

Conference PROGRAM

Advanced Spectroscopies on Biomedical and Nanostructured Systems

Sunday, 04.09.2011

17.00	Registration	<i>Hotel Universitas</i>
19.00	Get-together party	<i>Hotel Universitas</i>

Monday, 05.09.2011

8.00-9.00	Registration	<i>Department of Physics, Hall</i>
9.00-9.30	Opening Ceremony	<i>Aula Magna</i>
9.30-10.30	POROSOME: THE UNIVERSAL SECRETORY PORTAL	Bhanu Jena
10.30-11.00	Coffee break	
	Plenary lectures <i>Chairman: Dietrich R.T. Zahn</i>	<i>Augustin Maior lecture hall</i>
11.00-11.30	FUTURE TRENDS AND CHALLENGES OF RAMAN SPECTROSCOPY IN BIOMEDICAL RESEARCH	Jürgen Popp
11.35-12.05	NANODIAGNOSTICS WITH SURFACE-ENHANCED RAMAN SCATTERING	Sebastian Schlücker
12.10-12.30	SPECIAL EVENT	
13.00-15.00	Lunch	<i>Pyramid restaurant</i>
15.00-16.00	Poster session, Biomedical Applications	<i>Department of Physics, Hall</i>
	Plenary lectures <i>Chairman: Jürgen Popp</i>	<i>Augustin Maior lecture hall</i>
16.00-16.30	EMERGING APPLICATIONS OF RAMAN IMAGING AND FEMTOSECOND SPECTROSCOPY IN HUMAN BREAST CANCER DIAGNOSTICS	Halina Abramczyk
16.35-17.05	RAMAN MICRO-SPECTROSCOPY FOR BIOMEDICAL APPLICATIONS: FROM BIO-	Ioan Notingher

	NANOMATERIALS TO IMAGING LIVE CELLS AND TISSUE	
17.10-17.25	Coffee break	<i>Department of Physics, Hall</i>
	Plenary lectures <i>Chairman: Heinz-Jürgen Steinhoff</i>	<i>Augustin Maior lecture hall</i>
17.25-17.55	AMPHIPHILIC LIPID- CONJUGATES - SYNTHESIS, CHARACTERISATION AND BIOPHYSICAL-MEDICAL APPLICATIONS	Jürgen Liebscher
18.00-18.30	X-RAY CRYSTAL STRUCTURE AND DYNAMICS REVEAL HIV-1 PROTEASE DRUG INTERACTIONS	Ladislau C. Kovari
18.35-19.35	Post-poster discussions	<i>Augustin Maior lecture hall</i>
20.00	Dinner	<i>Belvedere Restaurant</i>

Tuesday, 06.09.2011

	<i>Plenary lectures Chairman: Sergii Afonin</i>	<i>Augustin Maior lecture hall</i>
9.00-9.30	SOLID-STATE NMR OF ORGANIC-INORGANIC HYBRID MATERIALS	Marco Geppi
9.35-10.05	NEW INSIGHTS INTO CRYSTAL STRUCTURE PREDICTION: COMBINING FIRST-PRINCIPLES CALCULATIONS WITH SOLID- STATE NMR EXPERIMENTS	Maria Baias
10.10-10.45	TOWARDS A NEW MODEL OF CRYSTAL DISSOLUTION KINETICS: INTERFEROMETRY MEASUREMENTS AND KINETIC MONTE CARLO SIMULATIONS	Andreas Luttge
10.45-11.15	Coffee break	<i>Department of Physics, Hall</i>
	Plenary lectures <i>Chairman: Gradimir Misevic</i>	<i>Augustin Maior lecture hall</i>

11.15-11.45	GENETIC LABELING AND MANIPULATION OF VISUAL CIRCUITS INVOLVING RETINAL GANGLION CELL TYPES	Tudor Constantin Badea
11.50-12.20	SITE-DIRECTED SPIN LABELING EPR REVEALS STRUCTURE AND DYNAMICS OF MEMBRANE PROTEIN COMPLEXES	Heinz-Jürgen Steinhoff
12.25-12.55	COMPUTATION INFORMED SELECTION OF PARAMETERS FOR PROTEIN RADICAL EPR SPECTRA SIMULATION	Dimitri Svistunenکو
13.00-15.00	<i>Lunch</i>	<i>Pyramid restaurant</i>
15.00-16.00	<i>Poster session, Advanced and Nanostructured Materials</i>	<i>Department of Physics, Hall</i>
	Oral presentations: <i>Chairman: Marco Geppi</i>	<i>Augustin Maior lecture hall</i>
16.00-16.15	INSIDE COMPLEX SOL-GEL NANOCOMPOSITES: A DETAILED INVESTIGATION OF ORGANIC-INORGANIC HYBRID COATINGS THROUGH SOLID-STATE NMR	Silvia Borsacchi
16.20-16.35	SPECTRAL CALCULATIONS WITH THE LOCAL MODE MODEL	Zimei Rong
16.40-16.55	MORPHOLOGY DEPENDENCE OF RAMAN PROPERTIES OF CARBON NANOTUBE LAYERS FORMED ON NANOSTRUCTURED FILMS	Heng Li
17.00-17.15	NON-COVALENT INTERACTION BETWEEN CARBON NANOTUBES AND ANTHRACENE-BASED MOLECULAR TWEEZERS	Beáta Peles-Lemli
17.20-17.35	THE INFLUENCE OF TEMPERATURE, pH AND CATION CONCENTRATIONS ON	Zsuzsanna Czibulya

	THE COLOR OF RED WINES	
17.35-17.50	Coffee break and poster session	<i>Department of Physics, Hall</i>
17.50-18.50	Post-poster discussions	<i>Augustin Maior lecture hall</i>
20.00	Conference dinner	

Wednesday 07.09.2011

	<i>Plenary lectures Chairman: Sebastian Schlücker</i>	<i>Augustin Maior lecture hall</i>
9.00-9.30	STAND-OFF RAMAN SPECTROSCOPY	Bernhard Lendl
9.35-10.05	METAL/SEMICONDUCTOR INTERFACES AND THE SURFACE ENHANCED RAMAN SCATTERING EFFECT	Dietrich R.T. Zahn
10.10-10.40	"GETTIN' THE BLUES": SPECTRO-ELECTROCHEMISTRY OF A YELLOW LACCASE.	Hendrik A. Heering
10.45-11.15	Coffee break	<i>Department of Physics, Hall</i>
	<i>Plenary lectures Chairman: Bernhard Lendl</i>	<i>Augustin Maior lecture hall</i>
11.15-11.45	¹⁹ F SOLID-STATE NMR FOR STRUCTURE ANALYSIS OF MEMBRANE-ACTIVE PEPTIDES	S. Afonin
11.50-12.20	NEW APPROACHES IN NANOSCIENCES	Gradimir N. Misevic
12.25-12.45	Closing ceremony	
12.30-15.00	Lunch	<i>Pyramid restaurant</i>
16.00-18.00	<i>Sattellite Workshop: Biofunctionalized Nanoparticles for developing new methods for imaging, detection, diagnostic and molecular therapy in biological media (PCCE ID_129/2008)</i>	<i>Institute for Interdisciplinary Research on Bio-Nano-Sciences</i>

Poster session on Monday 05.09.2011 – Biomedical Applications

PB1	NATURAL PRODUCTS WITH ANTICANCER ACTIVITY CHARACTERISED BY SPECTROSCOPIC TECHNIQUES	<u>M. Aluas</u> , S. Pinzaru, C. Dehelean, C. Soica, A. Falamas, S. Simon
PB2	RAMAN ANALYSIS OF THE HEMATOXILIN – EOSIN STAINED TISSUE FROM PATIENTS WITH ADENOCARCINOMA	<u>L.M. Andronie</u> , N. Peica, I. Domsa, S. Cîntă Pînzaru
PB3	SOL-GEL PREPARED BIOACTIVE GLASS FOR ADMINISTRATION OF ANTIBACTERIAL AGENTS	<u>Z. Benyey</u> , E. Vanea, S. Cavalu, V. Simon
PB4	DIRECT SPECTROSCOPIC DETECTION OF DAMAGE ON RED BLOOD CELLS EXPOSED TO CISPLATIN	<u>C. Bischin</u> , G. Contra, G. Damian, R. Silaghi-Dumitrescu
PB5	POLYMER-COATED MULTIFUNCTIONAL NANOPARTICLES FOR INVESTIGATION IN BIOLOGICAL MEDIA	<u>S. Boca</u> , M. Potara, C. Farcau, S. Astilean
PB6	STUDY OF HYDROXYL RADICAL AT LOW AND HIGH FIELD EPR	<u>L. Bolojan</u> , H.-J. Steinhoff, G. Damian
PB7	STRUCTURAL ANALYSIS OF NEW PHENOTHIAZINYL PORPHYRINS	<u>B. Brém</u> , E. Gál, T. Lovász, L. Găină, L. Silaghi-Dumitrescu
PB8	SPECTROSCOPIC EVIDENCE OF COLLAGEN ELECTRODEPOSITION ON ACRYLIC BONE CEMENT	<u>S. Cavalu</u> , V. Simon, F. Banica, I. Oswald, E. Vanea, I. Akin, G. Goller
PB9	THE SHORT-RANGE STRUCTURE AND <i>IN VITRO</i> BEHAVIOR OF ZnO-CaO-P ₂ O ₅ BIOGLASSES	<u>R. Ciceo Lucacel</u> , V. Simon
PB10	EPR INVESTIGATIONS OF GAMMA IRRADIATED METFORMIN	<u>G. Damian</u> , Laura Bolojan, V. Miclaus, I.M. Takacs, I. Csillag
PB11	CHARACTERIZATION OF HEMOGLOBIN ALBUMIN COPOLYMERS WITH POTENTIAL APPLICATIONS AS BLOOD SUBSTITUTES	<u>F. Deac</u> , B. Iacob, O. Zolog, E. Fischer-Fodor, S. Astilean, G. Damian, R. Silaghi-Dumitrescu
PB12	SPECTROSCOPIC INVESTIGATION OF ANTI-BACTERIAL AGENTS ACTIVITY	<u>V. Erukhimovitch</u> , I. Mukmanov, M. Huleihel
PB13	CHEMICAL ANTI-CANCER DRUG VERSUS NATURAL COMPOUNDS: CHEMOTHERAPEUTIC EFFECTS AND DNA-TAGGING STUDIED BY SERS SPECTROSCOPY	<u>A. Falamaş</u> , D. Rugină-Preda, V. Chiş, S. Cîntă Pînzaru
PB14	NEW PHENOTHIAZINYL-PORPHYRINE AND SPECTROSCOPIC STUDIES	<u>E. Gál</u> , B. Brém, L. Găină, L. Silaghi-Dumitrescu
PB15	STUDY OF DYNAMIC PROPERTIES OF IBUPROFEN, ACID AND SODIUM SALT: A COMBINED SOLID-STATE NMR ANALYSIS FROM SPECTRAL FEATURES AND RELAXATION TIMES MEASUREMENTS	E. Carignani, S. Borsacchi, <u>M. Geppi</u>
PB16	PROTEIN ADSORPTION ON BIOACTIVE GLASSES, STUDIED BY EPR AND FTIR SPECTROSCOPY	<u>C. Gruian</u> , J.P. Klare, S. Boehme, H.-J. Steinhoff, S. Simon
PB17	CYCLODEXTRINS AND SMALL UNILAMELLAR LIPOSOMES: A COMPARATIVE THEORETICAL APPROACH	<u>N.G. Hădărugă</u> , D.I. Hădărugă, Z. Gârban
PB18	SYNTHESIS, STRUCTURAL CHARACTERIZATION AND NUCLEASE ACTIVITY OF COPPER(II) COMPLEXES WITH N-SUBSTITUTED SULFONAMIDES	<u>A.C. Hangan</u> , M. Hubner, D. Mare, C. Berindean, J. Borrás, L. David

PB19	COMPUTATIONAL INVESTIGATION OF PUTATIVE SECONDARY STRUCTURE ELEMENTS IN POLYLACTIC ACID, AND OF SPECTROSCOPIC PARAMETERS THEREOF	<u>I. Irsai</u> , Zs.-A. Kun, C. Majdik, R. Silaghi-Dumitrescu
PB20	AFM INVESTIGATION OF MORPHOLOGICAL CHANGES TO <i>STAPHYLOCOCCUS AUREUS</i> SURFACE INDUCED BY AgNO ₃ AND OXACILLIN ADDITION	<u>E. Jakab</u> , O. Ponta, A. Tunyagi, S. Simon
PB21	ANALYSES ON HUMAN MEDIEVAL BONES AND TEETH FROM THREE BURIAL GROUNDS BY SPECTROSCOPIC MEANS	<u>B. Kelemen</u> , O. Ponta, D. Roman, D. Marcu-Istrate, C. Dobrinescu, I. Lupan, O. Popescu
PB22	PROTEIN FUNCTIONALIZATION OF A NANO-STRUCTURED SiO ₂ -CaO-Na ₂ O-P ₂ O ₅ SYSTEM	<u>E. Laszloffi</u> , I.P. Fodor, V. Simon
PB23	ANNATTO DETECTION IN FOOD PRODUCTS USING SURFACE ENHANCED RAMAN SPECTROSCOPY (SERS)	<u>C. Lehene</u> , O. Cozar, S. Cinta Pinzaru
PB24	SURFACE ENHANCED RAMAN SPECTROSCOPY (SERS) ANALYSIS OF UREA TRACE IN FINGERPRINT, TEAR AND URINE SAMPLES	<u>C. Leordean</u> , V. Canpean, S. Astilean
PB25	INVESTIGATIONS OF PROTEIN-FUNCTIONALIZED BIOGLASSES BY FTIR SPECTROSCOPY	<u>K. Magyari</u> , L. Baia, H. Mocuta, O. Popescu, V. Simon
PB26	SYNTHESIS AND ANTIBACTERIAL ACTIVITY OF POLYMER-COATED SILVER NANO-PARTICLES	<u>B. Marta</u> , E. Jakab, M. Potara, O. Popescu, S. Astilean
PB27	COMPUTATIONAL INSIGHT INTO AN UNUSUAL CLASS OF COPPER CENTERS IN LACCASE ENZYMES	<u>Cs. Matyas</u> , A. Mot, G. Damian, Cristina Miron, H.A. Heering, R. Silaghi-Dumitrescu
PB28	SPECTROSCOPIC INSIGHT INTO AN UNUSUAL CLASS OF LACCASE ENZYMES	<u>A. Mot</u> , G. Damian, Cristina Miron, H.A. Heering, R. Silaghi-Dumitrescu
PB29	POLYMORFIC FORM OF AMBAZONE OBTAINED WITH ASPARTIC ACID	<u>M. Mureşan-Pop</u> , S. Simon
PB30	NUCLEOBASE BEARING PODANDS FOR SUPRAMOLECULAR H-BOND ASSEMBLIES	<u>V. Pascanu</u> , C. Socaci, I. Grosu
PB31	NEW PHENOTHIAZINYL-NITRONE SYNTHESIS AND SPECTROSCOPIC STUDIES	<u>H. Petkes</u> , E. Gal, C. Majdik, L. Silaghi-Dumitrescu
PB32	IN VIVO RAMAN ASSESSMENT IN SKIN THERAPY	<u>S. Cîntă Pinzaru</u> , A. Fălămas, C. A. Dehelean, L. Kemeny
PB33	VIBRATIONAL INVESTIGATIONS ON NANOSTRUCTURED TITANOSILICATE MICROSPHERES IN INTERACTION WITH METHEMOGLOBIN	<u>N. Peica</u> , O.Ponta, C. Thomsen, S.Simon
PB34	NANOSTRUCTURATED TiO ₂ -SiO ₂ MICROSPHERES IN INTERACTION WITH BIOLOGICAL ENVIRONMENT	<u>O. Ponta</u> , E. Vanea, C. Gruian, S. Simon
PB35	PHYSICO-CHEMICAL CHARACTERIZATION OF BIOMATERIALS BASED ON HA _p -Al ₂ O ₃ SYSTEM	F. Goga, A. Pop, <u>L.- B. Pop</u> , R. Dudric
PB36	IN VITRO EVALUATION OF THE EFFECTS OF YTTRIUM ALUMINOSILICATES MICRO-SPHERES PRODUCED BY SPRAY DRYING ON HUMAN KERATINOCYTES CELL	<u>T. Radu</u> , M.T. Chiriac, S. Simon
PB37	INFRARED SPECTROSCOPICAL MICROSCOPY AS A DIAGNOSTIC TOOL FOR KIDNEY STONE DISEASE	M. Pucetaite, S. Tamosaityte, V. Hendrixson, J. Ceponkus, <u>V. Sablinskas</u>

PB38	ANALYSIS OF LONG-TERM THERAPEUTIC EFFICIENCY OF NSAIDS AND TNF-A BLOCKERS IN ANKYLOSING SPONDYLITIS. DATA FROM REGISPONSER-AS COHORT	<u>R. Schiotis</u> , P. Font, A. Escudero, P. Zarco, R. Almodovar, J. Gratacos, J. Mulero, X. Juanola, C. Montilla, E. Moreno, R. Ariza, A. Buzoianu, S. Simon, E. Collantes
PB39	EVALUATION OF FREE RADICAL CONCENTRATION IN NEW DENTAL COMPOSITE MATERIALS BY ESR SPECTROSCOPY	D. Prodan, L. Silaghi-Dumitrescu, P. Cristina, <u>R. Silaghi-Dumitrescu</u> , L. Bolojan, G. Damian
PB40	EVALUATION OF FORMATION AND STABILITY OF GELATIN-NANOGOLD	<u>S. Suărășan</u> , M. Focșan, S. Aștilean
PB41	EPR STUDIES OF PHOSPHOLIPID MEMBRANES	<u>I. M. Takacs</u> , M. Dragota, Cristina Bischin, Laura Bolojan, G. Damian
PB42	IN VITRO BIOACTIVITY OF SiO ₂ -CaO-P ₂ O ₅ GLASSES DOPED WITH TiO ₂	<u>F. Talos</u> , M. Senilă, T. Frentiu, S. Simon
PB43	SPECTROSCOPIC CHARACTERIZATION OF <i>IN VITRO</i> BIOCOMPATIBILITY OF POLYMER-CLAY NANOCOMPOSITE	<u>M. Tamasan</u> , T. Radu, V. Simon
PB44	SPECTROSCOPIC STUDY OF SOME NEW DYES WITH PHENOTHIAZINE UNITS	<u>I. Torje</u> , I. Pinte, L. Gaina, E. Gal, L. Silaghi-Dumitrescu
PB45	A THEORETICAL STUDY OF THE SERS SPECTRUM OF TRIMETHOPRIM ADSORBED ON SILVER CLUSTERS	<u>A. Ungurean</u> , N. Leopold, S. Schlücker, S. Niebling, V. Chiș, L. David
PB46	DETECTION OF CANCEROUS KIDNEY TISSUE AREAS BY MEANS OF INFRARED SPECTROSCOPY OF THE TISSUE SMEARS	<u>V. Urboniene</u> , M. Petkelyte, A. Zelvy, F. Jankevicius, <u>V. Sablinskas</u>
PB47	PROTEIN ENTRAPMENT AND RELEASE FROM POROUS SOL-GEL DERIVED BIOMATERIALS	<u>E. Vanea</u> , V. Simon
PB48	SYNTHESIS AND CHARACTERIZATION OF NEW COMPLEXES OF DIPHENYLPHOSPHINOARYLTHIOLS WITH PALLADIUM	<u>A.M. Vălean</u> , P. Lönnecke
PB49	CHARACTERISATION OF SILVER NANOPARTICLES CONTAINING BIOGLASS COATED POLYMER FABRICS	<u>A. Vulpoi</u> , Zs. Benyey, H. Ylänen, V. Simon

Poster session on Tuesday 06.09.2011
Advanced and Nanostructured Materials

PN1	LANTANUM EFFECT ON TITANOSILICATE MICROSPHERES	<u>A. Cheniti</u> , O. Ponta, E. Vanea, S. Simon
PN2	MORPHO-STRUCTURAL CHARACTERIZATION AND PHOTOCATALYTIC ACTIVITY ASSESSMENT OF TiO ₂ NANOSIZED POWDERS	<u>L. Baia</u> , M. Scarisoreanu, I. Morjan, I.P. Morjan, M. Baia, V. Cosoveanu, R. Alexandrescu V. Danciu
PN3	PHOTOCATALYTIC ACTIVITY OF HIGHLY POROUS TiO ₂ -AG MATERIALS	<u>M. Baia</u> , D. Georgescu, I. Fort, V. Danciu, G. Melinte, S. Simon
PN3	MAGNETIC AND ELECTRONIC PROPERTIES OF NANOCRYSTALLINE NdFe _{2-x} Al _x COMPOUNDS OBTAINED BY HIGH ENERGY BALL MILLING	<u>A. Bezerghianu</u> , E. Dorolti, D. Benea, R. Tetean

PN4	NOVEL SILICA-REINFORCED RUBBERS OBTAINED BY SOL-GEL PROCESSES: STRUCTURE AND DYNAMIC PROPERTIES AS STUDIED BY SOLID-STATE NMR	U.P. Sudhakaran, <u>S. Borsacchi</u> , M. Geppi, M. Messori, F. Bignotti
PN5	LOW TEMPERATURE VIBRATIONAL SPECTROSCOPY OF FUNCTIONALIZED CARBON NANOTUBES	<u>J. Ceponkus</u> , I. Rumskaite, <u>V. Sablinskas</u>
PN6	DIFFUSING THERMAL ANALYSIS OF POLYMER CARBON FIBER COMPOSITE MATERIAL	<u>D.-S. Chirtes</u>
PN7	ABSORPTION AND EMISSION SPECTRA OF PTCDI: AN EXPERIMENTAL AND TD-DFT INVESTIGATION	M. Oltean, A. Calborean, M. Vidrighin, M. Iosin, G. Mile, L. Leopold, D. Maniu, N. Leopold, <u>V. Chiş</u>
PN8	<i>para</i> -AMINOTHIOPHENOL: AN INTRIGUING CASE FOR SERS	M. Oltean, G. Mile, R. Isai, A. Falamaş, N. Mircescu, N. Leopold, <u>V. Chiş</u>
PN9	SPECTROSCOPIC INVESTIGATION OF A NEW THIAZOLIDINE COMPOUND	N. Vedeanu, A. Pîrnău, <u>B. I. Cozar</u> , O. Oniga, C. Moldovan, C.M. Lucaciu, O. Cozar
PN10	OMEGA POLYNOMIAL FOR NANOSTRUCTURES DESIGNED BY $(P_4)^kLe$ OPERATIONS	M. Saheli, <u>M.V. Diudea</u>
PN11	STRUCTURAL AND MAGNETIC PROPERTIES OF $La_{1.4}Ca_{1.6}Mn_2O_7$ DOUBLE LAYERED PEROVSKITES OBTAINED BY HIGH ENERGY BALL MILLING	<u>R. Dudric</u> , M. Sever, E. Dorolti, R. Tetean
PN12	THE LOCAL STRUCTURE CHARACTERISATION OF SOME ALUMINOSILICATE MICROSPHERES BY NMR SPECTROSCOPY	<u>B. Frentiu</u> , M. Todea, R.V.F. Turcu, S. Simon
PN13	MORPHOLOGICAL AND STRUCTURAL PROPERTIES OF TiO_2 -AG AEROGELS	<u>D. Georgescu</u> , L. Roiban, O. Ersen, L. Baia, S. Simon
PN14	STRUCTURE, MORPHOLOGY AND OPTICAL PROPERTIES OF AL-DOPED ZNO THIN FILMS	<u>D. Girbovan</u> , M.A. Bodea, D. Marconi, J.D. Pedarnig, A.V. Pop
PN15	STUDIES ON STRUCTURE AND PROPERTIES OF LAYERED SILICONE - SILVER COMPOSITES	<u>F. Iacomi</u> , A. Yildiz, B.F. Oprea, A.I. Amironesei, M. Cazacu, S. Simon
PN16	ELECTRICAL CONDUCTIVITY CHANGES INDUCED BY Ni DOPING OF ZnO NANOCRYSTALLINE THIN FILMS	<u>B. Kayhan</u> ^a , B. Yurduguzel ^a , A. Yildiz ^a , A.P. Rambur ^b , F. Iacomi ^b
PN17	P_2O_5 -BaO-Li ₂ O GLASS SYSTEM - A POSSIBLE THERMOLUMINESCENT DOSIMETER MATERIAL	<u>C. Ivaşcu</u> , L. Dărbăban, A. Timar Gabor, N. Vedeanu, O. Cozar
PN18	COMPLEX FORMATION OF FUNCTIONALIZED CAVITAND DERIVATIVES WITH ALKALI METAL IONS IN METHANOL SOLUTIONS	Y. Li, Z. Csók, T. Kégl, L. Kollár, K. Iwata, <u>S. Kunsági-Máté</u>
PN19	COMPLEX FORMATION ABILITY OF FUNCTIONALIZED CAVITAND DERIVATIVES TOWARDS 4-CHLORO-BENZOTRIFLUORIDE	<u>S. Kunsági-Máté</u> , Z. Csók, T. Kégl, Á. Varga, L. Kollár
PN20	COMPLEX FORMATION ABILITY OF 25, 26, 27, 28-TETRAHYDROXY-5, 11, 17, 23-TETRA-[4-(N-HYDROXYL-3-PHENYLPROP-2-ENIMIDAMIDO) PHENYLAZO] CALIX[4]ARENE TOWARDS ALKALI METAL IONS IN METHANOLIC SOLUTION	M.B. Vizeli, A. Kumar, P. Sharma, <u>S. Kunsági-Máté</u>
PN21	THE LIMITED OCCURENCE OF ISOCLOSO DELTAHEDRA WITH 9 TO 12 VERTICES IN LOW-	<u>A. Lupan</u> , R.B. King

	ENERGY HYPOELECTRONIC DIFERRADI-CARBORANE STRUCTURES	
PN22	XRD AND MÖSSBAUER SPECTROSCOPY OF (BI,PB):2223 HIGH TEMPERATURE SUPERCONDUCTOR	<u>D. Marconi</u> , M. Pop, J.M. LeBreton, A.V. Pop
PN23	RAYLEIGH SCATTERING STUDY OF HYDROGEN-BONDED LIQUIDS – CONNECTION WITH THE LIQUID STRUCTURE	<u>G. Matisz</u> , Á. Eördög, S. Kunsági-Máté
PN24	EVALUATING THE INFLUENCE OF THE GOLD NANOPARTICLES CONCENTRATION ON THE MOPHO-STRUCTURAL PROPERTIES AND PHOTOCATALYTIC EFFICIENCY OF TiO ₂ AEROGEL BASED NANOCOMPOSITES	<u>G. Melinte</u> , A. Radu, I.J. Hidi, V. Danciu, L.C. Cotet, D. Georgescu, L. Baia, M. Baia, S. Simon
PN25	A NEW APPROACH FOR TLC SEPARATION AND ON-PLATE SERS DETECTION	<u>N. Mircescu</u> , K. Herman, L. Szabo, V. Chis, N. Leopold
PN26	LAYERED SURFACE STRUCTURES ON BULK BISMUTH SILICATES GLASSES AND GLASSCERAMICS	<u>H. Mocuta</u> , B. Oprea, T. Radu, S. Simon
PN27	INVESTIGATION OF THE EFFECTS OF DEGRADATION OF HIGH DENSITY POLYETHYLENE BY ¹³ C NMR SPECTROSCOPY AND ¹ H RELAXOMETRY	<u>D. Moldovan</u> , M Pop, R. Fechete, A. Baudouine, M Todica
PN28	NOVEL THIOCALIXARENES – PRECURSORS IN THE SYNTHESIS OF FUNCTIONALIZED GOLD NANOPARTICLES	<u>S. Paic</u> , P.M. Petrar, S. Menyhart, G. Nemes
PN29	ELECTROCHEMICAL INVESTIGATION OF SELF-ASSEMBLED S-ACETYL-CALIX[8]ARENEON GOLD FOR MOLECULAR RECOGNITION	A. Killyeni, V. Canpean, <u>A. Nicoara</u> , G.L. Turdean, I.C. Popescu, S. Astilean
PN30	pKa CALCULATIONS BY DFT METHODS: DYE COMPOUNDS AS CASE STUDIES	<u>M. Oltean</u> , G. Mile, R. Isai, A. Fălămaș, N. Mircescu, A. M. Găbudean, N. Leopold, V. Chiș
PN31	LOCAL ORDER AND STRUCTURAL DEFECTS ON THE SURFACE OF B ₂ O ₃ -Bi ₂ O ₃ GLASSES	<u>B. Oprea</u> , T. Radu, S. Simon
PN32	ELECTROSTATIC VS ORBITAL INTERACTIONS IN CALIX[M]ARENES AS HOSTS FOR BOTH IONIC AND NEUTRAL SPECIES	J. Barroso-Flores ^a , <u>P. M. Petrar</u> , S. Kunsági-Máté
PN33	RAMAN IMAGING INVESTIGATION ON PAA-CLOTTRIMAZOLE SYSTEM	<u>C.V. Pop</u> , T. Stefan, S. Astilean, M. Todica
PN34	¹³ C NMR STUDY OF GAMMA IRRADIATED POLYSTYRENE	M. Pop, <u>L Udrescu</u> , L. Daraban, M. Todica
PN35	FTIR, UV-VIS AND EPR SPECTROSCOPY INVESTIGATIONS ON THE STRUCTURE OF TUNGSTEN-LEAD-BORATE GLASSES	M. Rada, L. Rus, M. Zagrai, <u>S. Rada</u> , M. Culea, M. Neumann, E. Culea
PN36	STRUCTURAL ROLE OF EUROPIUM IONS IN LEAD-BORATE GLASSES INFERRED FROM SPECTROSCOPIC AND DFT STUDIES	M. Zagrai, M. Rada, R. Chelcea, S. Rada, <u>P. Pascuta</u> , V. Dan, E. Culea
PN37	IMMOBILIZATION OF GADOLINIUM IONS IN THE LEAD-TELLURATE GLASSES	L. Rus, M. Rada, T. Rusu, <u>M. Bosca</u> , V. Micle, S. Rada, E. Culea
PN38	INFRARED, NMR SPECTROSCOPY AND DFT INVESTIGATIONS ON STRUCTURE OF BORATE-TELLURATE GLASSES	<u>R. Chelcea</u> , S. Rada, T. Ristoiu, I. Coroiu, M. Zagrai, E. Culea
PN39	INVESTIGATIONS BY EPR OF Zn _{1-x} Mn _x O POWDERS	<u>O. Raita</u> , A. Popa, D. Girbovan, D. Toloman, Al. Darabont,

		M. Stan, L.M. Giurgiu
PN40	RECOGNITION OF ANION AND MOLECULES BY PORPHYRINIUM RECEPTORS-CHROMOPHORES	<u>V.B. Sheinin</u> , E.L. Ratkova, T.A. Ageeva, S.V. Makarov, O.I. Koifman
PN41	PLURONIC- NANOGOLD HYBRIDS: SYNTHESIS AND TAGGING WITH PHOTSENSITIZER MOLECULES	<u>T. Simon</u> , S.C. Boca, S. Astilean
PN42	DUAL ROLE OF V ₂ O ₅ IN V ₂ O ₅ -P ₂ O ₅ -BaO GLASS SYSTEM	<u>R. Stanescu</u> , N. Vedeanu, L. Tibre, I. Ardelean, O. Cozar
PN43	STRUCTURAL INVESTIGATION OF GD ₂ O ₃ -ZNO-B ₂ O ₃ VITREOUS SYSTEM	<u>R. Stefan</u>
PN44	ELECTRICAL BEHAVIOR OF SOME PVA AND PAA MEMBRANES	<u>T. Stefan</u> , C.V. Pop, L. Udrescu, M. Todica
PN45	VIBRATIONAL AND DFT INVESTIGATION OF 1-(2-PYRIDYLAZO)-2-NAPHTHOL AND ITS METAL COMPLEXES	<u>L. Szabó</u> , N. Leopold, A. Fălămaș, C. Buzumurgă, V. Chiș
PN46	THE INFLUENCE OF SYNTHESIS CONDITION ON THE STRUCTURE OF CALCIUM PHOSPHATE POWDERS	<u>M. Todea</u> , T. Marcu, S. Simon, V. Simon, C. Popa
PN47	UV-VIS INVESTIGATION OF PVA TiO ₂ SYSTEM UNDER UV AND GAMMA IRRADIATION	<u>M. Todica</u> , L. Udrescu, L. Daraban, T. Stefan
PN48	SPRAY DRIED SILICA-GERMANATE NANO-PARTICLE	<u>D.-L. Trandafir</u> , S. Simon
PN49	USING A SPACE INTERFACE DEVICE FOR ARTIFICIAL REALITY AND A SCANNING PROBE MICROSCOPE FOR MANIPULATION OF NANO-OBJECTS	<u>A. Tunyagi</u> , O. Ponta, I. Burda, N. Zoltan
PN50	OBSERVATION OF UV-VIS ABSORPTION PROPERTIES OF SOME PVA MEMBRANES WITH SILVER NANOPARTICLES	<u>L. Udrescu</u> , B. Marta, C.V. Pop, M. Todica
PN51	SYNTHESIS AND CHARACTERIZATION OF STRONTIUM CONTAINING PHOSPHOSILICATE BIOGLASSES	<u>R. Veres</u> , C. Ciuce, V. Simon
PN52	INTERACTION OF PYRIDINO-18-CROWN-6 LIGANDS WITH ALKALI METAL IONS IN METHANOL	<u>Y. Li</u> , P. Huszthy, S. Kunsági-Máté
PN53	NMR CHARACTERIZATION OF SOME LANTHANUM ALUMINUM GALLIUM BORATES	<u>M. Maier</u> , D.-L. Trandafir, B. Frentiu, S. Simon
PN54	AXIAL LIGATION IN WATER-SOLUBLE COPPER PORPHYRINATES: CONTRASTS BETWEEN EPR AND UV-VIS	A. C. Mot, S. A. Syrbu, <u>S. V. Makarov</u> , G. Damian, R. Silaghi-Dumitrescu, <u>O. I. Koifman</u>

Wednesday: 16.00-18.00

Satellite workshop

From Molecules to Functionalized Nanostructures

Oral presentations:

16.00-16.15 POLYMER-COATED MULTIFUNCTIONAL NANOPARTICLES FOR INVESTIGATION IN BIOLOGICAL MEDIA S. Boca, M. Potara, C. Farcau, S. Astilean

16.15-16.30 TBA O Popescu

16.30-16.45 TBA S Simon

16.45-17.00 NOVEL THIOCALIXARENES – PRECURSORS IN THE SYNTHESIS OF FUNCTIONALIZED GOLD NANOPARTICLES S. Paic, P.M. Petrar, S. Menyhart, G. Nemes

17.00-17.15 ABSORPTION AND EMISSION SPECTRA OF PTCDI: AN EXPERIMENTAL AND TD-DFT INVESTIGATION M. Oltean, A. Calborean, M. Vidrighin, M. Iosin, G. Mile, L. Leopold, D. Maniu, N. Leopold, V. Chis

17.15-17.30 TBA T. Beu

17.30-17.45 OMEGA POLYNOMIAL FOR NANOSTRUCTURES DESIGNED BY (P4)kLe OPERATIONS M. Saheli, M.V. Diudea

17.45-18.00 ELECTROCHEMICAL INVESTIGATION OF SELF-ASSEMBLED S-ACETYL-CALIX[8]ARENEON GOLD FOR MOLECULAR RECOGNITION A. Killyeni, V. Canpean, A. Nicoara, G.L. Turdean, I.C. Popescu, S. Astilean

This workshop is organized in the frame of the project *Biofunctionalized Nanostructures for Development of New Methods of Imaging, Sensing, Diagnostic and Therapy in Biological Environment* (Project number: CNCSIS –UEFISCSU PNII -ID_PCCE_129/2008).