Multiscale Phenomena in Condensed Matter -Multis 2022 – Schedule of The Conference

OPENING SESSION, MONDAY 27.06, 9:00-10:10

- 09:00-09:10 **Opening of the conference**
- 09:10-10:10 Bridget M. Murphy "Ultra-fast to slow dynamics at liquid interfaces investigated with X-rays"

SESSION 1, MONDAY 27.06, 10:10-11:00

10:10-10:40	Kazuya Saito	"Small spin clusters mimicking a temperature induced phase
		transition"
10:40-11:00	Karol Szałowski	"Electric field-controlled spin state in uthrene, [7]uthrene
		and [8]uthrene molecule: computational study"

BREAK, 11:00-11:30

SESSION 2, MONDAY 27.06, 11:30-13:10

11:30-12:10	Sabu Thomas	"Circular economy: New opportunities in sustainable soft
		nano materials and polymer bio-nanocomposites"
12:10-12:30	Stanisław Urban	"Dielectric studies of systems influenced by the ionic
		conductivity"
12:30-12:50	Sebastian Pawlus	"Is adding a large atom important for the relaxation
		dynamics of monohydroxy alcohols?"
12:50-13:10	Daniele Sonaglioni	"Fast differential scanning calorimetry: new perspectives in
		data reduction and applications to organic samples"

BREAK, 13:10-14:10

SESSION 3, MONDAY 27.06, 14:10-16:00

14:10-14:50	Szymon Chorąży	"Molecular magnetism meets optical thermometry in
		heterometallic systems linking lanthanide and transition
		metal complexes"
14:50-15:20	Sylvie Ferlay	"Assembling functional molecular crystals"

15:20-15:40	Magdalena Ceglarska	"Relaxation processes in a single crystal of Co(NCS) ₂ (4-
		methoxypyridine) ₂ spin chain"
15:40-16:00	Petro Danylchenko	"Rotational Magnetocaloric Effect in Ni(en)(H ₂ O) ₄ ·2H ₂ O"

BREAK, 16:00-16:10

FLASH TALK SESSION, MONDAY 27.06, 16:10-16:50

16:10-16:15	Julia Chudzik	"Formation of crosslinked functional poly(4-vinylpyridine)-
		CoBr ₂ in both static and dynamic conditions"
16:15-16:20	Paweł Dąbczyński	"Dendrites formation on poly(methylmetacrylate) surface
		reactively sputtered with cesium ion beam"
16:20-16:25	Juliusz Chojenka	"Magnetism and transport studies of thin iron films
		deposited on anodized titanium oxides"
16:25-16:30	Wojciech Sas	"Bilayers and double-shell nanotubes of Prussian blue and
		its Cr analog – the synthesis and magnetic properties"
16:30-16:35	Svietlana Yefimova	"UV-light activated (Gd,Y)VO4:Eu ³⁺ nanoparticles as Nano
		Radio Enhancers"
16:35-16:40	Vladyslav Seminko	"Luminescent ceria nanoparticles with controlled ROS
		scavenging activity"
16:40-16:45	Svietlana Pastukh	"Investigation of electronic and magnetic properties of
		copper pyrophosphate"
16:45-16:50	Mohammad S. Shakeri	"The effect of solvent on oxidation behavior of copper
		during laser irradiation of suspension, a reactive bond
		molecular dynamics study"



SESSION 4, TUESDAY 28.06, 09:00-10:30

09:00-09:40	Jens Müller	"Fluctuation (noise) spectroscopy as a tool to study the
		dynamics of multi-scale systems in condensed matter"
09:40-10:10	Matúš Mihalik	"Magnetism in RMn _{1-x} Fe _x O3 orthorhombically distorted
		perovskite compounds"
10:10-10:30	Yasuhiro Nakazawa	"Thermodynamic properties around the metal-insulator spin
		phase boundary in the dimer-Mott organic compounds"

BREAK, 10:30-11:00

SESSION 5, TUESDAY 28.06, 11:00-12:10

11:00-11:30	James Pallister	"Limit shape phase transitions: a merger of arctic circles"
11:30-11:50	Mária Zentkova	"The hole doped perovskite manganites La _{0.80} Ag _{0.15} MnO ₃
		for bioapplications"
11:50-12:10	Mykhailo Chaika	"Surface origin of laser induced white light emission"

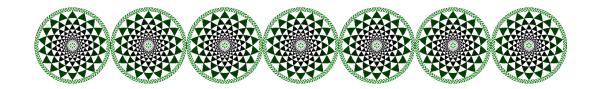
POSTER SESSION I, TUESDAY 28.06, 12:10-13:10

BREAK, 13:10-14:10

SESSION 6, TUESDAY 28.06, 14:10-15:40

14:10-14:50	Kristiaan Neyts	"3D liquid crystal structures determined by surface
		alignment"
14:50-15:20	Simone S. Napolitano	"Slow dynamics facilitates equilibration of liquids and
		glasses"
15:20-15:40	Joana F. C. Silva	"Intermolecular association in co-amorphous systems and
		their relaxation to co-crystals"

POSTER SESSION II, TUESDAY 28.06, 15:40-16:40



SESSION 7, WEDNESDAY 29.06, 09:00-11:10

09:00-09:40	Mark R. Johnson	"Neutrons to study multiscale phenomena in energy
		materials"
09:40-10:10	Alexandre Ivanov	"Atomic dynamics in condensed matter studied by neutron
		scattering with crystal spectrometers"
10:10-10:30	Oleksandr Tomchuk	"Cluster structure and cluster-cluster interaction in
		nanodiamond aqueous sols by small-angle scattering"
10:30-10:50	Oleksandr P. Artykulr	nyi "Structural studies of surfactant-polymer associations in
		bulk and at interfaces"
10:50-11:10	Dmytro Soloviov	"Functional lipid pairs as building blocks of phase-separated
		membranes"

BREAK, 11:10-11:30

BEST POSTER COMPETITION VOTING TIME (11:10-11:25)

SESSION 8, WEDNESDAY 29.06, 11:30-13:10

11:30-12:10	Svetoslav Stankov	"Lattice dynamics of thin europium oxide films: from the		
		ferromagnetic semiconductor EuO to the high-k dielectric		
		Eu ₂ O ₃ "		
12:10-12:30	Konrad J. Kapcia	"Modeling of ultrafast magnetization decrease in cobalt		
		multilayer system under soft X-ray radiation"		
12:30-12:50	Sucharita Niyogi	"Mechanical properties and pore size distribution in		
		athermal porous glasses"		
12:50-13:10	Wojciech Tomczyk	"Computer simulations of mesophases formed by bent-		
		shaped molecules with excluded-volume type interactions"		

BREAK, 13:10-14:10

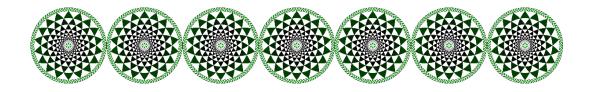
SESSION 9, WEDNESDAY 29.06, 14:10-16:20

14:10-14:50	Joulia Larionova	"Prussian blue type nano-objects: new opportunities for old				
		materials"				
14:50-15:20	Paul Goddard	"Scattering	from	magnetic	monopoles	and
		antiferromagn	etic dom	ain manipula	tion in a frust	rated
		pyrochlore iric	late"			

15:20-15:40 Arkadiusz Zarzycki "Porous Ti/TiOx/Fe magnetic junction and its magnetotransport properties"
15:40-16:00 Mateusz A. Gala "Search for dependency between Verwey and Curie temperatures in magnetite monocrystals doped with Mn, Zn,

Al and Ti"

16:00-16:20 Benjamin Klebel-Knobloch "Evolution of the Hall-coefficient, dc-resistivity and Fermi-surface in Cuprates"



SESSION 10, THURSDAY 30.06, 09:00-11:10

09:00-09:40	Ewa Chrzumnicka	"Liquid crystals: smart molecular systems"			
09:40-10:10	Daniele Cangialosi	"Multiple mechanisms for equilibrium recovery in glasses"			
10:10-10:30	Anna Drzewicz	"Insight into complex crystallization mechanisms of chiral			
		smectogenic liquid crystal"			
10:30-10:50	Katarzyna Chat	"Influence of stereoregularity on the glass transition			
		dynamics under high-pressure conditions and geometrical			
		nanoconfinement"			
10:50-11:10	Pavlo Baloh	"Influence of nanoclusters concentration on low-			
		temperature properties of As-S system"			

BREAK, 11:10-13:30

SESSION 11, THURSDAY 30.06, 11:30-13:10

11:30-12:00	Silvia Pizzanelli	"The state of water adsorbed on a MOF: an NMR study"
12:00-12:30	Elisa Carignani	"Lead halide perovskites for energy applications: structural
		complexity and dynamics revealed by solid state NMR"
12:30-12:50	Magdalena Goździuk	"Nanovolumes of soybean oil-based biopolymer matrices to
		the construction of biosensors for trace water pollutants"
12:50-13:10	Francesca Nardelli	"Influence of sulfur-curing conditions on the dynamics and
		crosslinking of rubber networks: a Time-Domain NMR
		study"

BREAK, 13:10-14:10

SESSION 12, THURSDAY 30.06, 14:10-15:50

14:10-14:40	Aline Leon	"Water electrolysis for hydrogen production - focus on
		high-temperature steam electrolysis using solid oxide cells"
14:40-15:10	Andrew Jackson	"Self-assembly in deep eutectic solvents: From surfactant
		aggregation to protein folding"
15:10-15:30	Katarzyna Lenczewska	a "Dependence of structural and optical properties on the type
		of phase structure in the luminescent BiVO ₄ :Tm ³⁺ "
15:30-15:50	Marcin Perzanowski	"Magnetization reversal mechanism in exchange-biased
		spring-like thin-film composite"

BREAK, 15:50-16:10

BEST TALK COMPETITION VOTING TIME (15:50-16:05)

16:10 Closing of the conference

POSTER SESSION – PART I, TUESDAY 28.06, 12:10-13:10

1.	Shintaro Akagi	"Crystal structures and magnetic studies of two-types of Ni-W octacyanide bimetal assemblies"
2.	Maksym S. Barabashko	"Kinetics of the Thermal Decomposition of thermally reduced graphene oxide (TRGO)"
3.	Aleksandra Deptuch	"Kinetics of cold crystallization of the chiral fluorinated smectogenic 3F5HPhH6 compound"
4.	Akhmad F. Fadilla	"Synthesis of Lambda-type Trititanium pentoxide using a block copolymer"
5.		
6.	Yuliia Horbatenko	"Thermal conductivity of bulk and nanostructured materials in modern concepts framework"
7.	Sara El Houbbadi, Andrii	Fedorchuk "Multifunctional ordered mesoporous silica-based materials for nanotechnological applications"
8.	Diana Hurova	"Mean squared displacement of molecules from lattice sites in the orientationally ordered phase of $^{15}N_2$ "
9.	Greta Inkrataitė	"Synthesis and investigation of cerium and boron and/or magnesium doped YAG and LuAG for high quality scintillators application"
10.	Anna Karachevtseva	"Influence of thermoactivate contribution on isochoric thermalconductivity of tetrafluorethane"
11.	Agne Kizalaitė	"Synthesis of manganese whitlockite via dissolution-precipitation process"
12.		
13.	Anatolii Nagornyi	"Structural investigation of ferrofluids by small-angle neutron scattering"
14.	Shuntaro Nagashima	"Observation of surface magnetic domain on magnetic thin films of hexacyanochromium-chromium magnetic film"
15.	Anna Nykiel	"Structure and magnetic properties of FeCo nanowires"
16.	Aleksandra Pacanowska	"Switchable composite materials based on polymers and chain- like molecular magnet"
17.	Andrius Pakalniskis	"Investigation of crystal structure and doping driven phase transitions in Lu _(1-X) Sc _X FeO ₃ System"

18. Oliwia Polit	"Influence of particles-solvent interactions on composite particles
	formation during pulsed laser irradiation in liquid process"
19. Stanisław A. Różański	"Influence of finite size effects and surface interactions on the
	molecular and collective dynamics in confined liquid crystals"
20. Volodymyr Sagan	"Phase $V(T)$ transformations in freons of the ethane series under
	isochoric conditions"
21. Riku Seiki	"One-step metal-semiconductor phase transition observed in
	nanosize tetratitanium heptoxide"
22. Vladyslav Seminko	"Luminescent ceria nanoparticles with controlled ROS
	scavenging activity"
23. Taro Yamamoto	"Phase behaviors of liquid crystal 8CB under steady shear flow"
24. Svietlana Yefimova	"UV-light activated (Gd,Y)VO4:Eu3+ nanoparticles as nano radio
	enhancers"

POSTER SESSION – PART II, TUESDAY 28.06, 15:40-16:40

25. Yousra Bahjou	"Synthesis, crystal structures of Cu(II), Ni(II), Co(II) and Cd(II) coordination complexes constructed by tetrazole and bi-pyrazole
	CN junction entities"
26. Julia Bujakowska	"High magnetic anisotropy induced by unusual coordination in a
	pentanuclear star-like Ni4Fe molecule"
27. Karol Capała	"Inertial Lévy flights in bounded domains"
28. Giovana de Paula Costa	"Norfloxacin-picolinic acid coamorphous/cocrystal:
	Diffractometric study of a cocrystallization process through
	amorphous phase"
29. Dominik Czernia	"Effects of plasma irradiation on the three-dimensional cyanide-
	bridged network based on the Nb (IV) and Mn (II) ions"
30. Jacek Gatlik	"Effect of nonzero temperature on the process of penetration of
	the potential barrier through the kink"
31. Patricia O. Ferreira	"Menthol-valsartan low transition temperature mixtures
	(LTTMs): a thermoanalytical study"
32. Agnieszka Karczmarska, I	Michał Adamek "Carbon structures fabricated by a versatile
	hydrotermal method: controllable synthesis and preliminary
	material characterization"
33. Dovydas Karoblis	"Investigation of structural, morphological and magnetic
	properties of Bi _{1-x} Gd _x Fe _{0.85} Mn _{0.15} O ₃ solid solutions prepared via
	sol-gel method"
34. Liliia A. Kotvytska	"Thermodynamic studies of the zeolitic imidazolate frameworks"
35. Mateusz Kuniej	"Orbach-like which-way spin dephasing in self-assembled and
5	gate-defined quantum dots"
36. Sebastian Lalik	"Nanocomposites based on liquid crystalline (S)-MHPOBC
	matrix and Au nanoparticles"
37. Vladimir Lipp	"Numerical investigation of radiation-induced dynamics of solids
	in two-dimensional geometry"
38. Natalia Osiecka-Drewniak	
	of aripiprazole"
39. Afaf Oulmidi	"Environmental-friendly adsorbent based on pyridine blocks for
57. mai Guinnui	removal of heavy metals"
	removal of neavy metals

40. Anna M. Piekarska	"Emergence of a superglass phase in a Bose-Hubbard model with
	off-diagonal disorder"
41. Marcin Piwowarczyk	"Phase situation of (E)-4-((4-alkyloxyphenyl)diazenyl)phenyl
	alkanoates and their mixtures with chiral mesogens"
42. Mohammad S. Shakeri	"The effect of solvent on oxidation behavior of copper during laser
	irradiation of suspension, a reactive bond molecular dynamics
	study"
43. Paweł Sobieszczyk	"Influence of He ⁺ irradiation and surface effects on compensation
	point in ferrimagnetic TbFe alloys"
44. Michał Stawiarz	"The analysis of anisotropy in polydispersed multiphase
	composites"
45. Adrian Warzybok	"Serendipitous formation of a dumbbell-like CN-bridged Ni(II)
	dimer"
46. Olha Vinnik	"The lattice specific heat of metal-organic materials with chain-
	like crystal structure"
47. Weronika Zając	"Luminescent synthetic opals for angle-dependent emissive
	colour"
48. Michał Żurek	"The TP-C isotherms of LaNi5 and LaNi4.75Pb $_{0.25}$ alloy at different
	temperatures statistical physics modelling of hydrogen sorption
	onto: Microscopic state investigation, interpretation and
	comparison between alloys"