimitrijevs	EXAFS study of lattice dynamics in metals with cubic and hexagonal structures using the reverse Monte Carlo method
Po-104	Alexei Kuzmin	Direct observation of crystal field splitting in tungstates by resonant X-ray emission spectroscopy
Po-105	Liga Britala	Inert Coatings for Cycle Life Extension of Cathodes for Li-Ion Batteries
Po-106	Ansis Mezulis	On the efficiency of hydrogen production from plasma-treated aluminum waste with NaOH and KOH promoters
Po-107	Rui Pinto	Characterization of oxides in the PrVOx-CaVOx system for solid oxide fuel cell applications
Po-108	Julija Hodakovska	Analysis of Lithium Iron Phosphate Service Life in Li-ion Batteries at Different Temperatures and Cycling Rates
Po-109	Martins Vanags	Amphoteric decoupled water electrolysis for hydrogen production
Po-110	Vera Serga	Leaching of valuable metals from scrap printed circuit boards under the action of alternating current
Po-111	Raitis Kaspars Sika	Reactor design investigation for Hydrogen production from Aluminium -Water reaction
Po-112	Serhii Nedilko	Properties of "microcrystalline cellulose - KBi _{1-x} Pr _x (MoO ₄) ₂ " nanocomposites
Po-113	Ainars Knoks	Electrochemical Corrosion Behavior of Aluminum Foil — investigation of kitchen wastes
Po-114	Ervīns Blumbergs	Application of the disintegration grinding method to increase the efficiency of the processing of used printed circuit b
Po-115	Yuriy Noskov	Halloysite/polyaniline nanocomposites for removal of dyes and dichromate potassium from water
		BIOENGINEERING MATERIALS AND BIOTECHNOLOGIES
Po-116	Mart Ernits	Stealthy magnetic liposomes for drug delivery
Po-117	Vladlens Grebņevs	Amorphous calcium phosphate suspensions as a way to attain bioactivity of PEO coatings
Po-118	Ott Rebane	Time-resolved fluorescence to determine the viability of bacterial spores

TABLE OF CONTENTS

NOTES

Scientific Topics
List of Previous Conferences
Committees
Organizers and Supporters
Conference Site
Agenda at a Glance
Detailed Program of the Conference
July 3, Sunday
July 4, Monday
July 5, Tuesday
July 6, Wednesday
Poster Presentations

