

7th International Workshop on Relaxor Ferroelectrics

Conference Program



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7th – 12th of August 2022
Vilnius, Lithuania



Go Vilnius

WELCOME

Dear Colleagues,



On behalf of the Local Organising and Program Committees we are delighted to welcome you to the **7th International Workshop on Relaxor Ferroelectrics (IWRF)** in Vilnius.

The 7th IWRF supposed to be held in 2020, but the pandemic situation left the organizing committee no other option but to postpone the workshop for two years. Finally, the in-person meeting will be held in the Lithuanian Academy of Sciences.

The regular meetings were reestablished in 2013 in St. Petersburg although the first meetings were organized as early as 1996 and became biannual event. Later on it was held in Stirzin (Czech Republic), Matsue (Japan), Vancouver (Canada).

Laboratory of Microwave Spectroscopy of Vilnius University is honored to host this event. Vilnius University is the oldest university in the region. Its history dates back to 16th century. It is the largest university of Lithuania with long lasting traditions. We hope that the organization will meet the high standards which were set by the previous meetings.

This meeting will be concentrated on the further understanding of relaxor ferroelectrics and bridging theory and experimental results to be able to connect the microscopic picture to its unique macroscopic properties.

We wish you a pleasant stay in Vilnius and a fruitful scientific discussions during the conference!

Chairman of the conference

Prof. Jūras Banyas

A handwritten signature in blue ink, appearing to read 'J. Banyas', written in a cursive style.

International advisory board

Jan Dec	Poland
Takeshi Egami	USA
Peter Gehring	USA
Jirka Hlinka	Czech Republic
Kenji Ohwada	Japan
Sergey Vakhrushev	Russia
Wolfgang Kleemann	Germany
Yoshiaki Uesu	Japan
Andrew Bell	United Kingdom
Jūras Banys	Lithuania
Xiaoyong Wei	China
Mario Maglione	France
Annette Bussmann-Holder	Germany
Zuo-Guang Ye	Canada

Programme committee

Robertas Grigalaitis	Lithuania
Šarūnas Svirskas	Lithuania
Jūras Banys	Lithuania
Zuo-Guang Ye	Canada
Peter Gehring	USA
Annette Bussmann-Holder	Germany

Local organizing committee

Jūras Banys – chairman	Martynas Kinka	Eglė Šlinkšytė
Robertas Grigalaitis	Eglė Martinaitytė	
Šarūnas Svirskas	Eidvidas Šatkauskas	
Mantas Šimėnas	Žygimantas Logminas	

Sponsors



Vilnius
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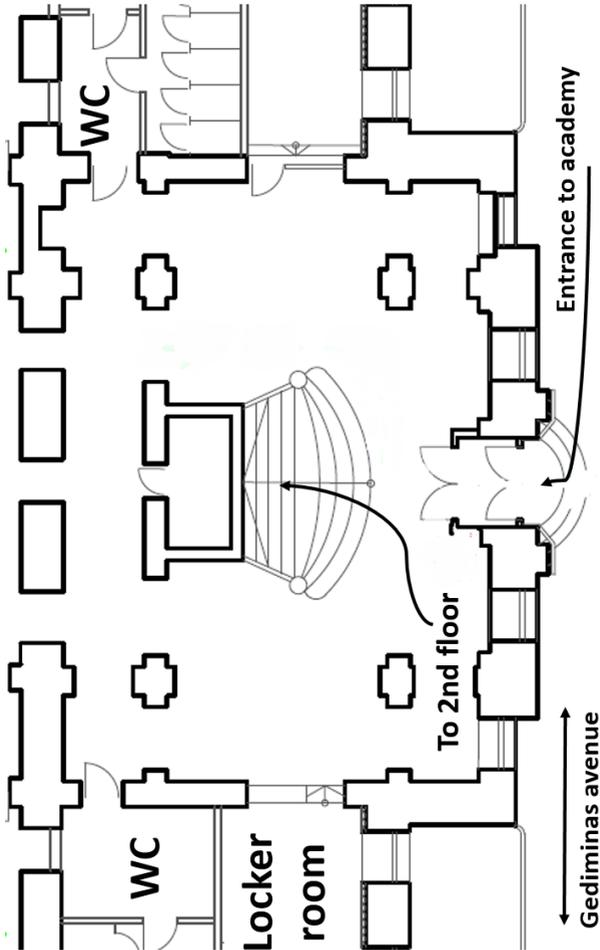


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Venue

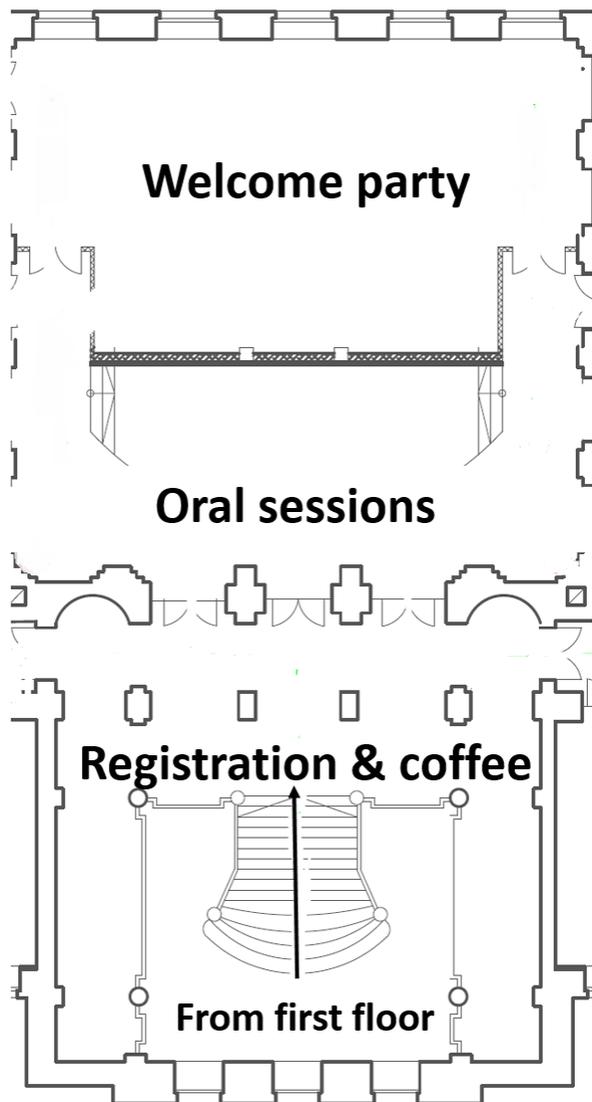
The address of Lithuanian Academy of Sciences is **Gediminas avenue 3, LT-01103, Vilnius, Lithuania.**

1st floor of Lithuanian Academy of sciences

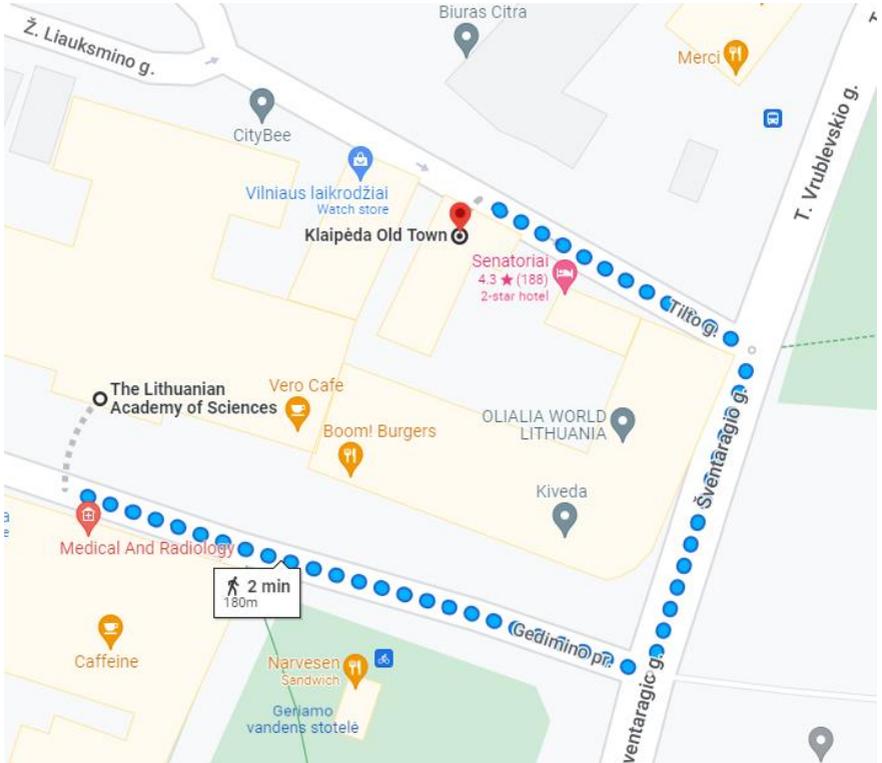


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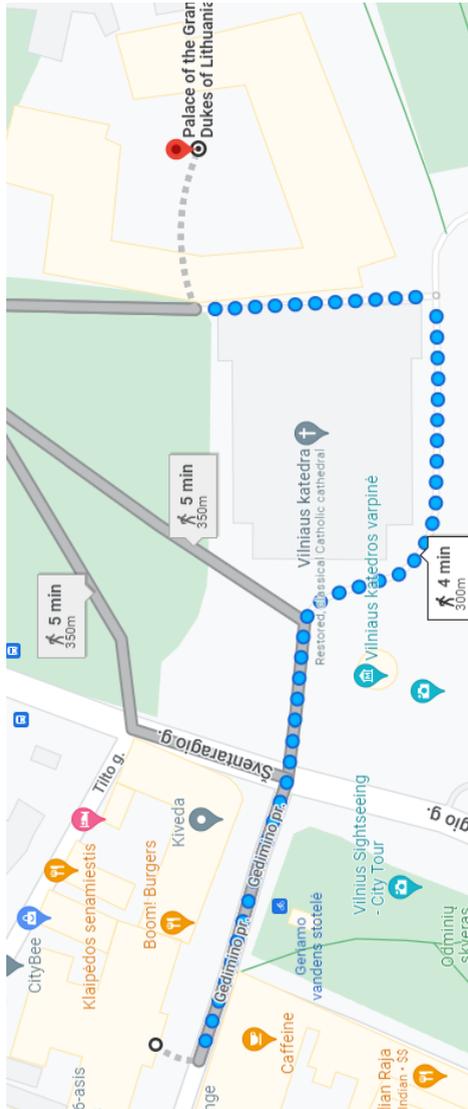
2nd floor of Lithuanian Academy of sciences



Lunch venue



Excursion and banquet



Practical Information

The official language of the conference is English. There will only be oral presentations. Invited speakers are given 40 minutes for their talk. Regular presentations are 20 minutes.

Meeting hall will be equipped with PC, LCD projector and microphones. The date/hour/room of your presentation(s) is available in the Conference Program. If you are using a slide presentation make sure that you bring it on the USB stick. Supported file types: ppt, pptx, pdf, avi.

Note! If you are planning to use your own computer for presentation, please inform secretariat about that in advance.

Short Program

	August 7th	August 8th	August 9th	August 10th	August 11th
08:30		Registration	Registration	Registration	
08:45		Welcome word			
09:00		Peter Gehring (Inv.)	Elena Buixaderas (Inv.)	Z.-G. Ye (Inv.)	
09:20		Chris Stock (Inv.)	Igor Levin (Inv.)	Martin Kempa (Inv.)	
10:00		M. Šimėnas	J. Banyas	P. Czaja	
10:40		Yu. Vysochanskii	M. Pinto	Š. Svirskaš	
11:00		Coffee Break	Coffee Break	Coffee Break	Excursion
11:20		Marco Deluca (Inv.)	Petr Ondrejkořic (Inv.)	Brahim Dkhil (Inv.)	
11:40		Jirka Hlinka (Inv.)	Mojca Otoničar (Inv.)	Krystian Roleder (Inv.)	
12:00		J. Spitaler	C. Il Cheon	A. Bussman-Holder	
12:40		Lunch	Lunch	Lunch	
13:00- 15:00		Lunch	Lunch	Lunch	
15:00		Andrew Rappe (Inv.)	Vladimir Shvartsman (Inv.)		
15:20		Alexei Gruverman (Inv.)	Z.-G. Ye	Free time	
15:40					
16:00					
16:20					
16:40					
17:00					
19:00		Welcome reception		Excursion and banquet	

Conference Program

Monday (8th of August)

8:30	Registration	
8:45	Welcome word	
Oral session 1		
Chairman: prof. Jūras Banys		
9:00	Peter Gehring <i>Anharmonicity and Polar Nanoregions in Photovoltaic Hybrid Organic-Inorganic Perovskites</i>	I1-1
9:40	Chris Stock <i>Broadband critical dynamics in organic-inorganic lead-halide perovskites</i>	I1-2
10:20	Mantas Šimėnas <i>Suppression of phase transitions and glass phase signatures in mixed cation halide perovskites</i>	O1-1
10:40	Yulian Vysochanskii <i>On the origin of relaxor behavior in 3D and 2D MM'P₂S(Se)₆ ferroics</i>	O1-2
11:00 Coffee Break		
Oral session 2		
Chairman: Elena Buixaderas		
11:20	Marco Deluca <i>Origin of relaxor behavior in BaTiO₃-based lead-free perovskite ceramics</i>	I2-1
12:00	Jirka Hlinka	I2-2

	<i>Polarization relaxation: about the shape, dynamics and role of coherently flipping nanoregions in Ba(ZrTi)O₃</i>	
12:40	Jürgen Spitaler <i>Advanced ab-initio approaches for the characterization of relaxor ferroelectrics</i>	O2-1
Lunch		
Oral session 3		
Chairman: Peter Gehring		
15:00	Andrew Rappe <i>Relaxing in Weird Places</i>	I3-1
15:40	Alexei Gruverman <i>Direct Observation of Ferroelectricity in Two-Dimensional MoS₂</i>	I3-2

Tuesday (9th of August)

8:30	Registration	
Oral session 4		
Chairman: Jirka Hlinka		
9:00	Elena Buixaderas <i>What the hell is a uniaxial relaxor?</i>	I4-1
9:40	Igor Levin <i>Unraveling correlated disorder in relaxor Sr_{0.61}Ba_{0.39}Nb₂O₆</i>	I4-2
10:20	Jūras Banys <i>Dielectric spectroscopy and piezoelectric properties of lead-free BaTiO₃–xBi(Zn_{2/3}Nb_{1/3})O₃</i>	O4-1

10:40	Monica Pinto Salazar <i>²³Na Nuclear Magnetic Resonance Longitudinal and Transverse Spin Relaxation times (T_1, T_2) Study of $Na_{1/2}Bi_{1/2}TiO_3$-6mole%BaTiO₃</i>	O4-2
11:00	Coffee break	
Oral session 5		
Chariman: Brahim Dkhil		
11:20	Petr Ondrejko<i>vi</i>č <i>Neutron backscattering studies of relaxor ferroelectrics</i>	I5-1
12:00	Mojca Otoni<i>č</i>ar <i>About the origins of the large nonlinear response in relaxor ferroelectrics</i>	I5-2
12:40	Chae Il Cheon <i>Phase Evolution and Ferroelectric Properties of BiFeO₃-BaTiO₃ Ceramics around Morphotropic Phase Boundary</i>	O5-1
13:00	Lunch	
Oral session 6		
Chairman: Krystian Roleder		
15:00	Vladimir Shvartsman <i>Relaxor terpolymers P(VDF-TrFE-CFE) for electrical energy storage</i>	I6-1
15:40	Zuo-Guang Ye <i>Relaxor to Ferroelectric Crossover in the Lead-Strontium Zirconate-Titanate Perovskite Solid Solution System</i>	O6-2

Wednesday (10th of August)

8:30	Registration	
Oral session 7		
Chairman: Igor Levin		
9:00	Zuo-Guang Ye <i>Optimization of Piezoelectric Properties of Relaxor-based Crystals via Domain Engineering</i>	I7-1
9:40	Martin Kempa <i>Broadband dielectric properties of the BaTiO₃-BaZrO₃ solid solutions</i>	I7-2
10:20	Piotr Czaja <i>Influence of dopant ions on mechanical and dielectric properties of K_{0.5}Bi_{0.5}TiO₃ ceramics</i>	O7-1
10:40	Šarūnas Svirskas <i>Dielectric and NMR studies of BaTi_{1-x}Sn_xO₃ solid solutions</i>	O7-2
11:00	Coffee Break	
Oral session 8		
Chairman: Mojca Otoničar		
11:20	Brahim Dkhil <i>Relaxors for neuromorphic computing</i>	I8-1
12:00	Krystian Roleder <i>Domains populations and piezoelectric properties in PZT single crystals</i>	I8-2
12:40	Annette Busmann-Holder	O8-1

	<i>Complex symmetry of phases and magnetic properties of the oxide perovskite EuTiO_3</i>	
13:00	Lunch	
17:00	Excursion to the Palace of Grand Dukes	
18:00	Banquet in the Palace of the Grand Dukes	

Thursday (11th of August)

10:00	Excursion around the historical Vilnius University ensemble	
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