

EuroDIM-15 Timetable

Sunday July 5 th	Monday July 6 th	Tuesday July 7 th	Wednesday July 8 th	Thursday July 9 th	Friday, July 10 th
ESDIM-1	8:30 – 14:00 Registration	8:30 – 14:00 Registration	8:00, 8:30 – 19:00 Corvin Castle excursion (including Lunch)	9:30 – 11:30 PL-06, K-05, K06 (Aula Magna)	9:00 – 9:50 PL-09 (Aula Magna)
	09:30-10:00 Opening ceremony (Aula Magna)	09:00 – 11:30 PL-03, PL-04, PL-05 (Aula Magna)		11:30 – 12:00 Coffee break (1st floor)	09:50 – 10:10 Coffee break (1st floor)
	10:00 – 11:40 PL-01, PL-02 (Aula Magna)				10:00 – 11:20 K-09, K-10 (Aula Magna)
	11:40 – 12:00 Coffee break (1st floor)	11:30 – 12:00 Coffee break (1st floor)		12:00 – 13:10 K-07, K-08 (Aula Magna)	11:20 Closing ceremony (Aula Magna)
	12:00 – 13:10 K-01, K-02 (Aula Magna)	12:00 – 13:10 K-03, K-04 (Aula Magna)		13:15 – 15:00 Lunch (Vineri15)	Departure of participants
	13:15 – 14:50 Lunch (Vineri15)	13:15 – 14:50 Lunch (Vineri15)		15:00 – 16:30 Room A01 I-11, O-11, O- 12, O-13 Room A11 I-12, O-14, O- 15, O-16	
	15:00 – 16:40 Room A01 I-01, I-02, O-01, O-02 Room A11 I-03, I-04, O-03, O-04	15:00 – 16:10 Room A01 I-09, O-07, O-08 Room A11 I-10, O-09, O-10			
	16:40 – 17:10 Coffee break (1st floor)	16:10 – 17:00 Coffee break (1st floor)		18:00 – 22:00 Social dinner (Recas winery)	
16:00 – 20:00 Registration	17:10 – 19:00 Room A01 I-05, I-06, O-05 Room A11 I-07, I-08, O-06	17:00 – 19:00 Poster session in front of Aula Magna			
19:00 – 21:00 Welcome reception (Vineri15)	19:00 – 21:00 Dinner (Vineri15)	19:00 – 21:00 Dinner (Vineri15)	19:00 – 21:00 Dinner („Sura”, Dumbrava)		

- Plenary session 50 min. (including 5 min. discussions) → Aula Magna
- Keynote session 35 min. (including 5 min. discussions) → Aula Magna
- Invited session 30 min. (including 5 min. discussions) → A01, A11
- Oral session 20 min. (including 5 min. discussions) → A01, A11

EuroDIM-15 program

Sunday, 5 th of July 2026	
16:00 – 20:00	Participants Registration Desk Open – in front of Aula Magna
19:00 – 21:00	Welcome reception (Restuarant “Vineri 15” - across from the university)

Monday, 6 th of July 2026		
08:30 – 14:00	Participants Registration Desk Open – in front of Aula Magna	
09:30 – 10:00	Opening Ceremony (Aula Magna)	
Plenary Session 1 (Aula Magna) Chairman: Daniel Vizman		
10:00 – 10:50	PL-01	Czochralski growth of large radiopure Li₂MoO₄ single crystals for heat-scintillation cryogenic bolometers <u>M. Velázquez*</u> , C. Stelian, N. Kaoutar, I. Nuta, G. Deffrennes <i>Univ. Grenoble Alpes, CNRS, Grenoble INP, SIMAP, 38000 Grenoble, France</i>
10:50 – 11:40	PL-02	First-principles and machine learning methods for description of substitutional defects in optical materials <u>M.G. Brik</u> ^{1,2,3,4*} ¹ <i>Institute of Physics, University of Tartu, W. Ostwald Str. 1, Tartu, 50411, Estonia</i> ² <i>Centre of Excellence for Photoconversion, Vinča Institute of Nuclear Sciences - National Institute of the Republic of Serbia, University of Belgrade, Serbia</i> ³ <i>Faculty of Science and Technology, Jan Długosz University, Armii Krajowej 13/15, PL-42200, Częstochowa, Poland</i> ⁴ <i>School of Integrated Circuits, Chongqing University of Posts and Telecommunications, Chongqing, PR China</i>
11:40 – 12:00	Coffee Break – UVT Cafeteria 1 st floor	
Keynote Session 1 (Aula Magna) Chairman: Matias Velazquez		
12:00 – 12:35	K-01	Crystal field–driven luminescent thermometry in Nd³⁺-doped yttrium oxyfluorides: Linking structure and Stark level splitting Renato Willy Vieira de Oliveira ¹ , Bárbara Matos Cruz ¹ , Tatiane S. Lilge ^{1,2} , Adriano, B. Andrade ¹ , Ruan. P. R. Moura ³ , José Joatan Rodrigues Jr. ³ , Márcio A.R.C. Alencar ³ , Robert A. Jackson ⁴ , <u>Mário E. G. Valerio</u> ^{1*} and Zélia S. Macedo ¹ ¹ <i>Laboratory of Preparation and Characterization of Materials (LPCM), Department of Physics, Federal University of Sergipe, São Cristóvão–SE, Brazil</i> ² <i>Graduate Program in Materials Science and Engineering, Laboratory of Glass-Ceramic Materials (VITROCER), Federal University of Santa Catarina, Florianópolis, SC, Brazil</i> ³ <i>Laboratory of Corrosion and Nanotechnology (LCNT), Federal University of Sergipe, São Cristóvão 49107-230, Brazil</i> ⁴ <i>School of Chemical and Physical Sciences, Keele University, Keele, Staffordshire, ST5 5BG, UK</i>
12:35 – 13:10	K-02	Radiation hardness of scintillation materials with high effective atomic

		number <u>Shunsuke Kurosawa</u>^{1*}, ¹Nagoya University: Graduate School of Eng., Nagoya, Japan
13:15 – 14:50	Lunch (Restaurant “Vineri 15” - across from the university)	
	Oral sessions 1	
15:00 – 16:40	Room A01 Chairman: Robert Tomala	Room A11 Chairman: Krisztian Lengyel
15:00 – 15:30	<i>Invited</i> I-01. Impact of impurity doping on vacancy type defects in functional materials revealed by positron annihilation spectroscopy <u>Mamoru Kitaura</u>[*] Faculty of Science, Yamagata University, Yamagata 990-8560, Japan	<i>Invited</i> I-03. LGYSB:Nd crystal: Czochralski growth, optical properties, and NIR laser emission performances <u>Gheorghe Lucian</u>[*], Broasca Alin, Greculeasa Madalin, Voicu Flavius, Hau Stefania, Gheorghe Cristina, and Croitoru Gabriela National Institute for Laser, Plasma and Radiation Physics, 409 Atomistilor, 077125 Magurele, Romania
15:30 – 16:00	<i>Invited</i> I-02. Oxygen defects and ferroelectricity of BaFe₁₂O₁₉ hexaferrites <u>Silviu Polosan</u>[*], Corina Secu, Catalin Negrila, Andrei Nitescu and Mihai Secu National Institute of Materials Physics, Magurele, Romania	<i>Invited</i> I-04. The role of structural defects caused by irradiation on the change in the properties of ceramic materials – promising materials for nuclear energy <u>Kenzhina I.E.</u>^{1,2*}, Kozlovskiy A.L.^{1,2}, Zhigalova A.³ ¹ Satbayev University, Almaty, Kazakhstan ²Institute of Nuclear Physics of the ARKAE, Almaty, Kazakhstan ³L.N. Gumilyov Eurasian National University, Astana, Kazakhstan
16:00 – 16:20	O-01. Electronic and optical properties of YVO₄:Eu induced by different charge states of the Eu ion: an ab-initio study F.O. Carvalho, O. M. Sousa, G.J. Piropo, A.F. Lima, <u>M.V. Lalic</u> Physics Department, Federal University of Sergipe, 49100-000, São Cristóvão, Brazil	O-03. Development of Nd-doped LGSB crystals as new candidates for the next generation of bifunctional crystals <u>Madalin Greculeasa</u>[*], Alin Broasca, Flavius Voicu, Cristina Gheorghe, Stefania Hau, Catalina-Alice Susala, Nicolaie Pavel, Lucian Gheorghe National Institute for Laser, Plasma and Radiation Physics, ECS Laboratory, P.O. Box MG- 36, 077125 Magurele, Romania
16:20 – 16:40	O-02. Swift heavy-ion induced defect formation and luminescence modification in Ce-doped garnet single crystalline films <u>Alma Dauletbekova</u>¹, Vitalii Gorbenko², Abdirash Akilbekov¹, Nuraiym Pirzadayeva¹, Tetiana Zorenko², Gulnara Aralbayeva¹, Yuriy Zorenko^{2,3} ¹Department of Technical Physics, L.N. Gumilyov Eurasian National University, Astana, Kazakhstan ²Physical Faculty of Kazimierz Wielki University in Bydgoszcz, Bydgoszcz, Poland	O-04. High-performance multi-wavelength laser emission from a newly developed Nd-doped LYGB crystal <u>Alin Broasca</u>[*], Madalin Greculeasa, Flavius Voicu, Cristina Gheorghe, Stefania Hau, Gabriela Croitoru, Lucian Gheorghe National Institute for Laser, Plasma and Radiation Physics, 077125 Magurele, Romania, Solid-State Quantum Electronics Laboratory

	³ Medical Physics Department, F. Lukaszuk Oncology Center, Bydgoszcz, Poland	
16:40 – 17:10	Coffee Break – UVT Cafeteria 1 st floor	
	Oral session 2	
17:10 – 19:00	Room A01 Chairman: Gheorghe Lucian	Room A11 Chairman: Silviu Polosan
17:10-17:40	<i>Invited</i> I-05. SMART Growth: Artificial intelligence enhanced for sustainable growth of rare-earth materials based laser <u>Philippe Veber</u>^{*1,2}, Dragos Tatomirescu¹, Alexandra Popescu¹, Gabriel Buse², Daniel Vizman¹, Natasha Dropka³ ¹Faculty of Physics, Crystal growth laboratory, West University of Timisoara (Romania) ²Institute for Advanced Environmental Research (ICAM), West University of Timisoara (Romania) ³Leibniz Institute for Crystal Growth, IKZ, Berlin (Germany)	<i>Invited</i> I-07. Characterization of oxygen-related Frenkel defects induced by energetic neutrons or ions in functional metal oxides <u>Aleksandr Lushchik</u>[*], Aleksei Krasnikov, Viktor Seeman, and Evgeni Shablonin Institute of Physics, University of Tartu, W. Ostwald Str. 1, 50411 Tartu, Estonia
17:40-18:10	<i>Invited</i> I-06. Technology aspects of high-entropy oxides preparation by metalorganic aerosol deposition Alexandru Varzari¹, Gheorghe Ghilechii¹, Oleg Shapoval¹, Alexandr Belenchuk¹, Marin Rusu¹, Petronela Garoi², Valentin Craciun², Ștefan-Andrei Irimiciuc^{2,3} and <u>Sergiu Vataavu</u>^{1*} ¹Physics of Semiconductors and Devices Laboratory, Faculty of Physics and Engineering, Moldova State University, 60 A. Mateevici str., Chișinău, MD-2009, Moldova ²National Institute for Laser, Plasma and Radiation Physics, Magurele 077125, Romania ³Institute of Physics of Czech Academy of Sciences, Na Slovance 1999/2, 182 00 Prague, Czech Republic	<i>Invited</i> I-08. Reading without erasing: A study of trapped charges in radiochromic and radio-photoluminescence phosphors <u>Henk Vrielinck</u>^{1*}, Zetian Yang², Emiel Botterman^{1,2}, Eliot Janssens^{1,2}, David Van der Heggen², Philippe F. Smet² and Dirk Poelman² ¹Research group Defects in SemiConductors, Ghent University-Dept. Solid State Sciences, Krijgslaan 285-S1, B-9000 Gent, Belgium ²LumiLab, Ghent University-Dept. Solid State Sciences, Krijgslaan 285-S1, B-9000 Gent, Belgium
18:10-18:30	O-05. Control of the emission wavelength of Cs₂HfCl₆ via tetravalent ion doping <u>Chihaya Fujiwara</u>^{1,2*}, Akihiro Yamaji³, Akira Yoshiakwa¹ and Shunsuke Kurosawa^{3,4} ¹Institute for Materials Research, Tohoku University, Sendai, Japan ²Department of Materials Science, Graduate School of Engineering, Tohoku University, Sendai, Japan	O-06. Multi-spectroscopic studies of defects in quartz as a natural dosimeter <u>Alida Timar-Gabor</u>^{1,2*} and PROGRESS team members ¹Faculty of Environmental Science and Engineering, Babeș-Bolyai University ²Institute for Interdisciplinary Research in Bio-Nano-Science, Babeș-Bolyai University, Cluj-Napoca, Romania

	³ Graduate School of Engineering, Nagoya University, Nagoya, Japan ⁴ Institute of Laser Engineering, Osaka University, Osaka, Japan	
19:00-21:00	Dinner – Restaurant “Vineri 15”	

Tuesday, 7 th of July 2026		
08:30 – 14:00	Participants Registration Desk Open – in front of Aula Magna	
Plenary Session 2 (Aula Magna) Chairman: Mikhail Brik		
09:00 – 09:50	PL-03	Computer Modelling of Defects in Insulating Materials Robert A Jackson* School of Chemical and Physical Sciences, Keele University, Keele, Staffordshire ST5 5BG,
09:50 – 10:40	PL-04	First principles calculations and machine learnings for the development of optical materials Tomoyuki Yamamoto ^{1*, 2, 3} ¹ Faculty of Science and Engineering, Waseda University, Tokyo, Japan ² Kagami Memorial Research Institute for Materials Science and Technology , Waseda University, Tokyo, Japan ³ Institute of Condensed Matter Science, Waseda University, Tokyo, Japan
10:40 – 11:30	PL-05	Modelling of laser-induced white emission of graphene W. Strek, R. Tomala, P. Wiewiórski, M. Stefański Institute of Low Temperature and Structure Research, Polish Academy of Sciences, Wroclaw, Poland
11:30 – 12:00	Coffee Break – UVT Cafeteria 1 st floor	
Keynote Session 2 (Aula Magna) Chairman: Robert Jackson		
12:00 – 12:35	K-03	Controlled growth and characterization of Tb/Tm-doped fluoride single crystals Marius Stef ¹ , Carla Schornig ¹ , Gabriel Buse ² , Maria Poienar ² , Philippe Veber ¹ , and Daniel Vizman ^{1*} ¹ Faculty of Physics and Mathematics, West University of Timisoara, Timisoara, Romania ² Institute for Advanced Environmental Research, West University of Timisoara, Timisoara, Romania
12:35 – 13:10	K-04	Coupling Cesium Lead Bromide Perovskite with Organic or Inorganic Compounds for Improved Stability and Luminescence Properties Maksym Buryi ^{1*} , Tomáš Hostinský ^{1,2} , Jan Zich ^{1,2} ¹ Institute of Plasma Physics of the Czech Academy of Sciences, U Slovanky 2525/1a, 182 00 Prague, Czechia ² Faculty of Chemical Technology, University of Pardubice, Studentská 95, 532 10 Pardubice 2, Czech Republic
13:15 – 14:50	Lunch (Restaurant “Vineri 15” - (across from the university))	
	Oral sessions 3	
	Room A01 Chairman: Philippe Veber Invited	Room A11 Chairperson: Alida Gabor Invited
15:00 – 15:30	I-09. Morphology-controlled Er-doped ZnO nanorods with enhanced NIR	I-10. Role of localized electronic levels in scintillating materials for high-energy

	emission and defect modulation <u>Shelja Sharma</u>^{1*}, Jafar Fathi^{1,2,4}, Zdeněk Remeš³, Andriy Prokhorov³, Sergii Chertopalov³ Maksym Buryi^{1*} ¹<i>Institute of Plasma Physics of the Czech Academy of Sciences, U Slovanky 2525/1a, 182 00, Prague, Czech Republic</i> ²<i>Faculty of Environmental Sciences, Czech University of Life Sciences Prague, Kamýcká 129, Suchdol 165 00, Prague, Czech Republic</i> ³<i>Institute of Physics of the Czech Academy of Sciences, Na Slovance 1999/2, 182 00 Prague 8, Czech Republic</i> ⁴<i>University of Chemistry and Technology, Technická 5, 166 28 Prague 6, Czech Republic</i>	radiation detection <u>Francesca Cova</u>^{1*} ¹<i>Department of Materials Science, University of Milano – Bicocca, Milano, Italy</i>
15:30 – 15:50	O-07. Mapping defect energy levels in Ce-doped KMgF₃ via synchrotron-based X-ray spectroscopy Giordano F. C. Bispo^{1,2}, Adriano B. Andrade², Davi H. S. Pedroso³, Eduily B. V. Freire⁴, Robert A. Jackson⁵, Zélia S. Macedo^{2,3}, Thiago J. A. Mori¹, Tulio C. R. Rocha¹, <u>Mário E. G. Valerio</u>^{2,3*} ¹<i>Brazilian Synchrotron Light Source (LNLS), Brazilian Center for Research in Energy and Materials (CNPEM), Campinas-SP, Brazil.</i> ²<i>Laboratory of Preparation and Characterization of Materials (LPCM), Department of Physics, Federal University of Sergipe, São Cristóvão–SE, Brazil.</i> ³<i>Materials Science and Engineering Postgraduation Programme (P2CEM), Federal University of Sergipe, São Cristóvão–SE, Brazil.</i> ⁴<i>Postgraduate Program in Physics, Campus Ministro Petrônio Portella, Federal University of Piauí, Teresina–PI, Brazil.</i> ⁵<i>School of Chemical and Physical Sciences, Keele University, Keele, Staffordshire, ST5 5BG, UK</i>	O-09. UV-VUV induced thermally stimulated luminescence in scintillating crystals using synchrotron radiation <u>Roberto Lorenzi</u>^{1,*}, Pietro Moiraghi¹, Vittoria Vigorito¹, Alessandra Ronchi¹, Jan Hostaša², Francesco Picelli², Alberto Paleari¹ and Francesca Cova¹ ¹<i>Department of Materials Science, University of Milano-Bicocca, Milan, Italy</i> ²<i>CNR ISSMC, Institute of Science, Technology and Sustainability for Ceramics, Faenza, Italy</i>
15:50 – 16:10	O-08. Structural and optical properties of YAG:Ce single-crystalline film phosphors under high-pressure and low-temperature conditions: impact of homo- and quasi-homoepitaxial growth <u>Y. Syrotych</u>^{1*}, M. Kamiński², N. Majewska², V. Gorbenko¹, A. Wierzbicka³, Y. Zhydachevskyy³, S. Mahlik², and Yu. Zorenko¹ ¹<i>Faculty of Physics, Kazimierz Wielki University in Bydgoszcz, Powstańców Wielkopolskich str., 2, 85090 Bydgoszcz, Poland</i> ²<i>Institute of Experimental Physics, Faculty of</i>	O-10. Stability and synthesis attempt of novel A₂(Ce/Pr)WO₆ double perovskites (A=Ba, Sr, Ca) in the prospect of future energy conversion applications. <u>Damian Włodarczyk</u>^{1*}, Mikolaj Amilusik², Marcin Zajac³, Lev-Ivan Bulyk¹, Sara Piotrowska¹, Roman Minikayev¹, Andrzej Suchocki^{1†} ¹<i>Institute of Physics PAS, Ave. Lotnikow 32/46, PL-02-668, Warsaw, Poland</i> ²<i>Institute of High Pressure PAS, Sokołowska 29/37, PL-01142, Warsaw, Poland</i> ³<i>Solaris Synchrotron NSRC, Czerwone Maki 98, PL-30392, Krakow, Poland</i>

	Mathematics, Physics and Informatics, University of Gdansk, Wita Stwosza 57, 80-308 Gdansk, Poland ³ Institute of Physics, Polish Academy of Sciences, al. Lotnikow 32/46, 02-668 Warsaw, Poland	
17:00 – 19:00	Poster session with refreshments (in front of Aula Magna) – Chairman Marius Stef	
19:00 – 22:00	Dinner – Restaurant “Vineri 15”	

Wednesday, 8 th of July 2026		
08:00 – 20:00	DAY TRIP: HUNEDOARA – CORVIN CASTLE + Lunch Conference Photo Departure: 08h00 AM and 08h30 AM (in front of the university) Transport: Modern air-conditioned coach, Guide: Licensed English-speaking tour guide	
20:00 – 22:00	Dinner “Șura” restaurant, Dumbrava	

Thursday, 9 th of July 2026		
Plenary Session 3 (Aula Magna) Chairman: Henk Vrielinck		
09:30 – 10:20	PL-06	Radiation defects in insulating materials: From early understanding to open challenges <u>Anatoli I. Popov</u> <i>Institute of Solid State Physics, University of Latvia, Riga, Latvia</i>
Keynote Session 2 (Aula Magna) Chairman: Henk Vrielinck		
10:20 – 10:55	K-05	Luminescent nanoparticles for white light generation <u>R. Tomala*</u> , M. Chaika, A. Musialek, W. Strek ¹ <i>Institute of Low Temperature and Structure Research, Polish Academy of Sciences, Wroclaw, Poland</i>
10:55 – 11:30	K-06	Laser-patterned direct-write afterglow coatings for road safety <u>Virgīnija Vītola</u> ^{1*} , Katrīna Križmane ¹ and Krišjānis Šmits ² ¹ <i>Author affiliation: Institute of Solid State Physics, University of Latvia, Riga, Latvia</i> ² <i>Author affiliation: SIA “R4ST”, Riga, Latvia</i>
11:30 – 12:00	Coffee Break – UVT Cafeteria 1 st floor	
Keynote Session 3 (Aula Magna) Chairman: Virgīnija Vītola		
12:00 – 12:35	K-07	Growth and characterization of rare-earth doped fluorite luminescent crystals <u>Marius Stef</u> ^{1*} , Carla Schornig ¹ , Philippe Veber ¹ , Gabriel Buse ² , Maria Poienar ² , Irinuca Bodea ¹ and Daniel Vizman ¹ ¹ <i>Faculty of Physics and Mathematics, West University of Timisoara, Timisoara, Romania</i> ² <i>Institute for Advanced Environmental Research, West University of Timisoara, Timisoara, Romania</i>
12:35 – 13:10	K-08	ERC grants: From funding opportunities to proposal evaluation

		<u>Florentina Neatu</u> Executive Agency (ERCEA), European Commission
13:15 – 14:50	Lunch (Restaurant “Vineri 15” - (across from the university))	
	Oral session 4, room A01 Chairperson: <i>Inesh Kenzhina</i>	Oral session 5, room A11 Chairperson: <i>Alin Broască</i>
15:00 – 15:30	<i>Invited</i> I-11. The impact of structure and composition on fast-emitting lightweight hybrid scintillators <u>Irene Villa</u>¹ ¹Department of materials Science, University of Milano-Bicocca, Milan, Italy	<i>Invited</i> I-12. 2D MoS₂ from thermal stability to irradiation induced modifications <u>S. Agnello</u>^{1,2*}, A. Madonia¹, E. Sangiorgi¹, F. Migliore¹, M. Cannas¹, G. Buscarino¹, A. Alessi³, S.E. Panasci⁴, E. Schiliro⁴, F. Giannazzo⁴, L. Seravalli⁵ ¹Author affiliation: Department of Physics and Chemistry Emilio Segre', University of Palermo, Palermo, Italy ²Author affiliation: AtenCenter, University of Palermo, Palermo, Italy ³Author affiliation: LSI, CEA/DRF/IRAMIS, CNRS, Ecole Polytechnique, Institut Polytechnique de Paris, Palaiseau, France ⁴Author affiliation: Consiglio Nazionale delle Ricerche - IMM, Catania, Italy ⁵Author affiliation: Consiglio Nazionale delle Ricerche - IMEM, Parma, Italy
15:30 – 15:50	O-11. Luminescence dynamics of CsPbI₃ perovskite nanocrystal scintillators <u>V. Vigorito</u>^{1*}, F. Cova¹, R. Lorenzi¹, A. Paleari¹, V. Bellotti¹, A. Ronchi¹, F. Locardi², D. Pratolongo², S. Nargelas³, G. Soltanaitè³, I. Veronese⁴, and M. Fasoli¹ ¹Department of Materials Science, University of Milano-Bicocca, Milan, Italy ²Department of Chemistry and Industrial Chemistry, University of Genova, Genoa, Italy ³Department of Physics, Vilnius University, Vilnius, Lithuania ⁴Department of Physics, University of Milano, Milan, Italy	O-14. Comparison of optical properties of Ga-doped ZnO thin films and NV rich single crystal diamond <u>Zdenek Remes</u>¹, Josef Soucek^{1,2}, Neda Neykova^{1,3} ¹FZU - Institute of Physics of the Czech Academy of Sciences, Na Slovance 1999/2, Prague, Czechia ²Czech Technical University in Prague, Faculty of Biomedical Engineering, nám. Sítná 3105, 272 01 Kladno, Czechia ³Faculty for Electrical Engineering, Czech Technical University in Prague, Technická 2, 166 27 Prague, Czech Republic
15:50 – 16:10	O-12. Diopside photocatalyst from agro-industry waste: Revolutionizing sustainable wastewater treatment <u>Gangadhar Mahar</u>^{1,2,3}, Sushil Patel^{1,2}, Pooja Yadav^{1,2}, Michal Piasecki³, P Abdul Azeem^{1,2*} ¹Department of physics, National Institute of Technology, Warangal, India, 506004 ²Centre for Glass Science and Technology, National Institute of Technology, Warangal, India, 506004 ³Department of physics, Jan Dlugosz University in Czestochowa, Poland	O-15. Structural and thermodynamic stabilization of Li_{1.2}Mn_{0.8}O₂ cathodes through Ti doping: Insights from DFT and cluster expansion M.E. Kgoedi^{1*}, N.N. Ngoepe¹, M.C. Masedi¹, R.S. Ledwana¹ and P.E. Ngoepe¹ ¹Materials Modelling Centre, University of Limpopo, Private Bag x1106, Sovenga 0727, South Africa.
16:10 – 16:30	O-13. Delithiation and temperature-induced behaviour in a Li₂MnO₃-	O-16. Interplay of optically- and magnetoactive energy levels of the Ce-

	Li_{0.69}MnO₂ core-shell system: A molecular dynamics study <u>P.G. Makhubela</u>^{1*}, P.E. Ngoepe¹, K.M. Kgatwane¹ and R.S. Ledwaba¹ ¹ University of Limpopo, Materials Modelling Centre, Polokwane, South Africa.	doped Y₃Al₅O₁₂ nanopowders <u>K. Lamonova</u>^{1*}, Yu. Kazarinov², I. Danilenko^{1,3}, and O. Gorban^{1,3} ¹O. O. Galkin Donetsk Institute for Physics and Engineering, NAS of Ukraine, Kyiv, Ukraine ²NSC Kharkiv Institute of Physics and Technology, NAS of Ukraine, Kharkiv, Ukraine ³Nanomaterials Research&Development, Krakow, Poland
16:30 – 17:30	Meeting of International Advisory Committee (Room A01)	
18:00 – 22:00	Social dinner (Recas winery) Departure: 18h00 and 18h30 (in front of the university) Transport: Modern air-conditioned coach Announcement of the poster prizes Committee Maksym Buryi Robert Jackson Mikhail Brik Marius Stef	

Friday, 10 th of July 2026		
Plenary Session 4 (Aula Magna) Chairman: Maksym Buryi		
09:00 – 09:50	PL-09	Antisite defects in SrTiO₃: when off-stoichiometry turns disorder into function <u>Martin Albrecht</u> ^{1*} , Chang-Ming Liu ¹ , Wahib Aggoune ² , Alexander Meledin ³ , Mohamed Abdeldayem ¹ , Thilo Remmele ¹ , Andreas Fiedler ¹ , Jutta Schwarzkopf ¹ , Matthias Scheffler ³ , and Dan Zhou ¹ ¹ Leibniz-Institut für Kristallzüchtung, Berlin, Germany ² Fritz-Haber-Institute of the Max Planck Society, Berlin, Germany ³ Thermo Fisher Scientific Inc, Eindhoven, Netherlands
09:50 – 10:10	Coffee Break – UVT Cafeteria 1 st floor	
Keynote Session 4 (Aula Magna) Chairman: Maksym Buryi		
10:10 – 10:45	K-09	Luminescence of defects and isoelectronic impurities in UV-emitting oxide scintillators under X-ray and synchrotron radiation excitation <u>Y. Zorenko</u> ^{1,2,3} , V. Gorbenko ¹ , S. Witkiewicz-Łukaszek ¹ , A. Majewski-Napierkowski ¹ , T. Zorenko ¹ , K. Shunkeyev ³ , Sh. Sagimbayeva ³ , A. Kenzhebayeva ³ ¹ Department of Physics of Kazimierz Wielki University, 85-090 Bydgoszcz, Poland ² Medical Physics Department, F. Lukaszuk Oncology Center, 85-796 Bydgoszcz, Poland ³ K. Zhubanov Aktoke Regional University, 030000 Aktoke, Kazakhstan
10:45 – 11:20	K-10	Intrinsic and extrinsic defects in LiNbO₃ nanocrystals <u>K. Lengyel</u> ^{1*} , L. Kocsor ¹ , G. Dravecz ¹ , L. Péter ¹ ¹ Institute for Solid State Physics and Optics, HUN-REN Wigner Research Centre for Physics, Budapest, Hungary
11:20	Closing ceremony (Aula Magna)	