



**ACCEPTED ABSTRACTS**  
**20th International Balkan Workshop on Applied Physics and Materials Science**  
**12-15 July 2022 Constanta, ROMANIA**

Title	First name	M.I.	Family name	Affiliation	Country	Section	Abstract title	Presentation type
Dr.	Laura	E	ABRAMIUC	National Institute of Material Physics	Romania	1	POLARIZATION CHARGE DYNAMICS ON AIR-EXPOSED FERROELECTRIC $PB(ZR,TI)O_3(001)$ SURFACES	oral presentation
Prof.	Jocelyn		ACHARD	CNRS - LSPM	France	1	DEVELOPMENT OF AN IMPLANTATION SYSTEM FOR PRODUCTION OF HIGH-DENSITY NV CENTRES IN DIAMOND CLOSE TO THE SURFACE	oral presentation
Dr.	Cristina		ACHIM (POPA)	National Institute for Laser Plasma and radiation Physics	Romania	2	VOLATILE ORGANIC COMPOUNDS DETECTION USING PHOTOACOUSTIC SPECTROSCOPY METHOD WITH APPLICATIONS IN LIFE SCIENCE	oral presentation
Dr.	Luminita		AMARANDE	National Institute of Materials Physics	Romania	4	SYNTHESIS AND CHARACTERIZATION OF PIEZOCERAMIC MATERIALS FOR ROBOCASTING PRINTING OF 3D POROUS SCAFFOLDS	poster
Mr.	Florin		ANDREI	National Institute for Laser, Plasma and Radiation Physics	Romania	1	INORGANIC PEROVSKITE-BASED DEVICES FABRICATED VIA LASER ABLATION TECHNIQUES	oral presentation
Dr.	Ionut	R	ANDREI	National Institute for Laser, Plasma and Radiation Physics	Romania	2	CHAOTIC LASER DEVICE OF CRYPTO-SYSTEMS TESTING	poster
Ms.	Roxana		ANDREIAS	Transilvania University of Brasov	Romania	5	DEVELOPMENT OF A ROBOTIC LOWER LIMB REHABILITATION DEVICE	oral presentation
Dr.	Claudia	IA	ANGHEL	IFIN-HH	Romania	3	DECAY CHAINS OF SUPERHEAVY NUCLEI $Z=118-122$ AND $N\sim 172$	poster



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Dr.	Iulia		ANTOHE	INFLPR	Romania	4	ARA H 1 PEANUT ALLERGEN DETECTION USING A DUAL-ZONE FIBER OPTIC BIOSENSOR	poster
Dr.	Vlad	A	ANTOHE	University of Bucharest	Romania	1	EFFECT OF THE CADMIUM TELLURIDE DEPOSITION METHOD ON THE COVERING DEGREE OF ELECTRODES BASED ON COPPER NANOWIRE ARRAYS	invited
Prof.	Stefan		ANTOHE	University of Bucharest	Romania	4	STUDY OF CADMIUM-FREE A2-B6 THIN FILMS FOR ELECTRONIC AND OPTOELECTRONIC DEVICES	invited
Dr.	Mihai		ASANDULESA	Petru Poni Institute of Macromolecular Chemistry	Romania	1	SYNTHESIS AND CHARACTERIZATION OF A NEW CLASS OF AMPHIPHILIC SEMICONDUCTING POLYMERS BASED ON ANILINE AND ANILINE-N-PROPANESULFONIC ACID	poster
Ms.	Ilhame		ASSAHSAMI	National Institute of Materials Physics	Romania	1	THERMOELECTRIC PROPERTIES OPTIMIZATION OF THE P-TYPE $Mg_{2}Si_{0.3}Sn_{0.7}$ SOLID SOLUTIONS DOPED WITH AG AND GA	poster
Dr.	Mihaela		BACALUM	Horia Hulubei National Institute for Physics and Nuclear Engineering	Romania	4	IN VITRO IRRADIATION OF 2D AND 3D CELL CULTURE AT IFIN-HH	plenary
Mr.	Theodor		BAHNARIU	Technical University "Gheorghe Asachi" of Iasi	Romania	1	XPS STUDIES OF THE SURFACE PROPERTIES OF PLASMONIC NANOPARTICLES/LAYERED DOUBLE HYDROXIDES NANOARCHITECTONICS	poster
Mr.	Bulat		BAKIROV	JINR	Russia	5	NEUTRON STUDIES OF ROMAN MOSAIC FROM CONSTANČSA ROMANIA	oral presentation
Prof.	Camelia		BALA	University of Bucharest	Romania	4	AFFINITY-BASED SENSING PLATFORM. TOWARDS EFFICIENT DETECTION OF SOME BIOMARKERS	invited
Dr.	Liliana	M	BALESCU	National Institute Of Materials Physics	Romania	4	STRONTIUM AND/OR MAGNESIUM SUBSTITUTED BIPHASIC CALCIUM PHOSPHATE-BASED SCAFFOLDS FOR BONE GRAFTING APPLICATIONS	poster
Dr.	Cristina		BANCIU	INCDIE ICPE-CA	Romania	1	TIO <sub>2</sub> /3D GRAPHENE HYBRIDS	poster



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Dr.	Iulian		BANCUTA	Valahia University of Targoviste	Romania	4	DEVELOPMENT AND INVESTIGATION OF MAGNETIC SENSORS WITH THIN NI-CU FILMS DEPOSITED ON POLYMER SUBSTRATES BY SPUTTERING	poster
Ms.	Andreea	L	BANICA	Valahia University of Targoviste	Romania	5	NEW EXTRACTION CONCEPT FOR IDENTIFICATION AND QUANTIFICATION OF MICROPLASTICS IN MILK AND DAIRY PRODUCTS	poster
Dr.	Marius		BELC	Ovidius University of Constanta	Romania	4	ASPECTS OF THE PRESENCE OF HEAVY METALS IN PERMANENT TEETH COMING FROM A POLLUTED WORK ENVIRONMENT	poster
Dr.	Nadezhda		BELOZEROVA	Frank Laboratory of Neutron Physics, Joint Institute for Nuclear Research (FLNP JINR)	Russia	1	INVESTIGATION OF INTERNAL STRUCTURE AND ATOMIC DYNAMICS OF PHARMACEUTICAL COMPOUNDS UNDER THE INFLUENCE OF HIGH PRESSURE	poster
Dr.	Fabien		BENEDIC	LSPM-CNRS, Universite Sorbonne Paris Nord	France	1	LOW TEMPERATURE/LARGE AREA NANOCRYSTALLINE DIAMOND FILMS: FROM GROWTH PROCESS TO APPLICATIONS	invited
Dr.	Salah	E	BENSALEM	Centre de Developpement des Energies Renouvelables	Algeria	1	THEORETICAL INVESTIGATION OF THE MECHANICAL STABILITY OF DIAMOND-LIKE MATERIALS UNDER A PRESSURE GRADIENT	oral presentation
Dr.	Mioara		BERCU	Department of Lasers, National Institute for Laser, Plasma, and Radiation Physics	Romania	2	ASSESSMENT OF VOLATILE ORGANIC COMPOUNDS BY LASER PHOTOACOUSTIC SPECTROSCOPY IN AN URBAN AREA IN ROMANIA	oral presentation
Prof.	Daniela		BERGER	University "Politehnica" of Bucharest	Romania	4	EXPLORATION OF THE NANOCONFINEMENT EFFECT INTO THE MESOPORES OF SILICA-TYPE MATERIALS FOR BIOMEDICAL APPLICATIONS	invited
Dr.	Cristina		BESLEAGA	National Institute of Materials Physics	Romania	5	HFO <sub>2</sub> /ALN MULTILAYER DEVICES AND THEIR FUNCTIONAL CHARACTERIZATION	oral presentation



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Prof.	Gholam	H	BORDBAR	Shiraz University	Iran	3	STRUCTURE PROPERTIES OF ANISOTROPIC NEUTRON STAR IN THE PRESENCE OF STRONG MAGNETIC FIELD	invited
Dr.	Ana-Maria		BRATU	National Institute for Laser, Plasma and Radiation Physics	Romania	2	IMPACT OF DIFFERENT SMOKING DEVICES ON THE HUMAN BODY IN SHORT-TIME EXPOSURE	oral presentation
Dr.	Ovidiu		BRINZA	CNRS-LSPM	France	1	GROWTH STRATEGY FOR THICKENING AND ENLARGING MWPACVD DIAMOND FILMS	invited
Dr.	Ioan-Alin		BUCURICA	Valahia University of Targoviste	Romania	5	SURFACE WATER QUALITY ASSESSMENT USING ELECTROANALYTICAL METHODS AND INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY (ICP-MS)	poster
Prof.	Adriana	N	BURCI	University of Bucharest, Faculty of Physics	Romania	1	PT CARBON DEPOSITION BY ETHYLENGLYCOL REDUCTION METHOD	poster
Dr.	Maria	C	BUTA	Institute of Physical Chemistry Ilie Murgulescu	Romania	4	MAPPING THE SPIN COUPLING IN ANTIOXIDANT MOLECULES	poster
	Bogdan		BUTOI	National Institute for Laser, Plasma and Radiation Physics	Romania	2	DEPOSITION OF FE <sub>2</sub> O <sub>3</sub> DOPED PANI THIN FILMS BY DC PLASMA POLYMERIZATION	poster
Prof.	Daniela		CAPRIOARA	Ovidius University of Constanta	Romania	6	PROJECT-BASED LEARNING METHODS FOR SCIENCE AND ENGINEERING EDUCATION. AN APPROACH BASED ON BACKWARD EDUCATIONAL DESIGN AND DESIGN THINKING	invited
Prof.	Gabriel		CARUNTU	Central Michigan University	United States	4	SOLUTION-PROCESSED FERROELECTRIC PEROVSKITE COLLOIDAL NANOCRYSTALS FOR ELECTRONICS AND DATA STORAGE	invited
Prof.	Radion	G	CHERKEZ	Prof. Chernivtsi State University	Ukraine	4	POSSIBILITY OF PERMEABLE THERMOELEMENTS TO INCREASE THE THERMOELECTRIC EFFICIENCY	invited



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Dr.	Claudia	G	CHILOM	University of Bucharest	Romania	4	BIOPHYSICAL STUDY OF A1AT BINDING, UNFOLDING AND CORONA FORMATION AROUND CHEMICALLY SYNTHETIZED FERRIHYDRITE NANOPARTICLES	poster
Dr.	Fanica		CIMPOESU	Institute of Physical Chemistry Ilie Murgulescu	Romania	4	ENGINEERING MAGNETIC AND OPTICAL PROPERTIES OF LANTHANIDE COMPOUNDS WITH LIGAND FIELD MODELS	invited
Dr.	Diana		CHIPER	Horia Hulubei National Institute for Physics and Nuclear Engineering Magurele	Romania	3	QUICK METHODS FOR IDENTIFICATION OF MAJOR AND TRACE ELEMENTS IN DIFFERENT TYPE OF WASTE GLASS	poster
	Alexandra	D	CHIPER	Horia Hulubei National Institute for Physics and Nuclear Engineering Magurele	Romania	3	INVESTIGATION OF HEAVY METALS IN THE COMPOSITION OF GLASS OBJECTS USING XRF METHOD	poster
Ms.	Anda	A	CIOBANU	University of Bucharest, Faculty of Physics	Romania	6	SOFTWARE TOOLS FOR INVESTIGATING GEOMETRICAL OPTICS PHENOMENA	oral presentation
Dr.	Catalina	I	CIOBANU	Universitatea "Alexandru Ioan Cuza"	Romania	1	INFLUENCE OF TERMINAL CHAIN IN THERMAL DEGRADATION OF AZOCOMPOUNDS	poster
	Iulia	C	CIOBOTARU	National Institute of Materials Physics	Romania	1	THE ROLE OF HOLE TRANSPORT LAYER ON ELECTROSPUN WEB ANODE FOR FOLEDs APPLICATION	poster
Dr.	Cristiana	D	CIRSTEA	INC DIE ICPE-CA	Romania	5	CORRELATIONS BETWEEN MICROSTRUCTURE AND THERMO-ELECTRICAL PROPERTIES OF TI BASED SHAPE MEMORY ALLOYS OBTAINED BY POWDER METALLURGY	poster
Dr.	Alina		CISMARU	National Institute for Research and	Romania	5	METAMATERIAL-BASED RESONATOR FUNCTIONALIZED WITH CNTS FOR CO2 SENSING APPLICATIONS	oral presentation



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Prof.	Victor		CIUPINA	Development in Microtechnologies Ovidius University of Constanta/Academy of Romanian Scientists	Romania	1	STRUCTURAL AND PHYSICAL PROPERTIES OF SIC AND TIC BASED THIN FILMS DEPOSED BY TVA METHOD	invited
Prof.	Magdalena	L	CIUREA	National Institute of Materials Physics	Romania	1	FERROELECTRIC HFO <sub>2</sub> PHASE FORMATION BY GE-DOPING IN HFO <sub>2</sub> /GE-HFO <sub>2</sub> /HFO <sub>2</sub> 3-LAYER STRUCTURES ASSISTED BY STRESS FIELD	invited
Dr.	Mirela	M	CODESCU	R&D National Institute for Electrical Engineering ICPE-CA	Romania	1	SOL-GEL SYNTHESIS OF FERROMAGNETICS DECORATED GRAPHENE DERIVATIVE NANOSTRUCTURES FOR MICROWAVE ABSORBANCE	poster
Ms.	Alina		COMAN	National Institute for Earth Physics	Romania	5	THE ANALOGY BETWEEN SPECTRAL RATIOS COMPUTED ON AMBIENT VIBRATION AND EARTHQUAKE RECORDS	poster
Dr.	Lidia	R	CONSTANTIN	National Institute of Research and Development for Optoelectronics	Romania	1	DEPOSITION AND CHARACTERISATION OF ANTIMICROBIAL THIN FILMS ON TRANSPARENT POLYMER FOILS BY MAGNETRON SPUTTERING	oral presentation
Dr.	Angela	P	CONSTANTIN	National Institute for Earth Physics	Romania	5	MACROSEISMIC STUDIES IN ROMANIA	poster
Dr.	Costel	S	COTIRLAN-SIMIONIUC	National Institute for Materials Physics	Romania	5	TRANSVERSALLY ILLUMINATED PHOTO-UNIUNION TRANSISTOR WITH METASURFACES FOR HIGH PERFORMANCE OPTICAL COMPUTING	poster
Dr.	Liviu	S	CRACIUN	Horia Hulubei National Institute for Physics and Nuclear Engineering	Romania	3	NEUTRON ACTIVATOR DRIVEN BY A COMPACT CYCLOTRON FOR MEDICAL RADIOISOTOPE PRODUCTION	oral presentation
Ms.	Daniela		CRISTEA-STAN	Horia Hulubei National Institute for	Romania	3	STUDIES ON OTTOMAN SILVER COINS DISCOVERED IN DOBROGEA USING X-RAY BASED ELEMENTAL ANALYSIS METHODS	poster



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				Physics and Nuclear Engineering				
Dr.	Dimitrii		NISTOR	IFIN-HH/ELI-NP	Romania	2	THE 10 PW PEAK POWER LASER SYSTEM AT ELI-NP Â€ STATUS UPDATE	oral presentation
Prof.	Iosif	G	DEAC	Babes-Bolyai University	Romania	1	MAGNETIC PROPERTIES OF (MN-NI)FE <sub>2</sub> O <sub>4</sub> NANOPARTICLES EMBEDDED IN SiO <sub>2</sub> MATRIX	invited
Dr.	Mihail	C	DIACONESCU	National Institute for Earth Physics	Romania	5	STRESS FIELD ASSOCIATED WITH ACTIVE FAULTS IN THE NORTH EAST AREA OF ROMANIA	poster
Dr.	Andra	C	DINACHE	National Institute for Laser, Plasma and Radiation Physics	Romania	2	SPECTRAL CHARACTERIZATION OF TiO <sub>2</sub> NANOPARTICLES FUNCTIONALIZED WITH PORPHYRINS	poster
Dr.	Paul	P	DINCA	National Institute for Laser, Plasma and Radiation Physics	Romania	2	NEON RETENTION IN BERYLLIUM CO-DEPOSITED LAYERS	poster
Mr.	Ioan	M	DINU	IFIN-HH	Romania	3	A MACHINE LEARNING BASED TRIGGER ALGORITHM FOR THE PHASE-II UPGRADE MICROMEGAS DETECTOR OF THE NEW SMALL WHEEL MUON SYSTEM IN THE ATLAS DETECTOR	oral presentation
Dr.	Thomas		DIPPONG	Technical University of Cluj-Napoca, Faculty of Science	Romania	1	STRUCTURAL AND MAGNETIC PROPERTIES OF DOPED AND UNDOPED MnFe <sub>2</sub> O <sub>4</sub> EMBEDDED IN SILICA MATRIX	oral presentation
Mr.	Cosmin		DOBREA	National Institute for Laser, Plasma and Radiation Physics	Romania	2	MICROTOMOGRAPHY ANALYSIS ON ACCUMULATOR CELLS USED IN EV INDUSTRY	poster
Dr.	Relu Ion		DOBRIN	Canberra Packard SRL	Romania	3	DISCUSSIONS ON THE EFFICIENCY OF MEASURING RA-226 IN WATER SAMPLES BY LSC	poster
Prof.	Mircea		DRAGOMAN	IMT Bucharest	Romania	4	QUANTUM DEVICES AT ROOM TEMPERATURE BASED ON ATOMICALLY THIN MATERIALS	plenary
Mr.	Tudor	G	DUMITRU	Faculty of Physics, University of Bucharest	Romania	4	NUMERICAL INVESTIGATIONS INTO THE DISTRIBUTION OF WAITING TIMES IN NONLINEAR MAPS	poster



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Dr.	Liviu		DUTA	National Institute for Laser, Plasma and Radiation Physics	Romania	1	THIN FILMS DEPOSITION OF HYDROXYAPATITE DERIVED FROM VARIOUS NATURAL RESOURCES FOR IMPLANTOLOGICAL APPLICATIONS	oral presentation
Mr.	Outman		EL KHOUJA	National Institute of Materials Physics	Romania	1	BULK AND STRUCTURAL INVESTIGATIONS OF CO-ELECTRODEPOSITED CU <sub>2</sub> FESNS <sub>4</sub> STANNITE FILMS	oral presentation
Dr.	Monica		ENCULESCU	National Institute of Materials Physics	Romania	1	FABRICATION AND PROPERTIES OF PANI/NANOTUBES <sup>TM</sup> ASSEMBLIES FOR ELECTROCHEMICAL APPLICATIONS	oral presentation
Dr.	Ionut		ENCULESCU	National Institute of Materials Physics	Romania	1	MULTIFUNCTIONAL SYSTEMS BASED ON SUBMICRONIC WIRES AND FIBRE WEBS FOR SENSING AND ACTUATING APPLICATIONS	plenary
Dr.	Tiberiu	R	ESANU	IFIN-HH	Romania	3	PRELIMINARY RESULTS OBTAINED AT IFIN-HH USING THE 14-19 MEV CYCLOTRON	poster
Mr.	Nicolae		FILIPOIU	Horia Hulubei National Institute for Physics and Nuclear Engineering	Romania	1	OPTIMIZING THE BAND ALIGNMENT IN METHYLAMMONIUM LEAD IODIDE $\text{Å}^{\text{C}}$ CUXNI <sub>1</sub> -XO INTERFACE	oral presentation
Dr.	Andrei		GALATANU	National Institute of Materials Physics	Romania	1	HIGH TEMPERATURE THERMO-PHYSICAL AND MECHANICAL PROPERTIES OF K-DOPED W-LAMINATE MATERIALS PROCESSED BY FAST	oral presentation
Dr.	Magdalena		GALATANU	National Institute of Materials Physics	Romania	1	MICROENGINEERING DESIGN FOR ADVANCED W-BASED BULK MATEREIALS WITH IMPROVED PROPERTIES	oral presentation
Dr.	Aurelian	C	GALCA	National Institute of Materials Physics	Romania	1	CHALLENGES AND PERSPECTIVES OF SPUTTERED CU <sub>2</sub> ZNSNS <sub>4</sub> BASED SOLLAR CELLS	oral presentation
Dr.	Petronela		GAROI	National Institute for Laser, Plasma and Radiation Physics	Romania	1	STRUCTURAL AND OPTICAL CHARACTERISTICS BY SIMULATING THE THEORETICAL MODELS OF SILVER AND GOLD THIN FILMS GROWN WITH RADIO FREQUENCY MAGNETRON SPUTTERING DEPOSITION	poster
Dr.	Cristian		GHITA	NATIONAL INSTITUTE FOR EARTH PHYSICS	ROMANIA	5	MONITORING THE OSCILATIONS OF THE BLACK SEA LEVEL WITH THE IDSL MESUREMENTS DEVICES	poster





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Mr.	Ioan	M	GHITIU	INFLPR	Romania	1	INVESTIGATION OF STRESS INDUCED PROPERTY CHANGES IN PEROVSKITE MATERIALS	oral presentation
Ms.	Roxana		GRIGORE	Ovidius University of Constanta	Romania	2	MAGNESIUM DOPED ZINC THIN FILMS FOR ALKALINE BATTERIES DEPOSITED BY LASER INDUCED THERMOIONIC VACUUM ARC	poster
Dr.	Stefania	M	HAU	National Institute for Laser, Plasma and Radiation Physics	Romania	1	SPECTROSCOPIC CHARACTERIZATIONS OF PR <sup>3+</sup> AND DY <sup>3+</sup> DOPED CALCIUM TANTALUM GALLIUM GARNET- CA <sub>2.85</sub> TA <sub>1.80</sub> GA <sub>3.100</sub> 12 SINGLE CRYSTALS	poster
Dr.	Razvan		HIRIAN	Faculty of Physics, BabesBolyai University	Romania	1	PROPERTIES OF COMPOSITE MAGNETIC FILAMENTS FOR 3D PRINTING, PRODUCED USING SMC05/FE EXCHANGE COUPLED NANOCOMPOSITES	oral presentation
Dr.	Marius	A	HUSANU	National Institute of Materials Physics	Romania	1	MODIFIED OCCUPANCY OF THE ORBITALS AT THE CONDUCTING INTERFACE LAALO <sub>3</sub> /SRTIO <sub>3</sub>	poster
Mr.	Ovidiu	E	HUTANU	IFIN-HH	Romania	3	INTEGRATED SYSTEM FOR TEMPERATURE MANAGEMENT OF FRONT-END ELECTRONICS FOR PARTICLE PHYSICS EXPERIMENTS	poster
Dr.	Valentin	G	ION	National Institute for Laser, Plasma and Radiation Physics	Romania	2	THIN FILM OF OXIDIZED TERFENOL-D OBTAINED BY PULSED LASER ABLATION	poster
Ms.	Florina	L	IONASCU	Horia Hulubei National Institute for Physics and Nuclear Engineering	Romania	3	INFLUENCE OF EMBEDDING DIFFERENT MATERIALS USED AS THE SELECTIVE SORBENTS FOR RADIOCESIUM ON THE CEMENT MATRICES STRUCTURAL PROPERTIES	poster
Dr.	Evelina	Z	IONESCU	Horia Hulubei National Institute for Physics and Nuclear Engineering	Romania	3	FAST METHOD TO ESTIMATE THE ACTIVITY OF CO-60 AND CS-137 RADIONUCLIDS PRESENT IN LARGE PACKAGES WITH CONCRETE	poster
Dr.	Viorel		IONESCU	Ovidius University of Constanta	Romania	5	PERFORMANCE ANALYSIS OF THERMOELECTRIC SELF " COOLING SYSTEM FOR ELECTRONIC CHIPS	poster
Dr.	Codrina		IONITA	Institute for Ion Physics and Applied	Austria	2	PLASMA-FACING COMPONENTS COATED BY ULTRA-NANO-CRYSTALLINE DIAMOND FOR HOT AND HAZARDOUS PLASMAS	invited



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				Physics/University of Innsbruck				
Dr.	Stefan	M	IODACHE	National Institute for Research and Development in Optoelectronics-INOE 2000	Romania	1	ELECTROCHEMICAL SENSOR BASED ON FUNCTIONALIZED DOUBLE-WORKING ELECTRODE FOR THE ASSESSMENT OF FOOD FRESHNESS	poster
Dr.	Alexandru		IORGA	INC DIE ICPE-CA	Romania	1	TEMPERATURE SENSOR MODEL WITH FERROMAGNETIC MICROWIRES FOR ELECTRIC MOTORS	poster
Dr.	Aurel		KONSTANTINOVICH	Chernivtsi National University	Ukraine	5	RADIATION SPECTRUM OF ELECTRONS MOVING IN SPIRAL IN VACUUM AND MEDIUM	poster
Dr.	Ivan		KONSTANTINOVICH	Chernivtsi National University	Ukraine	5	ON THE EFFICIENCY OF GYROTROPIC THERMOELEMENTS IN COOLING MODE	poster
Dr.	Pavel		KUDRNA	Charles University, Faculty of Mathematics and Physics	Czech Republic	2	OPTICAL EMISSION SPECTROSCOPY STUDY OF PLASMA PARAMETERS IN LOW-PRESSURE HOLLOW CATHODE PLASMA JET AND PLANAR MAGNETRON SYSTEM BY DC AND PULSED DC EXCITATION SOURCE	invited
Ms.	Ioana		KUNC SER	INFLPR	Romania	2	NUMERICAL MODELLING OF SURFACE PLASMON RESONANCE SENSORS IN WAVEGUIDE CONFIGURATION EMPLOYING GOLD AS PLASMONIC MATERIAL	poster
Dr.	Lucia	N	LEONAT	National Institute of Materials Physics	Romania	1	HYBRID PEROVSKITE SOLAR CELLS - IMPROVING THE STABILITY THROUGH COMPOSITIONAL ENGINEERING	oral presentation
Dr.	Ana-Maria		LEPADATU	National Institute of Materials Physics	Romania	1	RAPID THERMAL ANNEALING TEMPERATURE EFFECTS ON CHARGE STORAGE BEHAVIOR OF SIGESN QUANTUM DOTS EMBEDDED IN THE HIGH-K CMOS-COMPATIBLE HFO <sub>2</sub> IN FLOATING GATE NON-VOLATILE MEMORIES	oral presentation



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Ms.	Olga		LIS	Joint Institute for Nuclear Research	Russia	1	THE PRESSURE AND TEMPERATURE EFFECT ON CRYSTAL AND MAGNETIC STRUCTURES OF VAN DER WAALS MATERIALS	poster
Dr.	Cristian	P	LUNGU	National Institute for Laser, Plasma and Radiation Physics	Romania	2	BERYLLIUM BASED PLASMA FACING COMPONENTS FOR NUCLEAR FUSION REACTORS	plenary
Dr.	Mihail		LUNGU	National Institute for Laser, Plasma and Radiation Physics	Romania	1	SURFACE, STRUCTURAL AND MECHANICAL PROPERTY CHANGES OF OXIDES IN TUNGSTEN & BERYLLIUM METALLIC REINFORCED MATRIX COMPOSITES	poster
Dr.	Jeanina	M	LUNGU	Ovidius University of Constanta	Romania	6	A PROJECT-BASED LEARNING UNIT ON INTRODUCTORY THERMODYNAMICS DEvised BY BACKWARD EDUCATIONAL DESIGN AND DESIGN THINKING	invited
Dr.	Eduard	M	LUNGULESCU	National Institute for R&D in Electrical Engineering ICPE-CA	Romania	1	CHARACTERIZATION OF THE AGEING STATE OF THE ELECTROINSULATING POLYMERIC BASED MATERIALS UNDER RADIATION ENVIRONMENTS	poster
Dr.	Monica		MAGUREANU	National Institute for Laser, Plasma and Radiation Physics	Romania	2	REMOVAL OF ANTIBIOTIC POLLUTANTS IN WATER BY NON-THERMAL PLASMA	invited
Dr.	Eugen	A	MANTA	INCDIE ICPE-CA	Romania	1	REACTIVE IMPEDANCE OF MICROSTRUCTURES BASED ON FERROMAGNETIC MICROWIRES	poster
Ms.	Alexandra		MARANCIUC	Research Center for Complex Physical Systems, Faculty of Sciences, Lucian Blaga University of Sibiu	Romania	4	AG-NPS FOR BIOMEDICAL APPLICATIONS - SYNTHESIS AND CHARACTERIZATION	oral presentation
Ms.	Laura	E	MARINAS	Bucharest University of Economic Studies	Romania	6	BULDING A STEM LEARNING ENVIRONMENT IN ROMANIA. A CASE STUDY	invited



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Mr.	Virgil	E	MARINESCU	R&D National Institute for Electrical Engineering ICPE-CA	Romania	1	FEXCU1-X ALLOYS WITH INDUCED MAGNETIC ANISOTROPY	poster
Ms.	Mihaela		MARIS	Dunarea de Jos University of Medicine	Romania	4	THE METHODS OF CONDITIONING IN ORDER TO OBTAIN CONTROLLED MICRO-RETENTIONS ON THE SURFACES OF IMPLANTS	poster
Prof.	Stefan		MATEJCIK	Comenius University	Slovakia	2	ION MOBILITY SPECTROMETRY STUDIES OF ATMOSPHERIC PRESSURE DISCHARGES AND THEIR APPLICATIONS	invited
Prof.	Sorin		MELINTE	University of Louvain	Belgium	5	SILICON NANOMATERIALS FOR ENERGY STORAGE	invited
Dr.	Sever		MICAN	Faculty of Physics, BabesBolyai University	Romania	1	STRUCTURAL, ELECTRONIC AND MAGNETIC PROPERTIES OF PRCO3-XCUX INTERMETALLIC COMPOUNDS	oral presentation
Dr.	Vianney		MILLE	LSPM-CNRS	France	1	DEPOSITION OF BORON NITRIDE BY MICRO HOLLOW CATHODE DISCHARGE	invited
Mr.	Bogdan	C	MITREA	Nanosae Research Center	Romania	5	COPPER AND TIO2 NANOPARTICLES EFFECTS OVER THE PHOTOSYNTHESIS PROCESS IN PLANTS	poster
Dr.	George		MOGILDEA	Institute of Space Science-INFLPR	Romania	1	CRYSTALLINE IN2O3 NANOPARTICLES SYNTHESIS USING MICROWAVES VAPORIZATION OF METALLIC WIRES	poster
Dr.	Marian		MOGILDEA	Institute of Space Science-INFLPR	Romania	2	ATMOSPHERIC MICROWAVE PLASMA GENERATION FROM METALLIC WIRES	poster
Dr.	Cristian		MORARI	INCDTIM	Romania	1	AB-INITIO MOLECULAR DYNAMICS AS A TOOL FOR THE STUDY OF LI DIFFUSION IN ORGANIC MOFS	oral presentation
Prof	Gabriel		MURARIU	Faculty of Sciences and Environment, Dunarea de Jos University of Galati	Romania	4	TRANSFER-MATRIX APPROACH FOR SOLUTION OF ONE-DIMENSIONAL LINEAR NONHOMOGENEOUS OPTICAL STRUCTURES	poster
Mr.	Catalin	A	NACIU	National Institute for R&D in Electrical	Romania	5	DESIGN OF FERROFLUIDIC MICROPUMP USED IN MEMS	poster



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				Engineering ICPE-CA				
Dr.	Yoshihide		NAKAMIYA	IFIN-HH/ELI-NP	Romania	2	EXPERIMENT FOR MITIGATION OF LASER-INDUCED CONTAMINATION ON THE DIELECTRIC MATERIAL WITH OXYGEN INJECTION AT ELI-NP	poster
Dr.	Atoumane		NDIAYE	Cheikh Anta Diop University of Dakar	Senegal	4	STUDY OF THE ELECTROCHROMISM PHENOMENON ON 1,3,3-TRYPHENYLTRIAZ-1-ENE BY DFT CALCULATIONS OF EPR AND NMR SPECTROSCOPIES	poster
Ms.	Elena		NEACSU	Horia Hulubei National Institute for Physics and Nuclear Engineering	Romania	3	UP DATED RESULTS OF THE TREATMENT OF SOLID RADIOACTIVE WASTE BY SUPERCOMPACTION	poster
Dr.	George	A	NEMNES	Horia Hulubei National Institute for Physics and Nuclear Engineering	Romania	5	LARGE- AND SMALL-SIGNAL ANALYSIS OF PEROVSKITE SOLAR CELLS: THE ROLES OF IONIC CHARGE ACCUMULATIONS AND IONIC CURRENTS	oral presentation
Ms.	Anca	L	NICAREL	Faculty of Physics, University of Bucharest	Romania	2	ANTIMICROBIAL AND CYTOCOMPATIBLE COMPOSITE COATINGS FROM SUSTAINABLE, LOW-COST BIOMATERIALS FOR BIOMEDICAL APPLICATIONS	poster
Ms.	Mihaela	D	NICU	Horia Hulubei National Institute for Physics and Nuclear Engineering	Romania	3	THE EVALUATION OF MECHANICAL CHARACTERISTICS OF CEMENT BASED MATRICES CONTAINING SECONDARY RADIOACTIVE WASTE OBTAINED IN RADIOCESIUM SEPARATION PROCESS	poster
Ms.	Nicoleta	O	NICULA	National Institute for R&D in Electrical Engineering ICPE-CA	Romania	4	WASTEWATER TREATMENT BY NEW BACTERIA STRAINS/BIOFILTER SYSTEMS	poster
Ms.	Alina	R	ONE	Babes Bolyai University	Romania	1	ELECTRIC FIELD ASSISTED MAGNETIZATION REVERSAL IN AN AU/FE/MGO DISK IN A PULSE LENGTH INDEPENDENT REGIME	oral presentation



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Dr.	Corneliu	I.	OPREA	Ovidius University of Constanta	Romania	4	MODELING TiO <sub>2</sub> NANOCCLUSERS FOR PHOTOCATALYTIC DEGRADATION OF PENICILLINS	poster
Dr.	Iulian		PANA	National Institute of Research and Development for Optoelectronics	Romania	1	DEVELOPMENT AND EVALUATION OF COPPER BASED TRANSPARENT HEAT REFLECTORS OBTAINED BY MAGNETRON SPUTTERING	oral presentation
Ms.	Denis		PANAITESCU	ICECHIM	Romania	5	THERMAL AND MECHANICAL PROPERTIES OF POLIVINYLIDEN FLUORIDE/NANOSILICA NANODIELECTRICS	oral presentation
Mr.	Calin	A	PANTIS-SIMUT	Horia Hulubei National Institute for Physics and Nuclear Engineering	Romania	5	SUBSTRATE INFLUENCE ON THE SPIN AND CHARGE TRANSPORT PROPERTIES OF GRAPHENE-LIKE MATERIALS	poster
Prof.	Vasile		PARVULESCU	University of Bucharest	Romania	1	NANO-METALS SUPPORTED ON GRAPHITIC CARBONS AS HIGHLY ACTIVE AND MATERIALS FOR THE ENERGY PRODUCTION AND ENVIRONMENTAL APPLICATIONS	plenary
Dr.	Vlad	M	PLACINTA	IFIN-HH	Romania	3	EXPERIMENTAL TEST BENCH FOR EVALUATING THE RADIATION TOLERANCE OF INTEGRATED CIRCUITS IN RADIATION ENVIRONMENTS	poster
Dr.	Anica	O	PLACINTA	National Institute for Earth Physics	Romania	5	EARTHQUAKE SOURCE PROPERTIES OF A LOWER CRUST SEQUENCE GENERATED IN THE MARASESTI AREA (ROMANIA)	poster
Dr.	Silviu		POLOSAN	National Institute of Materials Physics	Romania	1	ORGANIC LIGHT EMITTING DIODES WITH ELECTROSPUN ELECTRODES FOR DOUBLE SIDE EMISSION.	invited
Dr.	Dana	G	POPESCU	National Institute of Materials Physics	Romania	1	RASHBA COUPLING IN METALLIC STATES AT THE METAL/SEMICONDUCTOR INTERFACE	poster
Ms.	Ioana		POROSNICU	National Institute of Laser Plasma and Radiation Physics	Romania	2	INDUCED EFFECTS IN MELANOMA CELLS BY COMBINED EXPOSURE TO Y <sub>2</sub> O <sub>3</sub> NANOPARTICLES AND SUPERFICIAL X-RAY	poster



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Ms.	Amanda	T	PREDĂ	Research Institute of the University of Bucharest (ICUB)	Romania	4	MACHINE LEARNING TECHNIQUES APPLIED TO MANY-PARTICLE STATES IN QUANTUM DOT SYSTEMS	oral presentation
Ms.	Carmen	N	PROFIROIU	"Mihail Kogalniceanu" Economical College, Focsani, Romania	Romania	6	TEACHING PHYSICS USING COMPUTER GAMES	poster
Dr.	Dania		RACOLTA	Technical University of Cluj Napoca, North University Center of Baia Mare	Romania	1	MAGNETIC PROPERTIES IN CALCIUM-PHOSPHATE SYSTEMS	poster
Prof.	Mihaela		RACUCIU	"Lucian Blaga" University of Sibiu	Romania	4	NANOTOXICITY OF IRON OXIDE NANOPARTICLES INTERNALIZED IN MAIZE SEEDLINGS	poster
Dr.	Laura		RADULESCU	IFIN-HH	Romania	3	THE MECHANICAL INTEGRATION OF THE SUPPORT STRUCTURE FOR THE TRD-2D CHAMBERS IN THE CBM-TRD WALL	oral presentation
Dr.	Beatrice	G	SBARCEA	INC DIE ICPE-CA	Romania	1	CORRELATION BETWEEN HEAT TREATMENTS PARAMETERS AND X-RAYS DIFFRACTION AND MECHANICAL AND STRUCTURAL CHARACTERISTICS OF ALLUMINUM ALLOY TYPE 5083	poster
Ms.	Felicia	I	SCARLAT	Faculty of Physics, University of Bucharest	Romania	6	ONLINE TEACHING: A SURVEY OF CHALLENGES AND SOLUTIONS	poster
Prof.	Roman		SCHRITTWIESER	Institute for Ion Physics and Applied Physics/University of Innsbruck	Austria	2	PLASMA FIREBALLS, THEIR CREATION AND BEHAVIOUR	plenary
Mr.	Cosmin	A	SERBAN	University of Bucharest, Faculty of Physics	Romania	4	THE DEFAULT EEG MACROSTATE AND ITS APPLICATIONS IN MEASURING SENSORY STIMULATION SALIENCE IN THE COMATOSE STATE	oral presentation



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Prof.	Radu		SETNESCU	National Institute for R&D in Electrical Engineering ICPE-CA	Romania	3	CHARACTERIZATION OF ELECTRICALLY CONDUCTIVE COMPOSITES FOR SELF-REGULATING HEATING CABLE	poster
Prof.	Branko		SKORIC	University of Novi Sad	Serbia	1	POSSIBILITY OF PLASMA TECHNOLOGIES FOR HIGH TEMPERATURE PROTECTIVE THIN COATINGS	invited
Dr.	Adriana		SMARANDACHE	NATIONAL INSTITUTE FOR LASER, PLASMA AND RADIATION PHYSICS (INFLPR)	Romania	2	LASER BASED DETECTION OF MICROPLASTICS IN WATER	poster
Dr.	Daniel		SOPU	Erich Schmid Institute of Materials Science, Austrian Academy of Sciences	Austria	1	ATOMIC-LEVEL PROCESSES OF SHEAR BANDING IN MONOLITHIC METALLIC GLASSES	invited
Dr.	Marius		SOROCEANU	Petru Poni Institute of Macromolecular Chemistry	Romania	1	SOLVENT EFFECT ON THE MORPHOLOGY AND OPTICAL FEATURES OF SOME FILMS BASED ON DONOR-ACCEPTOR AZOMETHINES	poster
Mr.	Corneliu	B	STAIUCU	National Institute for Lasers, Plasma and Radiation Physics	Romania	2	DEUTERIUM RETENTION IN BERYLLIUM CO-DEPOSITED LAYERS	poster
Dr.	George		STAN	National Institute of Materials Physics	Romania	4	SINGLE AND COUPLED BIO-FUNCTIONAL EFFECTS OF CUO AND GA2O3 INCORPORATED AS THERAPEUTIC AGENTS IN SILICA- AND PHOSPHATE-BASED BIOACTIVE GLASSES	oral presentation
Dr.	Anda	E	STANCIU	National Institute of Materials Physics	Romania	1	MAGNETO-RESISTANCE EFFECT IN STRAIGHT AND HELICAL FERROMAGNETIC MICRO-WIRES	oral presentation
Dr.	Viorica		STANCU	National Institute of Materials Physics	Romania	1	TRIPLE CATION MIXED HALIDE PEROVSKITE AND SNO2 MESOPOROUS SCAFFOLD FOR SOLAR CELLS	poster
Dr.	Marius		STEF	West University of Timisoara	Romania	1	GROWTH AND SPECTROSCOPIC SPECTROSCOPIC PROPERTIES OF PBF2-DOPED BAF2 CRYSTALS	poster





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Dr.	Marina	M	TAUTAN	National Institute of R&D for Optoelectronics	Romania	4	ASSOCIATION OF AIR POLLUTION AND METEOROLOGICAL VARIABLES WITH PANDEMIC COVID-19 MULTI-WAVES IN BUCHAREST	poster
Dr.	Doru		STICLET	National Institute for R&D of Isotopic and Molecular Technologies	Romania	1	NON-HERMITIAN LINEAR RESPONSE THEORY AND ITS APPLICATIONS	oral presentation
Dr.	Rares	A	SUVAILA	Horia Hulubei National Institute for Physics and Nuclear Engineering	Romania	4	ADVANCES IN ENVIRONMENTAL SAMPLE GAMMA RAY ANALYSIS	invited
Prof.	Cristian	M	TEODORESCU	National Institute of Materials Physics	Romania	1	MICROSCOPIC MODEL FOR FERROELECTRICITY AND ITS STATISTICAL TREATMENT	invited
Dr.	Laurentiu	I	TEODORESCU	IFIN-HH	Romania	3	IMPEDANCE MATCHING ISSUES IN RF POWER AMPLIFIERS FOR PARTICLE ACCELERATOR APPLICATIONS	poster
Prof.	Milan		TICHY	Charles University, Faculty of Mathematics and Physics	Czech Republic	2	DIAGNOSTICS AND APPLICATIONS OF A TVA SYSTEM (A REVIEW)	invited
Dr.	Teddy	M	TITE	National Institute of Materials Physics	Romania	1	VANADIUM OXIDES THIN FILMS BY PHYSICAL VAPOR DEPOSITION AND ELECTRODEPOSITION FOR ENERGY STORAGE APPLICATIONS	poster
Dr.	Ana	M	TOADER	Institute of Physical Chemistry Ilie Murgulescu	Romania	4	ASSESSING COMPUTATIONAL TOOLS FOR MODELING LANTHANIDE-BASED LUMINESCENT MATERIALS	poster
Mr.	Andrei	GC	TOMULESCU	National Institute of Materials Physics	Romania	1	PARTIAL SUBSTITUTION WITH IMIDAZOLIUM IN HYBRID PEROVSKITE SOLAR CELLS FOR STABILITY IMPROVEMENT	oral presentation
Dr.	Tatiana		TOZAR	National Institute for Laser, Plasma and Radiation Physics	Romania	1	PULSED LASER PHOTO-CROSSLINKING OF GELATIN METHACRYLATE HYDROGELS FOR THE LOCALIZED DELIVERY OF CHLORPROMAZINE	poster



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Ms.	Iulia	S	TRANDAFIR	IFIN-HH	Romania	3	EFFECTS OF GAS TEMPERATURE ON MONTE-CARLO SIMULATIONS OF CHARGED PARTICLES DRIFT IN GASEOUS MEDIUM	oral presentation
Dr.	Violeta		TSAKIRIS	National Institute for Research and Development in Electrical Engineering ICPE-CA	Romania	4	BIODEGRADABLE MG-ZN ALLOYS FOR ORTHOPEDIC IMPLANTS	poster
Dr.	Stoyan	A	TSVETKOV	Institute of Electronics, Bulgarian Academy of Sciences	Bulgaria	2	COHERENT MAGNETO-OPTICAL RESONANCES ON THE POTASSIUM D2 LINE FOR MAGNETOMETRY APPLICATIONS	poster
Dr.	Vitalii		TURCHENKO	Joint Institute for Nuclear Research	Russia	1	MICROSCOPIC MECHANISM OF APPEARANCE REMNANT POLARIZATION IN BARIUM HEXAFERRITES	oral presentation
Dr.	Ana-Maria	M	UDREA	INFLPR/University of Bucharest	Romania	4	PREDICTIONS OF DRUG-RECEPTOR INTERACTIONS BETWEEN PHOTSENSITIZER AND CANCER THERAPY TARGETS.	poster
Ms.	Andreea	A	UDREA	Emergency Central Military Hospital Dr. Carol Davila	Romania	3	A MULTICENTER PILOT STUDY USING A CIRS SHANE PHANTOM	oral presentation
Dr.	Calin	A	UR	ELI-NP / IFIN-HH	Romania	3	ELI-NP: EXTREME LIGHT FOR THE BENEFIT OF SOCIETY	plenary
Ms.	Catalina	N	USURELU	Polymer Department, National Institute for Research & Development in Chemistry and Petrochemistry	Romania	1	BIO-BASED EPOXY COMPOSITES CONTAINING SURFACE-MODIFIED CELLULOSE FIBERS	poster
Dr.	Monica		VASILE	Medical School, Ovidius University of Constanta	Romania	4	CARBON NANOTUBE SENSOR MATHEMATICAL MODEL USED FOR A METHAN DETECTION	poster



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Dr.	Alina		VLADESCU	National Institute of RD for Optoelectronics-INOE2000	Romania	2	BIODEGRADABLE COATINGS WITH CONTROLLABLE DEGRADABILITY	invited
Dr.	Rodica		VLADOIU	Ovidius University of Constanta	Romania	2	SYNTHESIS OF COBALT-NICKEL ALUMINATE SPINELS BY TVA METHOD AND THERMAL ANNEALING PROCESSES	invited
Dr.	Silviu	I	VULPE	National Institute for Research and Development in Microtechnologies	Romania	1	THE EFFECT OF THE GROWTH SUBSTRATE ON THE MORPHOLOGY AND SURFACE PROPERTIES OF VANADIUM OXIDE THIN FILMS DEPOSITED BY RF SPUTTERING	poster
Prof.	Maria	A	ZORAN	National Institute of R&D for Optoelectronics	Romania	4	PRE-EARTHQUAKE GEOPHYSICAL PARAMETERS VARIATIONS DETECTED FROM GROUND AND SATELLITE DATA FOR VRANCEA GEOTECTONIC ACTIVE AREA	oral presentation
Dr.	Bogdan		ZORILA	IFIN-HH	Romania	4	STUDY OF THE INTERACTION OF THE COMPOUNDS PRESENT IN THE (HYDRO)ALCOHOLIC EXTRACTS OF PROPOLIS WITH TWO TYPES OF MODEL LIPID MEMBRANES	poster

**Topics**

1. Materials Physics
2. Laser, Plasma and Radiation Physics and Applications
3. Nuclear and sub-Nuclear Physics and Applications
4. Cross-disciplinary Applications of Physics
5. Engineering and Industrial Physics
6. Physics Education Research

Workshop Chairman  
**Florin Moscalu, PH.D.**  
Chair, Department of Physics and Electronics  
Ovidius University of Constanta

Date  
18.04.2022