

## TIM 15-16 Physics Conference SESSION MATRIX

Thursday, 26th of May 2016	
Faculty of Physics 2nd Floor	
09:00	Participants Arrival
16:00	Registration Desks Open
18:00	Evening Cocktail Reception

### WHERE TO FIND THE CONFERENCE ROOMS

- **Faculty of Physics** – go right as you enter the University until the very end of the Hallway, last entrance on right is ground floor (look for „Facultatea de Fizica” sign), stairs are at the end of the Hallway for 1st and 2nd floors (on both sides of the Faculty hallways)
- **A01** – go right as you enter the University, first amphitheatre on your left (entrance from main hall or from side corridor)
- **F205** – Faculty of Physics 2nd Floor (**Registration room**)
- **F206** – Faculty of Physics 2nd Floor
- **Conference Banquet** – „Flora” Restaurant, Splaiul Tudor Vladimirescu nr. 14, Timisoara

*For any issues you may have during your stay, feel free to ask one of the organizers who will have marked badges!*

**Note that the Registration desk will be available throughout the conference duration.**



**Friday, 27th of May 2016**

Hour	A01	F206	F203	F103
15:30 16:00	Coffee Break			
16:00  18:00		TCP Session 2	API Session	Workshop Session 2 "Present and perspectives in airborne particulate matter pollution in city of Timisoara. Causes and potential hazards to human health and environment. Policies and strategies on air pollution control and prevention"
18:30				
18:30 19:30	Coffee Break Poster Session 1 (TCP+API) <i>Faculty of Physics, 2nd Floor</i>			
20:00	Conference Banquet			

Saturday, 28th of May 2016				
Hour	A01	F206	F203	F103
09:00 10:30	Plenary Session 3			
10:30 11:00 11:30	Coffee Break Poster Session 2 (CMP) <i>Faculty of Physics, 2nd Floor</i>			
11:00 11:30		TCP Session 3		
14:00				
14:00 15:00	Lunch Break <i>Faculty of Physics, 1st Floor</i>			
15:00 16:00		SEENET-MTP Meeting		

**Friday, 27th of May 2016**

**A01**

08:00-08:50

MORNING REGISTRATION (**Room F205**)

**Plenary Session 1**

*Chairman: Daniel Vizman*

08:50-09:00

OPENING CEREMONY

09:00-09:30

**PL-01**

ELI-NP - EXCEPTIONAL PERSPECTIVES FOR ROMANIAN SCIENCE

Calin Alexandru Ur

09:30-10:00

**PL-02**

ANALOGIES BETWEEN LIGHT AND ELECTRONS IN NANOSTRUCTURES. APPLICATIONS

Daniela Dragoman

10:00-10:30

**PL-03**

THE RELATIVISTIC AHARONOV-BOHM EFFECT IN IDEAL RINGS AND CYLINDERS

Ion Cotaescu

**Faculty of Physics – 2nd Floor**

10:30-11:00

**Coffee Break**

**A01****Plenary Session 2***Chairman: Nicolae Avram*

11:00-11:30	<b>PL-04</b>	HARD MAGNETIC MATERIALS FOR THE 21ST CENTURY <b><u>Viorel Pop</u></b>
11:30-12:00	<b>PL-05</b>	MAGNETIC NANOPARTICLES IN AQUEOUS SUSPENSION AND BIOLOGICAL IMPACT <b><u>Dorina Creanga</u></b>
12:00-12:30	<b>PL-06</b>	MODELING SPIN CROSSOVER COMPOUNDS – FROM QUASISTATIC HYSTERESIS TO FEMTOSECOND ELASTIC RESPONSE <b><u>Laurentiu Stoleriu</u></b> , Alexandru Stancu and Cristian Enachescu

**Faculty of Physics – 1st Floor**

12:30-13:30	<b>LUNCH</b>
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**F206****TCP Session 1***Chairman: Aurelian Isar*

13:30-14:00	<b>TC-I01</b>	ACTION-ANGLE VARIABLES FOR GEODESIC MOTIONS IN TORIC SASAKI-EINSTEIN SPACES <i>[invited]</i> <b><u>Mihai Visinescu</u></b>
14:00-14:30	<b>TC-I02</b>	PERTURBATIVE QUANTUM FIELD THEORY IN THE CAUSAL APPROACH <i>[invited]</i> <b><u>Dan-Radu Grigore</u></b>
14:30-14:45	TC-O01	SCALAR TEST PARTICLES IN AN ADS <sub>5</sub> BULK AND THE WHEELER-DEWITT EQUATION <b><u>Adrian Bodnarescu</u></b> and Ciprian Dariescu
14:45-15:00	TC-O02	SOLUTIONS OF DEFOCUSING SUPER-GARDNER EQUATION <b><u>Nicoleta-Corina Babalic</u></b>
15:00-15:15	TC-O03	BOHR HAMILTONIAN WITH AN ENERGY DEPENDENT GAMMA-UNSTABLE HARMONIC OSCILLATOR POTENTIAL <b><u>Radu Budaca</u></b>
15:15-15:30	TC-O04	SHAPE PHASE TRANSITION FOR GAMMA-RIGID PROLATE NUCLEI <b><u>Petrica Buganu</u></b> and Radu Budaca

F203

CMP Session

Chairman: Petre Badica

13:30-14:00	CM-I01	CHALCOGENIDES MATERIALS FOR THERMOELECTRICITY, SOLAR CELLS AND RADIATION DETECTORS [invited] <b>Michal Piasecki</b> , V. Kityk, I. Barchiy, G. L. Myronchuk, O. V. Parasyuk, O. Y. Khyzhun, A. O. Fedorchuk and M. G. Brik
14:00-14:30	CM-I02	STATIC LIGHT SCATTERING IN MAGNETIC COLLOIDS [invited] <b>Vlad Socolic</b>
14:30-14:45	CM-O01	SURFACE STRUCTURE CREATION INDUCED BY FS - LASER PULSES INVESTIGATED USING FRACTAL DIMENSION ANALYSIS METHODS Márió Moczok, Barnabás Gilicze, Bence Racskó, Nóra Juhász and László Nánai
14:45-15:00	CM-O02	TRANSMISSION OF A MICROWAVE CAVITY COUPLED TO LOCALIZED SHIBA STATES <b>Razvan Chirla</b> , Andrei Manolescu and Catalin Pascu Moca
15:00-15:15	CM-O03	DEMAGNETIZING FIELD CORRECTION IN FERROFLUID STATIC MAGNETIZATION MEASUREMENTS <b>Oana Marinica</b> , Daniel Vizman and Vlad Socoliuc
15:15-15:30	CM-O04	THE CANONICAL QUANTIZATION OF MESOSCOPIC LC-CIRCUITS. APPLYING SYMMETRIZATION TECHNIQUES TO THE FIRST PRINCIPLES DERIVATION OF HERMITIAN NN- AND NNN-HOPPING HAMILTONIANS <b>Erhardt Papp</b> , Liviu Aur, Dania Racolta and Zsolt Szakacs

Faculty of Physics – 2nd Floor

15:30-16:00	Coffee Break
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**F206****TCP Session 2***Chairman: Mihai Visinescu*

16:00-16:30	<b>TC-103</b>	GENERATION OF QUANTUM CORRELATIONS IN TWO-MODE GAUSSIAN OPEN SYSTEMS <i>[invited]</i> <b><u>Aurelian Isar</u></b>
16:30-17:00	<b>TC-104</b>	NOTE ON THE BRST MASS GENERATION OF A VECTOR FIELD. THE CASE OF COUPLINGS TO N=4 REAL SCALARS <i>[invited]</i> Constantin Bizdadea, <b><u>Eugen-Mihaita Cioroianu</u></b> and Solange-Odile Saliu
17:00-17:15	TC-005	QUANTUM-INDUCED NON-EQUILIBRIUM EFFECTS IN THERMAL STATES UNDERGOING RIGID ROTATION <b><u>Victor Eugen Ambrus</u></b>
17:15-17:30	TC-006	ASPECTS OF DEGREES OF FREEDOM IN HIGHER DERIVATIVE MASSIVE ELECTROMAGNETIC THEORIES <b><u>Silviu-Constantin Sararu</u></b>
17:30-17:45	TC-007	BOUNCING DIRAC PARTICLES: COMPATIBILITY BETWEEN MIT BOUNDARY CONDITIONS AND THOMAS PRECESSION <b><u>Nistor Nicolaevici</u></b>
17:45-18:00	TC-008	SYSTEMATICS OF ALPHA-DECAY AND SF HALF-LIVES OF SUPERHEAVY NUCLEI <b><u>Ion Silisteanu</u></b> and Claudia-Ioana Anghel
18:00-18:15	TC-009	GAUSSIAN QUANTUM STEERING OF TWO BOSONIC MODES IN A THERMAL ENVIRONMENT <b><u>Tatiana Mihaescu</u></b> and Aurelian Isar
18:15-18:30	TC-010	QUANTUM COHERENCE OF TWO-MODE SYSTEMS IN A THERMAL ENVIRONMENT <b><u>Serban Suci</u></b> and Aurelian Isar

**F203****API Session***Chairman: Vlad Socoliuc*

16:00-16:30	<b>AI-I01</b>	OPTICAL COHERENCE TOMOGRAPHY: HANDHELD SCANNING PROBES WITH GALVANOMETER SCANNERS [ <i>invited</i> ] <b><u>Virgil-Florin Duma</u></b> , Dorin Demian, George Dobre, Ramona Cernat, Cosmin Sinescu, Florin Topala, Gheorghe Hutiu, Meda Negrutiu, Adrian Bradu and Adrian Podoleanu
16:30-17:00	<b>AI-I02</b>	BIOPHOTONIC SWITCHING AND MODULATION [ <i>invited</i> ] <b><u>László Fábrián</u></b> , László Nánai and András Déz
17:00-17:15	AI-O01	EXPLANATION OF UP-CONVERSION EFFECT IN TELLURIUM-BISMUT DOUBLE DOPPED GLASS <b><u>Piotr Bragiel</u></b> , Suresh Kumar, Michał Piasecki, Manuel Valente and Radosław Belka
17:15-17:30	AI-O02	A SIMULATED INVESTIGATION OF THE GEOMETRIC AND RADIOMETRIC VIGNETTING ASSOCIATED WITH A 72-FACET, OFF AXIS, POLYGON MIRROR IN SWEEP SOURCE OPTICAL COHERENCE TOMOGRAPHY <b><u>Mike Everson</u></b> , George Dobre, Adrian Podoleanu, Virgil Florin Duma
17:30-17:45	AI-O03	THE INFLUENCE OF CLIMATE CONDITIONS ON THE MORTALITY RELATED TO CARDIO-VASCULAR DISEASES IN DOJ COUNTY <b><u>Mihaela Tinca Udristoiu</u></b> , Liliana Velea, Roxana Bojariu, Silviu Constantin Sararu and Ludmila Prunariu
17:45-18:00	AI-O04	4-CHLORO-1-NAPHTHOL AND 4-METHOXY-1-NAPHTHOL POLYMER FILMS IN NLO APPLICATIONS Ilona Radkowska and Piotr Bragiel

<b>Faculty of Physics, 2nd Floor</b>	
18:30-19:30	<b>Coffee Break and TCP+API Poster Session</b>

<b>Flora Restaurant</b>	
20:00-23:00	<b>Conference Banquet</b>

<b>Saturday, 28th of May 2016</b>		
<b>A01</b>		
<b>Plenary Session 3</b>		
<i>Chairman: Viorel Pop</i>		
09:00-09:30	<b>PL-07</b>	SEMI-SEMICLASSICAL THEORY OF QUANTUM QUENCHES IN ONE DIMENSIONAL SYSTEMS <b><u>Pascu Catalin Moca</u></b> , Kormos Marton and Zarand Gergely
09:30-10:00	<b>PL-08</b>	DEVELOPMENT OF MgB2 FOR DIFFERENT APPLICATIONS AT NATIONAL INSTITUTE OF MATERIALS PHYSICS <b><u>Petre Badica</u></b>
10:00-10:30	<b>PL-09</b>	N-TYPE SILICON SOLAR CELLS: FROM CONCEPTS TO INDUSTRIAL APPLICATIONS <b><u>Valentin Mihailetschi</u></b> , Haifeng Chu, Giuseppe Galbiati, Andreas Halm and Radovan Kopecek

<b>Faculty of Physics, 2nd Floor</b>	
10:30-11:30	<b>Coffee Break and CMP Poster Session</b>

**F206****TCP Session 3 - COMISIS STAR PROGRAM***Chairman: Cosmin Crucean*

11:00-11:30	<b>TC-I05</b>	COSMOLOGICAL ASPECTS OF NONLOCAL MODIFIED GRAVITY [ <i>invited</i> ] <b><u>Branko Dragovich</u></b>
11:30-12:00	<b>TC-I06</b>	RIEMANN-HILBERT PROBLEMS AND NEW TYPES OF NLS EQUATIONS [ <i>invited</i> ] <b><u>Vladimir Gerdjikov</u></b>
12:00-12:15	TC-O11	ON THE USE OF MAPLE PLATFORM FOR THE STUDY OF GEODESIC MOTION OF PARTICLES AROUND MASSIVE ASTRONOMICAL OBJECTS <b><u>Dumitru N. Vulcanov</u></b>
12:15-12:30	TC-O12	KELVIN-HELMHOLTZ INSTABILITY IN THE SOLAR PARTIALLY IONIZED PLASMA STRUCTURES <b><u>Alexandru Marcu</u></b> , Bogdan Danila and Gabriela Mocanu
12:30-12:45	TC-O13	TACHYON INFLATION AND THE RSII MODEL Milan Milosevic, <b><u>Goran S. Djordjevic</u></b> , Dragoljub D. Dimitrijevic and Marko Stojanovic
12:45-13:00	TC-O14	RIGIDLY ROTATING MAXWELL-JÜTTNER STATES ON SPHERICALLY SYMMETRIC SPACE-TIMES USING THE TETRAD FORMALISM <b><u>Victor Eugen Ambruş</u></b> and Ion Cotaescu
13:00-13:15	TC-O15	LATTICE BOLTZMANN SIMULATION OF DROPLET FORMATION IN T-JUNCTION GEOMETRIES <b><u>Sergiu Busuioc</u></b> , Victor E. Ambruş and Victor Sofonea
13:15-13:30	TC-O16	QUADRATURE-BASED LATTICE BOLTZMANN MODEL FOR SIMULATING RELATIVISTIC FLOWS <b><u>Robert Blaga</u></b> and Victor E. Ambruş
13:30-13:45	TC-O17	RADIATION EMITTED BY A CHARGED PARTICLE UNDERGOING BROWNIAN MOTION IN A MAGNETIC FIELD <b><u>Gabriela Raluca Mocanu</u></b> , Alexandru Marcu
13:45-14:00	TC-O18	ANOMALOUS DISPERSION IN LITHIUM NIOBATE ONE-DIMENSIONAL WAVEGUIDE ARRAY AT TELECOM WAVELENGTH <b><u>Alin Marian Apetrei</u></b> , Alicia Petronela Rambu and Sorin Tascu

### TCP POSTERS

TC-P01	NUMERICAL SIMULATION OF LASER ION ACCELERATION AT ULTRA HIGH INTENSITY Dragos Tatomirescu, Alexandra Popescu, Gabriel Pascu and Daniel Vizman
TC-P02	ALPHA AND SPONTANEOUS FISSION DECAY PROPERTIES OF NUCLEI WITH $104 < Z < 112$ AND $158 < N < 166$ Claudia-Ioana Anghel and Andrei Octavian Silisteanu
TC-P03	UPDATED EMPIRICAL ESTIMATIONS OF $\alpha$ DECAY HALF LIVES FOR SUPERHEAVY NUCLEI Andreea Ioana Budaca, Radu Budaca and Ion Silisteanu
TC-P04	A GENERAL SOLUTION OF THE DIRAC EQUATION WITH SUPERPOSITION OF $d$ -POTENTIALS Siarhei Fialka and Valery Kapshai
TC-P05	FERMION PRODUCTION IN A MAGNETIC FIELD IN A DE SITTER UNIVERSE [ <i>within COMISIS project</i> ] Cosmin Crucean and Mihaela-Andreea Baloi
TC-P06	PRODUCTION OF SCALAR PARTICLES IN DE SITTER SPACETIME [ <i>within COMISIS project</i> ] Cosmin Crucean and Mihaela-Andreea Baloi
TC-P07	REACTIVE COLLISIONS OF ELECTRONS WITH MOLECULAR CATIONS: APPLICATION TO $H_2^+$ , $BeH^+$ , $BF^+$ Nicolina Pop, Zsolt Mezei, Ousmanou Motapon, Sebastien Niyonzima, Kalyan Chakrabarti, Florian Colboc, Simona Ilie, Remus Boata, Michel D. Epée Epée and Ioan F. Schneider
TC-P08	SCALAR PAIR PRODUCTION IN A DIPOLAR ELECTRIC FIELD Alin-Nicolae Chilom
TC-P09	DOUBLE SLIT EXPERIMENT EXPLAINED BY DOPPLER EFFECT Mugur B. Răuț
TC-P10	2D CELLULAR AUTOMATON MODEL OF A MAGNETIC FLUX TUBE WITH BACKGROUND FLOW. APPLICATIONS ON GRB AFTERGLOWS [ <i>within COMISIS project</i> ] Bogdan Danila, Alexandru Marcu and Gabriela Mocanu

### API Posters

AI-P01	PERFORMANCE ASSESSMENT OF A DIRECT-COUPLED PV WATER PUMPING SYSTEM Ciprian Balaj, Teodor Eugen Man and Marius Paulescu
AI-P02	APPARENT DIFFUSION COEFFICIENT OF THE NORMAL HUMAN BRAIN FOR VARIOUS EXPERIMENTAL CONDITIONS Luminita Moraru and Lucian Dimitrievici
AI-P03	RETINAL VESSEL ENHANCEMENT BASED ON GAUSSIAN FUNCTION Cristian Dragos Obreja and Luminita Moraru
AI-P04	ELECTRO-OXIDATION OF ASCORBIC ACID BY Mn(III)PORPHYRIN-SILICA HYBRID FILM PREPARED BY PULSED LASER DEPOSITION Iuliana Sebarchievici, Eugenia Fagadar-Cosma, Bogdan-Ovidiu Taranu, Mihaela Birdeanu, Stefania Florina Rus, Ioan Taranu and Anca Lascu
AI-P05	SHAPE ANISOTROPIC BI-MAGNETIC NANOPARTICLES FOR APPLICATION IN HYPERTHERMIA Valentin Nica, Mohamed Hammad, Maria Lucia Garcia Martin and Rolf Hempelmann
AI-P06	SYNTHESIS AND TOXICOLOGICAL ACTIVITY OF 5-NITROINDAZOLE SULFONAMIDES DERIVATIVES AS POTENTIAL ANTIMICROBIAL AGENTS. OPTIMIZATION OF THE SYNTHESIS Corina Cheptea, Andreea Celia Benchea, Marius Gaina, Marin Zagnat, Madalina Postaru, Gabriela Gladiola Andrusac, Dana Ortansa Dorohoi, Valeriu Sunel and Anca Irina Galaction
AI-P07	INTEGRATED OPTICAL INVESTIGATION OF THE PHOTOACTIVE YELLOW PROTEIN Szilvia Krekic, László Fábíán, Rudolf Tóth-Boconádi, Ágnes Bálint, Stefka Taneva and András Dér
AI-P08	MAGNETIC HYPERTHERMIA WITH LOW CURIE TEMPERATURE PARTICLES Iordana Astefanoaei, Horia Chiriac and Alexandru Stancu
AI-P09	LASER HEATING OF THE CORE-SHELL NANOWIRES Iordana Astefanoaei, Ioan Dumitru and Alexandru Stancu

AI-P10	ANALYSIS OF AIRBORNE PARTICULATE MATTER POLLUTION IN TIMISOARA CITY URBAN AREA AND CORRELATIONS BETWEEN MEASUREMENTS AND METEOROLOGICAL DATA Mihai Lungu, Antoanetta Lungu, Nicoleta Stefu, Adrian Neculae and Nicolae Strambeanu
AI-P11	STUDY REGARDING POSSIBLE CORRELATIONS BETWEEN SYNOVIAL FLUID PROPERTIES AND FEMORAL HEAD AVASCULAR NECROSIS Jenel Marian Patrascu, Bogdan Andor, Iosif Malaescu, Antoanetta Lungu, Alina Zamfir, Adrian Robu and Mihai Lungu
AI-P12	THE INFLUENCE OF NITROGEN DOPING ON THE PHASE CHANGE BEHAVIOR Ge <sub>1</sub> Sb <sub>2</sub> Te <sub>4</sub> Mariana Osiac and Vasile Tiron
AI-P13	THE UNDOPED AND Ti DOPED Ge <sub>1</sub> Sb <sub>2</sub> Te <sub>4</sub> THIN FILMS PREPARED BY PULSED LASER DEPOSITION Mariana Osiac, Maria Jigau, Gabriela Eugenia Iacobescu and Nicoleta Cioatera
AI-P14	BROADBAND ABSORBING PROPERTIES OF SOME SILICONE COMPOSITE MEMBRANES Iosif Malaescu, Ioan Bica, Laurentiu Iordaconiu, Catalin N. Marin and Paul C. Fannin
AI-P15	THE SPECIFIC ABSORPTION RATE (SAR) OF FERROFLUIDS Iosif Malaescu, Catalin N. Marin and Paul C. Fannin
AI-P16	AUTOMATED ENVIRONMENT CONTROL USING A MULTI-AGENT SYSTEM FOR RADIOPHARMACEUTICALS PRODUCTION Andrei Octavian Silisteanu, Claudia Ioana Anghel and Filip Daniel Puicea
AI-P17	STUDY OF SOME PHYSICAL PROPERTIES OF ALUMINUM OR COPPER DOPED NaTaO <sub>3</sub> POWDER SAMPLES Dan Malaescu, Paula Sfirloaga, Paul Barvinschi, Paulina Vlazan, Catalin N. Marin and Iosif Malaescu
AI-P18	IMPROVING ORTHOPHOTOPLANS AND PATTERNS CONSTRUCT OF LAND BY USING AERIAL PHOTOGRAPHS CAPTURED USING. CASE STUDY - FOREST GARBOAVELE Gabriel Murariu, Valentin Hahuie, Lucian Georgescu, Maxim Arseni and Adrian Gabriel Murariu
AI-P19	INVESTIGATION ON SATELLITAR AND UAV CADASTRAL RESULTS. CASE STUDY - GALATI COUNTY FOREST AREAS Gabriel Murariu, Valentin Hahuie, Lucian Georgescu, Maxim Arseni and Adrian Gabriel Murariu

AI-P20	STUDY ON SPECIFIC ORBITAL RESONANT SYSTEMS. STUDY ON THE PROBLEM OF 3 BODIES Gabriel Murariu, Adrian Murariu and Adrian Dinescu
AI-P21	STUDY ON THE INFLUENCE OF ATMOSHERIC PARAMETERS ON THE ACCURACY OF THE GEODETIC MEASUREMENTS Gabriel Murariu, Valentin Hahuie, Lucian Georgescu, Maxim Arseni and Adrian Gabriel Murariu
AI-P22	PRELIMINARY STATISTICAL ANALYSES OF DRILLED WATER WELL IN GALATI COUNTY Gabriel Murariu, Mihaela Timofti, Lucian Georgescu, Paula Popa and Ionelia Savinuta
AI-P23	TEAR FERNING TEST AND PH OF THE TEARS AT CELL PHONE USERS Aurora Gajta, Daniela Turkoanje, Alecsandra Triplica, Iosif Malaescu, Catalin Marin, Marie Jeanne Koos and Calin Muntean
AI-P24	THE INFLUENCE OF Mn IONS DOPPING ON THE STRUCTURE OF CaO-Na <sub>2</sub> O-SiO <sub>2</sub> -B <sub>2</sub> O <sub>3</sub> -P <sub>2</sub> O <sub>5</sub> GLASSES Paweł Ficek, Piotr Brągiel and Veeraiah Nalluri
AI-P25	EXPERIMENTAL STUDY OF PROTON IRRADIATION EFFECT ON SILICON SOLAR CELLS Marius Paulescu, Daniel Vizman, Mihaela Lascu, Radu Negrița and Marius Ștef
AI-P26	PLASTICIZERS EFFECT ON NATIVE BIODEGRADABLE PACKAGE MATERIALS O. Cozar, N. Cioica, C. Coța, E. M. Nagy and R. Fechet
AI-P27	COMPARATIVE CHARACTERIZATION OF BASIL, MINT AND SAGE Ramona Bleiziffer, Cornelia Mesaros, Sonia Suvar, Paula Podea, Andreea Iordache, Diana Yudin, Monica Culea



### CMP Posters

CM-P01	INFLUENCE OF TITANIUM DIOXIDE LOADING ON ACTIVATED CARBON FOR ADVANCED DRINKING WATER Corina Orha, Cornelia Bandas, Carmen Lazau and Florica Manea
CM-P02	CHARACTERIZATION OF METALLOPORPHYRINS BEARING DIVALENT METAL IONS USING ELECTRON BEAM - BASED ANALYTIC TECHNIQUES Bogdan-Ovidiu Țăranu, Eugenia Făgădar-Cosma, Iuliana Sebarchievici, Petrică-Andrei Linul, Paula Sfirloagă and Ioan Țăranu
CM-P03	OPTICAL STUDY OF Yb <sup>3+</sup> /Yb <sup>2+</sup> CHARGE CONVERSION IN THE AS-GROWN YbF <sub>3</sub> -DOPED CaF <sub>2</sub> CRYSTALS Marius Stef, Irina Nicoara, Larisa Rosu, Adelina Simon, Andrei Racu, Mircea Corcodel, Florina Cirlan and Madalin Bunoiu
CM-P04	LUMINESCENCE CONCENTRATION QUENCHING OF 4S <sub>3/2</sub> STATE IN Y <sub>2</sub> -xEr <sub>x</sub> O <sub>3</sub> MICROTUBES Andrei Racu, Cosmin Pascariu, Zoltan Szabadai, Alexandru Micu, Olga Kuliukova and Marius Stef
CM-P05	OBTAINING AND CHARACTERIZATION OF Zn <sub>3</sub> V <sub>2</sub> O <sub>8</sub> and Mg <sub>3</sub> V <sub>2</sub> O <sub>8</sub> PSEUDO BINARY OXIDE NANOMATERIALS BY HYDROTHERMAL METHOD Mihaela Birdeanu, Mirela Vaida, Daniel Ursu and Eugenia Fagadar-Cosma
CM-P06	IN SITU GROWTH OF TiO <sub>2</sub> NANORODS THIN FILM BY HYDROTHERMAL METHOD Daniel Ursu, Ana-Maria Dabici and Marinela Miclau
CM-P07	TITANIUM DIOXIDE THIN FILMS BY PULSED LASER DEPOSITION FOR SENSING APPLICATION Cornelia Bandas, Carmen Lazau, Corina Orha, Daniel Ursu, Stefania Rus, Ileana Cernica and Florica Manea
CM-P08	METHODS FOR DETERMINING THE LINEAR BIREFRINGENCE OF SOME INORGANIC UNIAX CRYSTALS Adina Elena Scripa (Tudose), Irina Dumitrascu, Leonas Dumitrascu and Dana Ortansa Dorohoi
CM-P09	EXCITED STATE MOLECULAR POLARIZABILITY ESTIMATED BY SOLVATOCHROMIC MEANS Andreea Celia Benchea, Daniela Babusca, Ana Cezarina Morosanu, Dan Gheorghe Dimitriu and Dana Ortansa Dorohoi

CM-P10	SOLVENT EMPIRICAL SCALES AND THEIR IMPORTANCE FOR THE STUDY OF INTERMOLECULAR INTERACTIONS Daniela Babusca, Andreea Celia Benchea, Ana Cezarina Morosanu, Dan Gheorghe Dimitriu and Dana Ortansa Dorohoi
CM-P11	SPECTRAL AND QUANTUM-MECHANICAL CHARACTERIZATION OF 7-AMINO-4-TRIFLUOROMETHYL COUMARIN Andreea Celia Benchea, Marius Gaina and Dana Ortansa Dorohoi
CM-P12	STRUCTURAL AND CATALYTIC PROPERTIES OF Sc DOPED Ni-Co NANOFERRITE APPLIED IN COMBUSTION OF Pb-FREE GASOLINE VAPORS Corneliu Doroftei, Paul Dorin Popa, Elena Rezlescu and Nicolae Rezlescu
CM-P13	CATALYTIC PROPERTIES OF NANOCRYSTALLINE La <sub>0.6</sub> Pb <sub>0.2</sub> Mg <sub>0.2</sub> MnO <sub>3</sub> PEROVSKITE AND MgFe <sub>2</sub> O <sub>4</sub> SPINEL FERRITE PREPARED BY A NEW METHOD Nicolae Rezlescu, Elena Rezlescu, Paul Dorin Popa and Corneliu Doroftei
CM-P14	CHARACTERIZATION AND GAS SENSING PROPERTIES OF SOME SPINEL-TYPE OXIDE SEMICONDUCTORS Corneliu Doroftei, Liviu Leontie, Oana Șușu and Aurelian Carlescu
CM-P15	LORENTZ DISPERSION MODEL OF COBALT DOPED COMPOUNDS Petya Petkova, Petko Vasilev and Veneta Chobanova
CM-P16	SYNTHESIS AND CHARACTERIZATION OF BISMUTH DOPED SODIUM TITANATE Paulina Vlazan, Maria Poienar, Daniel Ursu, Mihaela Birdeanu and Paula Sfirloaga
CM-P17	THE INFLUENCE OF HEAT TREATMENT ON MORPHO-STRUCTURAL PROPERTIES OF ABO <sub>3</sub> MATERIALS Paula Sfirloaga, Maria Poienar and Paulina Vlazan
CM-P18	OBTAINING OF 3D NANOSTRUCTURED $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> / Ag NANOSHEETS ENSEMBLES Marius Chirita, Mihaela Luminita Kiss, Adrian Ieta and Radu Banica
CM-P19	SOLVOTHERMAL SYNTHESIS OF Ag-In NANOSTRUCTURES Radu Banica, Cristina Mosoarca, Petrica A. Linul, Marius Chirita, Terezia Nyari and Nicolae Vaszilcsin

CM-P20	STUDY OF CREDNERITE $\text{CuMnO}_2$ TYPE MATERIALS: HYDROTHERMAL SYNTHESIS, STRUCTURAL AND MAGNETIC PROPERTIES Maria Poienar, Paula Sfirloaga and Paulina Vlazan
CM-P21	OPTIMIZATION OF TRANSPARENT ELECTRODES BASED ON SILVER NANOWIRES Petrica-Andrei Linul, Radu Banica, Daniel Ursu, Cristina Mosoarca, Paula Svera and Nicolae Vaszilcsin
CM-P22	ANALYSIS OF THE CORRELATIONS BETWEEN $\text{NO}_2$ COLUMN, $\text{O}_3$ COLUMN AND UV RADIATION AT GLOBAL LEVEL USING SPACE OBSERVATIONS Lucian Dimitrievici, Daniel Constantin and Luminita Moraru
CM-P23	MICROWAVE ASSISTED HYDROTHERMAL SYNTHESIS OF $\text{FeCO}_3$ Cristina Mosoarca, Radu Banica, Petrica-Andrei Linul, Paula Svera and Marius Chirita
CM-P24	CHANGES IN THE MAGNETIC SUSCEPTIBILITY SPECTRUM OF FERROFLUIDS BY MAGNETIC SHAKING Catalin Nicolae Marin, Paul C. Fannin, Iosif Malaescu, Kuldip Raj and Gabriel Turi
CM-P25	CONTROL OF $\text{SnO}_2$ FILMS BY EPITAXY AND HELIUM IMPLANTATION Stefania Florina Rus and Andreas Herklotz
CM-P26	SEMI-EMPIRICAL AND "AB INITIO" ANALYSIS OF MOLECULAR AND CRYSTAL STRUCTURE OF BETULINIC ACID Roman Roxana, Laura Andreici, Mirela Nicolov, Zoltan Szabadai and Nicolae Avram
CM-P27	AB INITIO MODEL POTENTIAL EMBEDDED CLUSTER AND DFT STUDIES ON $\text{MgO}:\text{M}^{2+}$ ( $\text{M} = \text{V}, \text{Mn}, \text{Co}, \text{Ni}$ ) Laura Andreici, Vladimir Chernyshev and Nicolae Avram
CM-P28	INFLUENCE OF RE IONS ON THE STRUCTURE, MORPHOLOGICAL AND OPTICAL PROPERTIES OF AZO THIN FILMS M. Toma, D. Marconi, M. Pop, C. Lung and A. Pop
CM-P29	STUDY OF MAGNETIC RESPONSE OF SEGMENTED $\text{Cu/Ni}$ NANOWIRES A. Radu, S. Iftimie, L. Ion, S. Antohe and D. Dragoman
CM-P30	PROPERTIES OF PAPERS WITH EMBEDDED MULTICORE-SHELL $\text{Fe}_3\text{O}_4\text{-SiO}_2$ MAGNETIC NANOCOMPOSITES Dan Buteica, Istvan Borbath, Ionel Valentin Nicolae, Rodica Turcu, Oana Marinica and Vlad Socoliuc

***Please make sure you arrive in time to put your poster up before the sessions begin.***

Friday, 27th of May 2016

F103

**TIM 15-16 Physics Conference Workshop**

***Present and perspectives in airborne particulate matter pollution in city of Timisoara. Causes and potential hazards to human health and environment. Policies and strategies on air pollution control and prevention***

*Chairman: Mihai Lungu*

13:30-14:00	Workshop participants registration	
14:00-14:10	Presentation of the project <b>PN-II-ID-PCE-2011-3-0762</b> <b><i>Reduction of nanoparticle emissions by the optimization of residual combustion gases filtering processes</i></b>	
14:10-14:30	<b>WP-001</b>	PARTICULATE MATTER DISPERSION IN TIMISOARA URBAN AREA Mihai Lungu, <b><u>Nicoleta Stefu</u></b> , Antoanetta Lungu, Adrian Neculae, Nicolae Strâmbeanu, Daniel Arghiriade
14:30-14:50	<b>WP-002</b>	FROM THEORY TO PRACTICE CONCERNING AIR QUALITY MONITORING <b><u>Ioana Ionel</u></b> , Daniel Bisorca, Delia Gabriela Calinoiu, Ramon Mihai Balogh
14:50-15:10	<b>WP-003</b>	TUMOR CELLS DEATH INDUCED BY MAGNETITE NANOPARTICLES – IN VITRO STUDY <b><u>Bojin Florina</u></b> , Ivan Alexandra, Cristea Mirabela, Taculescu Alina, Gavriliuc Oana, Tanasie Gabriela, Panaitescu Carmen, Tatu Calin, Paunescu Virgil
15:10-15:30	<b>WP-004</b>	METHODS USEFUL IN BIOMONITORING URBAN HABITAT QUALITY <b><u>Nicoleta Ianovici</u></b>
15:30-16:00	Coffee break	
16:00-16:20	<b>WP-005</b>	PHYTOSTABILIZATION OF SLAG AND ASH PITS THROUGH COVER CROPS Smaranda Mășu, Valeria Nicorescu
16:20-16:40	<b>WP-006</b>	RECOVERY OF COPPER FROM WASTE COMPLEX CATALYST USED IN COSORB PLANTS <b><u>A.M. Pană</u></b> , L. Cseh, C. Crețu, E. Szerb, L. Demetrovici, N. Strimbeanu, L. Andres, G. Simu, O. Costișor

16:40-17:00	<b>WP-O07</b>	THE EVACUATION OF SLAG AND ASH DENSE SLURRY TECHNOLOGY. ECONOMICAL AND ECOLOGICAL SOLUTION FOR MANAGEMENT OF SOLID WASTE FROM POWER PLANTS POWERED BY COAL Laurențiu Florin Maier, Nistor Eugen Bujdei, Dumitru Gârdan, Mihai Muntean
17:00-17:20	<b>WP-O08</b>	PROBABLE MECHANISMS OF ACID RAIN GENERATION THROUGH NANOPARTICLES Nicolae Strâmbeanu, Laurențiu Demetrovici, Daniela Gherebeanu, Bianca Bumbu
17:20-17:40	<b>WP-O09</b>	P84 BAGHOUSE EFFICIENCY TEST RIG <u>Melinda Bagiu</u>