

## CONFERENCE PROGRAMME:

**Saturday 26<sup>th</sup> November 2016:**

<b>09.00-10.00</b>	<b>REGISTRATION-</b> Corp T Hall		
<b>10.00-10.30</b>	<b>OPENING CEREMONY</b> -Auditorium T1		
	<b>Title of the paper</b>	<b>Authors</b>	<b>Affiliation</b>
<b>I</b> <b>10.30-11.00</b>	<b>Characterization of Particulate Emissions from Various Combustion Sources: from Laboratory to Field Campaigns</b>	<u>C. Focsa</u>	<i>Laboratoire de Physique des Lasers, Atomes et Molécules, UMR 8523 CNRS - Université Lille 1, 59655 Villeneuve d'Ascq, France</i>
<b>II</b> <b>11.00-11.30</b>	<b>Structural and Chemical Dynamics in Ceramics for Industrial Applications</b>	<u>A. M. Vlaicu</u> , C. Ghica, I. Mercioniu, A. Kuncser, R. Negrea	<i>I.N.C.D. Fizica Materialelor, Magurele, Ilfov Romania</i>
<b>III</b> <b>11.30-12.00</b>	<b>Modeling Spin Crossover Compounds – from Quasistatic Hysteresis to Femtosecond Elastic Response</b>	<u>L. Stoleriu</u> , A. Stancu, C. Enachescu	<i>Faculty of Physics, “Alexandru Ioan Cuza” University of Iasi, Blvd. Carol I, 11, Iasi, Romania</i>
<b>12.00-12.30</b>	<b>COFFEE BREAK</b> –Corp T Hall		
<b>IV</b> <b>12.30-13.00</b>	<b>Ce-Fe-B Alloys as Potential Materials for Permanent Magnets</b>	<u>M. Grigoras</u> , M. Lostun, G. Stoian, L. Racila, M. Porcescu, A. Donac, H. Chiriac, N. Lupu	<i>Institute of Research &amp; Development for Technical Physics, 700050 Iasi, Romania, mgrigoras@phys-iasi.ro</i>
<b>V</b> <b>13.00-13.30</b>	<b>Swiching Properties of Molecular Spin Crossover Materials Probed by Dielectric Spectrometry</b>	<u>A. Rotaru</u> <sup>a,*</sup> , A. Diaconu <sup>a</sup> , S. L. Bas <sup>a</sup> , L. Salmon <sup>b</sup> , G. Molnár <sup>b</sup> , P. Demont <sup>c</sup> , A. Bousseksou <sup>b,*</sup>	<i><sup>a</sup>Faculty of Electrical Engineering and Computer &amp; Research Center MANSiD, Stefan cel Mare University of Suceava, Suceava, Romania; <sup>b</sup>LCC, CNRS &amp; Université de Toulouse (UPS, INP), Toulouse, France; <sup>c</sup>LPP-CIRIMAT, CNRS &amp; Université de Toulouse (UPS, INP), Toulouse, France *Email: <a href="mailto:rotaru@eed.usv.ro">rotaru@eed.usv.ro</a>;</i>
<b>VI</b> <b>13.30-14.00</b>	<b>Enhancement of Carbon Dimers Formation in Graphite Excimer Laser Ablation Plasma</b>	<u>C. Ursu</u> <sup>a</sup> , C. Tugui <sup>a</sup> , P. E. Nica <sup>b</sup>	<i><sup>a</sup> “Petru Poni” Institute of Macromolecular Chemistry, 41 A Gr. Ghica Voda Alley, 700487 Iasi, Romania <sup>b</sup> “Gheorghe Asachi” Technical University of Iasi, Blvd. Mangeron no.64, 700029 Iasi, Romania</i>

14.00-15.30	<b>LUNCH BREAK</b> -Tudor Vladimirescu Canteen, 109-111 Tudor Vladimirescu Bld.		
15.30-17.00	<b>ORAL SESSION</b> -Auditorium T1		
<b>Section 1. Theoretical, Mathematical and Computational Physics</b>			
	<b>Title of the paper</b>	<b>Authors</b>	<b>Affiliation</b>
<b>S1-O1</b> 15.30-15.45	IMPEDANCE CHARACTERIZATION OF A DEEP BRAIN STIMULATING ELECTRODE: TRANSIENT PULSE RESPONSE	B. Neagu <sup>a</sup> , E. Neagu <sup>b,c</sup>	<sup>a</sup> Toronto Western Research Institute, University Health Network and Division of Neurology, <sup>b</sup> Universidade Nova de Lisboa, Portugal <sup>c</sup> Technical University Iasi
<b>S1-O2</b> 15.45-16.00	IMPEDANCE CHARACTERIZATION OF A DEEP BRAIN STIMULATING ELECTRODE: AC ELECTROCHEMICAL IMPEDANCE SPECTROSCOPY	B. Neagu <sup>a</sup> , E. Neagu <sup>b,c</sup> , J. N. Marat-Mendes <sup>b</sup>	<sup>a</sup> Toronto Western Research Institute, University Health Network and Division of Neurology, <sup>b</sup> Universidade Nova de Lisboa, Portugal <sup>c</sup> Technical University Iasi
<b>S1-O3</b> 16.00-16.15	DILATONIC EFFECTS ON BLACK HOLES IN EINSTEIN-MAXWELL-DILATON THEORIES IN 5 DIMENSIONS	C. Stelea	Faculty of Physics, "Alexandru Ioan Cuza" University
<b>Section 2. Physics and Technology of Condensed Matter</b>			
	<b>Title of the paper</b>	<b>Authors</b>	<b>Affiliation</b>
<b>S2-O1</b> 16.15-16.30	DOPED PZT CERAMICS CHARACTERIZATION BY HIGH FREQUENCY IMPEDANCE SPECTROSCOPY	S. -B. Balmuş	Physics Department, "Gheorghe Asachi" Technical University of Iasi,
<b>S2-O2</b> 16.30-16.45	COMPARATIVE STUDY OF SOME PHYSICAL PROPERTIES OF Bi2O3 THIN FILMS DEPOSITED AS SINGLE-LAYER AND TRI-LAYER STRUCTURES USED IN SOLAR CELLS	L. Hrostea <sup>a</sup> , M. Girtan <sup>b</sup> , L. Leontie <sup>a</sup>	<sup>a</sup> Faculty of Physics, Alexandru Ioan Cuza University of Iasi, <sup>b</sup> Photonics Laboratory, Angers University, France
<b>S2-O3</b> 16.45-17.00	ELECTRICAL INVESTIGATIONS OF BaCe <sub>x</sub> Ti <sub>1-x</sub> O <sub>3</sub> CERAMIC SYSTEM	O.-A. Condurache <sup>a</sup> , L. P. Curecheriu <sup>a</sup> , G. Canu <sup>b</sup> , L. Mitoşeriu <sup>a</sup>	<sup>a</sup> Faculty of Physics, "Al. I. Cuza" University of Iasi, Romania <sup>b</sup> Institute of Condensed Matter Chemistry and Technologies for Energy - CNR, , Italy
17.00-17.30	<b>COFFEE BREAK</b> –Corp T Hall		
17.30-18.45	<b>ORAL SESSION</b> -Auditorium T1		
<b>Section 2. Physics and Technology of Condensed Matter</b>			
	<b>Title of the paper</b>	<b>Authors</b>	<b>Affiliation</b>
<b>S2-O4</b> 17.30-17.45	PARAMETERS CONTROL OF SOME SPIN VALVE GMR SENSORS WITH SYNTHETIC ANTIFERROMAGNETS	<sup>a</sup> D. Ionescu, <sup>b</sup> G. Apreotesei	<sup>a, b</sup> "Gh Asachi" Technical University of Iasi <sup>a</sup> Faculty of Electronics, Telecommunications and Information Technology, <sup>b</sup> Department of Physics,
<b>S2-O5</b> 17.45-18.00	ATOMIC SCALE CHARACTERIZATION OF INTERFACES AND EXTENDED DEFECTS IN FERROELECTRIC HETEROSTRUCTURE BASED ON BaTiO <sub>3</sub>	R. F. Negrea <sup>1</sup> , C. Ghica <sup>1</sup>	National Institute of Materials Physics, Magurele, Romania

<b>Section 2. Physics and Technology of Condensed Matter</b>			
	<b>Title of the paper</b>	<b>Authors</b>	<b>Affiliation</b>
<b>S2-06</b> <b>18.00-18.15</b>	BIOMORPHIC GROWTH AND CHARACTERIZATION OF 1-D NICKEL OXIDE MICROSTRUCTURES	<u>V. A. Lukacs</u> , M. Airimioaei, L. Mitoseriu	<i>Dielectrics, Ferroelectrics &amp; Multiferroics Group, Faculty of Physics, Al. I. Cuza Univ., Iasi, Romania,</i>
<b>S2-07</b> <b>8.15-18.30</b>	CONTRIBUTION TO THE STUDY OF GOLD COLLOIDAL SUSPENSIONS	<sup>a</sup> Pricop D., <sup>a</sup> Andries M., <sup>b</sup> Oprica L., <sup>a</sup> <u>Creanga D.</u>	<sup>a</sup> <i>Alexandru Ioan Cuza University, Physics Faculty, Iasi, Romania,</i> <sup>b</sup> <i>Alexandru Ioan Cuza University, Biology Faculty, Iasi, Romania</i>
<b>S2-08</b> <b>18.30-18.45</b>	AREAL DENSITY OPTIMIZATION AT PERPENDICULAR RECORDING USING PARTICULAR SPIN VALVE HEADS	<sup>a</sup> <u>Daniela Ionescu</u> , <sup>b</sup> Gabriela Apreotesei	<sup>a, b</sup> <i>"Gh Asachi" Technical University of Iasi</i> <sup>a</sup> <i>Faculty of Electronics, Telecommunications and Information Technology,</i> <sup>b</sup> <i>Department of Physics,</i>
<b>15.30-20.00</b>	<b>POSTER SESSION</b> –Corp T Hall		
<b>20.30-01.00</b>	<b>FESTIVE DINNER</b> –Zimbru Restaurant, 2 Chimiei Bld.		

## Sunday 27<sup>th</sup> November 2016:

<b>10.00-12.15</b>	<b>ORAL SESSION</b> -Auditorium T1		
<b>Section 3. Polymer Physics and Engineering</b>			
	<b>Title of the paper</b>	<b>Authors</b>	<b>Affiliation</b>
<b>S3-01</b> <b>10.00-10.15</b>	SILVER-POLYURETHANE BIONANOCOMPOSITES FOR BIOMEDICAL APPLICATIONS	<u>S. L. Nica</u> , D. Filip, M. Asandulesa, D. Macocinschi	<i>"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania</i>
<b>S3-02</b> <b>10.15-10.30</b>	METAL NANOPARTICLES MODIFIED POLYSULFONE MEMBRANES WITH MULTIFUNCTIONAL PROPERTIES	<u>S. L. Nica</u> , D. Filip, M. Asandulesa, D. Pamfil, M. F. Zaltariov, D. Rusu	<i>"Petru Poni" Institute of Macromolecular Chemistry, Iasi, Romania</i>
<b>Section 4. Optics, Spectroscopy and Plasma Physics</b>			
	<b>Title of the paper</b>	<b>Authors</b>	<b>Affiliation</b>
<b>S4-01</b> <b>10.30-10.45</b>	QUANTUM-MECHANICAL AND SPECTRAL STUDY OF 8-HYDROXYQUINOLINE	<u>A. C. Benchea</u> , C. A. Morosanu, D. Ghe. Dimitriu, D. O. Dorohoi	<i>"Alexandru Ioan Cuza" University of Iasi, Faculty of Physics, Iasi, Romania</i>
<b>S4-02</b> <b>10.45-11.00</b>	GENERAL OVERVIEW OF THE AEROSOL STUDIES IN IASI AREA	<u>B. Albina</u> <sup>a</sup> , M. M. Cazacu <sup>a, b</sup> , S. O. Gurlui <sup>a</sup>	<sup>a</sup> <i>"Alexandru Ioan Cuza" University of Iasi, Faculty of Physics, Atmosphere Optics, Spectroscopy and Lasers Laboratory, Iasi, Romania</i> <sup>b</sup> <i>Department of Physics, Gheorghe Asachi Technical University of Iasi, Romania</i>
<b>S4-03</b> <b>11.00-11.15</b>	CONTROL OF POLYSTYRENE COLLOIDAL MASK GEOMETRY BY REACTIVE ION ETCHING	<u>A. Demeter</u> , V. Tiron, L. Sirghi	<i>Iasi Plasma Advanced Research Center (IPARC), Faculty of Physics, Alexandru Ioan Cuza University of Iasi, Romania</i>
<b>S4-04</b> <b>11.45-12.00</b>	METHODS FOR ESTIMATING THE BIREFRINGENCE OF SOME NEMATIC LIQUID CRYSTALS	<u>D. O. Dorohoi</u> , I. Dumitrascu, L. Dumitrascu	<i>Alexandru Ioan Cuza University, Faculty of Physics, 11 Carol I Blvd., RO-700506, Iasi Romania</i>

<b>Section 4. Optics, Spectroscopy and Plasma Physics</b>			
	<b>Title of the paper</b>	<b>Authors</b>	<b>Affiliation</b>
<b>S4-O5</b> <b>12.00-12.15</b>	EXPERIMENTAL AND THEORETICAL INVESTIGATIONS OF TRANSIENT PLASMA PLUMES GENERATED BY LASER ABLATION	<u>S.A. Irimiciuc</u> <sup>a,b</sup> , B.C. Hodoroaba <sup>b</sup> , S. Gurlui <sup>b</sup> , M. Agop <sup>c</sup> , P. Nica <sup>c</sup> , C. Focsa <sup>a</sup>	<sup>a</sup> Univ. Lille, CNRS, UMR 8523 - PhLAM - Physique des Lasers, Atomes et Molécules, Lille, France <sup>b</sup> Faculty of Physics, "Alexandru Ioan Cuza" University, Iasi, Romania <sup>c</sup> Department of Physics, "Gh. Asachi" Technical University, Iasi, Romania
<b>S4-O6</b> <b>12.15-12.30</b>	THERMIONIC VACUUM ARC PLASMA DEPOSITION AND X-RAY REFLECTIVITY CHARACTERIZATION OF MULTILAYER STRUCTURES FOR X-RAY MIRRORS	<u>A.M. Vlaicu</u> *, A. Anghel, M. Badulescu, and C. Surdu-Bob	* I.N.C.D. Fizica Materialelor, Magurele, Ilfov Romania I.N.C.D. Fizica Laserilor Plasmei si Radiatiei, Magurele, Ilfov, Romania
<b>12.30-12.45</b>	<b>COFFEE BREAK</b> –Corp T Hall		
<b>12.45-14.30</b>	<b>ORAL SESSION</b> -Auditorium T1		
<b>Section 5. Technical Physics and Interdisciplinary</b>			
	<b>Title of the paper</b>	<b>Authors</b>	<b>Affiliation</b>
<b>S5-O1</b> <b>12.45-13.00</b>	THE NANOSTRUCTURATION IN LOW-TEMPERATURE (LT) GAS ATMOSPHERE OF SURFACE LAYERS AS A MEAN OF TAILORING SOME OF THE SURFACE PROPERTIES OF INOX	<u>C. Sârbu</u>	<i>free researcher, formerly with National Institute of Materials Physics, Romania</i>
<b>S5-O2</b> <b>13.00-13.15</b>	STABILITY OF TETHERED LIPID NANOTUBES	<u>A. Besleaga</u> <sup>a</sup> , F. Samoila <sup>a</sup> , A. Apetrei <sup>b</sup> , L. Sirghi <sup>a</sup>	<sup>a</sup> Iasi Plasma Advanced Research Center (IPARC), Faculty of Physics, "Alexandru Ioan Cuza" University, Iasi, Romania <sup>b</sup> Laboratory of Biophysics and Medical Physics, Faculty of Physics, "Alexandru Ioan Cuza" University, Iasi, Romania
<b>S5-O3</b> <b>13.15-13.45</b>	HYDROPHOBIZATION AND CONSOLIDATION TREATMENTS PERSPECTIVES IN RESTORING INDIGENOUS CALCAREOUS LITHIC MATERIALS	<u>V. Pelin</u> <sup>a</sup> , M. Munteanu <sup>a</sup> , V. Vasilache <sup>b</sup> , I. Sandu <sup>b</sup> , O. Rusu <sup>c</sup> , S. Gurlui <sup>c</sup> , M. M. Cazacu <sup>c,d</sup> , M. Brânzila <sup>e</sup> , I. G. Sandu <sup>f,g</sup>	<sup>a</sup> Alexandru Ioan Cuza University, Faculty of Geography-Geology, Doctoral School of Chemistry and Life Sciences and Earth, Romania <sup>b</sup> ARHEOINVEST Interdisciplinary Platform, Alexandru Ioan Cuza University, Iasi, <sup>c</sup> Alexandru Ioan Cuza University, Faculty of Physics, Atmosphere Optics, Spectroscopy and Lasers Laboratory, Iasi, Romania <sup>d</sup> Gheorghe Asachi Technical University, Department of Physics, Iasi, Romania <sup>e</sup> Alexandru Ioan Cuza University, Faculty of Geography-Geology, Romania <sup>f</sup> Gheorghe Asachi Technical University, Faculty of Materials Science and Engineering, <sup>g</sup> Romanian Inventors Forum, Iasi, Romania
<b>S5-O4</b> <b>13.45-14.00</b>	ASSESSMENT OF SINGLE TOOTH DENTURES TRANSLUCENCY	<u>Gligor M. R.</u>	Lucian Blaga University, Faculty of Dental Medicine, Dental Technician and Nursing Department, Sibiu
<b>S5-O5</b> <b>14.00-14.15</b>	PROBING SURFACE CONTAMINATION BY ATOMIC FORCE SPECTROSCOPY MEASUREMENTS	<u>F. Samoila</u> , L. Sirghi	Iasi Plasma Advanced Research Center (IPARC), Faculty of Physics, Alexandru Ioan Cuza University of Iasi, Romania
<b>S5-O6</b> <b>14.15-14.30</b>	PHISICO-MATHEMATICS MODELS IN ECONOMY	<u>Alexe N. A.</u> <sup>a</sup> , Alexe A. D. <sup>b</sup>	<sup>a</sup> Colegiul National "Unirea" Turnu Măgurele, Romania <sup>b</sup> Liceul Teoretic "Marin Preda" Turnu Măgurele, Romania
<b>10.00-15.30</b>	<b>POSTER SESSION</b> –Corp T Hall		