

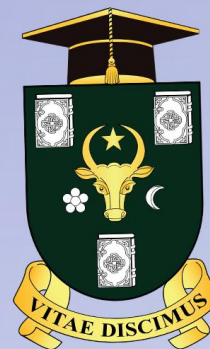


11th International Conference on Materials Science and Condensed Matter Physics

PROGRAMME

1st – 4th September 2026

CHIȘINĂU • REPUBLIC OF MOLDOVA



PHANOS

RONEXPRIM 35¹⁹⁹¹
WE DELIVER PERFORMANCE YEARS 2026



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SINCE 1963

Monday, 31 st August			Tuesday, 1 st September			Wednesday, 2 nd September			Thursday, 3 rd September			Friday, 4 th September		
Arrival and Registration Hall RM	NATO SPS Project G6153 Workshop Meeting		Plenary Session, Hall RM			Plenary Session, Hall RM			Plenary Session, Hall RM			Plenary Session, Hall RM		
			Opening Ceremony			W. Knapp <i>Institute of High Pressure Physics - Warsaw University of Technology</i>			A. Dinescu <i>IMT Bucharest</i>					
			M. Andruh <i>Romanian Academy</i>			M. Grossberg-Kuusk <i>Tallinn University of Technology</i>			S. Zherlitsyn <i>Helmholtz-Zentrum Dresden-Rossendorf</i>					
			V. Tsurkan <i>Institute of Applied Physics, MSU - University of Augsburg</i>			M. Stef <i>West University of Timișoara</i>			S. Klimin <i>Antwerpen University</i>					
						Ș.-A. Irimiciuc <i>Institute of Physics, Czechia - INFILPR, Romania</i>			C. Pașcu Moca <i>Budapest University of Technology and Economics</i>					
			Coffee Break			Coffee Break			11:00 - 13:00 Coffee Break / Lunch Break					
			S. Schorr <i>Helmholtz-Zentrum Berlin - Freie Universität Berlin</i>			R. Ošťádal <i>Thermo Fisher Scientific - Electron Microscopy</i>								
			J. Deisenfopher <i>University of Augsburg</i>			12:00 - 13:30 Lunch Break			DSEFM-B Hall RM					
			12:30 - 13:30 Lunch Break									MEST Hall 2		
			CMT-A Hall RM	GPAM Hall 2	EMDC Hall 3	CMT-B Hall RM	DSEFM-A Hall 2	SSNN Hall 3						
Coffee Break			Coffee Break			Coffee Break								
CMT-A Hall RM			CMT-B Hall RM			Poster Session C DSEFM MEST								
Poster Session A CMT GPAM EMDC			Poster Session B DSEFM SSNN			Conference Dinner Poiana Winery								
Excursions in Small Groups Wine Tasting, Cricova, Milestii Mici			Concert Palatul Republicii											

CMT-A,B - Condensed Matter Theory
GPAM - Growth and Properties of Advanced Materials
DSEFM - Design and Structural Engineering of Functional Materials
SSNN - Solid State Nanophysics and Nanotechnology
EMDC - Electromagnetic radiation detection and conversion
MEST - Materials engineering for Innovative and Sustainable Technologies

Hall RM - Hall "Regina Maria" – 137/C

Hall 2 - Hall 141/C

Hall 3 - Hall 145/C



ORGANIZED BY

Institute of Applied Physics of Moldova State University
Faculty of Physics and Engineering of Moldova State University
Institute of Chemistry of Moldova State University
Scientific Association "Materials Science and Engineering"
NATO SPS Project G6153
"Stealth Coatings Based on 3D Architectures of High Entropy Materials"

SUPPORTED BY

Moldova State University
NATO SPS Project G6153
"Stealth Coatings Based on 3D Architectures of High Entropy Materials"
National Institute for Laser, Plasma and Radiation Physics, Romania
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GENERAL INFORMATION

PLENARY LECTURES

Plenary lectures, 30-minute long including questions, will be given on every day between 9:00 – 13:00 at Hall “Regina Maria”

ORAL PRESENTATIONS

The oral topical sessions will include keynote lectures 25 min and oral presentations 15 min including discussions.

THE SPEAKERS are kindly asked to upload their presentations directly in the respective lecture room before the session. All the lecture rooms are equipped with a computer (Windows operative system).

THE SESSIONS CHAIRS will ensure that the oral presentation programme runs exactly as scheduled in the Scientific Programme in order to have enough time for a discussion and the transfer from one session to another. If a session should undergo any unavoidable changes, an up-to-date timetable will be posted both on the Bulletin Boards in the reception area and on the Daily Programme just outside the lecture rooms.

VENUE

Conference venues are accessible by trolley-buses No 2, 3, 10, 24; till the destination stop called Alexei Mateevici (Moldova State University). Local taxi can be ordered via phone numbers: 14000, 14111, 14447, 14449.

MOLDOVA STATE UNIVERSITY

- ① Central Building
Hall “Regina Maria” – 137/C
Hall 2 – 141/C
Hall 3 – 145/C
- ② Building 4
Wellcome party
- ③ Entrance

POSTER PRESENTATIONS

The poster sessions will be held on 1st September (Poster Session A), 2nd September (Poster Session B) and 3rd September (Poster Session C). Posters should be hanged during lunch break and presenters will attend their poster on the afternoon (16:00-18:00). They are responsible for retrieving their posters at the end of the session.

CONFERENCE BADGE

Please wear your conference badge, which you will receive upon arrival, at all times while at MSCMP2026.

CONFERENCE REGISTRATION DESK

The registration desk will be available for information, help, or enquiries on all the conference days, starting at 8:00.

OFFICIAL LANGUAGE

The official language of the Conference is English. Translation and interpreting services during the event will not be available.



TUESDAY, 1ST SEPTEMBER 2026

Hall "Regina Maria" – 137/C		SCAN FOR THE ABSTRACT
Opening Ceremony and Plenary Session		
9:00	L. Kulyuk, S. Vatavu WELCOME TO MSCMP2026	
10:00	M. Andruh LANTHANIDES IN MOLECULAR MATERIALS <i>Romanian Academy, Romania</i>	
10:30	V. Tsurkan PROGRESS IN RESEARCH ON TERNARY MAGNETIC SPINELS: IN MEMORY OF THE ACADEMICIAN S. RADAUTSAN <i>Institute of Applied Physics, Moldova · University of Augsburg, Germany</i>	
11:00 – 11:30	COFFEE BREAK	
11:30	S. Schorr EXPANDING THE CHALCOGENIDE SEMICONDUCTOR LANDSCAPE TOWARDS NARRO AND WIDE GAP MATERIALS <i>Helmholtz-Zentrum Berlin, Germany · Freie Universität Berlin, Germany</i>	
12:00	J. Deisenhofer ALTERMAGNETS AND THEIR OPTICAL PROPERTIES <i>University of Augsburg, Germany</i>	
12:30 – 13:30	LUNCH BREAK	

Hall "Regina Maria" – 137/C

Oral Session – Condensed Matter Theory – A (CMT-A)

SCAN FOR
THE
ABSTRACT

13:30 **S. Klokishner, O. Reu, S. Ostrovsky**

Keynote MODELING OF THE VALENCE TAUTOMERIC TRANSFORMATION IN COBALT COMPLEXES: INTERACTION OF MOLECULAR MODES WITH PHONONS

Institute of Applied Physics, Moldova State University, Moldova



13:55 **E. A. Zhukov, D. R. Yakovlev, N. E. Kopteva, M. Bayer**

Keynote COHERENT SPIN DYNAMICS OF ELECTRONS AND HOLES PHOTOGENERATED WITH LARGE KINETIC ENERGY IN LEAD HALIDE PEROVSKITE CRYSTALS

Technische Universität Dortmund, Germany



14:20 **V. P. Sirkeli**

ENHANCING THE PERFORMANCE OF InGaN-BASED GREEN LEDs THROUGH SUBSTRATE POLARITY ENGINEERING: FROM POLAR c-PLANE TO SEMIPOLAR STRUCTURES

Moldova State University, Moldova



14:35 **A. Cocemasov, V. Brinzari, D. L. Nika**

SUPPRESSION OF THERMAL TRANSPORT IN CUBIC In₂O₃ WITH Pb-Tl DEFECTS

Moldova State University, Moldova



14:50 **M. Zhezhu, V. Mehrabyan, V. Torosyan, D. Vanyan, M. Yaprntsev, O. Ivanov, A. Vasil'ev**

REACTIVE FILLERS AS A TOOL FOR MICROSTRUCTURE ENGINEERING IN Bi₂Te₃-BASED THERMOELECTRIC COMPOSITES

Institute of Chemical Physics NAS RA, Armenia



COFFEE BREAK

15:35 **O.S. Reu, S.I. Klokishner**

SPIN TRANSFORMATION INDUCED BY THE PROTON TRANSFER IN THE IRON (II) HYDRAZONE CRYSTALLINE COMPOUND [Fe(HL-F)₂](AsF₆)₂

Institute of Applied Physics, Moldova State University, Moldova



15:50 **P. Milev, F. Paleari, D. Sangalli**

Ab initio RESONANT RAMAN SCATTERING STUDY OF MONOLAYER AND BULK MoS₂

Istituto di Struttura della Materia-CNR, Italy · Università degli Studi di Milano, Italy



16:05 **I. I. Geru**

ON THE DOUBLE DEGENERACY OF QUASI-ENERGY LEVELS

Institute of Chemistry, Moldova State University, Moldova



16:20 **A. Rotari, M. A. Macovei**

COOPERATIVE EMISSION AND NONCLASSICAL PHOTON STATISTICS OF THREE ATOMS IN AN EQUILATERAL-TRIANGLE GEOMETRY

Institute of Applied Physics, Moldova State University, Moldova

Hall 2 – 141/C

Oral Session – Growth and Properties of Advanced Materials (GPAM)

SCAN FOR
THE
ABSTRACT13:30 **O. Grendal, C. R. Zeiger, R. S. Dragland, R. Sjøkvist, R. Beanland, D. Meier, M. Senn**
Keynote

STRUCTURAL CHIRALITY AND FUNCTIONALITY IN INCOMMENSURATE MODULATED TETRAGONAL TUNGSTEN BRONZES

University of Warwick, United Kingdom13:55 **G. Gurieva, K. Ernits, A. Manjon Sanz, D. Sheptyakov, M. Avdeev, N. Siminel, M. Kirkham, D. Meissner, S. Schorr**

ATOMIC STRUCTURE AND STRUCTURAL DISORDER VS. DEVICE EFFICIENCY IN KESTERITE MONOGRAN SOLAR CELLS

Helmholtz-Zentrum Berlin, Germany14:10 **L. Prodan, I. Filippova, D. Croitori, S. Moldovanu, O. G. Grendal, S. Shova, A. Tsirlin, I. Kézsmárki, V. Tsurkan**DISORDER-CONTROLLED MAGNETISM IN POLAR ANTIFERROMAGNETS $M_2Mo_3O_8$ *University of Augsburg, Germany*14:25 **V. Rotaru, G. Gurieva, P. Vidal Fuentes, A. Pérez-Rodríguez, V. Izquierdo Roca, S. Schorr, M. Guc**FROM $Cu_2ZnSiSe_4$ TO $Cu_2ZnGeSe_4$: EVOLUTION OF VIBRATIONAL PROPERTIES WITH Ge INCORPORATION*Catalonia Institute for Energy Research · Universitat de Barcelona, Spain*14:40 **H. Prell, G. Gurieva, M. Rusu, M Grossberg-Kuusk, M. Kauk-Kuusik, S. Schorr**

INTRINSIC POINT DEFECTS IN ALKALI-DOPED KESTERITE-TYPE SEMICONDUCTORS AND THEIR INFLUENCE ON SOLAR CELL PERFORMANCE

Freie Universität, Germany · Helmholtz-Zentrum Berlin, Germany14:55 **V. Ghenea, I. Culeac, E. Melnic, I. Cojocaru, V. Verlan, A. Siminel, I. Bulhac, A. Buzdugan, A.-G. Pantazi, M. Enachescu**INSIGHTS INTO THE PHOTOLUMINESCENT AND STRUCTURAL PROPERTIES OF THE BINUCLEAR COMPLEX $[Eu_2(o-MBA)_6(phen)_2]$ *Institute of Applied Physics, Moldova State University · Technical University of Moldova*

COFFEE BREAK

Hall 3 – 145/C

Oral Session – Electromagnetic radiation detection and conversion (EMDC)

SCAN FOR
THE
ABSTRACT

13:30 **S. Vatavu**, Ig. Narolschi, O. Shapoval, M. Rusu, A. Belenchuk, Gh. Ghilețchii,
Keynote **A. Varzari**, V. Crăciun, J. Lančok, Ș.-A. Irimiciuc
HIGH-ENTROPY (FeCoNiCrMn)₃O₄ FILMS FOR CAMOUFLAGE COATINGS IN
MICROWAVE REGION

Moldova State University



13:55 **A. Meshalkin**, E. Achimova, V. Abaskin, C. Losmanschii, V. Botnari,
D. Muntean
DIFFRACTION EFFICIENCY AS A MEASURE OF OPTICAL PARAMETER
MODULATION IN RECORDING MEDIA

Institute of Applied Physics, Moldova State University



14:10 **A. Varzari**, A. Cliucanov, Gh. Ghilețchii, S. Vatavu
PHASE-TRANSITION-DRIVEN THERMOCHROMIC RESPONSE MODELLING IN
VO₂-LIKE SYSTEMS

Moldova State University



14:25 **Gh. Ghilețchii**, O. Shapoval, M. Rusu, A. Varzari, A. Belenchuk, Ig. Narolschi,
V. Nicorici, V. Crăciun, P. Garoi, V. Grumezescu, Ș.-A. Irimiciuc, S. Vatavu
TECHNOLOGY AND ELECTRONIC PROPERTIES OF NiO DOPED BY Cu AND Ga
FOR CHROMOGENIC AND PHOTOVOLTAIC APPLICATIONS

Moldova State University



14:40 **C. Losmanschii**, E. Achimova, V. Abaskin, S. Moldovanu, V. Botnari,
A. Meshalkin, V. Cazac, D. Muntean, D. Spoială
MASKLESS ONE-STEP MICROPATTERNING OF AZOPOLYMER THIN FILMS BY
DIRECT ELECTRON BEAM RECORDING

Institute of Applied Physics, Moldova State University



COFFEE BREAK

Poster Session A (15:30 – 18:30)

SCAN FOR
THE
ABSTRACT

Condensed Matter Theory (CMT)

Growth and Properties of Advanced Materials (GPAM)

Electromagnetic radiation detection and conversion (EMDC)

CMT P1	<u>V. Tronciu</u>, S. Rusu, V. Dobrovolschi THEORETICAL STUDY OF SHORT PULSE IN DFB LASERS BY RATE EQUATION MODEL <i>Technical University of Moldova</i>	
CMT P2	<u>V. Tronciu</u>, S. Zaporojan, N. Gubceac, R. R. Slavescu MACHINE LEARNING-BASED OPTIMIZATION OF DFB LASER PARAMETERS FOR SHORT PULSE GENERATION <i>Technical University of Moldova</i>	
CMT P3	<u>O. V. Yaltychenko</u>, E. Yu. Kanarovskii MODELING OF DYNAMIC EQUILIBRIUM IN THE OXIDANT-ANTIOXIDANT SYSTEM ACCOUNTING FOR THE SYNERGETIC EFFECT OF VITAMINS E, C, AND BIOFLAVONOIDS <i>Institute of Applied Physics, MSU</i>	
CMT P4	<u>E. Cecoi</u>, V. Ciornea, A. Isar, M. A. Macovei PHONON-ASSISTED GENERATION OF ENTANGLED TWO-QUBIT STATES <i>Institute of Applied Physics, MSU</i>	
CMT P5	<u>E. Yu. Kanarovskii</u>, O. V. Yaltychenko MODELING OF MULTICENTER CORE-SHELL NANOCCLUSERS <i>Institute of Applied Physics, MSU</i>	
CMT P6	<u>Yu. Chumakov</u>, E. Beleaev, S. G. Baca A DFT-TB2J INSIGHT INTO THE MAGNETIC BEHAVIOR AND INTRACHAIN INTERACTIONS OF THE 1D Co(II) PIVALATE COORDINATION POLYMER WITH HEXAMETHYLENETETRAMINE <i>Institute of Applied Physics, MSU</i>	
CMT P7	<u>Ş. Robu</u>, V. Stegarirov, I. Lungu, M. Diru, T. Potlog MONO- AND TETRASULFO-DERIVATIVES OF ZINC PHTHALOCYANINE AND THEIR CHITOSAN-BASED COMPOSITIONS <i>Institute of Applied Physics, MSU</i>	
CMT P8	<u>A. S. Cudreasov</u>, M. A. Macovei TWO DIPOLE-DIPOLE INTERACTING EMITTERS IN A MODERATELY STRONG LASER FIELD <i>Institute of Applied Physics, MSU</i>	

CMT P9	I. M. Cernica MODELING BLOOD FLOW IN STENOSED ARTERIES: PRESSURE LOSSE <i>Institute of Applied Physics, MSU</i>	
CMT P10	I. M. Cernica MODELING BLOOD FLOW IN STENOSED ARTERIES: BLOOD FLOW RATE <i>Institute of Applied Physics, MSU</i>	
CMT P11	S. C. Andronic, I. I. Sanduleac THE PEIERLS STRUCTURAL TRANSITION IN QUASI-ONE-DIMENSIONAL TTT2I3 ORGANIC CRYSTALS WITH CONSIDERING INTERCHAIN INTERACTION <i>Technical University of Moldova</i>	
CMT P12	S. Cârlig, V. Ciornea, C. Gherman, M. A. Macovei INDIRECT POPULATION OF AN EMPTY OPTICAL CAVITY VIA COLLECTIVE ATOMIC EFFECTS <i>Institute of Applied Physics, MSU</i>	
GPAM P1	I. Culeac, V. Verlan, V. Ghenea, I. Bulhac, I. Cojocaru, A.-G. Pantazi, M. Enachescu [Eu(DBM) ₃ Phen] SUBLIMATED THIN FILMS FOR OPTOELECTRONIC DEVICES <i>Institute of Applied Physics, MSU</i>	
GPAM P2	V. Ghenea, I. Culeac, I. Bulhac, L. Cuba SYNTHESIS AND SPECTROSCOPIC PROPERTIES OF Zn(II)/Cd(II) SCHIFF BASE COMPLEXES <i>Institute of Applied Physics, MSU</i>	
GPAM P3	E. Condrea FEATURES OF ZEEMAN SPLITTING IN UNIAXIALLY DEFORMED BISMUTH WIRES <i>Institute of Electronic Engineering and Nanotechnologies, TUM</i>	
GPAM P4	D. P. Dvornikov, A. V. Siminel OBSERVATION OF RESONANT PHOTOLUMINESCENCE FROM DEEP ENERGY CONTINUUM OF LAYER SEMICONDUCTOR InSe <i>Institute of Electronic Engineering and Nanotechnologies, TUM</i>	
GPAM P5	V. Batîr, I. Anefnaf, S. Aazou, N. Curmei, L. Dermenji, Z. Sekkat, E. Arushanov, M. Guc STRUCTURAL, VIBRATIONAL AND OPTICAL PROPERTIES OF Ag ₂ (Zn,Cd)(Sn,Ge) ₄ S ₄ THIN FILMS SUBJECTED TO THERMAL ANNEALING <i>Institute of Applied Physics, MSU</i>	
GPAM P6	N. Nedeoglo, T. Goglidze, E. Goncareenco, V. Sirkeli, D. Nedeoglo RADIATIVE PROPERTIES OF NANOSIZED ZnO:Ag POWDERS <i>Faculty of Physics and Engineering, MSU</i>	

GPAM P7	<u>V. Batîr</u>, D. Usenco, N. Curmei, L. Dermenji, K. G. Lisunov, E. Arushanov EFFECT OF SYNTHESIS ATMOSPHERE ON STRUCTURAL AND TRANSPORT PROPERTIES OF $(\text{Ag}_x\text{Cu}_{1-x})_2\text{ZnSnS}_4$ SOLID SOLUTIONS <i>Institute of Applied Physics, MSU</i>	
GPAM P8	L. Prodan, I. Filippova, D. Croitori, S. Moldovanu, S. Shova, O. Grendal, <u>V. Tsurkan</u> SYNTHESIS AND CRYSTAL GROWTH OF ALTERMAGNET CANDIDAT $\text{Fe}_{2-x}\text{Zn}_x\text{Mo}_3\text{O}_8$: COMPOZITION AND STRUCTURAL ANALYSIS <i>University of Augsburg, Germany · Institute of Applied Physics, MSU</i>	
GPAM P9	<u>I. Inculeț</u>, M. A. Koltsov, S. Moldovanu, N. Spalatu, G. V. Colibaba PROSPECTS OF CHEMICAL VAPOR TRANSPORT FOR SINTERING OF $\text{ZnO}_{1-x}\text{Se}_x$ ALLOYS <i>Institute of Applied Physics, MSU</i>	
GPAM P10	<u>V. Pinteă</u>, E. Arama, T. Shemyakova COMPARATIVE ANALYSIS OF ENERGY TRANSFER AND RADIATIVE RECOMBINATION PROCESSES IN ZnIn_2S_4 AND CdIn_2S_4 SINGLE CRYSTALS STUDIED BY LUMINESCENCE SPECTROSCOPY <i>Technical University of Moldova</i>	
GPAM P11	<u>D. Rusnac</u>, N. Spalatu, G. V. Colibaba STRUCTURAL, OPTICAL AND ELECTRICAL PROPERTIES OF $(\text{ZnO})_k\text{Ga}_2\text{O}_3$ CERAMICS AND THIN FILMS <i>Institute of Applied Physics, MSU</i>	
GPAM P12	<u>G. V. Colibaba</u>, S. Moldovanu, D. Rusnac, N. Spalatu LOW-TEMPERATURE SINTERING OF $\text{Zn}_k\text{In}_2\text{O}_{k+3}$ COMPOUND OXIDES BY CHEMICAL VAPOR TRANSPORT <i>Institute of Applied Physics, MSU</i>	
GPAM P13	<u>A. Nateprov</u>, Yu. Goryunov QUANTUM NEMATIC TRANSITION IN THE EuMe_2Pn_2 COMPOUNDS <i>Institute of Applied Physics, MSU</i>	
GPAM P14	<u>G. V. Colibaba</u>, M. A. Koltsov, N. Spalatu FEATURES OF Bi_2S_3 CRYSTAL GROWTH <i>Institute of Applied Physics, MSU</i>	
GPAM P15	<u>L. Dermenji</u>, V. Batîr, N. Curmei, V. Zalamai, G. Gurieva, D. Podgornîi, D. Usenco, E. Arushanov SYNTHESIS OF ACZTS THIN FILMS IN DIFFERENT GAS ATMOSPHERES <i>Institute of Applied Physics, MSU</i>	

EMDC P1	<u>S. Sergeev</u>, A. Meshalkin, I. Cojocar MULTI-BEAM LIGHT DIFFRACTION FROM CROSSED GRATINGS <i>Institute of Applied Physics, MSU</i>	
EMDC P2	<u>A. Chirita</u>, N. Nasedchina, S. Vatavu POLYMER/CHALCOGENIDE SEMICONDUCTOR STRUCTURE FOR X-RAY AND HOLOGRAPHIC IMAGING <i>Institute of Applied Physics, MSU</i>	
EMDC P3	<u>V. Morari</u>, V. Suman, E. Monaico, E. V. Rusu TOPOLOGICAL AND PHOTOELECTRICAL PROPERTIES OF In- AND Al-DOPED ZnSnO THIN FILMS PREPARED BY SPRAY PYROLYSIS <i>Ghitu Institute of Electronic Engineering and Nanotechnologies, TUM</i>	
EMDC P4	<u>D. P. Dvornikov</u>, A. V. Siminel DFB LASER-BASED PROTOTYPE METHANE SENSOR <i>Ghitu Institute of Electronic Engineering and Nanotechnologies, TUM</i>	
EMDC P5	<u>D. Untila</u>, D. Rusnac, G. Colibaba, C. Radu, A. E. Bocirnea, C. Besleaga, A. C. Galca, M. Koltsov, A. Katerski, I. O. Acik, N. Spalatu INVESTIGATION OF CLOSE-SPACED SUBLIMATION DEPOSITION OF SOLAR CELL ABSORBER LAYERS USING AgSbS ₂ AS SOURCE MATERIAL <i>Tallinn University of Technology, Estonia · Moldova State University</i>	
EMDC P6	<u>V. Suman</u>, L. Ghimpu, V. Morari, I. Lungu, V. Ursu, V. Zalamai, E. Monaico, E. Rusu, Ed. Monaico HETEROJUNCTION DEVICES FABRICATED USING n-TYPE ZnO SPUTTERING COMBINED WITH p-TYPE Cu ₂ O RF SPUTTERING <i>Ghitu Institute of Electronic Engineering and Nanotechnologies, TUM</i>	
EMDC P7	<u>A. Prisacaru</u>, C. M. Popescu, V. Mirovski ASSESSMENT OF RADIOFREQUENCY LEVELS FOR PUBLIC ELECTROMAGNETIC FIELD EXPOSURE CHARACTERIZATION IN URBAN 2G-5G AND WI-FI NETWORKS: A CASE STUDY <i>Moldova State University · Technical University of Moldova</i>	
EMDC P8	<u>V. Botnari</u>, V. Cazac, V. Abashkin, E. Achimova, C. Losmanschii, D. Muntean JONES MATRIX CHARACTERIZATION OF POLARIZATION GRATINGS RECORDED IN As ₂ S ₃ -Se NANOMULTILAYERS <i>Institute of Applied Physics, MSU</i>	
EMDC P9	B. Constantinov STUDY OF ELECTROHYDRODYNAMIC INSTABILITIES IN AN ELECTRICALLY CHARGED DIELECTRIC LIQUID UNDER MICROGRAVITY FOR ELECTROMAGNETIC RADIATION DETECTION AND CONVERSION <i>Institute of Applied Physics, MSU</i>	

EMDC P10	<u>D. Spoială</u>, E. Vatavu, Ig. Narolschi, V. Nicorici, M. Rusu, S. Vatavu TECHNOLOGICAL AND MORPHOLOGICAL ASPECTS OF GaSe THIN FILMS PREPARED ON SAPPHIRE SUBSTRATES <i>Faculty of Physics and Engineering, MSU</i>	
EMDC P11	<u>E. Bercu</u>, L. Gorceac, A. Scafaru, P. I. Chetruş, I. Maistruc, S. Vatavu EXTERNAL FACTORS' INFLUENCE ON THE PARAMETERS OF InP PHOTOVOLTAIC CELLS <i>Faculty of Physics and Engineering, MSU</i>	

WEDNESDAY, 2ND SEPTEMBER 2026

Hall "Regina Maria" – 137/C		SCAN FOR THE ABSTRACT
Plenary Session		
9:00	P. Sai, V. Korotyeyev, M. Dub, M. Orlita, <u>W. Knap</u> MAGNETOPLASMONIC CRYSTALS <i>CENTERA Labs Institute of High Pressure Physics · Warsaw University of Technology, Poland</i>	
9:30	M. Grossberg-Kuusk Tailoring the defect structure of Sb₂Se₃ <i>Tallinn University of Technology, Estonia</i>	
10:00	<u>M. Stef</u>, C. Schörnig, P. Veber, G. Buse, M. Poienar, D. Vizman LUMINESCENCE OF RARE-EARTH IONS DOPED IN FLUORITE CRYSTALS <i>West University of Timișoara, Romania</i>	
10:30	<u>S. Irimiciuc</u>, P. Hruška, E. Marešová, L. Volfova, S. Cichoň, S. Chertopalov, V. Grumezescu, V. Craciun, S. Vatavu, J. Lancok MICROWAVE ABSORBERS BASED ON HIGH-ENTROPY ALLOYS DEVELOPED BY PHYSICAL VAPOR DEPOSITION TECHNIQUES <i>Institute of Physics, Czechia · INFLPR, Romania</i>	
11:00 – 11:30		COFFEE BREAK
11:30	R. Ošťádal Advances in Compositional Analysis using ChemiSEM Technology <i>Thermo Fisher Scientific - Electron Microscopy</i>	
12:00 – 13:30		LUNCH BREAK

Hall "Regina Maria" – 137/C		SCAN FOR THE ABSTRACT
Oral Session – Condensed Matter Theory – B (CMT-B)		
13:30	A. Stoica, A. Isar Keynote GENERATION OF QUANTUM CORRELATIONS IN CONTINUOUS-VARIABLE OPEN QUANTUM SYSTEMS <i>National Institute of Physics and Nuclear Engineering, Romania</i>	
13:55	S. Ostrovsky, S. Klokishner Keynote CHANGE IN MAGNETIC AND POLARIZATION CHARACTERISTICS FACILITATED BY REDISTRIBUTION OF ELECTRON DENSITY IN THE [FECO] COMPLEX <i>Institute of Applied Physics, Moldova State University</i>	
14:20	A. A. Barsuk, F. Paladi BAND-GAP SPECTRA AND HARMONIC WAVE MODES IN AN INFINITE STRING WITH PERIODIC ELASTIC CONSTRAINTS <i>Moldova State University</i>	
14:35	V. P. Sirkeli, S. I. Caragacian, Iu. B. Boris, D. L. Nika QUANTUM WELL ENGINEERING FOR HIGH-EFFICIENCY InGaN-BASED RED LEDs <i>Moldova State University</i>	
14:50	K. Zdunek, T. Korona, A. Więckowska ELECTROCHEMICAL AND SPECTROSCOPIC SIGNATURES OF THE JAHN-TELLER EFFECT IN PLATINUM-MONODOPED Au ₂₄ Pt(SR) ₁₈ CLUSTERS <i>University of Warsaw, Poland</i>	
COFFEE BREAK		
15:35	S. Cojocaru, L. Dohotaru Keynote INTRINSIC STABILIZATION OF THIN-PLATE ACOUSTIC RESONATORS AGAINST BOTH TEMPERATURE AND PRESSURE VARIATIONS <i>National Institute for Physics and Nuclear Engineering, Romania</i>	
16:00	T. Mihaescu NEGATIVE PARTIAL TRANSPOSE ENTANGLEMENT WITNESSES BASED ON SECOND MOMENTS <i>National Institute of Physics and Nuclear Engineering, Romania</i>	
16:15	N. Gubceac, N. Ciobanu, V. Tronciu COMPLEX DYNAMICS OF INTERACTION BETWEEN CANCER AND IMMUNE SYSTEMS <i>Technical University of Moldova · State University of Medicine and Pharmacy</i>	
16:30	V. Ceban, A. Cudreaşov, A. Rotari, I. Cebotari PASSIVE QUANTUM COOLING IN OPTOMECHANICAL DEVICES <i>Institute of Applied Physics, Moldova State University, Moldova</i>	

Hall 2 – 141/C		SCAN FOR THE ABSTRACT
Oral Session – Design and Structural Engineering of Functional Materials (DSEFM)		
13:30	E. Gorincioi Keynote SUPERACIDIC CYCLIZATION AND BEYOND: THE OUTSTANDING INPUT OF ACAD. P.VLAD TO CHEMISTRY OF TERPENOIDS <i>Institute of Chemistry of Moldova State University</i>	
13:55	D. Podgornii, J. van Leusen, V. Ch. Kravtsov, Y. Skourski, P. Kögerler, S. G. Baca SYNTHESIS AND MAGNETIC PROPERTIES OF HEXANUCLEAR {Fe ₄ Ln ₂ } CLUSTERS BASED ON CARBOXYLATE AND AMINO-POLYALCOHOL LIGANDS <i>Institute of Applied Physics, Moldova State University</i>	
14:10	N. Sucman, R. Rzayev, I. Geru, F. Macaev NMR SPECTROSCOPY AS A TOOL FOR STRUCTURAL ELUCIDATION OF OLIGOMERS OBTAINED BY OXIDATIVE POLYCONDENSATION OF AROMATIC AMINES WITH DIHYDROXYBENZENES <i>Institute of Chemistry, Moldova State University</i>	
14:25	N. Bolocan, E. Gorincioi, C. Vicol, A. Barba, G. Duca MECHANISTIC INSIGHTS INTO THE SYNERGISTIC AND ANTAGONISTIC RADICAL-SCAVENGING DYNAMICS OF RESVERATROL-ASCORBIC ACID COMBINATIONS <i>Institute of Chemistry, Moldova State University</i>	
14:40	E. Beleaev, S. G. Baca CRYSTAL ENGINEERING OF Co(II/III) CLUSTER-BASED COORDINATION POLYMERS <i>Institute of Applied Physics, Moldova State University</i>	
14:55	A. Pîntea, R. Rusnac, V. Tsapkov, S. Shova, A. Gulea DESIGN AND SYNTHESIS OF A COPPER (II) COMPOUND WITH N-(4-METHOXYPHENYL)-2-[1-(PYRIDIN-2-YL)ETHYLIDENE]HYDRAZINE-1-CARBOTHIOAMIDE <i>Institute of Chemistry, Moldova State University</i>	
COFFEE BREAK		

Hall 3 – 145/C

SCAN FOR
THE
ABSTRACT

Oral Session – Solid State Nanophysics and Nanotechnology (SSNN)

13:30	A. S. Sidorenko FUNCTIONAL NANOSTRUCTURES AND NANOMATERIALS FOR NEUROMORPHIC COMPUTING <i>Technical University of Moldova</i>	
13:45	E. V. Monaico, E. I. Monaico, V. V. Ursaki, I. M. Tiginyanu MORPHOLOGY DESIGN IN POROUS GALLIUM ARSENIDE THROUGH CRYSTALLOGRAPHIC CONTROL AND ELECTROCHEMICAL NANOSTRUCTURING <i>Technical University of Moldova</i>	
14:00	T. Braniste, I. Tiginyanu THICKNESS-INDUCED TUNING OF ELECTRICAL AND PHOTOELECTRIC PROPERTIES IN ULTRALIGHT AERO-GaN/ZnO TETRAPOD NETWORKS <i>Technical University of Moldova</i>	
14:15	V.V. Zalamai, A.V. Tiron, I.G. Stamov, E.V. Rusu LAYERED SEMICONDUCTORS AND THEIR NANOSTRUCTURES: EXCITONS, POLARITONS, AND OPTICAL PHENOMENA <i>Technical University of Moldova</i>	
14:30	V. V. Ursaki, V. Morari, I. M. Tiginyanu Ga ₂ O ₃ BASED COMPOSITE FIMS AND AEROMATERIALS FOR MICROFLUIDIC, OPTOELECTRONIC AND PHOTO-ELECTROCHEMICAL APPLICATIONS <i>Technical University of Moldova · Academy of Sciences of Moldova</i>	
14:45	O. Shikimaka, D. Grabco, C. Pyrtsac, A. Prisacaru, D. Spoiala NANOINDENTATION OF MgO: POP-IN EVENTS DEVELOPMENT UNDER DIFFERENT LOADING CONDITIONS <i>Institute of Applied Physics, Moldova State University</i>	
15:00	V. Tronciu, S. Rusu, T. Oloinic NONLINEAR DYNAMICS OF QUANTUM DOT LASERS UNDER CONVENTIONAL AND FILTERED OPTICAL FEEDBACK <i>Technical University of Moldova</i>	
15:15	N. Siminel, A. Micu, C. Slobodeniuc, A. Siminel, L. Kulyuk LUMINESCENCE AND RADIATIVE DECAY KINETICS OF BOUND EXCITONS IN HALOGEN-INTERCALATED TRANSITION METAL DICHALCOGENIDES <i>Institute of Applied Physics, Moldova State University</i>	

COFFEE BREAK

Poster Session B (15:00 – 17:30)		SCAN FOR THE ABSTRACT
Design and Structural Engineering of Functional Materials (DSEFM)		
Solid State Nanophysics and Nanotechnology (SSNN)		
DSEFM P1	T. Potlog, I. Lungu, R. Tigoianu, A. Airinei SPECTROSCOPIC STUDY OF ALUMINUM AND SILICON CHLOROPHTHALOCYANINES <i>Institute of Applied Physics, MSU; Institute of Macromolecular Chemistry, Romania</i>	
DSEFM P2	D. Stati, V. Ch. Kravtsov, P. Kögerler, S. G. Baca FROM BUTTERFLIES TO WHEELS: EVOLUTION OF NUCLEARITY AND TOPOLOGY IN HETEROMETALLIC Co-La CLUSTERS DIRECTED BY AMINO-ALCOHOL AND CARBOXYLATE LIGANDS <i>Institute of Applied Physics, MSU</i>	
DSEFM P3	E. Beleaev, V. Ch. Kravtsov, S. G. Baca A NEW COBALT(II) COORDINATION POLYMER BASED ON DINUCLEAR PIVALATE BUILDING UNITS AND PYRAZINE LINKERS <i>Institute of Applied Physics, MSU</i>	
DSEFM P4	E. Beleaev, D. Brück, J. van Leusen, P. Kögerler, S. G. Baca A HEPTANUCLEAR HETEROMETALLIC {Co^{III}₄Co^{II}₂Gd^{III}} PIVALATE CLUSTER SUPPORTED BY N-BUTYLDIETHANOLAMINE LIGANDS <i>Institute of Applied Physics, MSU</i>	
DSEFM P5	E. Beleaev, D. Brück, J. van Leusen, P. Kögerler, S. G. Baca NEW HEXANUCLEAR {Co₃Tb₃} NANOCLUSTER CONSTRUCTED BY METHYLDIETHANOLAMINE AND PIVALATE LIGANDS <i>Institute of Applied Physics, MSU</i>	
DSEFM P6	P. Cebotaru, O. Cuzan, S. Shova, V. Lozan SYNTHESIS AND CHARACTERISATION OF A NOVEL Cu(II) SEBACATE WITH 2,2'-BIPYRIDINE <i>Institute of Chemistry, MSU</i>	
DSEFM P7	N. Craciun, V. Ch. Kravtsov, M. S. Fonari CRYSTAL STRUCTURE OF 1D COORDINATION POLYMER CATENA-(BIS(μ₂-4,4'-OXYDIANILINE)-(μ₂-PHENANTHROLINE)-CADMIUM (II) PERCHLORATE) <i>Institute of Applied Physics, MSU</i>	
DSEFM P8	O. Danilescu, I. Bulhac, M. Cocu, P. Bourosh, Yu. Chumakov CRYSTAL AND ELECTRONIC STRUCTURE OF MACROCYCLIC TRINUCLEAR COMPLEX OF Co(II) <i>Institute of Chemistry, MSU; Technical University of Moldova</i>	

DSEFM P9	<u>O. Danilescu</u>, I. Bulhac, P. Bourosh, O. Kulikova, Yu. Chumakov TUNING THE PHOTOLUMINESCENCE PERFORMANCE OF Cd(II) POLYMERS THROUGH POLYMORPHISM <i>Institute of Chemistry, MSU</i>	
DSEFM P10	<u>Yu. Chumakov</u>, M. Cocu, I. Bulhac, V. Kravtsov, P. Bourosh, O. Kulikova, O. Danilescu PHOTOLUMINESCENCE PROPERTIES AND DFT CALCULATIONS OF ISOMORPHIC ONE-DIMENSIONAL COORDINATION POLYMERS OF Zn(II) AND Cd(II) BASED ON A DIHYDRAZONE LIGAND WITH TERMINAL N-DONOR PYRIDINE FRAGMENTS <i>Institute of Applied Physics, MSU; Institute of Chemistry, MSU</i>	
DSEFM P11	<u>I. Bulhac</u>, E. Melnic, V. Ghenea, O. Danilescu, I. Culeac MONONUCLEAR Eu(III) COMPLEX OF 2,6-DIACETILPYRIDINE BIS(NICOTINOYLHYDRAZONE): SYNTHESIS AND CRYSTAL STRUCTURE <i>Institute of Chemistry, MSU</i>	
DSEFM P12	<u>A. A. Vitiu</u>, P. N. Bourosh A NOVEL ONE-DIMENSIONAL CADMIUM(II) COORDINATION POLYMER: SYNTHESIS AND STRUCTURAL CHARACTERIZATION <i>Institute of Applied Physics, MSU</i>	
DSEFM P13	<u>S. Melnic</u>, D. Bejan, S. Shova, V. Lozan DESIGN AND CHARACTERIZATION OF A NEW CADMIUM(II) METAL-ORGANIC FRAMEWORK <i>Institute of Chemistry, MSU; " State University of Medicine and Pharmacy</i>	
DSEFM P14	<u>A. Gorobet</u>, M. E. Crisan, P. N. Bourosh, O. V. Kulikova, L. Croitor CRYSTAL PACKING-DIRECTED LUMINESCENCE IN POTASSIUM COORDINATION POLYMERS BASED ON POSITIONAL ISOMERS OF CHLORONITROBENZOIC ACID <i>Institute of Applied Physics, MSU</i>	
DSEFM P15	<u>V. Gorinchoy</u>, G. Roman, S. Shova, V. Lozan THE COORDINATION COMPOUND OF Mn(II) DERIVED FROM 5-(4-CARBOXY-5-METHYL-1H-1,2,3-TRIAZOL-1-YL)ISOPHTHALIC ACID <i>Institute of Chemistry, MSU</i>	
DSEFM P16	<u>V. Gorinchoy</u>, S. Melnic, O. Cuzan, S. Shova DINUCLEAR COPPER(II) COMPLEX WITH 5-CHLOROSALICYLIC ACID <i>Institute of Chemistry, MSU</i>	
DSEFM P17	<u>V. Avdeev</u>, M. S. Fonari, P. Bourosh CRYSTAL STRUCTURE OF ZINC(II) PENTANUCLEAR CLUSTER BASED ON BENZOTRIAZOLE <i>Institute of Applied Physics, MSU</i>	

DSEFM P18	<u>E. Neguta</u>, S. Shova, G. Roman, A. Siminel, Y. Chumakov, V. Lozan 3D COORDINATION POLYMERS OF LANTHANIDES WITH 5-(4-CARBOXYPHENYL)-1-PHENYL-1H-PYRAZOLE-3-CARBOXYLIC ACID <i>Institute of Chemistry, MSU</i>	
DSEFM P19	<u>M. Mînașcurtă</u>, T. Jovmir, S. Shova, V. Lozan SYNTHESIS AND STRUCTURAL CHARACTERIZATION OF A SERIES OF Cu(II) COMPLEXES WITH 2-SALICYLIDENHYDRAZON-THIAZOLIDIN-4-ONE AND MONO- OR BIDENTATE AMINES <i>Institute of Chemistry, MSU</i>	
DSEFM P20	<u>D. Ureche</u>, P. Bourosh, I. Bulhac EFFICIENT SYNTHESIS OF TRANS-DIOXIMES THROUGH THE CONDENSATION OF PYRIDINE AND γ -PICOLINE WITH DICHLOROGLYOXIME <i>Institute of Chemistry, MSU</i>	
DSEFM P21	<u>O. Capbătut</u>, D. Brûx, J. van Leusen, P. Kögerler, S. G. Baca SYNTHESIS AND CHARACTERIZATION OF A TRINUCLEAR HETEROMETALLIC {CeCu ₂ } CLUSTER WITH PIVALATE AND TRIETHANOLAMINE LIGANDS <i>Institute of Applied Physics, MSU</i>	
DSEFM P22	R. Derivolcova, <u>O. Capbătut</u>, V. Ch. Kravtsov, S. G. Baca A DODECANUCLEAR Mn(II, III) CLUSTER BASED ON ISOBUTYRIC AND 1,1,1-TRIS(HYDROXYMETHYL)PROPANE LIGANDS <i>Institute of Applied Physics, MSU</i>	
DSEFM P23	<u>M. Ceabanova</u>, E. Stîngaci, N. Sucman, V. Pogrebnoi, M. Neamtu, F. Z. Macaev PREPARATION OF TETRACHLOROFERRATES(III) IONIC LIQUIDS CONTAINING IMIDAZOLIUM AND PYRIDINIUM CATIONS <i>Institute of Chemistry, MSU</i>	
DSEFM P24	<u>A. Trofaia</u>, V. Ch. Kravtsov, S. G. Baca A 1D COORDINATION POLYMER BASED ON HETEROMETALLIC OXO-CENTERED {Na ₂ Fe ₆ } CLUSTERS: SYNTHESIS AND STRUCTURAL CHARACTERIZATION <i>Institute of Applied Physics, MSU</i>	
DSEFM P25	<u>I. Voda</u>, V. Druta, S. Shova, V. Lozan MOLECULAR STRUCTURE OF A NEW 1D COBALT(II) COORDINATION POLYMER BASED ON SEBACIC ACID AND 4,4'-BIS(1H-IMIDAZOL-1-YLMETHYL)BENZENE <i>Institute of Chemistry, MSU</i>	

DSEFM P26	<u>N. Talmaci</u>, D. Dragancea, S. Shova SYNTHESIS AND LUMINESCENT PROPERTIES OF Zn(II) COORDINATION COMPOUNDS BASED ON 1,5-BIS(3,5-DI-TERT-BUTYL-SALICYLALDEHYDE)CARBOHYDRAZONE <i>Institute of Chemistry, MSU</i>	
DSEFM P27	B. Mindrescu, <u>N. Popa</u>, S. Shova, I. Bulimestru SYNTHESIS AND CHARACTERIZATION OF COORDINATION COMPOUNDS OF Cu(II) AND Bi(III) WITH SOME BENZOYLHYDRAZONES AND AMINOPOLYCARBOXYLATE LIGANDS <i>Moldova State University</i>	
DSEFM P28	<u>L. Lungu</u>, A. Ciocârlan, S. Shova, A. Arîcu SYNTHESIS AND X-RAY ANALYSIS OF N-(13,14,15,16-TETRANORLABD-7-OXO-8-EN-11-OYL)PHENOTHIAZINE <i>Institute of Chemistry, MSU</i>	
DSEFM P29	<u>I. Balan</u>, R. Nastas COMPUTATIONAL MODELING OF MB ADSORPTION ON THE PAH-AC SURFACE <i>Institute of Chemistry, MSU</i>	
DSEFM P30	<u>L. Lungu</u>, C. Vicol, V. Pogrebnoi, A. Ciocârlan, A. Arîcu DESIGN AND ANTIRADICAL ACTIVITY OF A NOVEL MOLECULAR HYBRID BASED ON A HOMODRIMANE SCAFFOLD INCORPORATING THIOSEMICARBAZIDE AND OXADIAZOLE UNITS <i>Institute of Chemistry, MSU</i>	
SSNN P1	<u>V. I. Boian</u>, R. Morari, V. M. Fomin, N. P. Rodriguez, J. Scheiter, A. Sidorenko MAGNETIC METAMATERIALS FOR SPIN - VALVE STRUCTURES AND FOR ARTIFICIAL NEURAL NETWORK BASE ELEMENTS <i>Ghitu Institute of Electronic Engineering and Nanotechnologies, TUM</i>	
SSNN P2	<u>L. A. Konopko</u>, A. A. Nikolaeva, T. E. Huber OBSERVATION OF YAMAJI MAGIC ANGLES IN BISMUTH SURFACES <i>Technical University of Moldova</i>	
SSNN P3	A. A. Nikolaeva, <u>L. A. Konopko</u>, T. E. Huber, Gh. I. Para, I. Gh. Ghergishan ELECTRICAL TRANSPORT PROPERTIES OF Bi _{0.98} Sb _{0.02} NANOWIRES IN SEMIMETAL AND SEMICONDUCTOR STATES <i>Technical University of Moldova</i>	
SSNN P4	V. Morari, <u>D. Bragari</u>, V. Suman, E. V. Rusu ELECTRICAL AND PHOTOELECTRICAL PROPERTIES OF Ga-DOPED Zn ₂ :1Sn THIN FILMS OBTAINED BY SPRAY PYROLYSIS <i>Ghitu Institute of Electronic Engineering and Nanotechnologies, TUM</i>	

SSNN P5	<u>T. D. Gutsul</u>, I. O. Rastimesina, A. J. Sibaev, E. P. Condrea, I. I. Belotercovschii INTRINSIC PEROXIDASE-LIKE ACTIVITY OF ZnO/MgFe₂O₄ PEG NANOCOMPOSITES AND THEIR APPLICATION IN THE COLORIMETRIC DETECTION OF H₂O₂ <i>Ghitu Institute of Electronic Engineering and Nanotechnologies, TUM</i>	
SSNN P6	S. A. Baranov MICRO AND NANOWIRE AND ITS APPLICATION <i>Institute of Applied Physics, MSU</i>	
SSNN P7	<u>S. Barladean</u>, N. Siminel SOLVENT-DEPENDENT EFFICIENCY OF ULTRASONIC LIQUID-PHASE EXFOLIATION OF TMD CRYSTALS <i>Faculty of Physics and Engineering, MSU; Institute of Applied Physics, MSU</i>	
SSNN P8	<u>V. Goremichin</u>, N. Siminel, C. Slobodeniuc, L. Kulyuk OPTIMIZATION OF THE GROWTH TECHNOLOGY OF TiS₂, WS₂, AND MoS₂ SINGLE CRYSTALS FOR SUPERCAPACITOR APPLICATIONS <i>Institute of Applied Physics, MSU</i>	

THURSDAY, 3RD SEPTEMBER 2026

Hall "Regina Maria" – 137/C		SCAN FOR THE ABSTRACT
Plenary Session		
9:00	A. Dinescu, M. Dragoman, D. Dragoman, A. Avram, O. Simionescu, C. Parvulescu ELECTRON BEAM LITHOGRAPHY FOR 2D MATERIAL-BASED DEVICES <i>IMT Bucharest, Romania</i>	
09:30	S. Zherlitsyn FRACTIONALIZED EXCITATIONS PROBED BY ULTRASOUND <i>Helmholtz-Zentrum Dresden-Rossendorf, Germany</i>	
10:00	C. Paşcu Moca QUANTUM GENERATING FUNCTIONS AND UNIVERSAL FAMILY-VICSEK SCALING IN NONEQUILIBRIUM QUANTUM MANY-BODY SYSTEMS <i>University of Oradea, Romania · Budapest University of Technology and Economics, Hungary</i>	
10:30	S. N. Klimin, J. Tempere, M. Houtput, I. Zappacosta, S. Ragni, T. Hahn, L. Celiberti, C. Franchini, A. S. Mishchenko EXTENDED FEYNMAN VARIATIONAL PRINCIPLE AND RELATED ANALYTICAL METHODS FOR LATTICE POLARONS <i>TQC, Universiteit Antwerpen, Antwerpen, Belgium</i>	
11:00 – 13:00		COFFEE BREAK / LUNCH BREAK

Hall "Regina Maria" – 137/C		SCAN FOR THE ABSTRACT
Oral Session – Design and Structural Engineering of Functional Materials (DSEFM)		
13:00	I. Bosneaga OPTIMIZED THERMOACCUMULATION AS A CONDITION <i>SINE QUA NON</i> FOR ENSURING SUSTAINABLE DEVELOPMENT <i>Institute of Applied Physics, Moldova State University</i>	
13:15	A. S. Batanov, N. S. Sucman, S. Shova, G. Balan, E. C. Gorincioi, F. Z. Macaev SYNTHESIS OF NOVEL MOLECULAR HYBRIDS: 2-(1-ETHYL-2-OXOINDOLIN-3-YLIDENE)HYDRAZONO)-THIAZOLIDIN-4-ONE AND ITS DERIVATIVE BY KNOEVENAGEL CONDENSATION <i>Institute of Chemistry, Moldova State University</i>	
13:30	A. Ciursin, R. Rusnac, G. Ghilețchii, S. Vatavu, A. Gulea SYNTHESIS AND XRD STUDY OF SOME α -HEXYLCINNAMALDEHYDE THIOSEMICARBAZONES <i>Institute of Chemistry, Moldova State University</i>	
13:45	D. Feldman, A. Simion, E. Gorincioi, N. E. Dina, F. Z. Macaev NOVEL BIOACTIVE AMINONAPHTHOQUINONES: DESIGN, SYNTHESIS AND SPECTROSCOPIC STUDIES <i>Institute of Chemistry, Moldova State University</i>	
14:00	A. Chiaburu, A. Besliu, I. Corețchi, I. Casian, A. Casian, E. Pavlovschi, I.-R. Tigoianu, B.-I. Ciubotaru, M.-F. Zaltariov MULTICOMPONENT MATRICES FOR CORNEAL REGENERATION WITH INSULIN/ GLUCOSE SENSITIVE FLUORESCENCE <i>Nicolae Testemitanu State University of Medicine and Pharmacy, Moldova</i>	
14:15	R. Rzayev, N. Sucman, B. A. Mammadov, R. Akhmedova, F. Macaev SYNTHESIS AND CHARACTERIZATION OF A MULTIFUNCTIONAL THERMOSTABLE CONDUCTIVE NANO-SIZED OLIGOMER BASED ON ORTHO-PHENYLENEDIAMINE AND CATECHOL <i>Institute of Chemistry, Moldova · Institute of Polymer Materials, Azerbaijan Republic</i>	
COFFEE BREAK		

Hall 2 – 141/C

SCAN FOR
THE
ABSTRACT

Oral Session - Materials engineering for Innovative and Sustainable Technologies (MEST)

13:00 **N. Tsyntsaru, T. K. Ratajczyk, H. Cesiulis, M. Donten**Keynote FROM BINARY TUNGSTEN ALLOYS TO HIGH-ENTROPY ELECTROCATALYSTS:
BALANCING ACTIVITY AND STABILITY IN HIGHLY ALKALINE MEDIA*Institute of Applied Physics, Moldova State University · Vilnius University, Lithuania*13:25 **B. Gajewska, R. Malik, R. Motyka, A. Blacha-Grzechnik, M. Łapkowski,
M. Czichy**2-SUBSTITUTED 1H-PERIMIDINES AS A BUILDING BLOCKS FOR
ELECTROACTIVE FUNCTIONAL MATERIALS*Silesian University of Technology, Poland*13:40 **N. Kareva, M. Czichy**INVESTIGATION OF ACRIDAN DERIVATIVES ELECTROCHEMISTRY BEHAVIOUR
WITH IN-SITU AND EX-SITU METHODS*Silesian University of Technology, Poland*13:55 **A. Ciursin, R. Rusnac, S. Shova, A. Gulea**SYNTHESIS AND CRYSTAL STRUCTURE OF A NOVEL Cu(II) COORDINATION
POLYMER BASED ON N-(2-(MORPHOLIN-4-YL)ETHYL)THIOSEMICARBAZONE
OF 3-ETHOXY-SALICYLALDEHYDE*Institute of Chemistry, Moldova State University*

COFFEE BREAK

Poster Session C (14:00 – 16:00)

SCAN FOR THE
ABSTRACT

Design and Structural Engineering of Functional Materials (DSEFM)

Materials Engineering for Innovative and Sustainable Technologies (MEST)

DSEFM P31	P. N. Bourosh, V. Ch. Kravtsov, I. S. Kravchuk, V. O. Graur, A. S. Cotovaia, O. S. Garbuz, A. P. Gulea CRYSTAL STRUCTURES OF TWO MIXED-LIGAND COPPER(II) COORDINATION COMPOUND WITH METHYL N'-[(2-HYDROXYPHENYL)METHYLIDENE]-N-(PROP-2-EN-1-YL)CARBAMOYDRAZONOTHIOATE <i>Institute of Chemistry, MSU</i>	
DSEFM P32	I. Balan, M. Gorbaciov, N. Gorinchoy, O. Moroz ANTIOXIDANT ACTIVITY OF IONIC LIQUIDS FORMED BY CARNITINE AND FOOD ACIDS: A COMPUTATIONAL STUDY <i>Institute of Chemistry, MSU</i>	
DSEFM P33	E. I. Melnic, P. N. Bourosh, <u>I. I. Graur</u>, V. O. Graur, O. S. Garbuz, V. I. Tsapkov, A. P. Gulea CRYSTAL STRUCTURES OF TWO SUBSTITUTED PYRUVAMIDE THIOSEMICARBAZONES <i>Institute of Chemistry, MSU</i>	
DSEFM P34	E. I. Melnic, P. N. Bourosh, <u>I. I. Graur</u>, V. O. Graur, O. S. Garbuz, V. I. Tsapkov, A. P. Gulea CRYSTAL STRUCTURES OF A PYRUVAMIDE THIOSEMICARBAZONE AND ITS NICKEL(II) COORDINATION COMPOUND <i>Institute of Chemistry, MSU</i>	
DSEFM P35	<u>A. Besliu</u>, A. Chiaburu, I. Casian, A. Casian, I. Coretchi, A. Sulaiman, D. Peptanariu, M.-F. Zaltariov, B.-I. Ciubotaru KAEMPFEROL-BASED BIOCOMPOSITES: PREPARATION, CHARACTERIZATION AND APPLICATION IN CORNEAL HEALING <i>Nicolae Testemitanu State University of Medicine and Pharmacy, Moldova</i>	
DSEFM P36	V. Suman GOLD NANOPARTICLE-CONJUGATED PHTHALOCYANINES (AuNPs) <i>Moldova State University; Technical University of Moldova</i>	
DSEFM P37	I. Coretchi, <u>A. Casian</u>, I. Casian, A. Besliu, A. Chiaburu, C. Ceban, D. Peptanariu, M. Balan-Porcarasu, S. L. Nica, M.-F. Zaltariov ADVANCES IN KAEMPFEROL FORMULATIONS: EXTRACTION, STRUCTURAL CHARACTERIZATION AND BIOLOGICAL ACTIVITY <i>Nicolae Testemitanu State University of Medicine and Pharmacy, Moldova</i>	

DSEFM P38	G. Zbancioc, A. M. Birgoanu, C. Moldoveanu, I. I. Mangalagiu, G. Tataringa, A. M. Zbancioc MICROWAVE ASSISTED REACTION OF FLUORESCENT PYRROLOQUINOLINE BUILDING BLOCKS <i>"Al. I. Cuza" University of Iasi, Romania</i>	
DSEFM P39	M. P. Ceabanova, E. P. Stingaci, E. C. Gorincioi, G. Balan, N. E. Dina, F. Z. Macaev NOVEL QUATERNARY AMMONIUM SALT OF 2-TERT-BUTYL-3-(1H-1,2,4- TRIAZOL-1-YL)-2H-CHROMEN-2-OL WITH POTENT ANTIFUNGAL ACTIVITY <i>Institute of Chemistry, MSU</i>	
DSEFM P40	V. S. Pogrebnoi, N. Sucman, M. Ceabanova, M. Neamtu, S. Shova, F. Z. Macaev NEW BIS-IMIDAZOLIUM IONIC LIQUIDS WITH DIFFERENT ANIONS <i>Institute of Chemistry, MSU</i>	
DSEFM P41	M. Hitsiuc, O. Shikimaka, N. Serban, C. Pyrtsac, N. Kazak, A. Cuharuc MECHANICAL PROPERTIES MODIFICATION OF 316L STAINLESS STEEL AFTER SHOT PEENING TREATMENT <i>Institute of Applied Physics, MSU</i>	
DSEFM P42	O. Palamarciuc, B. I. Ciubotaru, A. C. Stoica, M. Balan-Porcarasu, S. Shova, D. Peptanariu, M. Dascalu, M. Cazacu, V. B. Arion THIOSEMICARBAZIDE BASED MATERIALS AS DUAL MR2 RNR AND COLCHICINE-SITE TUBULIN INHIBITORS <i>Moldova State University; Institute of Macromolecular Chemistry, Romania</i>	
DSEFM P43	R. Nastas, M. Stefan, I. Ceban, A. Varadi, I. Nesterovschi, D. Toloman, A. Popa, I. Balan, S. Macavei, T. Lupascu SYNTHESIS AND FUNCTIONAL EVALUATION OF TiO ₂ -MODIFIED ACTIVATED CARBON COMPOSITES OBTAINED FROM PEACH STONES <i>Institute of Chemistry, MSU</i>	
DSEFM P44	N. Ciobanu, B. Buttari, E. Profumo, N. Sucman, N. Bolocan, M. Rusu, E. Gorincioi, F. Z. Macaev NEW 3,4-DIHYDROPYRIMIDIN-2(1H)-THIONE DERIVATIVE THAT ACTIVATES THE Nrf2-DRIVEN ANTIOXIDANT RESPONSE <i>Institute of Chemistry, MSU</i>	
DSEFM P45	E. P. Stingaci, M. P. Ceabanova, E. C. Gorincioi, N. E. Dina, K. Vuković Đerfi, T. Matijević Glavan, F. Z. Macaev NEW ANTICANCER QUATERNARY AMMONIUM SALT OF 2-TERT-BUTYL-3- (1H-1,2,4-TRIAZOL-1-YL)-2H-CHROMEN-2-OL WITH IMPROVED BIOAVAILABILITY <i>Institute of Chemistry, MSU</i>	

MEST P1	<u>L. Mocanu, M. Gonta</u> FUNCTIONAL TiO₂ NANOMATERIALS AND IRON-BASED CATALYTIC SYSTEMS FOR ADVANCED OXIDATION OF EMERGING PHARMACEUTICAL POLLUTANTS <i>Institute of Chemistry, MSU</i>	
MEST P2	<u>I. V. Paladii, E. Gh. Vrabie, V. Gh. Vrabie, T. G. Stepurina, A. A. Policarpov, C. Gh. Sprincean</u> ASPECTS OF DIFFERENTIATED FRACTIONATION OF SERUM PROTEINS DURING WHEY ELECTROACTIVATION <i>Institute of Applied Physics, MSU</i>	
MEST P3	<u>R. I. Lascova-Baciu, S. S. Belevskiy</u> METHODS FOR OBTAINING MoS₂ NANOMATERIALS VIA ULTRASOUND-ASSISTED ELECTROCHEMICAL INTERCALATION AND EXFOLIATION <i>Institute of Applied Physics, MSU</i>	
MEST P4	<u>A. Ya. Papchenko, G. D. Grecu</u> INVESTIGATION OF THE EFFICIENCY OF THE EXTRACTION TECHNOLOGY FROM KIWI USING ELECTROPLASMOLYSIS AND MICROWAVE TREATMENT <i>Institute of Applied Physics, MSU</i>	
MEST P5	<u>Gh. Duca, O. Covaliova, L. Romanciuc, C. Tasca</u> INDUSTRIAL-SCALE TESTING OF THE MODIFIED BIOGAS TREATMENT TECHNOLOGY OF LIQUID WINERY WASTES <i>Institute of Chemistry, MSU</i>	
MEST P6	<u>V. Mihailov, S. Ivaşcu, M. V. Lungu, D. Croitoru, Sp. Iaţco, A. Ianachevici, I. Ion, D. Pătroi, V. E. Marinescu, D. Tâlpeanu</u> TRIBOLOGICAL BEHAVIOR OF ELECTRICAL CONTACTS PRODUCED BY THE ELECTROSPARK ALLOYING METHOD <i>Institute of Applied Physics, MSU</i>	
MEST P7	<u>V. Mihailov, S. Ivaşcu, N. Kazak, A. Ianachevici</u> INTENSIFICATION OF PHASE-STRUCTURAL TRANSFORMATIONS IN THE SURFACE LAYERS OF METALS UNDER THE COMBINED ACTION OF ELECTRIC-SPARK ALLOYING, PLASTIC DEFORMATION AND PLASMA-CHEMICAL TREATMENT <i>Institute of Applied Physics, MSU</i>	
MEST P8	<u>S. Ivaşcu, V. Mihailov, D. Croitoru, Sp. Iaţco, A. Ianachevici</u> MODIFICATION OF METAL SURFACES THROUGH THE DEVELOPMENT OF ELECTRIC SPARK ALLOYING TECHNOLOGIES USING POWDERS <i>Moldova State University</i>	

MEST P9	<u>M. V. Lungu</u>, V. Mihailov, S. Ivaşcu, D. Pătroi, V. E. Marinescu, D. Tălpeanu, I. Ion, E. M. Lungulescu, A. R. Caramitu, E. Manta MICROSTRUCTURE AND TRIBOMECHANICAL PROPERTIES OF ELECTROSPARK-DEPOSITED SILVER-BASED COATINGS ON COPPER SUBSTRATES <i>ICPE-CA Bucharest, Romania</i>	
MEST P10	<u>V. A. Sharagov</u>, G. I. Curicheru PHYSICO-CHEMICAL PROPERTIES OF INDUSTRIAL GLASSWARE FROM THE POSITION OF SYSTEM ANALYSIS <i>Alecu Russo Balti State University</i>	
MEST P11	<u>V. A. Sharagov</u>, G. I. Curicheru, I. N. Olaru IMPROVING PHYSICO-CHEMICAL PROPERTIES OF ANNEALED HOLLOW INDUSTRIAL GLASSWARE <i>Alecu Russo Balti State University</i>	
MEST P12	<u>T. D. Kubritskaya</u>, G. K. Balan, T. D. Shemyakova ULTRASONICALLY ASSISTED EXTRACTION (UAE) OF BIOLOGICALLY ACTIVE SUBSTANCES FROM SPIRULINA <i>Institute of Applied Physics, MSU</i>	
MEST P13	<u>K. D. Pershina</u>, M. I. Gorobets, T. V. Trifonova IMPACT OF ANION ASYMMETRY MIXED SODIUM SALTS ELECTROLYTES ON ELECTRICAL CONDUCTIVITY <i>V. I. Vernadsky Institute of General and Inorganic Chemistry, Ukraine</i>	
MEST P14	<u>T. Isac-Gutsul</u>, D. L. Nika KINETICS OF TETRACYCLINE HYDROCHLORIDE DEGRADATION IN UV/S₂O₈²⁻ AQUEOUS SYSTEM <i>Moldova State University</i>	
MEST P15	<u>T. Ya. Datsko</u>, V. I. Zelentsov, D. P. Dvornikov VISIBLE-LIGHT ACTIVE PHOTOCATALYST. EFFECT OF ELECTROCHEMICAL SYNTHESIS CONDITIONS ON THE PROPERTIES <i>Institute of Applied Physics, MSU</i>	
MEST P16	<u>V. Zelentsov</u>, T. Datsko, O. Bolotin CALCULATION OF THERMODYNAMIC FUNCTIONS OF METHYLENE BLUE SORPTION ON DIATOMITE <i>Institute of Applied Physics, MSU</i>	
MEST P17	<u>I. Ceban</u>, R. Nastas, N. Timbaliuc, I. Nesterovschi, M. Stefan, A. Varadi, D. Toloman, A. Popa SYNTHESIS AND PHYSICO-CHEMICAL CHARACTERIZATION OF TiO₂ – MODIFIED ACTIVATED CARBONS FOR PHOTOCATALYTIC AND ADSORPTION APPLICATIONS <i>Institute of Chemistry, MSU</i>	

MEST P18	<u>I. Ceban</u>, C. Vicol, E. Moraru, M. Buga, M. Rusu, V. Ceban, S. Moldovanu, M. Mihet DEVELOPMENT OF CITRIC ACID-MODIFIED ACTIVATED CARBONS FROM WALNUT SHELL BIOMASS: STRUCTURAL, CHEMICAL AND SURFACE CHARACTERIZATION <i>Institute of Chemistry, MSU</i>	
MEST P19	<u>I. Ceban</u>, R. Nastas, T. Lupascu REMOVAL OF Fe(II) IONS ON CARBONACEOUS CATALYSTS AT DIFFERENT pH CONDITIONS <i>Institute of Chemistry, MSU</i>	
MEST P20	<u>C. Milos</u>, D. Craciun, R. Udrea, P. Garoi, S. A. Irimiciuc, G. Dorcioman, G. Bleotu, F. Al-abadj, P. Pandele, R. Radoi, E. Matache, S. Das, D. Sandu, D. Cracana, T. Jitsuno, A. Tanaseanu, D. Ursescu, V. Craciun IN-SITU REAL TIME MEASUREMENT OF LASER INDUCED DAMAGE THRESHOLD OF METALLIC THIN FILMS USED FOR NS AND FS LASER MIRRORS <i>National Institute for Laser, Plasma and Radiation Physics, Romania</i>	
MEST P21	<u>C. Creciunel</u>, A. Tiron, V. Ciobanu, A. Mamoico, T. Galatonova, E. Rusu, I. Tiginyanu INCORPORATION OF SnS₂ IN NANOFIBERS FOR PHOTOCATALYTIC APPLICATIONS <i>Technical University of Moldova</i>	
MEST P22	<u>E. I. Tutovan</u>, T. V. Isac-Gutul COMPARISON OF UV, UV/H₂O₂ AND UV/S₂O₈²⁻ PROCESSES FOR THE DEGRADATION OF ROSUVASTATIN IN AQUEOUS SOLUTION <i>Department of Chemistry, MSU</i>	
MEST P23	<u>S. Kh. Ivashku</u>, Zh. I. Bobanova, S. P. Yuschenko, S. M. Iatco ELECTRODEPOSITION OF IRON ALLOYS FROM CITRATE AND GLUCONATE ELECTROLYTES <i>Institute of Applied Physics, MSU</i>	

FRIDAY, 4TH SEPTEMBER 2026

Hall "Regina Maria"		SCAN FOR THE ABSTRACT
Plenary Session & Closing Ceremony		
Chairs L. Kulyuk, S. Vatavu		
10:00	V. M. Fomin QUANTUM INTERFERENCE IN QUANTUM RINGS <i>Leibniz Institute for Solid State and Materials Research, Germany · Moldova State University</i>	
10:30	G. Y. Soracá-Pérez, J. Garí-Galíndez, R. -F. Rubio, E. Niemi, M. Israr-Qadir, A. Pérez-Rodríguez, P. Vidal-Fuentes, V. Izquierdo-Roca, M. Guc DEVELOPING AI-DRIVEN TOOLS FOR ACCELERATED RESEARCH AND INDUSTRIAL PROCESSES MONITORING <i>Catalonia Institute for Energy Research (IREC), Spain</i>	
11:00 – 11:30 COFFEE BREAK		
11:30	M. A. Macovei, T. Mihaescu, A. Isar SINGLE - AND TWO - QUANTA PROCESSES IN COUPLED HYBRID SYSTEMS <i>Institute of Applied Physics, Moldova State University</i>	
12:00	L. Kulyuk, S. Vatavu CLOSING CEREMONY	