

THURSDAY November 24th, 2011

13:00 – 14:15	Participants Registration FACULTY of PHYSICS HALL
14:15 – 14:30	The Opening Ceremony of the TIM – 11 Conference, room: “Constantin Salceanu” Amphitheater, Faculty of Physics
14:30 – 15:30	PLENARY LECTURES Room: “Constantin Salceanu” Amphitheatre, Faculty of Physics <i>Chairman: M. KIBLER</i>
14.30 – 15.00	Plenary Lecture PL-01 RESEARCH AND PhD PROJECTS OF RESEARCH CENTRE OF PHYSICAL- CHEMICAL AND MORPHO-FUNCTIONAL ANALYSIS AND CHEMOMETRICS LUMINITA MORARU <i>University Dunarea de Jos of Galati, Chemistry, Physics and Environment Department</i>
15:00 – 15:30	Plenary Lecture PL-02 HALOGEN MOLECULES AS RADIATIVE CENTERS IN TRANSITION METAL DICHALCOGENIDES LAYERED CRYSTALS L. KULYUK <i>Institute of Applied Physics, Academy of Sciences of Moldova, Academiei Str. 5, Chisinau, MD-2028, Republic of Moldova</i>
15:30 – 16:00	COFFEE BREAK PHYSICS FACULTY HALL
16:00 – 17:30	ORAL SESSION - SECTION TCP - Room: “Constantin Salceanu” Amphitheatre, Faculty of Physics <i>Chairman: O. SALIU</i>
16:00 – 16:15	TCP – 001 INSTABILITIES OF THE REISSNER-NORDSTROM SOLUTION AND STABLE BLACK HOLES WITH NON-ABELIAN HAIR EUGEN RADU <i>Institute of Physics, Oldenburg Univeristy, 2503 D-26111 Oldenburg, Germany</i>

16:15 – 16:30	<p style="text-align: center;">TCP – 002</p> <p style="text-align: center;">p-ADIC STRINGS AND NONLOCAL COSMOLOGY</p> <p style="text-align: center;">BRANKO DRAGOVICH</p> <p style="text-align: center;"><i>Institute of Physics, Pregrevica 118, 11080 Zemun, Belgrade, Serbia</i></p>
16:30 – 16:45	<p style="text-align: center;">TCP – 003</p> <p style="text-align: center;">ABOUT NON STANDARD LAGRANGIANS IN COSMOLOGY</p> <p style="text-align: center;">DRAGOLJUB D. DIMITRIJEVIC AND MILAN MILOSEVIC</p> <p style="text-align: center;"><i>Department of Physics, Faculty of Science and Mathematics, University of Nis Visegradaska 33, P.O.Box 224, 18000 Nis, Serbia</i></p>
16:45 – 17:00	<p style="text-align: center;">TCP – 004</p> <p style="text-align: center;">ON NONCOMMUTATIVE CORRECTIONS IN GAUGE THEORY OF GRAVITATION</p> <p style="text-align: center;">SIMONA BABEŢI (PRETORIAN)¹, G. ZET²</p> <p style="text-align: center;"><i>¹“Politehnica” University, Timișoara, 300223, Romania ² Department of Physics, “Gh. Asachi” Technical University, Iasi 700050, Romania</i></p>
17:00 – 17:15	<p style="text-align: center;">TCP – 005</p> <p style="text-align: center;">NON-MINIMALLY COUPLED SCALAR FIELDS IN COMSMOLOGY – NEW RESULTS</p> <p style="text-align: center;">DUMITRU N. VULCANOV¹, GORAN S. DJORDJEVIC²</p> <p style="text-align: center;"><i>¹ Department of Physics, Faculty of Physics, West University of Timisoara, , B-dul V.Parvan no.4, 300223, Timisoara, Romania ² Department of Physics, Faculty of Science and Mathematics, University of Nis, Visegradaska 33, 18001 Nis, Serbia</i></p>
17:15 – 17:30	<p style="text-align: center;">TCP – 006</p> <p style="text-align: center;">SELF-DUAL 3-FORMS: GAUGE UNFIXING APPROACH</p> <p style="text-align: center;">S. C. SARARU</p> <p style="text-align: center;"><i>Dept. of Physics, University of Craiova, 13 Al. I. Cuza St., Craiova 200585, Romania</i></p>
18:00 – 19:30	<p style="text-align: center;"><i>PUBLIC CONFERENCE</i></p> <p style="text-align: center;">Transdisciplinary dialogues between arts and science.</p> <p style="text-align: center;">room: AULA MAGNA, WEST UNIVERSITY OF TIMISOARA</p>
20:00 – 21:00	<p style="text-align: center;">WELCOME COCKTAIL</p> <p style="text-align: center;">- FACULTY of PHYSICS HALL -</p>

FRIDAY November 25th, 2011

<p>9:00 – 10:30</p>	<p align="center">PLENARY LECTURES Room: AULA MAGNA Chairman: MARCOS COUTO DOS SANTOS</p>
<p>9:00 – 9:30</p>	<p align="center">Plenary Lecture PL-04 COHERENT STATES FOR A GENERALIZED WEYL-HEISENBERG ALGEBRA MAURICE R. KIBLER <i>Université de Lyon, Lyon, Université Claude Bernard, Villeurbanne CNRS/IN2P3, Institut de Physique Nucléaire, Villeurbanne</i></p>
<p>9:30 – 10:00</p>	<p align="center">Plenary Lecture PL-05 ON BOTH SPATIAL AND VELOCITY DISTRIBUTION OF SPUTTERED PARTICLES IN MAGNETRON DISCHARGE G. POPA, C. VITELARU, V. TIRON AND C. COSTIN <i>Department of Physics, "Alexandru Ioan Cuza" University, 700506, Iasi, Romania</i></p>
<p>10:00 – 10:30</p>	<p align="center">Plenary Lecture PL-06 MRI AND FOCUSED ULTRASOUND: UNDERLYING PHYSICS, CURRENT STATUS AND THERAPEUTIC APPLICATIONS RARES SALOMIR <i>University Hospitals of Geneva, Switzerland, Department of Radiology</i></p>
<p>10:30 – 11:00</p>	<p align="center">COFFEE BREAK - AULA MAGNA HALL-</p>
<p>11:00 – 12:30</p>	<p align="center">PLENARY LECTURES Room: AULA MAGNA Chairman: E. BURZO</p>
<p>11:00 – 11:30</p>	<p align="center">Plenary Lecture PL-07 CRYSTAL FIELD MODELS AND APPLICATIONS OF LANTHANIDE DOPED COMPLEXES, CRYSTALS AND GLASS. MARCOS A. COUTO DOS SANTOS <i>Physics Department, Federal University of Sergipe 49100-000, São Cristóvão/SE/Brazil</i></p>

11:30 – 12:00	<p style="text-align: center;">Plenary Lecture PL-08</p> <p style="text-align: center;">LASER INDUCED CHEMICAL LIQUID PHASE DEPOSITION (LCLD)</p> <p style="text-align: center;">L. NÁNAI</p> <p style="text-align: center;"><i>University of Szeged, JGYPK, Department of General and Environmental Physics, H-6725 Szeged, Boldogasszony sgt. 6, Hungary</i></p>
12:00 – 12:30	<p style="text-align: center;">Plenary Lecture PL-09</p> <p style="text-align: center;">CARBON BASED NANOSTRUCTURES WITH APPLICATION IN DIVERTORS COATINGS FROM FUSION REACTOR: SYNTHESIS AND CHARACTERISATION</p> <p style="text-align: center;">V. CIUPINA¹, I. MORJAN², C. P. LUNGU², R. VLADOIU¹, G. PRODAN¹, M. PRODAN¹, V. ZAROVSKI², C. POROSNICU², I. M. STANESCU¹, M. CONTULOV¹, A. MANDES¹, V. DINCA¹, K. SUGIYAMA³</p> <p style="text-align: center;"><i>¹Department of Plasma Physics, Faculty of Physics, Chemistry, Electronics and Oil Technology, Ovidius University, Mamaia 124, Constanta, 900527, Romania</i></p> <p style="text-align: center;"><i>²National Institute for Laser, Plasma and Radiation Physics, PO Box MG-36, 077125, Bucharest Romania</i></p> <p style="text-align: center;"><i>³Max-Planck-Institut für Plasmaphysik, Postfach 1533, D-8540 Garching, Germany</i></p>
12:30 – 14:00	<p style="text-align: center;">LUNCH</p> <p style="text-align: center;">- FACULTY of PHYSICS HALL -</p>

14:00– 18:00	INVITED and ORAL SESSIONS			
	Section: TCP Room: C. Salceanu	Section: TCP Room: F203	Section: API Room: F205	Section: CMP Room: AULA MAGNA
	Chairman: C. BIZDADEA	Chairman: A. ISAR	Chairman: Gh. POPA	Chairman: I. GROZESCU
14:00 – 14:30	<p>TCP - I01</p> <p>INTERFERENCE EFFECTS IN THE IONIZATION OF HOMONUCLEAR AND HETERONUCLEAR MOLECULES</p> <p>K. NAGY-PÓRA, L. CZIPA, L. NAGY</p> <p><i>Faculty of Physics, Babeş-Bolyai University, str. Kogălniceanu nr. 1, 400084 Cluj, Romania</i></p>	<p>TCP - I03</p> <p>HIDDEN SYMMETRIES IN A GAUGE COVARIANT APPROACH, HAMILTONIAN REDUCTION AND OXIDATION</p> <p>MIHAI VISINESCU</p> <p><i>Department of Theoretical Physics National Institute for Physics and Nuclear Engineering Magurele, Bucharest, Romania</i></p>	<p>API – I01</p> <p>A MONTE CARLO SIMULATION OF LIGHT SCATTERING ON BIOLOGICAL SUSPENSIONS WITH BIGGER OPTICAL DEPTH</p> <p>DAN CHICEA</p> <p><i>Faculty of Sciences, University Lucian Blaga, Dr. Ion Ratiu Str. nr. 7-9, Sibiu, 550012, Romania</i></p>	<p>CMP - I01</p> <p>QUANTUM NOISE OF A CARBON NANOTUBE QUANTUM DOT IN THE KONDO REGIME</p> <p>C.P. MOCA</p> <p><i>Department of Physics, University of Oradea, Oradea, 410087, Romania</i></p>
14:30 – 15:00	<p>TCP - I02</p> <p>CHANNEL MIXING EFFECTS IN DISSOCIATIVE RECOMBINATION: A SIMPLE MODEL FOR QUICK PREDICTIONS IN POLYATOMIC SYSTEMS</p> <p>NICOLINA POP¹, FRANÇOIS LIQUE², CHRISTIAN JUNGEN³, IOAN F. SCHNEIDER²</p> <p><i>¹Dept of Physical Foundations of Engineering, University "Politehnica" of Timișoara, ²Laboratoire Ondes&Milieux Complexes CNRS-FRE-3102, Université du Havre, France ³Laboratoire Aimé-Cotton CNRS-UPR-3321, Université Paris-Sud, F-91405 Orsay, France</i></p>	<p>TCP - I04</p> <p>PHYSICAL DEGREES OF FREEDOM IN THEORIES WITH MASSLESS TENSOR GAUGE FIELDS OF DEGREE TWO</p> <p>EUGEN-MIHAIȚA CIOROIANU¹</p> <p><i>¹ Department of Physics, Faculty of Exact Sciences, University of Craiova, 13 A. I. Cuza Str., Craiova 200585, Romania</i></p>	<p>API - I02</p> <p>MAGNETOHYDRODYNAMICS OF SOLAR PLASMAS: APPLICATIONS IN CORONAL SEISMOLOGY</p> <p>ALEXANDRU MARCU, ANABELE PARDI</p> <p><i>Dept. of Biomedical Physics, Theoretical Physics and Molecular Spectroscopy, Babeş-Bolyai University, Str. M. Kogalniceanu, No. 1, Cluj-Napoca</i></p>	<p>CMP - I02</p> <p>A NEW PROMISING NONLINEAR OPTICAL (NLO) CRYSTAL FOR VISIBLE AND ULTRAVIOLET (UV) REGIONS</p> <p>LUCIAN GHEORGHE, AL. ACHIM, F. VOICU</p> <p><i>National Institute R&D for Laser, Plasma and Radiation Physics, Solid-State Quantum Electronics Laboratory, P.O. Box MG 36, 077125 Magurele, Bucharest, Romania</i></p>

<p>15:00 – 15:15</p>	<p>TCP - O15</p> <p>THE INFLUENCE OF RASHBA AND DRESSELHAUS SPIN-ORBIT INTERACTIONS ON THE ELECTRONIC PROPERTIES OF QUASI ONE DIMENSIONAL SYSTEMS</p> <p>C. MICU¹, E. PAPP²</p> <p>¹ North University of Baia Mare, Faculty of Science, Str. V. Babes, Nr. 62A, RO-430122 Baia Mare</p> <p>² West University of Timisoara, Faculty of Physics, Bd. V. Parvan, Nr. 4, RO-300223 Timisoara</p>	<p>TCP - O07</p> <p>TOPOLOGICAL BF MODELS WITH MAXIMAL FIELD SPECTRA: CONSISTENT SELF-INTERACTIONS</p> <p>C. BIZDADEA, E. M. CIOROIANU, S. O. SALIU, S. C. SĂRARU, L. STANCIU-OPREAN</p> <p>Department of Physics, University of Craiova, 13 Al. I. Cuza Street, Craiova 200585, Romania</p>	<p>API - O01</p> <p>WATER TREATMENT BY MEMBRANE TECHNOLOGY</p> <p>A. M. BĂLINT¹ S. BALINT², B. VISKOLCZ³</p> <p>¹Faculty of Physics, West University of Timisoara, Bulv. V. Parvan 4, RO-300223 Timisoara</p> <p>²Faculty of Mathematics and Computer Science, West University of Timisoara, Bulv. V. Parvan 4, RO-300223 Timisoara</p> <p>³Dep. Chemical Informatics, Fac. of Education, University of Szeged, Boldogasszony sgt. 6, H-6725 Szeged</p>	<p>CMP - O01</p> <p>MAGNETOSTRICTIVE AND MAGNETOELECTRIC MATERIALS FOR SENSORS</p> <p>GEORGIANA DASCALU, NICUSOR POP, LUMINITA HRIB, OVIDIU FLORIN CALTUN</p> <p>Faculty of Physics and Carpath Center of Excellence, Alexandru Ioan Cuza University Bd. Carol I. nr. 11, 700506 Iasi, Romania</p>
<p>15:15 – 15:30</p>	<p>TCP - O16</p> <p>SPONTANEOUS PARAMETRIC DOWN CONVERSION TWIN PHOTON BEAMS PRODUCING AND MEASURING SETUP</p> <p>AL. RUSU, L. RUSU</p> <p>National Institute for Nuclear Physics and Engineering "Horia Hulubei", Str. Reactorului no.30, P.O.BOX MG-6, Bucharest - Magurele, ROMANIA</p>	<p>TCP - O08</p> <p>STATISTICAL APPROACH OF MODULATION INSTABILITY FOR A DERIVATIVE NLS EQUATION</p> <p>ANCA VISINESCU, A.T. GRECU, D. GRECU</p> <p>Department of Theoretical Physics National Institute for Physics and Nuclear Engineering Magurele, Bucharest, Romania</p>	<p>API - O02</p> <p>ADVANCED MATERIALS BASED ON PHTHALONITRILE-CONTAINING POLYMERS</p> <p>IONELA-DANIELA CARJA, C. HAMCIUC, ELENA HAMCIUC, TACHITA VLAD-BUBULAC, MARIA-CRISTINA POPESCU</p> <p>"P. Poni" Institute of Macromolecular Chemistry, Aleea Gr. Ghica Voda 41A, Iasi-700487, Romania</p>	<p>CMP - O02</p> <p>FILM GROWTH ON SURFACES PATTERNED BY ION IRRADIATION</p> <p>S. FACSKO¹, M. RANJAN², A. KELLER¹, AND T.W.H. OATES³</p> <p>¹Institute of Ion Beam Physics and Materials Research, Helmholtz-Zentrum Dresden-Rossendorf, 01328 Dresden, Germany</p> <p>²FCIPT, Institute for Plasma Research, Gandhinagar, Gujarat, India</p> <p>³Leibniz-Institut für Analytische Wissenschaften - ISAS-Berlin, 12489 Berlin, Germany</p>
<p>15:30 – 16:00</p>	<p>COFFEE BREAK - FACULTY HALL-</p>			

	Chairman: <i>S. O. SALIU</i>	Chairman: <i>M. VISINESCU</i>	Chairman: <i>Al. MARCU</i>	Chairman: <i>O. RAITA</i>
16:00 – 16:15	<p>TCP - O17</p> <p>FARADAY WAVES IN BOSE-EINSTEIN CONDENSATE</p> <p>ALEXANDRU I. NICOLIN</p> <p><i>Horia Hulubei National Institute for Physics and Nuclear Engineering, Department of Theoretical Physics, Reactorului 30, Magurele, Romania</i></p>	<p>TCP - O09</p> <p>NONCLASSICAL SYMMETRIES AND SIMILARITY SOLUTIONS FOR 2D NONLINEAR HEAT EQUATION</p> <p>RODICA CIMPOIASU¹, R. CONSTANTINESCU¹</p> <p>¹ <i>University of Craiova, 13 A.I.Cuza 200585 Craiova, Romania</i></p>	<p>API - O03</p> <p>ROMANIAN GOLD TREASURE IN THE LIGHT OF NUCLEAR ANALYSES</p> <p>VIOREL P. COJOCARU</p> <p><i>National Institute of Physics and Nuclear Engineering (NIPNE), P.O. Box MG-6, 76900 Măgurele, Bucharest, Romania</i></p>	<p>CMP - O03</p> <p>THE MAGNETISM OF NITRIDE SEMICONDUCTORS DOPED WITH TRANSITION METALS</p> <p>B. FAINA¹, W. STEFANOWICZ², A. NAVARRO-QUEZADA¹, T. DEVILLERS¹, TIAN LI¹, M. ROVEZZI¹, A. GROIS¹, J. SUFFCZYŃSKI³, D. SZTENKIEL², M. SAWICKI², R. JAKIELA², T. DIETL^{2,3}, AND A. BONANNI¹</p> <p>¹ <i>Institut für Halbleiter- und Festkörperphysik, Johannes Kepler University, Altenbergerstr. 69, A-4040 Linz, Austria</i> ² <i>Institute of Physics, Polish Academy of Sciences, al. Lotników 32/46, PL-02-668 Warszawa, Poland</i> ³ <i>Faculty of Physics, University of Warsaw, 00-681 Warszawa, Poland</i></p>
16:15 – 16:30	<p>TCP – O18</p> <p>THE ANYON'S KNOTTED PATH INTEGRALS AND THE M. KONTSEVICH INTEGRAL</p> <p>VIOREL LAURENȚIU CARTAȘ</p> <p><i>"Dunarea de jos" University of Galati, FIB, Calarasi, 29, Braila</i></p>	<p>TCP – O10</p> <p>A NEW METHOD OF SOLVING TRANSCENDENTAL EQUATIONS WITH APPLICATIONS TO QUANTUM MECHANICS</p> <p>VICTOR BARSAN</p> <p><i>IFIN – HH, Magurele-Bucharest</i></p>	<p>API – O04</p> <p>EXPERIMENTAL STUDY OF THE INTERACTION BETWEEN PATHOGEN BACTERIA AND COLLOIDAL MAGNETIC NANOPARTICES</p> <p>C. NADEJDE, C. ASTEFANOAEI, A. POIATA, D. CREANGA</p> <p><i>University Al. I. Cuza Iasi, Faculty of Physics</i> *<i>University of Medicine and Pharmacy, Iasi, Faculty of Pharmacy</i></p>	<p>CMP - O04</p> <p>FAST SYNTHESIS OF CuCrO₂ DELAFOSSITE BY MONOMODE MICROWAVE HEATING</p> <p>SANJAY KUMAR^{1,2}, S. MARINEL¹, M. MICLAU² AND C. MARTIN¹</p> <p>¹ <i>Laboratoire CRISMAT, CNRS UMR 6508, ENSICAEN, 6 Boulevard du Marechal Juin, 14050 Caen Cedex, France</i> ² <i>Analysis and Characterization Department, INCEMC, Timisoara, 30024 Romania</i></p>

<p>16:30 – 16:45</p>	<p>TCP – O19</p> <p>IONIZATION OF ATOMS BY INTENSE FEW-CYCLE LASER PULSES</p> <p>A. TÓTH, S. BORBÉLY AND L. NAGY</p> <p><i>Faculty of Physics, Babeş-Bolyai University, str. Kogălniceanu nr. 1, 400084 Cluj, Romania</i></p>	<p>TCP – O11</p> <p>DISCRETE O(1,4) TRANSFORMATIONS AND NEW SCALAR QUANTUM MODELS ON THE DE SITTER SPACETIME</p> <p>ION COTAESCU</p> <p><i>Department of Physics, West University of Timisoara, Bd. V. Parvan 4, Timisoara 300223, Romania</i></p>	<p>API – O05</p> <p>LIDAR MEASUREMENTS COMPARISON OF TWO VOLCANIC ERUPTIONS: ENVIRONMENTAL INFLUENCES UPON THE ROMANIAN TERRITORY</p> <p>M. N. DANILA¹, F. UNGA¹, M. M. CAZACU¹, A. TIMOFTE^{1,2}, M. STRAT¹, D. GH. DIMITRIU¹, S. GURLUI¹</p> <p>¹ “Al. I. Cuza” University of Iasi, Faculty of Physics, 700506 Iasi, Romania ² National Meteorological Administration, Regional Forecast Center Bacau, 600274 Bacau, Romania</p>	<p>CMP - O05</p> <p>EXPLORATION OF PHASE TRANSFORMATIONS OF VANADIUM DIOXIDE NANOPOLYMORPHS USING SIMPLE HYDROTHERMAL SYNTHESIS</p> <p>SRINIVASA RAO POPURI^{1,2,*}, MARINELA MICLAU¹, ANTOINE VILLESUZANNE², MICHAËL POLLET²</p> <p>¹Institutul National de Cercetare dezvoltare pentru Electrochimie si Materie Condensata, Timisoara, Romania ²Institut de Chimie de la matiere condensée de Bordeaux, (CNRS-UPR 9048), Pessac cedex, France</p>
<p>16:45 – 17:00</p>	<p>TCP – O21</p> <p>COLLECTIVE FLOW PROPERTIES OF INTERMEDIATE MASS FRAGMENTS AND ISOSPIN EFFECTS IN FRAGMENTATION AT FERMI ENERGIES</p> <p>ROXANA ZUS¹, V. BARAN¹, M. COLONNA², M. DI TORO³</p> <p>¹University of Bucharest, Theoretical Physics, Mathematics, Optics, Plasma, Lasers Dept, 077125 Bucharest-Magurele, Romania ²Laboratori Nazionali del Sud INFN, Catania, Italy ³Physics and Astronomy Department, University of Catania, Italy</p>	<p>TCP – O12</p> <p>ON THE LAGRANGIAN FORMALISM IN PHASE-SPACE</p> <p>C. BIZDADEA, M. M. BÂRCAN, M. T. MIAUTA, S. O. SALIU</p> <p><i>Department of Physics, University of Craiova, 13 Al. I. Cuza Street, Craiova 200585, Romania</i></p>	<p>API – O06</p> <p>INVESTIGATION OF LASER IGNITION FOR METHANE-AIR MIXTURE AND DEVELOPMENT OF A MICROLASER SYSTEM</p> <p>SALAMU GABRIELA¹, SANDU O.¹, DEJANU M.², VOICU F.¹, TICOS C.³, POPA D.², PARLAC S.², PAVEL N.¹, DASCALU T.¹</p> <p>¹Laboratory of Solid-State Quantum Electronics, National Institute for Lasers, Plasma and Radiation Physics, Magurele, 077125, Bucharest, Romania ²Faculty of Mechanics and Technology, University of Pitesti, Romania ³Low Temperature Plasma Laboratory, National Institute for Lasers, Plasma and Radiation Physics, Magurele, Romania</p>	<p>CMP - O06</p> <p>CONCAVE DEPENDENCE ON PARTICLE CONCENTRATION OF THE MAGNETICALLY INDUCED DICHOISM IN FERROFLUIDS</p> <p>VLAD SOCOLIUC^{1,2}, LORIN BOGDAN POPESCU³</p> <p>¹„Petru Poni” Institute of Macromolecular Chemistry, Iasi, Romania, RO-700487 Iasi, Romani, ² Lab. Magnetic Fluids, Center for Fundamental and Advanced Technical Research, Romanian Academy-Timisoara Branch, Timisoara RO-300223, Romania ³Institute for Space Sciences, Atomistilor 409, Magurele RO-077125, Romania</p>

<p>17:00 – 17:15</p>	<p>TCP – O22</p> <p>NUMERICAL MODELING OF LIVING CELLULAR AGGREGATES</p> <p>BOGDAN BARVINSCHI¹, ADRIAN NEAGU²</p> <p>¹ Faculty of Physics, West University of Timisoara, Bvd. V.Parvan, Nr.4, 300223 Timisoara, Romania</p> <p>² Victor Babes University of Medicine and Pharmacy Timisoara, P-ta Eftimie Murgu Nr. 2, 300041 Timisoara, Romania</p>	<p>TCP – O13</p> <p>DISCRETE FIELD THEORY</p> <p>C. S. ACATRINEI</p> <p>National Institute for Nuclear Physics and Engineering P.O. Box MG-6 Bucharest – Magurele 077125-RO</p>	<p>API – O07</p> <p>AMPLITUDE AND PHASE FOURIER CORRELATION OF “TWIN” GC-SPECTRA OF FATTY ACIDS FROM SHEEP DAIRY</p> <p>ALIN C. TEUSDEA¹, GIANINA GABOR², ELENA HILMA¹</p> <p>¹ University of Oradea, Faculty of Environmental Protection, Gen. Magheru 26, Oradea 410058, BH, Romania</p> <p>² University of Oradea, Faculty of Electrical engineering and Information Technology, Gen. Magheru 26, Oradea 410058, BH, Romania</p>	
<p>17:15 – 17:30</p>	<p>TCP – O23</p> <p>DRUG RELEASE KINETICS THROUGH THE FRACTAL APPROXIMATION OF MOTION – A WEIBULL DEDUCTION</p> <p>S. BĂCĂIȚĂ^{1,2} M. AGOP^{2,3}</p> <p>¹ Dept. of Natural and Synthetic Polymers, Faculty of Chem. Eng. and Environmental Protection, “Gheorghe Asachi” Technical University, Iasi, Romania</p> <p>² Physics Department, Faculty of Machine Manufact. and Ind. Management, “Gheorghe Asachi” Technical University, 700050, Iasi, Romania</p> <p>³ Lasers, Atoms and Molecules Physics Laboratory, University of Science and Technology, Villeneuve d’Ascq, Lille, France</p>	<p>TCP – O14</p> <p>QUANTUM CORRELATIONS IN GAUSSIAN OPEN SYSTEMS</p> <p>AURELIAN ISAR</p> <p>“Horia Hulubei” National Institute of Physics and Nuclear Engineering Bucharest-Magurele, Romania</p>	<p>API – P08</p> <p>THE INFLUENCE OF THE GRAIN SIZE AND SPECIFIC SURFACE ON THE DIELECTRIC PERMITTIVITY OF SANDS IN LOW FREQUENCY FIELD</p> <p>R. TOTOREANU^{1,2}, I. MALAESCU¹, C. N. MARIN¹, P. SFIRLOAGA³</p> <p>¹ West University of Timisoara, Faculty of Physics, Bd. V. Parvan, no. 4, 300223 Timisoara, Romania</p> <p>² SC Geosond SRL, Timisoara, Romania</p> <p>³ NIRDECM, 300224 Timisoara, Romania</p>	

17:30 – 17:45			<p>API – O09</p> <p>CIRCULAR DICHROISM IN THE STUDY OF THE STRUCTURE OF BIOMOLECULES</p> <p>LILIANA LIGHEZAN¹, ADRIAN NEAGU²</p> <p><i>¹ West University of Timisoara, Faculty of Physics, Bd. Vasile Parvan Nr.4, 300223 Timisoara, Romania</i></p> <p><i>² “Victor Babes” University of Medicine and Pharmacy, Department of Functional Sciences, Piata E. Murgu No. 2-4, 300041 Timisoara, Romania</i></p>	
17:30 – 18:00	<p>COFFEE BREAK - AULA MAGNA HALL-</p>			
17:30 – 19:00	<p>POSTER SESSION I Section Condensed Matter Physics (CMP-P01 – CMP-P42) - AULA MAGNA HALL-</p>			
20:00- 23:00	<p>CONFERENCE DINNER (“Politehnica” Restaurant, Str. Paunescu Podeanu, No. 2) Route map (from West University to Restaurant): http://g.co/maps/fku5a</p>			

SATURDAY November 26th, 2011

9:30 – 10:30	<p align="center">PLENARY LECTURES</p> <p align="center">Room: AULA MAGNA <i>Chairman: P.C.FANNIN</i></p>
9:30 – 10:00	<p align="center">Plenary Lecture PL-10</p> <p align="center">LINEAR AND NON-LINEAR PLASMON ENHANCED OPTICAL EFFECTS IN NANO-STRUCTURED METAMATERIALS</p> <p align="center">C. G. BIRIS^{1,2} AND N. C. PANOIU¹</p> <p align="center">¹ <i>Photonics Group, Department of Electronic and Electrical Engineering, University College London, Torrington Place, WC1E 7JE, London, UK</i> ² <i>Faculty of Physics, West University of Timisoara, B-dul Vasile Parvan, Timisoara 300223, Timis, Romania</i></p>
10:00 – 10:30	<p align="center">Plenary Lecture PL-11</p> <p align="center">PHYSICS TEACHER EDUCATION ACROSS EUROPE</p> <p align="center">OVIDIU FLORIN CALTUN</p> <p align="center"><i>Faculty of Physics and Carpath Center of Excellence, Alexandru Ioan Cuza University, Bd. Carol I. nr. 11, 700506 Iasi, Romania</i></p>
10:30 – 11:00	<p align="center">COFFEE BREAK - AULA MAGNA HALL-</p>
10:30 – 12:00	<p align="center">POSTER SESSION II</p> <p>Section Theoretical and Computational Physics (TCP-P01 – TCP-P16) Section Applied Physics and Interdisciplinarity (API-P01 – API –P32) Section Educational Physics (EP-P01 – EP-P09)</p>
11:00 – 12:15	<p align="center">ORAL SESSION</p> <p align="center">Section: Educational Physics Room: “Constantin Salceanu” Amphitheater <i>Chairman: O. Caltun</i></p>
11:00 – 11:15	<p align="center">EP – 001</p> <p align="center">DOCORAL STUDIES IN PHYSICS AT ALEXANDRU IOAN CUZA UNIVERSITY OF IASI – TRADITION AND MODERNITY</p> <p align="center">OVIDIU FLORIN CALTUN</p> <p align="center"><i>Faculty of Physics and Carpath Center of Excellence, Alexandru Ioan Cuza University, Bd. Carol I nr. 11, 700506 Iasi, Romania</i></p>

11:15 – 11:30	<p style="text-align: center;">EP – O02</p> <p style="text-align: center;">METHODOLOGICAL GUIDE FOR TEACHING PHYSICS ELEVENTH GRADE</p> <p style="text-align: center;">BRATU RODICA¹, CUCU DORINA², MIHANŢEA KATALIN³, VLAD PATRICIA⁴, SEVICIU MONICA⁵</p> <p style="text-align: center;"><i>¹National College „C.D.Loga”, Timișoara, ²High School „Grigore Moisil”, Timișoara, ³Theoretically High School „J.L.Calderon”, Timișoara, ⁴National College „I. Vidu”, Timișoara, ⁵Timiș County School Inspectorate</i></p>
11:30 – 11:45	<p style="text-align: center;">EP – O03</p> <p style="text-align: center;">METHODOLOGICAL GUIDE FOR TEACHING PHYSICS TWELFTH GRADE</p> <p style="text-align: center;">RADOSLAVESCU SIMONA¹, RÎȘNIȚĂ ELISABETA², ȘIMON ANA-MARIA³, NOROZESCU GHEORGHE³</p> <p style="text-align: center;"><i>¹Technical College Reșița, ²Secondary School No 2 Reșița, ³Theoretical High School C.D. Loga Caransebeș</i></p>
11:45 – 12:00	<p style="text-align: center;">EP – O04</p> <p style="text-align: center;">METHODOLOGICAL GUIDE FOR TEACHING PHYSICS VIIITH GRADE</p> <p style="text-align: center;">IOAN STAN¹, SIMONA CRÂȘNIC², ANETA MIHALCSIK³, SIMONA ARSENOV⁴, BRANCO ARSENOV⁴, CARMEN RUS⁵</p> <p style="text-align: center;"><i>¹Arad County School Inspectorate, ²Technical College of Constructions and Environmental Protection, Arad, ³Baptist Theological High School „Alexa Popovici”, Arad, ⁴National College „Moise Nicoară”, Arad, ⁵Comprehensive School „Vladimirescu”, Arad</i></p>
12:00 – 12:15	<p style="text-align: center;">EP – O05</p> <p style="text-align: center;">INTERACTIVE TEACHING METHODS FOR PHYSICS OR “A DIFFERENT APPROACH IN TEACHING PHYSICS” VIITH GRADE</p> <p style="text-align: center;">MARIA ȘTEFĂNIE¹, SORIN DEMETER², DANIEL LAZĂR³, LARISA MĂGHERUȘAN⁴, MIRCEA NISTOR⁵, ANGELA ȘERBAN¹, ANA STĂNCULESCU⁶, SORIN STĂNCULESCU⁶</p> <p style="text-align: center;"><i>¹Colegiul Național „Aurel Vlaicu”, Orăștie ²Colegiul Tehnic „Transilvania”, Deva ³Colegiul Național „Iancu de Hunedoara”, Hunedoara ⁴Colegiul „Ion Mincu”, Deva ⁵Colegiul Național de Informatică "Traian Lalescu", Hunedoara ⁶Colegiul Național „Decebal”, Deva</i></p>
12:30 – 12:45	<p style="text-align: center;">The Closing Ceremony of the TIM – 11 Conference,</p> <p style="text-align: center;">Room: “Constantin Salceanu” Amphitheater</p>

PL – Plenary Lecture

I – Invited Lecture

O – Oral presentation

P – Poster presentation

CMP – Condensed Matter Physics

TCP – Theoretical and Computational Physics

API – Applied Physics and Interdisciplinarity

EP - Educational Physics

POSTER PRESENTATIONS

Section Condensed Matter Physics (CMP)

CMP-P01	<p>FINE INTERACTIONS EFFECT OF OPTICAL SPECTRA AND THE SPIN HAMILTONIAN PARAMETERS FOR Mn⁵⁺ IONS IN Li₃PO₄ and Li₃VO₄ CRYSTALS Emiliana-Laura Andreici¹ and N.M. Avram^{1,2} ¹ Department of Physics, West University of Timisoara, 300223, Romania ² Academy of Romanian Scientists, Independentei 54, Bucharest 050094, Romania</p>
CMP-P02	<p>ELECTRICAL CHARACTERIZATION OF DIELECTRICAL MATERIALS WITH TEMPERATURE AND FREQUENCY ON BZT BULK AND THIN LAYER Raluca Bacsei¹, C. Berbecaru¹, Carmen Mîndru¹, G. Banciu² and H. V. Alexandru¹ ¹ University of Bucharest, Faculty of Physics, Romania. ² National Institute of Materials Physics, Bucharest-Magurele, Romania</p>
CMP-P03	<p><i>Mathematica</i>[®] CODE FOR STONER-WOHLFARTH PROCESSES D.M. Baltateanu Faculty of Physics, West University, 300223 Timisoara RO</p>
CMP-P04	<p>MODELING OF CRYSTAL FIELD AND EPR PARAMETERS FOR Ti³⁺: (Mg,Ca)O CRYSTALS C.N. Avram and Marinela Barb Department of Physics, West University of Timisoara, Timisoara 300223, Romania</p>
CMP-P05	<p>TRANSIENT HEAT TRANSFER AND FLUID DYNAMICS MODELING IN VERTICAL BRIDGMAN SOLIDIFICATION OF InSb Paul Barvinschi¹, Floricica Barvinschi² ¹ Faculty of Physics, West University of Timisoara, 300223 Timisoara, Romania ² Department of Physical Foundation of Engineering, Politehnica University of Timisoara, Bvd.V.Parvan, no.2, 300223 Timisoara, Romania</p>
CMP-P06	<p>AB INITIO CALCULATIONS OF STRUCTURAL, ELECTRONIC, OPTICAL AND ELASTIC PROPERTIES OF THE LAVES COMPOUND Co₂Pr M.G. Brik¹, C.N. Avram², A.S. Gruia², N.M. Avram^{2,3} ¹ Institute of Physics, University of Tartu, Riia 142, Tartu 51014, Estonia ² Department of Physics, West University of Timisoara, Timisoara 300223, Romania ³ Academy of Romanian Scientists, Independentei 54, Bucharest 050094, Romania</p>
CMP-P07	<p>DIELECTRIC SPECTRUM OF DOUBLE-DOPED Er,Yb: CaF₂ CRYSTALS Gabriel Buse¹, Florica Stef¹, Marius Stef^{1,2} and Irina Nicoara¹ ¹ Physics Faculty, West University of Timisoara, 300223 Timisoara, Romania ² Alexandru Ioan Cuza University of Iasi, Bd. Carol I no. 11, 700506 Iasi, Romania</p>
CMP-P08	<p>ACTUATION MICRO-DESIGN BASED ON MARTENSITIC PHASE TRANSFORMATIONS IN SHAPE MEMORY ALLOYS Corneliu M. Craciunescu "Politehnica" University of Timisoara, Dept of Materials and Manufacturing Engineering</p>
CMP-P09	<p>MICROSTRUCTURAL OBSERVATION OF ELASTIC DOMAINS IN FERROMAGNETIC SHAPE MEMORY ALLOYS Corneliu M. Craciunescu "Politehnica" University of Timisoara, Dept of Materials and Manufacturing Engineering</p>
CMP-P10	<p>MAGNETIC PHASE SEPARATION IN A(Ru,Mn)O₃, A= Ca,Sr O. Florea, A. Vlădescu, I.G. Deac Faculty of Physics, Babes-Bolyai University, Str. M. Kogălniceanu, 1400084 Cluj-Napoca Romania</p>

CMP-P11	3-DIMENSIONAL NUMERICAL SIMULATION OF MELT FLOW IN DIRECTIONAL SOLIDIFICATION OF MULTICRYSTALLINE SILICON WITH A STIRRING DEVICE S. Dumitrica, D. Vizman, A. Popescu <i>Physics Faculty, West University of Timisoara, 300223, Timisoara, Romania</i>
CMP-P12	Sm ³⁺ - DOPED Sc ₂ O ₃ POLYCRYSTALLINE CERAMICS: SPECTROSCOPIC INVESTIGATION Cristina Gheorghe, Aurelia Lupei, Flavius Voicu <i>National Institute for Laser, Plasma and Radiation Physics, ECS Laboratory, 077125, Magurele – Bucharest, Romania</i>
CMP-P13	UV-PULSED LASER DEPOSITION OF POLYMER THIN FILMS: FUNDAMENT AND APPLICATIONS R. Cimpoesu¹, O. Pompilian², N. Cimpoesu¹, D. Ghe. Dimitriu³, S. Gurlui³, and C. Focsa² ¹ <i>“Gh. Asachi” Technical University, Faculty of Materials Science and Engineering, Iasi, ROMANIA</i> ² <i>Laboratoire de Physique des Lasers, Atomes et Molécules (UMR 8523), Université Lille 1 Sciences & Technologies, 59655 Villeneuve d’Ascq cedex, FRANCE</i> ³ <i>“Al. I. Cuza” University of Iasi, Faculty of Physics, Iasi, ROMANIA</i>
CMP-P14	NANOSTRUCTURED POLYMER SURFACES AND NANOAGREGATES OF SOME DIAZOBENZENE POLYMERS IN FILM STATE S. Gurlui¹, I. Lihtetchi², V. Hurduc³, D. Ghe. Dimitriu¹, and M. Strat¹ ¹ <i>Alexandru Ioan Cuza University of Iasi, Romania</i> ² <i>Transilvania University of Brasov, Romania</i> ³ <i>Gh. Asachi Technical University of Iasi, Romania</i>
CMP-P15	THz-TIME DOMAIN SPECTROSCOPY OF (001) ZnSe J. R. Molina Contreras^{1*}, A. Ionescu² and T. Dascalu² ¹ <i>Instituto Tecnológico de Aguascalientes, Departamento de Ingeniería Eléctrica y Electrónica, López Mateos 1801 Oriente, Fracc. Bona Gens, 20256 Aguascalientes, Ags., México</i> ² <i>National Institute for Laser, Plasma and Radiation Physics, Laboratory of Solid-State Quantum Electronics, Bucharest, R-077125 Romania</i>
CMP-P16	STANDARDIZATION OF CRYSTAL FIELD PARAMETERS FOR CrF ₂ CRYSTAL Simona Ivascu, C. N. Avram <i>Department of Physics, West University of Timisoara, Timisoara 300223, Romania</i>
CMP-P17	OPTICAL SPECTROSCOPY OF α -ZnAl ₂ S ₄ SPINEL TYPE CRYSTALS DOPED WITH TRANSITION METALS L. Kulyuk¹, S. Anghel^{1,2}, G. Boulon², K. Sushkevich³ ¹ <i>Institute of Applied Physics, Academiei Str.5, Chisinau, MD-2028, Republic of Moldova</i> ² <i>Physical Chemistry of Luminescent Materials, University of Lyon, Claude Bernard Lyon1 University, UMR 5620 CNRS, La Doua, 69 622 Villeurbanne, France</i> ³ <i>State University of Moldova, str. A. Mateevici 60, Chisinau, MD-2009, Republic of Moldova</i>
CMP-P18	INTERFACE CHARGE TRANSFER IN POLYPYRROLE COATED PEROVSKITE MANGANITE MAGNETIC NANOPARTICLES C. Leostean¹, O. Pana¹, M. L. Soran¹, S. Macavei¹, E. Gautron², C. M. Teodorescu³, N. G. Gheorghe³, O. Chauvet² ¹ <i>Natl. Inst. of R&D for Isotopic and Molecular Technologies, 65-103 Donath st., PO Box 700, 400293 Cluj-Napoca, Romania</i> ² <i>Institute of Materials Jean Rouxel, 2 rue de la Houssière, 44322 Nantes Cedex 3, France</i> ³ <i>Natl. Inst. of R&D for Mater. Phys., 105 Atomistilor st., 077125 Bucharest -Magurele, Romania</i>
CMP-P19	PLATINUM BASED MAGNETIC NANOPARTICLES AND FUNCTIONALIZED COMPOSITES S. Macavei, O. Pana, M.L. Soran, C. Leostean, M. Stefan <i>National Institute for R&D of Isotopic and Molecular Technologies, 400293 Cluj-Napoca, Romania</i>

CMP-P20	<p>THERMOELECTRIC PROPERTIES OF SINTERED Bi_2Te_3 SEMICONDUCTORS I. Malaescu¹, S. Novaconi², C. Seitan³, P. Sfirloaga², P. Vlazan², D. Malaescu¹, A. Ercuta¹, C. N. Marin¹ ¹<i>West University of Timisoara, Faculty of Physics, B-dul V. Parvan, no. 4, Timisoara, Romania</i> ²<i>National Institute for Research and Development in Electrochemistry and Condensed Matter, Timisoara, Romania</i> ³<i>National Institute for R&D in Electrical Engineering ICPE-CA, Bucharest, Romania</i></p>
CMP-P21	<p>ELECTROMAGNETIC INTERFERENCE SHIELDING EFFICIENCY OF SOME MAGNETIC PAINTS C. N. Marin¹, I. Mălăescu¹, P. C. Fannin², A. Ercuța¹, N. Ștefu¹, P. Vlăzan³, S. Novaconi³, D. Mălăescu¹ ¹<i>West University of Timisoara, Faculty of Physics, 300223, Timisoara, Romania</i> ²<i>Department of Electronic and Electrical Engineering, Trinity College, Dublin 2, Ireland</i> ³<i>National Institute for Research and Development in Electrochemistry and Condensed Matter, Timisoara, Condensed Matter Department, Plautius Andronescu 1, Romania</i></p>
CMP-P22	<p>SYNTHESIS OF NANOSTRUCTURED ZINC ALUMINATE SPINEL BY COPRECIPITATION METHOD I. Miron^{1,2}, C. Enache³, M. Vasile², I. Grozescu^{1,2} ¹<i>Politehnica University of Timisoara, Romania</i> ²<i>National Institute for Research and Development in Electrochemistry and Condensed Matter Timisoara, Romania</i> ³<i>Institute of Chemistry Timisoara of Romanian Academy, Romania</i></p>
CMP-P23	<p>DYNAMIC JAHN-TELLER EFFECT IN THE V^{2+}, Cr^{3+} AND Mn^{4+} IN OCTAHEDRAL SYMMETRY C. N. Avram and Ramona Nistora <i>Department of Physics, West University of Timisoara, Bd. V. Parvan 4, Timisoara 300223, Romania, E-mail:nistora_ramona@yahoo.com</i></p>
CMP-P24	<p>THE TEMPERATURE DEPENDENCE OF THE MAGNETIC SUSCEPTIBILITY OF MAGNETIC FLUIDS IN LOW FREQUENCY FIELD I. Malaescu¹, C. Obeada¹, P. C. Fannin², C. N. Marin¹, P. Barvinschi¹ ¹<i>West University of Timisoara, Faculty of Physics, 300223 Timisoara, Romania</i> ²<i>Dept of Microelectronics and Electrical Engineering, Trinity College, Dublin 2, Ireland</i></p>
CMP-P25	<p>CONDUCTANCE IN CYLINDRICAL NANODOTS Nicolina Pop¹, Vjekoslav Sajfert², Dušan Popov¹ ¹<i>Department of Physical Foundations of Engineering, „Politehnica” University of Timișoara, România</i> ²<i>Technical Faculty “M.Pupin”, Zrenjanin, University of Novi Sad, Serbia</i></p>
CMP-P26	<p>$\text{Sn}_{1-x}\text{Mn}_x\text{O}_2$ NANOPOWDERS CHARACTERISE BY ELECTRON PARAMAGNETIC RESONANCE A.Popa, O.Raita, M.Stan and L.M.Giurgiu <i>National Institute for Research and Development of Isotopic and Molecular Technologies, 65-103 Donath, 400293 Cluj-Napoca, Romania</i></p>
CMP-P27	<p>ON ELECTRICAL PROBE USED IN MAGNETRON PLASMA DIAGNOSTIC R. Apetrei, M. Solomon, I. Mihaila and G.Popa <i>Department of Physics, “Alexandru Ioan Cuza” University, 700506, Iasi, Romania</i></p>
CMP-P28	<p>HYDROTHERMAL SYNTHESIS OF $\text{Y}(\text{OH})_3$ PRECURSOR FOR CuYO_2 A.V. Racu^{1,2}, M. Miclău² ¹<i>Institute of Applied Physics of Moldova</i> ²<i>National Institute for Research and Development in Electrochemistry and Condensed Matter Timisoara, Romania</i></p>

CMP-P29	<p>MAGNETIC RESONANCE INVESTIGATIONS OF Fe³⁺ IONS IN ZnO NANOPARTICLES O.Raita, A.Popa, D.Toloman, Al.Darabont, M.Stan and L.M.Giurgiu <i>National Institute for Research and Development of Isotopic and Molecular Technologies, 65-103 Donath, 400293 Cluj-Napoca, Romania</i></p>
CMP-P30	<p>LOW FREQUENCY POLARIZABILITY OF COLLOIDAL NANOPARTICLES FROM MAGNETIC FLUIDS I. Malaescu¹, A. Savici¹, P. C. Fannin², C. N. Marin¹ ¹<i>West University of Timisoara, Faculty of Physics, 300223 Timisoara, Romania</i> ²<i>Department of Microelectronics and Electrical Engineering, Trinity College, Dublin 2, Ireland</i></p>
CMP-P31	<p>STRUCTURAL AND MICROSTRUCTURAL CHARACTERIZATION OF NANOCRYSTALLINE Ag_{1-x}In_{1-x}Zn_{2x}S₂ PHOTOCATALYSTS FOR SOLAR HYDROGEN PRODUCTION D. T. Silipas¹, E. Indrea¹, R. Bănică², T. Nyari² and R. C. Suci¹ ¹<i>National Institute for Research and Development of Isotopic and Molecular Technologies, 65-103 Donath, 400293 Cluj-Napoca, Romania</i> ²<i>National Institute for Research and Development in Electrochemistry and Condensed Matter, 1 Plautius Andronescu, 300224 Timisoara Romania</i></p>
CMP-P32	<p>EPR INVESTIGATIONS OF Zn_{1-x}Mn_xO POWDERS O. Raita, A. Popa, D. Girbovan, D. Toloman, Al. Darabont, M. Stan, L. M. Giurgiu <i>National Institute for Research and Development of Isotopic and Molecular Technologies, Cluj-Napoca 400293, Romania</i></p>
CMP-P33	<p>INFLUENCE OF Pb²⁺ IONS ON THE MORPHOLOGY OF EATCH PITS AND DISLOCATION DENSITY OF CaF₂:YbF₃ CRYSTALS Marius Stef^{1,2}, Florica Stef¹, G. Buse¹, Eleonora Preda¹ and Irina Nicoara¹ ¹<i>Physics Faculty, West University of Timisoara, 300223 Timisoara, Romania</i> ²<i>Alexandru Ioan Cuza University of Iasi, Bd. Carol I no. 11, 700506 Iasi, Romania</i></p>
CMP-P34	<p>SYNTHESIS AND CHARACTERIZATION OF SOME MAGNETITE BASED CORE-SHELL NANOPARTICLES Maria Stefan, Ovidiu Pana, Maria-Loredana Soran, Cristian Leostean, Sergiu Macavei <i>National Institute for Research and Development of Isotopic and Molecular Technologies, 65-103 Donath, 400293 Cluj-Napoca, Romania</i></p>
CMP-P35	<p>DETERMINATION OPTICAL FUNCTIONS AND ENERGETIC PROPERTIES FOR CHALCOPYRITE MINERALS Radu Todoran, Daniela Todoran <i>North University of Baia Mare, Str. Victoriei nr. 76, RO-431122, Baia Mare</i></p>
CMP-P36	<p>HYDROTHERMAL SYNTHESIS OF CuCrO₂ NANOCRYSTALS WITH DELAFOSSITE STRUCTURE D.H.Ursu^{1,2}, M.Miclău², I.Grozescu^{1,2} ¹<i>Politehnica University of Timisoara, Romania</i> ²<i>National Institute for Research and Development in Electrochemistry and Condensed Matter Timisoara, Romania</i></p>
CMP-P37	<p>CHARACTERIZATION OF STRUCTURAL AND OPTICAL PROPERTIES OF NANOCRYSTALLINE Zn₂SiO₄: Mn²⁺ PHOSPHORS M. Vaida¹, C. Enache², Z. Dudas², R. Banica³, A. I. Bucur³ ¹<i>Department of Physics, West University of Timisoara, Timisoara 300223, Romania</i> ²<i>Institute of Chemistry Timisoara of Romanian Academy, 300223, Timisoara, Romania</i> ³<i>National Institute for Research and Development in Electrochemistry and Condensed Matter Timisoara, Analysis and Characterization Department, Timisoara, Romania</i></p>

CMP-P38	<p>PRELIMINARY STUDY IN PREPARATION OF Nd³⁺: YAG AND Sm³⁺: Y₂O₃ TRANSPARENT CERAMICS</p> <p>Flavius Voicu¹, Cristina Gheorghe¹ and Camelia Florica²</p> <p>¹ National Institute for Laser, Plasma and Radiation Physics</p> <p>² National Institute of Material Physics</p>
CMP-P39	<p>FROM Fe-EDTA HYDROTHERMAL DECOMPOSITION TO POROUS RHOMBOHEDRAL Fe₂O₃ MICROCRYSTALS BY TOPOTACTIC TRANSFORMATION OF FeCO₃</p> <p>Mihaela Luminita Kiss^{1,2}, Marius Chirita¹, Radu Banica¹, Ion Grozescu¹</p> <p>¹ Department of Nanocrystal Synthesis, National Institute for Research and Development in Electrochemistry and Condensed Matter, Timisoara, email: chirifiz@yahoo.com</p> <p>² "Politehnica" University, Timisoara.</p>
CMP-P40	<p>SUPERPARAMAGNETIC UNUSUAL BEHAVIOR OF MICROMETRIC MAGNETITE MONODISPERSE MONOCRYSTALS SYNTHESIZED BY Fe-EDTA THERMAL DECOMPOSITION</p> <p>Mihaela Luminita Kiss^{1,3}, Marius Chirita¹, Radu Banica¹, Adrian Ieta², Ioan Grozescu¹</p> <p>¹ Department of Nanocrystal Synthesis, National Institute for Research and Development in Electrochemistry and Condensed Matter, email: chirifiz@gmail.com</p> <p>² Department of Physics, State University of New York at Oswego, Oswego, NY:</p> <p>³ "Politehnica" University of Timisoara</p>
CMP-P41	<p>GRAINS CHARACTERIZATION OF MULTICRYSTALLINE SILICON SAMPLES OBTAINED IN DIFFERENT TYPES OF CRUCIBLES BY BRIDGMAN METHOD</p> <p>V. Pupazan, A. Popescu, I. Sarbu, O. M. Bunoiu, D. Vizman</p> <p>West University of Timisoara, Physics Faculty, Timisoara, 300223, Romania</p>
CMP-P42	<p>HIGH PRESSURE HYDROTHERMAL CRYSTAL GROWTH OF FUNCTIONAL OXIDES PbMO₃ (V⁴⁺, Cr⁴⁺)</p> <p>I. Pirrotta, M. Miclău</p> <p>National Institute for Research and Development in Electrochemistry and Condensed Matter Timisoara, Romania</p>

POSTER PRESENTATIONS

Section Theoretical and Computational Physics (TCP)

TCP-P01	<p>COMPARING THE RELATIVISTIC AND NON RELATIVISTIC TRANSMISSION COEFFICIENTS OF THE ELECTRON TUNNELING THROUGH A QUANTUM HETEROSTRUCTURE</p> <p>D. M. Bălăţeanu, I. Cotăescu Jr. <i>West University of Timisoara, Faculty of Physics, 300223, Timisoara, Romania</i></p>
TCP-P02	<p>NOTE ON THE SCHRÖDINGER EQUATION</p> <p>C. Bizdadea, M. M. Bârcan, I. Negru, S. O. Saliu <i>Department of Physics, University of Craiova, 13 Al. I. Cuza Street, Craiova 200585, Romania</i></p>
TCP-P03	<p>THE PATH INTEGRAL FORMALISM APPLIED ON THE QUANTUM RIGID ROTATOR</p> <p>Viorel Laurenţiu Cartas¹, Ioan Zaharie² ¹<i>"Dunarea de jos" University of Galati, FIB, Călăraşi, 29, Brăila</i> ²<i>Politehnica University Timişoara, Physics Department</i></p>
TCP-P04	<p>INTERACTION BETWEEN THE MOLECULAR COHERENT VIBRATIONS AND COHERENT RADIATION FIELD IN TERMS OF DISCRETE VARIABLE</p> <p>Gh. E. Drăgănescu <i>Department of Mechanics and Vibration, Polytechnic University of Timişoara, Bv. M. Viteazu, No 2, 300222, Timisoara, Romania</i></p>
TCP-P05	<p>RENNER-TELLER ORIGIN OF BENDING DISTORTION OF ADSORBED FCN AND FNC MOLECULES</p> <p>Natalia Gorinchoy <i>Institute of Chemistry, Academy of Sciences of Moldova, Academiei str. 3, MD 2028 Chisinau, Republic of Moldova</i></p>
TCP-P06	<p>METHOD OF ASSESSING THE OVERALL EFFICIENCY OF DYE-SENSITIZED SOLAR CELLS</p> <p>Robert Maria, Duşan Popov, Miodrag Popov <i>„Politehnica” University of Timişoara, Romania</i></p>
TCP-P07	<p>THE INFLUENCE OF THE DYNAMIC LOCALIZATION ON THE TIME-DEPENDENT OSCILLATIONS OF CURRENTS ON THE ONE DIMENSIONAL LATTICE</p> <p>C. Micu, D. Racolta <i>Department of Physics, North University of Baia Mare, Str. V. Babes, 62A, RO-430122, Baia Mare, Romania</i></p>
TCP-P08	<p>AN ELECTROSTATIC ANALOGY BETWEEN WORMHOLE THROATS AND CONDUCTING SHELLS</p> <p>Nistor Nicolaevici <i>Dept. of Physics, The West University of Timisoara, 300223, Timisoara, Romania</i></p>
TCP-P09	<p>EXCITED BINOMIAL STATES FOR THE PSEUDOHARMONIC OSCILLATOR</p> <p>Duşan Popov, Nicolina Pop, Robert Maria <i>Department of Physical Foundations of Engineering, „Politehnica” University of Timişoara, România</i></p>
TCP-P10	<p>COMPETITION BETWEEN FARADAY AND RESONANT WAVES IN DRIVEN BOSE-EINSTEIN CONDENSATES</p> <p>Mihaela Carina Raportaru <i>“Horia Hulubei” National Institute for Physics and Nuclear Engineering, 30 Reactorului, Magurele, 077125, Romania</i></p>

TCP-P11	<p>THERMAL CONDUCTANCE OF A TWO-CHANNEL KONDO MODEL A. Roman¹, C. P. Moca^{1,2}, D. C. Marinescu³ ¹ <i>Department of Physics, University of Oradea, Oradea R-410087, Romania</i> ² <i>Institute of Physics, Budapest University of Technology and Economics, H-1521 Budapest, Hungary</i> ³ <i>Department of Physics, Clemson University, Clemson, South Carolina, USA</i></p>
TCP-P12	<p>NEW RESULTS ON CONSISTENT COUPLINGS BETWEEN BF MODELS AND DUAL LINEARIZED GRAVITY C. Bizdadea, S. O. Saliu, L. Stanciu-Oprean <i>Department of Physics, University of Craiova, 13 Al. I. Cuza Street, Craiova 200585, Romania</i></p>
TCP-P13	<p>ENERGY BAND STRUCTURES FOR ELECTRONS ON THE TRIANGULAR LATTICE WITH UNIFORM MAGNETIC FIELD Zs. Szakacs <i>North University of Baia Mare, Str. Victoriei nr. 76, RO-431122, Baia Mare</i></p>
TCP-P14	<p>MIXED SYMMETRY-TYPE (k,1) MASSLESS TENSOR FIELDS – CONSISTENT INTERACTIONS OF DUAL LINEARIZED GRAVITY C. Bizdadea, S. O. Saliu, M. Toma <i>Department of Physics, University of Craiova, 13 Al. I. Cuza Street, Craiova 200585, Romania</i></p>
TCP-P15	<p>A COMPARATIVE STUDY OF POSITRON AND ELECTRON IMPACT IONIZATION OF MOLECULAR NITROGEN I. Tóth, L. Nagy <i>Faculty of Physics, Babeş-Bolyai University, 400084 Cluj-Napoca, Romania</i></p>
TCP-P16	<p>A NOTE ON THE FIRST-CLASS APPROACHES OF MASSIVE p-FORMS S. C. Sararu, M. T. Udristioiu <i>Department of Physics, University of Craiova, 13 Al. I. Cuza Str., Craiova 200585, Romania</i></p>

POSTER PRESENTATIONS

Section Applied Physics and Interdisciplinarity (API)

API-P01	<p>EFFICIENT SECOND HARMONIC GENERATION OF BLUE-VIOLET LIGHT IN NONCRITICAL TYPE-I PHASE MATCHING Alexandru Achim, Lucian Gheorghe, Flavius Voicu <i>National Institute R&D for Laser, Plasma and Radiation Physics, Solid-State Quantum Electronics Laboratory, P.O. Box MG 36, 077125 Magurele, Bucharest, Romania</i></p>
API-P02	<p>THE INFLUENCE OF COMPONENT ALIGNMENT ON THE LIFE OF TOTAL KNEE PROSTHESES Delia Bugariu, Liviu Bereteu <i>“Politehnica” University of Timisoara, Faculty of Mechanics, 300222, Timisoara, Romania</i></p>
API-P03	<p>NANOPARTICLES FOR BIOMEDICINE Alina Mihaela Cojocariu, Anamaria Doaga, C. Constantin, O. F. Caltun <i>Faculty of Physics and Carpath Center of Excellence, Alexandru Ioan Cuza University, Bd. Carol I nr. 11, 700506 Iasi, Romania</i></p>
API-P04	<p>ON THE REACTIVE SPECIES PRODUCED BY PULSED-DBD IN HELIUM WITH IMPURITIES A. S. Chiper, C. Vitelaru, C. Irimiea and G. Popa <i>Faculty of Physics, Alexandru Ioan Cuza University, 700506 Iasi, Romania</i></p>
API-P05	<p>A BIOINFORMATICS STUDY OF MAMMALIAN AND BACTERIAL GLYCOLYTIC ENZYMES Dana Craciun¹, Adriana Isvoran^{2,3} ¹<i>West University of Timișoara, Teacher Training Department, Timișoara, 300223, Timiș, Romania</i> ²<i>West University of Timisoara, Department, of Chemistry, Timisoara, 300115, Romania</i> ³<i>Georgescu-Roegen Interdisciplinary Research and Formation Platform, 16 Pestalozzi, Timisoara, 300115, Romania</i></p>
API-P06	<p>EVALUATION OF GENETOXIC EFFECT OF RADIATION OVER VEGETAL EMBRYOS IN SPECIES WITH DIFFERENT SENSIBILITIES Diana Vrîncianu¹, Cristina Ionitã¹, Dorina Creangã¹, Iulia Bãra² ¹<i>Univ. Al. I. Cuza, Facultatea de Fizică, 11 Blvd. Carol I, 700506, Iasi, România,</i> ²<i>Univ. Al. I. Cuza, Facultatea de Biologie, Iasi, România</i></p>
API-P07	<p>THE MIGRATION OF HEAVY METALS FROM ROOTS IN THE AERIAN PARTS OF <i>BRASSICA OLERACEA</i> (CABBAGE) Ioana Daniela Dulama¹, Ion V. Popescu^{1,3,4}, Cristiana Radulescu², Claudia Stihî², Andrei Chilian¹, Roxana Bancuta¹, Anca Gheboianu¹, Alin Bucurica¹ ¹<i>Valahia University of Targoviste, Multidisciplinary Research Institute for Science and Technology, 130024, Targoviste, Romania</i> ²<i>Valahia University of Targoviste, Faculty of Science and Arts, 130024, Targoviste, Romania</i> ³<i>Horia Hulubei National Institute of Physics and Nuclear Engineering, 077125, Magurele, Romania</i> ⁴<i>Romanian Academy of Scientists, 050094, Bucharest, Romania</i></p>
API-P08	<p>DETERMINATION OF TOTAL PHENOLIC CONTENT OF RED WINE BY SPECTROPHOTOMETRIC METHOD Diana Florescu¹, Elena Horj², Andreea Iordache¹, Roxana Ionete¹, Monica Culea² ¹<i>National R&D Institute of Cryogenics and Isotopic Technologies – ICSI Rm. Valcea, 4 Uzinei St., Rm. Valcea, 240050, Romania</i> ²<i>“Babes-Bolyai” University, 1 M. Kogalniceanu St., Cluj-Napoca, 400084, Romania</i></p>

API-P09	<p>WATER QUALITY MONITORING USING ATOMIC ABSORPTION SPECTROMETRY (AAS) AND TOTAL DISSOLVED SOLIDS (TDS) MEASUREMENTS</p> <p>Anca Gheboianu¹, Ion V. Popescu^{1,2}, Claudia Stîhi³, Cristiana Radulescu³</p> <p>¹ <i>Multidisciplinary Research Institute for Science and Technologies, Valahia University of Targoviste, No 2 Carol I Street, 130024 Targoviste, Romania</i></p> <p>² <i>Academy of Romanian Scientists, 54 Splaiul Independentei, Bucharest050094, Romania</i></p> <p>³ <i>Science Department, Faculty of Science and Arts, Valahia University of Targoviste</i></p>
API-P10	<p>PM10- DUST PARTICLE MEASUREMENTS OVER THE CACICA AREA: ENVIRONMENTAL MODEL AND EXPERIMENTAL APPROACH DISCUSSIONS</p> <p>Florin Unga¹, Mihai Nicolae Danila¹, Adrian Timofte^{1, 2}, Marius Mihai Cazacu¹, Ioan Sorin Stratulat³, Dan Gheorghe Dimitriu¹, Silviu Gurlui¹</p> <p>¹ <i>"Al. I. Cuza" University of Iasi, Faculty of Physics, 11 Carol I Blvd., 700506 Iasi, Romania</i></p> <p>² <i>National Meteorological Administration, Regional Forecast Center Bacau, 1 Cuza Voda Str., 600274 Bacau, Romania</i></p> <p>³ <i>"Gr. T. Popa" University of Medicine and Pharmacy, 16 Universitatii Str., 700115, Iasi Romania</i></p>
API-P11	<p>APPLICATION OF MULTIELEMENTAL ANALYSIS FOR IDENTIFICATION OF WINE ORIGIN</p> <p>Andreea Iordache¹, Diana Florescu¹, Elena Horj², Roxana Ionete¹, Monica Culea², Ioan Stefanescu¹</p> <p>¹ <i>"Babes-Bolyai" University, 1 M. Kogalniceanu St., Cluj-Napoca, 400084, Romania</i></p> <p>² <i>National R&D Institute of Cryogenics and Isotopic Technologies – ICSI Rm. Valcea, 4 Uzinei St., Rm. Valcea, 240050, Romania</i></p>
API-P12	<p>LUMINESCENCE PROPERTIES OF Eu-DOPED $\text{La}_3(\text{Ga}_{1-x}\text{Al}_x)_{5.5}\text{Nb}_{0.5}\text{O}_{14}$ NANO-POWDERS SYNTHESIZED BY A CITRATE SOL-GEL METHOD</p> <p>Matei Elena-Cristina, Georgescu S., Voiculescu Ana-Maria, Toma O., Nastase S.</p> <p><i>National Institute for Laser, Plasma and Radiation Physics, 409 Atomistilor Street, Magurele, Jud. Ilfov, 077125, Romania</i></p>
API-P13	<p>RADON MEASUREMENTS IN WATER FROM BĂIȚA-BIHOR (ROMANIA) MINING AREA</p> <p>M. Moldovan¹, C. Cosma¹, Alexandra Cucos¹, Bety Burghele¹, T. Dicu¹, B.Papp¹ R.Begy¹, C. Cîndea¹, D. Fulea¹, C Sainz^{1,2}</p> <p>¹ <i>"Babeş-Bolyai" University Faculty of Environmental Science and Engineering, Cluj-Napoca, RO-400294, Romania</i></p> <p>² <i>Univ. of Cantabria, Faculty of Medicine, Department of Medical Physi, Santander, ES-39011, Spain</i></p>
API-P14	<p>LIVER ULTRASOUND IMAGE CLASSIFICATION BY USING FRACTAL DIMENSION OF EDGE</p> <p>Simona Moldovanu^{1,2}, Luminita Moraru³, Dorin Bibicu¹</p> <p>¹ <i>Faculty of Sciences and Environment, Physics Department, Dunarea de Jos University of Galati, 47 Domneasca St., 800008,</i></p> <p>² <i>High School Dumitru Motoc, Galati, Romania</i></p> <p>^{1,3} <i>High School Dunarea, Galati, Romania</i></p>
API-P15	<p>AUTOMATIC INVESTIGATION OF THE THYROID NODULES FROM US IMAGES</p> <p>Dorin Bibicu¹, Luminita Moraru², Simona Moldovanu³</p> <p>¹ <i>Faculty of Sciences and Environment, Physics Department, Dunarea de Jos University of Galati</i></p> <p>² <i>High School Dunarea, Galati, Romania</i></p> <p>³ <i>High School Dumitru Motoc, Galati, Romania</i></p>

API-P16	<p>IMPLEMENTATION OF CHIP-BASED ELECTROSPRAY IONIZATION IN COMBINATION WITH ELECTRON TRANSFER DISSOCIATION MASS SPECTROMETRY FOR PEPTIDE AND GLYCOPEPTIDE SEQUENCING</p> <p>Cristina Mosoarca^{1,2}, Corina Flangea³, Eugen Sisu⁴ Alina D. Zamfir^{1,3} and Iosif Malaescu²</p> <p>¹Mass Spectrometry Laboratory, National Institute for R&D in Electrochemistry and Condensed Matter, 300224, Timisoara, Romania; ²Physics department, West University Timisoara, 300223, Timisoara, Romania; ³Department of Chemical and Biological Sciences, "Aurel Vlaicu" University of Arad, 310130, Arad, Romania; ⁴Chemistry Institute of Romanian Academy, 300223, Timisoara, Romania</p>
API-P17	<p>NEW CLASS OF STATE FUNCTIONS FOR THE ECOLOGICAL ACVATIC SYSTEMS</p> <p>Gabriel Murariu¹, Lucian Georgescu², Catalina Iticescu²</p> <p>¹ Physics, Chemistry and Environment Department, Sciences and Environment Faculty, Dunarea de Jos University of Galati, Romania ² ECCE, Sciences and Environment Faculty, Dunarea de Jos University of Galati, Romania</p>
API-P18	<p>A REGRESIVE MODEL FOR OPTICAL PROPRIETIES OF Sb2O3</p> <p>Gabriel Murariu, Simona Condurache-Bota, Luminita Moraru</p> <p>Physics, Chemistry and Environment Department, Sciences and Environment Faculty, Dunarea de Jos University of Galati, Romania</p>
API-P19	<p>FT-IR AND ESR INVESTIGATION OF SOME COPPER (II) THEOPHYLLINATO COMPLEXES CONTAINING ETHYLENEDIAMINE DERIVATIVES AS CO-LIGANDS</p> <p>Cs. Nagy¹, Attila-Zsolt Kun², B. Mihály², E. Forizs², L. David¹, I. Haiduc²</p> <p>¹Faculty of Physics, Babeş-Bolyai University, M. Kogalniceanu 1, RO-400084 Cluj-Napoca, Romania ²Faculty of Chemistry and Chemical Engineering, Babeş-Bolyai University, Arany János 11, RO-400028 Cluj-Napoca, Romania</p>
API-P20	<p>ELECTROHYDRODYNAMIC MODELING FOR MANIPULATION OF MICRO/NANO PARTICLES IN MICROFLUIDIC SYSTEMS</p> <p>Adrian Neculae, Mihai Lungu, Madalin Bunoiu and Raluca Poenaru</p> <p>West University of Timisoara, Faculty of Physics, 4 V. Parvan, 300223 Timisoara, Romania</p>
API-P21	<p>QUARTER CAR SUSPENSION SYSTEM WITH ONE DEGREE OF FREEDOM SIMULATED USING SIMULINK</p> <p>L. Bereteu, A. Perescu</p> <p>Mecanical Department, University "Politehnica", M. Viteazu 1, RO-300222, Timisoara, Romania</p>
API-P22	<p>DIFFERENTIATION BETWEEN SOFTWOOD AND HARDWOOD BY USING IR SPECTROSCOPY AND X-RAY DIFFRACTION</p> <p>Maria-Cristina Popescu, Ionela-Daniela Carja</p> <p>"P. Poni" Institute of Macromolecular Chemistry of Romanian Academy, 41A Gr. Ghica Voda Alley, Ro.700487, Iasi, Romania</p>
API-P23	<p>INFLUENCE OF LUMBAR SPINE KINEMATICS ON FEET PRESSURE DISTRIBUTION</p> <p>C. Săftescu-Jescu, L. Bereteu</p> <p>"Politehnica" University of Timisoara, Faculty of Mechanics, Bv. Mihai Viteazu, Nr. 1, 300222, Timisoara, Romania</p>
API-P24	<p>SIMULATIONS OF AIR FLOW OVER A PARABOLIC ANTENNA</p> <p>Bereteu Liviu, Simoiu Dorin</p> <p>Departament of Mechanics and Vibrations, "Politehnica" University of Timisoara, Bd. Mihai Viteazu, nr.1, 300222 Timisoara, Romania</p>

API-P25	<p>FOURIER CORRELATIONS OF DRĂGAN DAM SPATIALLY DISTRIBUTED HORIZONTAL DISPLACEMENTS</p> <p>Alin C. Teusdea¹, Traian Modog²</p> <p>¹University of Oradea, Faculty of Environmental Protection, Gen. Magheru 26, Oradea 410058, BH, Romania</p> <p>² University of Oradea, Faculty of Faculty of Architecture and Constructions, Barbu Stefanescu Delavrancea 4, Oradea 410058, Romania</p>
API-P26	<p>LUMINESCENCE PROPERTIES OF $\text{La}_3\text{Ga}_{5.5}\text{Ta}_{0.5}\text{O}_{14}$ DOPED WITH ERBIUM AND YTTERBIUM</p> <p>A.M. Voiculescu¹, S. Georgescu¹, O. Toma¹, C. Matei¹, R. Birjega¹, L. Petrescu²</p> <p>¹National Institute for Laser, Plasma and Radiation Physics, 409 Atomistilor Street, Magurele, Jud. Ilfov, 077125, Romania</p> <p>²Faculty of Biology, University of Bucharest, 91-95 Splaiul Independentei, Bucharest 76201, Romania</p>
API-P27	<p>SYNTHESIS AND VISIBLE PHOTOCATALYTIC ACTIVITY FOR HYDROGEN EVOLUTION OF $\text{Zn}_{2x}(\text{Cu,Ag})_{1-x}\text{In}_{1-x}\text{S}_2$ -TYPE SOLID SOLUTIONS</p> <p>Radu Banica¹, Terezia Nyari^{1*}, Alexandra Ioana Bucur¹, Alexandra Borza²</p> <p>¹ National Institute for Research and Development in Electrochemistry and Condensed Matter, Str. Plautius Andronescu 1, 300224 Timisoara, Romania</p> <p>² University "Politehnica" of Timisoara, Piata Victoriei 2, 300006 Timisoara, Romania</p>
API-P28	<p>NEW VISIBLE-ACTIVE PHOTOCATALYSTS FOR HYDROGEN EVOLUTION OBTAINED HYDROTHERMALLY USING ZnIn_2S_4 AS TEMPLATE</p> <p>Radu Banica¹, Terezia Nyari¹, Viorel Sasca², Alexandra Borza³</p> <p>¹ National Institute for Research and Development in Electrochemistry and Condensed Matter, Str. Plautius Andronescu 1, 300224 Timisoara, Romania</p> <p>² University "Politehnica" of Timisoara, Piata Victoriei 2, 300006 Timisoara, Romania</p>
API-P29	<p>SYNTHESIS AND VISIBLE PHOTOCATALYTIC ACTIVITY FOR HYDROGEN PRODUCTION OF $\text{Ag}_{0.3}\text{In}_{0.3}\text{Zn}_{1.4}\text{S}_2$ SOLID SOLUTION</p> <p>Radu Banica¹, Terezia Nyari^{1*}, Viorel Sasca², Alexandra Borza³, Daniel Ursu¹</p> <p>¹ National Institute for Research and Development in Electrochemistry and Condensed Matter, Str. Plautius Andronescu 1, 300224 Timisoara, Romania</p> <p>² Institute of Chemistry Timisoara of the Romanian Academy, Bd. Mihai Viteazul 24, 300223 Timisoara, Romania</p> <p>³ University "Politehnica" of Timisoara, Piata Victoriei 2, 300006 Timisoara, Romania</p>
API-P30	<p>ZnO AND CuInS_2 -BASED SOLAR CELLS OBTAINED BY SPRAY-PYROLYSIS</p> <p>Radu Banica, Terezia Nyari</p> <p>National Institute for Research and Development in Electrochemistry and Condensed Matter, Str. Plautius Andronescu 1, 300224 Timisoara, Romania</p>
API-P31	<p>Glass/TCO/In_2S_3/p-CuInS_2/Au TYPE SOLAR CELLS OBTAINED BY SPRAY-PYROLYSIS</p> <p>Radu Banica, Terezia Nyari</p> <p>National Institute for Research and Development in Electrochemistry and Condensed Matter, Str. Plautius Andronescu 1, 300224 Timisoara, Romania</p>

POSTER PRESENTATIONS

Section Educational Physics (EP)

EP-P01	<p>MULTIPLE INTELLIGENCES IN MODERN AND CONVENTIONAL SCIENCE CLASSES Dana Crăciun <i>West University of Timișoara, Teacher Training Department, Blvd. V. Pârvan, 4, Timișoara, 300223, Romania</i></p>
EP-P02	<p>SCIENCE AND ART – A DIFFERENT APPROACH TO TEACHING SCIENCE Dana Crăciun <i>West University of Timișoara, Teacher Training Department, 4 Blvd. V. Parvan, Timișoara, 300223, Romania</i></p>
EP-P03	<p>PARTICULARITĂȚI ALE EDUCAȚIEI CONTEMPORANE Ion Deliu¹, Daniela Deliu² ¹<i>Sc. cu cls. I-VIII Nr. 6 “A. Odeanu” Lugoj, jud. Timis</i> ²<i>Sc. cu cls. I-VIII Costeiu, jud Timis</i></p>
EP-P04	<p>FIZICA-COMPONENTĂ A EDUCAȚIEI INTELLECTUALE Dobrescu Ionela-Florica¹, Mandiș Ioana-Lavinia², Miholcea Dan-Alexandru³ ¹<i>Școala cu clasele I-VIII Berzovia</i> ²<i>Liceul Teoretic “Diaconovici Tietz” Reșița</i> ³<i>Școala cu clasele I-VIII Berzovia</i></p>
EP-P05	<p>VALENȚE DIDACTICE ALE INTEGRĂRII TABLEI INTELIGENTE ÎN LECȚIA DE FIZICĂ Hudecz Adriana <i>Grup Școlar Industrial „Emanuil Ungureanu” Timișoara</i></p>
EP-P06	<p>PREDAREA – ÎNVĂȚAREA INTERACTIVĂ CENTRATĂ PE ELEV Ilies Elisabeta <i>Grup Școlar Industrial Sebis, jud. Arad</i></p>
EP-P07	<p>AZI ELEVI BINE PREGĂTIȚI, MÂINE OLIMPICI Lascu Gheorghe Daniel <i>Școala cu clasele I-VIII Măureni</i></p>
EP-P08	<p>SIMULAREA ȘI MODELAREA FENOMENELOR FIZICE UTILIZÂND CALCULATORUL ÎN ÎNVĂȚĂMANTUL PREUNIVERSITAR Antoanetta Corina Lungu¹, Simona Costandache², Aurelia Voichescu³ ¹<i>Colegiul Silvic “Casa Verde” Timișoara, Aleea Pădurea Verde nr.5, Timișoara, 300310</i> ²<i>Colegiul Tehnic “Valeriu Braniște” Lugoj</i> ³<i>Școala cu clase I-VIII nr.2 Lugoj</i></p>
EP-P09	<p>ENERGIA NUCLEARĂ ÎNTRE BINEFACERE ȘI DEZASTRU Codruta Mihaela Tudor, Antoanetta Corina Lungu <i>Colegiul Silvic “Casa Verde” Timișoara, Aleea Pădurea Verde nr.5, Timișoara, 300310</i></p>