



**TIM 22**  
PHYSICS CONFERENCE

# **FINAL PROGRAM**

**Condensed Matter Physics (CMP)**

Thursday, 24th of November 2022

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F203		
CMP Session 1		
Chairman: Catalin Pascu Moca		
11:00-11:30	<b>CMP-I01</b>	ANALYSIS OF THE SURFACE LAYER OF BIOACTIVE GLASS BEFORE AND AFTER THE IN VITRO TEST IN A SIMULATED BODY FLUID – RAMAN MICROSCOPE <b>Paulina Kapusniak</b> , I. Radkowska, P. Bragiel
11:30-11:45	CMP-O01	LINEAR RESPONSE THEORY FOR NON-HERMITIAN SYSTEMS <b>Doru Sticlet</b> , Balázs Dóra and Paşcu Cătălin Moca
11:45-12:00	CMP-O02	COOPERATIVITY IN MIXED SPIN CROSSOVER MOLECULAR MAGNETS ANALYZED THROUGH A MECHANOELASTIC MODEL <b>Alexandra-Ioana Chilug</b> , Cristian Enăchescu, Laurențiu Stoleriu, Pradip Chakraborty
12:00-12:15	CMP-O03	LONG-RANGED CU-BASED ORDER AT CUPRATE/MANGANITE INTERFACE <b>Roxana Capu</b> , Subhrangsu Sarkar, Edith Perret, Christopher W. Nicholson, Eugenio Paris, Thorsten Schmitt, Eugen Weschke, Claude Monney, Dan Vizman, Christian Bernhard
12:15-12:30	CMP-O04	ON THE MODELING OF MICROWAVE FERROFLUIDIC ABSORBERS <b>Catalin N. Marin</b> , P. C. Fannin, I. Malaescu, O. M. Bunoiu
12:30-12:45	CMP-O05	KINETICS OF EXCITON LUMINESCENCE OF LAYERED MOSE2 AND MOS2 CRYSTALS INTERCALATED WITH HALOGEN MOLECULES <b>Nikita Siminel</b> , A. Micu, A. Siminel, K. Sushkevich, L. Kulyuk

12:45-13:00	CMP-O06	APPLICATION OF THE Cr <sup>3+</sup> IONS FOR OPTICAL THERMOMETRY - A REVIEW <b>Emeric C.C. Kiss</b> , M. Piasecki, M.G. Brik
13:00-13:15	CMP-O06	NLO PROPERTIES OF SPIROPYRANS IN POLYMER MATRIX – COMPARISON OF SCRF AND ONIOM RESULTS Ilona Radkowska, <b>Piotr Brągiel</b> , Zygmunt Bąk

13:00-14:00	<b>Lunch Break</b> <i>Faculty of Physics 1st Floor</i>
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### Thursday, 24th of November 2022

	<b>Aula Magna of the West University of Timisoara</b>
	<b>Faculty of Physics - 60 years Anniversary Ceremony (part I)</b>
13:30-14:00	<b>Reception of the participants</b>
14:00-16:00	<b>Opening of the event, The speech of the Dean, Presentation of the history of the Faculty, Guest speeches.</b>
16:00-16:30	<b>Coffee Break</b>

16:30-18:00	<b>Faculty of Physics - 60 years Anniversary Ceremony (part I)</b>
14:00-16:00	<b>DHC messages, Alumni, Tribute to senior teachers</b>

### Thursday, 24th of November 2022

19:00-23:00	<b>Conference Banquet</b> <i>Beer Factory Restaurant</i>
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### Thursday, 24th of November 2022

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17:30-18:30	<b>Posters Session 2 (CMP + 2/2API)</b> Faculty of Physics 1st Floor

CMP-P1	INVESTIGATIONS OF SOME ELECTROMAGNETIC PROPERTIES IN LOW FREQUENCY FIELD OF THE SILICONE RUBBER/FERROFLUID COMPOSITE Iosif Malaescu, <b>Alexandrina Teusdea</b> , Octavian M. Bunoiu, Catalin N. Marin
CMP-P2	DISLOCATIONS IN PBF2 DOPED BAF2 CRYSTALS Marius Stef, <b>Gabriel Buse</b> , Carla Schornig and Maria Poienar
CMP-P3	STUDY OF COBALT PHOSPHATES: SYNTHESIS AND THERMAL PROPERTIES <b>Maria Poienar</b> , Gabriel Buse, Paula Sfirloaga, Daniel Vizman, Marius Stef, Anamaria Dabici and

	Paulina Vlazan
CMP-P4	WASTE-BASED COMPOSITE MATERIALS FOR INDUSTRIAL WASTEWATER TREATMENT Adina-Elena SEGNEANU, <b>Claudiu CEPAN</b> , Melinda CEPAN, Ioan GROZESCU

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17:30-18:30	<b>Posters Session 2 (CMP + 2/2API)</b> Faculty of Physics 1st Floor

API-P8	PROFILING PARTICLES OF SAHARA DUST SETTLED IN ROMANIA BY A SIMPLIFIED DYNAMIC LIGHT SCATTERING PROCEDURE AND CENTRIFUGATION Chicea Dan and Olaru Sorin
API-P9	STRUCTURAL INVESTIGATION OF $X(V_2O_5) \cdot (100-X)[P_2O_5 \cdot Li_2O]$ AND $XV_2O_5 \cdot (100-X)[P_2O_5 \cdot CAO]$ GLASS SYSTEMS BY RAMAN SPECTROSCOPY <b>D. Racolta</b> , M. Balasoiu, C. Andronache, L. Mihaly-Cozmuta, A.V. Rogachev, O.L. Orelovich, V.V. Sikolenko
API-P10	EYEBALLS SCATTERED IRRADIATION DOSES INDUCED IN A X-RAYS TREATMENT <b>Nicola Cristina Madalina</b>
API-P11	THE IMPACT OF ACCURATE PARAMETERS ESTIMATION OF A SOLAR CELL ON PV MODULE PERFORMANCE ASSESSMENT <b>Andreea Sabadus</b> and Marius Paulescu
API-P12	STRUCTURE ORGANIZATION OF SILICONE-RUBBER BASED MAGNETIC AND MAGNETORHEOLOGICAL ELASTOMERS REVEALED BY MEANS SANS AND NEUTRON

	DEPOLARIZATION METHODS M. Balasoiu, O. M. Bunoiu, V.T. Lebedev, S.V. Kozhevnikov, L. Almasy, Yu.V. Nikitenko, A.I. Kuklin, I. Bica
API-P13	STUDY OF ELECTRICAL PROPERTIES OF SOME ORGANIC TERNARY BLENDS THIN FILMS FOR PHOTOVOLTAIC APPLICATIONS <b>Laura Hrostea</b> and Liviu Leontie
API-P14	A NUMERICAL ANALYSIS OF PARTICLE HANDLING BY STANDING ACOUSTIC AND DIELECTROPHORETIC FIELDS <b>G.D. Lascu</b> , D.M. Băltăţeanu, M. Lungu and A. Neculae
API-P15	STATISTICS OF MUSICAL NOTES I.s STANCIU, A. STANCEA, A.I. NICOLIN
API-P16	FORECASTING THE SUNSPOT NUMBER BY USING ARTIFICIAL INTELLIGENCE TECHNIQUES <b>Remus Boata</b>
API-P17	A HYBRID METHOD FOR MODELING SOLAR IRRADIATION IN TIMISOARA <b>Remus Boata</b>
API-P18	MAGNETICALLY ACTIVE COMPOSITES WITH RELATIVELY GIANT DIELECTRIC PERMITTIVITY Madalin Bunoiu, Maria Balasoiu, <b>Gabriel Pascu</b> , Liviu Chirigiu, Gabriela Iacobescu and Ioan Bica

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