

## PLENARY LECTURES

Day	Hour	Title	Authors	Cod
15	10:00	Step Bunching and Solution Flow	A.A.Chernov	S243
15	11:15	Recent Topics of Single Crystal Growth with Novel Approach	Tsuguo Fukuda, Akira Yoshikawa, Hiroki Sato	S172
15	12:00	On a New Crystal Growth Mechanism Producing Polar Materials by Configurational Entropy	Jurg Hulliger, Thomas Wuest, Claire Gervais	S101
15	15:15	Melt Growth of SiGe Bulk Crystals with Uniform Composition and SiGe Multicrystals with Microscopic Compositional Distribution for New Si/SiGe Heterostructural Solar Cells	Kazuo Nakajima, Kozo Fujiwara, Yukinaga Azuma, Noritaka Usami, Toru Ujihara, and Gen Sasaki	S100
16	08:30	Growth and Defect Structure of Macromolecular Crystals Visualized with In Situ Atomic Force Microscopy	Alexander J. Malkin, M.Plomp and Alexander McPherson	1S232
16	15:15	Toward Super Radiation Tolerant Semiconductor Detectors for Future Elementary Particle Research	G.Lindstroem, E.Fretwurst, G.Kramberger, I.Pintilie	S226
17	08:30	Structure and Photo-Induced Structural Changes in Amorphous Chalcogenides: Science and Applications	A.V.Kolobov, J.Tominaga	S217
18	08:30	Infrared and Raman Spectroscopy of Some Ferroelectric Perovskite Films and Ceramics	Jan Petzelt, Tetyana Ostapchuk	4S001

## Section 1. ORGANIC AND HYBRID CRYSTALS

Day	Hour	Title	Authors	Type	Cod	
		<b>Chairmen: Peter Gunter, Stefan Antohe , Room A</b>				
15	16:00	Polar Organic Nonlinear Optical Crystals for Electro-optics	Peter Gunter	I	S238	
15	16:30	Photovoltaic Cells Based on Organic Thin Layers	Antohe Stefan	I	1S228	
15	17:15	Control of the Grain Orientations of Organic Semiconductor PTCDA Thin Film Crystals Epitaxially Grown on Hydrogen-Terminated Si(111) Substrate	Gen Sasaki, Takuho Fujino, Noritaka Usami, Toru Ujihara, Kozo Fujiwara, Kazuo Nakajima	I	S099	
15	17:45	Protein Crystallization Mechanism	L.N.Rashkovich	I	1S004	
		<b>Chairmen: Alexander J. Malkin, Jurg Hulliger, Room A</b>				
16	09:30	Organic Nanocrystals Grown in Gel-Glasses for Optics	Alain Ibanez	I	1S273	
16	10:00	Bulk Crystal Growth and Characterization of Semiorganic Nonlinear Optical Materials	M.D.Aggarwal, J.Stephens, A. K.Batra, and R.B.Lal	O	1S023	
16	10:15	Growth and Characterization of Doped Benzil Crystals	Anca Stanculescu, Laura Tugulea, F.Stanculescu, Marcela Socol	O	1S169	
16	10:30	Growth and Dissolution of Calcium Oxalate Monohydrate (COM) Crystals	E.V.Petrova, N.V.Gvozdev, L.N.Rashkovich	O	3S024	
16	10:45	Polar Crystal Morphology as a Solvent Effect	Cristina Stoica, P.Verwer, H.Meekes, E. Vileg	O	1S003	

Day	Hour	Title	Authors	Type	Cod	
		<b>Chairmen: Alain Ibanez, Anca Stanculescu</b>				
16	12:15	Amperometric Biosensor Based on a Ferrophthalocyanine Electrode	Irina Nicolaie, Anton Ciucu	PO	6S112	
16	12:15	Chemically Modified Carbon Adsorbents for Gas Storage	Elena David, A.Armeanu	PO	S163	
16	12:15	Cole-Cole Analysis of the AC Magnetic Susceptibility of Some Layered Hybrid Organic-Inorganic Magnets	Mihai A. Gîrtu	PO	1S271	
16	12:15	Composite Layers Deposition by Radiofrequency Plasma Polymerization	M.C.Petcu, A.Lazea, S.Vizireanu, B.Mitu, E.Raiciu, E.Barna, G.Dinescu	PO	1S267	
16	12:15	Determination of Ratio of Crystallinity and Some Thermodynamic Interaction Parameters of Polycaprolactone by Gas Chromatography	Afyer Sarac, Ozlem Cankurtaran, Ferdane Yilmaz	PO	S202	
16	12:15	Electrical Properties of Doped and Undoped Glassy Poly (Phenyl Sulfone) Thin Films	Merih Serin, Ozlem Cankurtaran, Ferdane Yilmaz	PO	S201	

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16	12:15	Electronic Transport Properties of Some Chelate Modified Polysulfones in Thin Films	G.I.Rusu, A.Airinei, C.Baban, G.G.Rusu, Diana Mardare, Mihaela Rusu	PO	S247
16	12:15	Influence of Chain Extender on the Unperturbed Dimensions of Poly (Ester-Urethane)S	Silvia Ioan, Doina Macocinschi and Mihaela Lupu	PO	6S013
16	12:15	Low Melting Point Organic Compounds Crystalline Films	Anca Stanculescu, S.Antohe, Laura Tugulea, F.Stanculescu, <u>Marcela Socol</u>	PO	1S168
16	12:15	New Materials Based on Phosphorilated Calix[n]arene	<u>Traian-Nicolae Ursales</u> , Ioan Silaghi-Dumitrescu, Elisabeth-Jeanne Popovici, Adina Ursales, Nicolae Popovici	PO	1S151
16	12:15	On the DC Conduction Mechanism in Some New High Resistivity Organic Salts in Thin Films	<u>L.Leontie</u> , I.Druta, R.Alupoe, G.I.Rusu, C.Podaru	PO	1S050
16	12:15	Possible Hybrids between Polyoxometalates and Calixarenes	Cristina Ciocan, Ioan Silaghi-Dumitrescu, <u>Traian-Nicolae Ursales</u> , Laura Silaghi, Nicolae Popovici, Elisabeth-Jeanne Popovici	PO	1S162
16	12:15	Quantum Chemical Studies on the Inhibition Efficiencies of Some Piperazine Derivatives on Corrosion of Steel in Acidic Medium	Gozen Bereket, C.Odretir, C.Oztahin	PO	S103
16	12:15	Studies on the Electronic Transport Properties of Some Organic Semiconductors in Thin Films	Mihaela Rusu, I.Caplanus, V.Sunel, G.Maftעי, <u>G.I.Rusu</u>	PO	S248
16	12:15	Tautomeric Studies on 2-Mercapto Pyrimidines and Their Significance in Corrosion Process	G.Bereket, C.Odretir, M.Yaman, E.Hur	PO	S104

**Section 2: SINGLE CRYSTALS MATERIALS**

Day	Hour	Title	Authors	Type	Cod	
		<b>Chairmen: Alexander Chernov, Leonid N. Rashkovich, Room B</b>				
16	16:00	In Situ Investigations of Collective Processes at KDP Crystal Growth from Solutions	<u>V.I.Bredikhin</u> , G.L.Galushkina, S.P.Kuznetsov, A.A.Kulagin, O.A.Malshakova	I	2S127	
16	16:30	Bubble Distribution and Density in Shaped Sapphire Crystals	<u>O.Bunoiu</u> , T.Duffar, F.Theodore, J.L.Santailier, I. Nicoara	I	2S065	
16	17:15	Molecule Formation among Impurity Atoms in Silicon and Possibilities of Creating Principally New Technology of Obtaining Materials with Controlled Parameters	Bakhadir Khanov M.K., Norkulov N., Sirodjev S., Toshbaev A., <u>Arzikulova M.</u> , Kadirova F., Sodikov U.	O	S006	
16	17:30	KDP, KD*P Crystals: From Growth of Crystals to Growth of Crystal Elements	V.I.Bespalov, <u>V.I.Bredikhin</u> , V.V.Zil'berberg, V.P.Ershov	O	2S126	
16	17:45	Hydrothermal Synthesis and Morphology of Bi <sub>4</sub> Si <sub>3</sub> O <sub>12</sub> Single Crystals	<u>D.E.Kozhbakhteeva</u> , A.A. Mar'in, N.I.Leonyuk	O	2S048	
16	18:15	Crystal Growth of KMg-Fluoride	<u>P.V.Nefedov</u> , B.A.Dorogovin, B.I.Zadneprovski, N.I.Leonyuk	O	2S055	
		<b>Chairmen: Kazuo Nakajima, Tsuguo Fukuda, Room B</b>				
17	09:30	Numerical Modelling of Crystal Growth on Different Scales	W.Miller	I	S252	
17	10:00	Optical Control of Domain Structures in Lithium Tantalate Crystals	<u>A.R.Poghosyan</u>	O	5S115	
17	10:15	Active Raman Media-SrWO <sub>4</sub> :Nd <sup>3+</sup> BaWO <sub>4</sub> :Nd <sup>3+</sup> (Growth and Characterization)	<u>I.S.Voronina</u> , L.I.Ivleva, T.T.Basiev, P.G.Zverev, N.M.Polozkov	O	2S038	
17	10:30	Prismatic faces of KDP Crystal Kinetic and Mechanism of Growth from Solutions	H.V.Alexandru, S.Antohe	O	S164	
17	10:45	Radiative Recombination in Electron-Irradiated GaP Crystals	A.V.Gomonnai, D.B.Goyer, O.O.Goushcha, Yu.M.Azhniuk, I.G.Megela, M.Kranjcec	O	2S092	

Day	Hour	Title	Authors	Type	Cod	
		<b>Chairmen: Wolfram Miller, Florin Stanculescu</b>				
17	12:30	AC Conductivity Spectra of KCl:In Crystals. Temperature Dependent Deviations from the Summerfield Scaling	Ana Ioanid	PO	S110	

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		Alkali Metals Melts Thermodynamics	N.E.Dubinin	PO	6S098
		Compositional Variation of Optical and Refractometric Parameters of $\gamma_1$ -(Ga <sub>x</sub> In <sub>1-x</sub> ) <sub>2</sub> Se <sub>3</sub> Mixed Crystals	I.P.Studenyak, M.Kranjcec, O.M.Borets	PO	2S094
17	12:30	Flux Growth and Characterization of YAl <sub>3</sub> (BO <sub>3</sub> ) <sub>4</sub> Crystals Doped with Pr, Ho, Tm, Yb	E.V.Koporulina, O.V.Pilipenko, N.I.Leonyuk	PO	2S045
		Hydrogen Intercalation of InSe and GaSe Semiconductors	Z.D.Kovalyuk, M.M.Pyrlya, V.B.Boledzyuk	PO	S031
		Hydrothermal Growth and Characterization of Optical Calcite Single Crystals	I.V.Nefyodova, N.I.Leonyuk	PO	2S049
		Influence of Impurities on the Growth Kinetic of KDP	H.V.Alexandru, C.Berbecaru, R.C.Radulescu, F.Stanculescu, B.Logofatu	PO	2S279
		In-situ Eddy Current Measurements on Growing Semiconductor Crystals	A.Iuga, C.Negrila, A.S.Manea, M.F.Lazarescu, C.Logofatu, R.V.Ghita	PO	S266
		Mechanism of KDP Growth from Solution	H.V.Alexandru, C.Berbecaru, R.C.Radulescu	PO	S278
		Molecular Dynamics Simulations of the Backscattering of Ar Ions from an Al Crystalline Lattice	M.Ciobanu, V.Babin, N.D.Nicolae, C.Talianu, C.Morosanu	PO	S156
		On the Nature of Conductivity Anisotropy in Undoped Indium Selenide	P.I.Savitskii, A.V.Konstantinovich and Z.D.Kovalyuk	PO	2S079
		Oxygen Nucleation in Carbon-Rich Single Crystal Silicon	F. Stanculescu	PO	S207
		Recent Progress in SiC Growth	E.K.Polychroniadis, A.Andreadou, A.Mantzari, D.Panknin, J.Wollweber	PO	S275
		Relationship Between Growth Conditions and Thermal Stability of Ladder-Type Crystals Ca <sub>6,7</sub> Sr <sub>7,0</sub> Bi <sub>0,3</sub> )Cu <sub>23,0</sub> O <sub>x</sub> and Ca <sub>6,9</sub> Sr <sub>6,8</sub> Bi <sub>0,3</sub> )Cu <sub>23,3</sub> O <sub>x</sub>	V.V.Maltsev, N.I.Leonyuk	PO	2S053
		Role of Oxygen and Carbon Impurities in the Radiation Resistance of Silicon Detectors	S.Lazanu, I.Lazanu	PO	2S231
		Single Crystalline Sapphire Growth by Non Conventional Czochralski Method	C.E.A.Grigorescu, A.S.Manea, C.Logofatu, I.Licea	PO	2S265
		Structural Features of Fluoride-Ion Transport in Pb <sub>0,67</sub> Cd <sub>0,33</sub> F <sub>2</sub> Single Crystals	V.Trnovcova, P.P.Fedorov, M.Ozvoldova, I.I.Buchinskaya, A.Skubla, E.A.Zhurova	PO	2S177
		Structure of the Cation Sublattice and Optical Damage in Lithium Niobate Crystals of Different Composition	N.Sidorov, M.Palatnikov, P.Chufirev, I.Biryukova, K.Bormanis	PO	2S108
		Tantalate Systems Relating to Alternative Substrate Materials for Heteroepitaxial Growth of GaN and LiNbO <sub>3</sub> Thin Films	E.A.Volkova, V.V.Maltsev, N.I.Leonyuk	PO	5S054
		Thermodynamics of Binary Melts of Transition Metals: Tight Binding Approach	Alexey P.Malygin, Dmitri V.Alexandrov and Nikolay A.Vatolin	PO	6S075
		Transient Currents in Photochromic Lithium Niobate Crystals	A.S.Bagdassarian, R.K.Hovsepyan, A.R.Poghosyan	PO	5S116
		Ultrasonic Investigation for the Si-n Sample	Petre Petculescu, Jeanina Matei	PO	5S131
		Ultrasonic Nondestructive Evaluation in the Si-n Sample	P.Petculescu, G.Prodan	PO	S122
		XPS Studies on n-Type GaAs	C.Logofatu, M.Lazarescu, R.V.Ghita, C.Negrila, A.S.Manea	PO	5S062

### Section 3: NUCLEATION AND NANOCRYSTALS

Day	Hour	Title	Authors	Type	Cod	
		<b>Chairmen: Magdalena Ciurea, Mircea Bercu, Room B</b>				
15	16:00	About a New Procedure for Preparing Nanocrystalline Hexaferite Powders	P.D.Popa, N. Rezulescu	O	3S008	
15	16:15	Al <sub>2</sub> TiO <sub>5</sub> -Based Ceramics Obtained by Hydrothermal Process	Maria Zaharescu, Maria Crisan, Maria Preda, Victor Fruth, Silviu Preda	O	S215	

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15	16:30	Nanostructure Formation of Fe Implanted Ge Surfaces	<u>R.Venugopal</u>	O	3S097
15	16:45	Magnetic/Magnetic Metallic Multilayers as Model Materials for Heterogeneous Nanocrystalline Ferromagnets	<u>N.Sulitanu</u> , I.Bakony	O	3S084
15	17:15	Oxide Clusters Aggregation in Heavily O <sup>+</sup> Implanted Silicon	M. Bercu, T. Tate, D. Dudu	O	S272
15	17:30	Metal-C <sub>60</sub> Thin Films: Metal Environment and Interaction with the Fullerenes	<u>D.Macovei</u> , C.Teodorescu, S.Poenariu, A.Devenyi	O	3S270
15	17:45	Magnetism and Anisotropy in Core-shell Nanoparticles	<u>O.Crisan</u> , Y.Labaye, J.M.Greneche, L.Berger, M.Angelakeris, N.K.Flevaris and G.Filoti	O	6S161
15	18:00	Synthesis of Pure and Doped Lanthanum Cobaltite by the Combustion Method	<u>Daniela Berger</u> , Costana Ionica, Nitte van Landschoot, Florica Papa, Victor Fruth	O	6S019
15	18:15	The Analysis of the Interaction Metal-Support for Ni-Cu Catalysts by Extended X-Ray Absorption Fine Structure and X-Ray Diffraction Using Synchrotron Radiation	Andrea Gluhoi, Barz Bogdan, <u>Nicolae Aldea</u> , Petru Marginean, <u>Constantin Cosma</u> , Xie Yaning, Hu Tiandou, Liu Tao, Zonghua Wu	O	S036
<b>Chairmen: George Filoti, Maria Zaharescu, Room B</b>					
16	09:30	Oxide-Nano Powders Obtained by Sol-Gel Method	Maria Zaharescu	I	S251
16	10:00	A New Approach to Hybridization Processes in Gold Intermetallics	P.Palade, D.Macovei, <u>G.Filoti</u> , F.E.Wagner	I	S170
16	10:30	Silica Nanoparticles Produced by Thermal Arc Plasma-Modelling	<u>E. Balabanova</u>	O	3S030
16	10:45	Characterization of SbSI Nanocrystals by Electron Microscopy, X-Ray Diffraction and Raman Scattering	I.M.Voynarovych, A.V.Gomonnai, Yu.M.Azhniuk, A.A.Kikineshi, V.P.Pinzenik, M.Kiss-Varga, L.Daroczy, V.V.Lopushanasky, A.M.Solomon	O	S093
16	11:15	Control of the Growth Mechanism of (119) Bi-2223 Superconducting Thin Film; 2-Dimensional Nucleation Growth and Step-Flow Growth	<u>K.Endo</u> , P.Badica	O	6S067
16	11:30	Nano-Morphology and Crystal Defects in SnO <sub>2</sub> :Sb Sol-Gel Multilayer Films	M.G.Blanchin, J.A.Roger, B.Canut, V.S.Teodorescu, C.S.Sandu, C.Ghica	O	S277
16	11:45	Conduction Mechanisms in Silicon-Based Nanocomposites	V.Iancu, M.Draghici, <u>L.Jdira</u> , M.L.Ciurea	O	3S158
16	12:00	Copolymers Based on Sylanes and Ferrocene Monomers, Precursors for Magnetic Nanostructured Ceramics	Anca Dumitru, <u>I.Stamatin</u> , M.Bercu, W.Kappel, Iuliana Soare	O	3S262

Day	Hour	Title	Authors	Type	Cod
<b>Chairmen: Mircea Bercu, Florin Stanculescu</b>					
16	12:15	A New Approximation Used for Evaluation of Crystallite Size in Supported Metal Catalysts by Single X-Ray Profile Fourier Transform	Nicolae Aldea, Coriolan Tiusan and <u>Barz Bogdan</u>	PO	S037
		A New Diatomic Molecule Containing Endohedral Fullerene	M.Veljkojvic, Olivera Neskovic, Tamara Ivetic, Suzana Velickovic	PO	6S159b
		Comparison between Two XRD Methods Used for the Characterization of the Degree of Structural Order in Hexagonal Boron Nitride Powders	Madalina Balint	PO	3S274
16	12:15	Crystallization of Amorphous Metal-Doped Titanium Dioxide: In-Situ Synchrotron Radiation Experiments	<u>M.Stir</u> , R.Nicula, C.Schick and E.Burkel	PO	6S136
		Different Properties of SiO <sub>2</sub> Nanostructures with Different Working Gases	<u>D.Coadă</u> , M.Nagl, Th.Lechleitner, H.Pulker	PO	3S064
		Direct Synthesis of Multi-Walled and Single-Walled Carbon Nanotubes by Spray-Pyrolysis	L.B.Biro, Z.E.Horvath, A.A.Koos, Z.Osvath, Z.Vertesy, Al.Darabont, <u>K.Kertesz</u> , C.Neamtu, Zs.Sarkozi, L.Tapaszo	PO	3S259

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		Electron Paramagnetic Resonance Study of Nanosized $\text{La}_{0.67}\text{Ca}_{0.33}\text{MnO}_{3-\delta}$ Manganites	L.M.Giurgiu, M.N.Grecu, <u>O.Raita</u> , X.Filip, A. Darabont, E.Indrea, O.Pana, D. Gavre	PO	S082
		$\text{Fe}_x\text{O}_y\text{-SiO}_2$ Nanocomposites Obtained by Different Sol-Gel Routes	Malina Raileanu, Maria Crisan, Cristina Petrache, Dorel Crisan and Maria Zaharescu	PO	S216
		Fractal Analysis of Micrographs and Adsorption Isotherms of $\text{La}_x\text{Sr}_{1-x}\text{CoO}_3$ Samples	Gianina Dobrescu, Daniela Berger, <u>Florica Papa</u> , Iudit Fangli, I.Sitaru	PO	S026
		Fractal-Like Structures in the Self-Similar Crystallization with a Two-Phase Zone	<u>Dmitri V.Alexandrov</u> , Svetlana V.Bulitcheva, Maxim E.Komarovski, Alexey P. Malygin	PO	6S074
		Gold Fractal Structures in Potassium Chloride Crystals	<u>M.Enculescu</u> , I.Enculescu, V.Topa, E.Vasile	PO	3S069
		Growth of CdMnS Nanocrystalline Films by a Precipitation Technique	<u>F.Iacomì</u> , A.Vasile, I.Vida-Simiti, I.Caraman, I.Badarau, N.Apetroaei	PO	S254
		Heavy Ion Irradiation Effects on Silver Doped Alkali Halide Crystals	<u>M.Enculescu</u> , E.Apostol, K.Schwartz, V.Topa, C.Trautmann	PO	3S070
		Isolated Nanocrystals of Indium in KCl Crystals	Elena Apostol, <u>Silviu Polosan</u> , Eugeniu Vasile, Vladimir Topa	PO	6S111
		Metastable Phases and Crystallization Products in Nanocrystalline Finemet-Type Alloys with RE Addition	<u>A.D.Crisan</u> , J.M.LeBreton, O.Crisan and G.Filoti	PO	3S160
		Multicomponent Diffusion and Reaction in Three-Dimensional Networks	<u>Viorica Popescu</u> , Camelia Oprea, Semaghiul Birghila	PO	3S132
		Multifunctional Skeletal Catalytic Support. 1. Alumina - Based Composition for Porous Absorbing Layer	Ana-Maria Kaszoni-Pricop, <u>Traian-Nicolae Ursales</u> , Emil Indrea, Rodica Grecu, Elisabeth-Jeanne Popovici	PO	6S152
		Nano-Colloidal $\text{CdS-MV}^{2+}$ System Behavior under Continuous Irradiation	<u>Lucia Meahcov</u> and Ion Sandu	PO	3S106
		Nanosized Columnar Microstructure and Related Properties of Amorphous $\text{Al}_2\text{O}_3$ Thin Films	<u>E.Krumov</u> , V.Mankov, K.Starbova	PO	5S044
		Nanostructured Carbon Thin Films Deposition Using Thermionic Vacuum Arc (TVA) Technology	G.Musa, I.Mustata, M.Blideran, V.Ciupina, R.Vladoiu, G.Prodan, E.Vasile	PO	S085
		Nanostructured Ni/ $\text{C}_{60}$ Thin Films: Structure and Magnetic Properties	C.M. Teodorescu, D. Macovei, A. Lungu	PO	3S268
		On the Possible Formation of Aurivillius Phases in the Oxide System $\text{Bi}_2\text{O}_3\text{-ZnO-Nb}_2\text{O}_5$	<u>Iulian Rusu</u> , Mihail-Liviu Craus, Daniel Sutiman, Alice Rusu	PO	4S144
		Preparation and Characterization of Analcime Powders	<u>M.Novotna</u> , V.Satava, J.Maixner, J.Kloucek, P.Kostka, D.Lecal	PO	S214
		Preparation and Characterization of Electrodeposited Fe-S Nanocrystalline Thin Films	N.Sulitanu, <u>F.Brinza</u>	PO	6S083
		Structural Evolution of Undercooled Ni-40wt%Pb Hypermonotectic Alloy	Hongxing Zheng, Weizeng Ma, Chengchang Ji, <u>Jianguo Li</u>	PO	3S056

### Section 4: FERROELECTRIC MATERIALS

Day	Hour	Title	Authors	Type	Cod
		<b>Chairwomen: Barbara Malic, Maria Dinescu, Room C</b>			
15	16:30	Structural, Electrical and Magnetical Properties of $\text{Pb}_2\text{Mg}_{1-x}\text{Co}_x\text{WO}_6$ Solid Solutions	<u>I.Ardelean</u> , I.Barbur, V.Timar, Gh.Borodi	I	4S034
15	17:15	New Complicated Ceramics Materials for Microwave Resonators	P.Petkov, I.Iliev, T.Petkova, V.Vassilev	O	S180
15	17:30	Order and Disorder in Some Complex Lead Perovskite Ferroelectrics	<u>I.Barbur</u> , I. Ardelean	O	4S033
15	17:45	Thermophysical Properties of Ferroelectric PZT Ceramics	<u>Kallaev S.N.</u> , Gadjev G.G., Kamilov I.K., Khamidov M.M., Sadicov S.M.	O	4S096

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15	18:00	Lead Titanate Based Piezoelectric Ceramics	Ecaterina Andronescu, Elena Dumitra, C.Ciurea, Alina Dumitru, Cristina Ghitulica	O	S102
<b>Chairmen: Jan Petzelt, F.Vasiliu, Room C</b>					
18	09:30	The role of TiO in the perovskite nucleation and (111) orientation selection in sol-gel PZT layers	<u>F.Vasiliu</u> , G.J.Norga, L.Fe, D.Wounters, D.Van der Biest	I	S281
18	10:00	Alternative Lead-Free Piezoelectrics: (K,Na)NbO <sub>3</sub> Based Ceramics	<u>Barbara Malic</u> , Marija Kosec	I	4S212
18	10:30	Gibbs Free Energy in Second Order Ferroelectric Transition of TGS	<u>H.V.Alexandru</u> , C.Berbecaru	I	S165
18	11:15	Frequency Agile BST Materials for Microwave Applications	A.Ioachim, M.I.Toacsan, M.G.Banciu, L.Nedelcu, C.Plapcianu, H.Alexandru, C.Berbecaru, D.Ghetu	O	S256
18	11:30	Growth and Properties of Pb(Zr <sub>x</sub> Ti <sub>1-x</sub> )O <sub>3</sub> Step Graded-Structures	I.Boerasu, L.Pintilie, M.Pereira, <u>M.J.M.Gomes</u>	O	4S155
18	11:45	Spontaneous Relaxor Ferroelectric Transition of TlInS <sub>2</sub> with Cationic Impurities	<u>A.Sardarli</u> , I.M.Filanovsky, R.M.Sardarili, O.A.Samedov, I.Sh.Sadigov, A.I.Aslanov	O	4S041
18	12:00	Dielectric Properties of BNT Ferroelectrics in Paraelectric Phase	A.Ioachim, M.I.Toacsan, M.G.Banciu, C.Plapcianu, H.V.Alexandru, C.Berbecaru, L.Nedelcu, G.Stoica	O	S255

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<b>Chairpersons: Lucian Pintilie, Elena Dimitriu</b>					
18	12:15	Analysis of the Dielectric Constant Data of Relaxors within a Landau Type Theory	<u>Liliana Mitoseriu</u> , Alexandru Stancu, Cristina Elena Fedor	PO	4S017
		Effect of Thermal Fluctuations on Ferroelectric Response: Dynamic Hysteresis	<u>I.Aulika</u> , E.Klotins	PO	4S022
18	12:15	Features of Polarisation Switching in the PSN-PT Ferroelectric Ceramics	<u>K.Bormanis</u> , A.I.Burkhanov, A.V.Shil'nikov, A.Sternberg, S.A.Satarov, and A. Kalvane	PO	4S107
		Ferroelectric-Semiconductive Properties of BaTiO <sub>3</sub> - Based PTCR Ceramics	<u>Liliana Mitoseriu</u> , Cristina Elena Fedor, Massimo Viviani, Maria Teresa Buscaglia, Vincenzo Buscaglia, Andrea Testino, Paolo Nanni	PO	4S015
		Improved Measurement Technique of Dielectric Permittivity Using Time Domain Reflectometry Method	Paul Gasner, Dumitru Sandu, Octavian Rusu, Ovidiu Gabriel Avadanei	PO	S076'
		Investigation of Ce-Doped BaTiO <sub>3</sub> Thin Films Deposited by R. F. Sputtering	M.Cernea, <u>C.Logofatu</u> , M.F.Lazarescu, A.S.Manea, R.V.Ghita	PO	4S063
		Microstructural Considerations on Doped PZT - Type Ceramics	<u>Elena Dimitriu</u> , Rodica Ramer	PO	4S263
		On Some Mixed Oxides in the System CaO-CdO-Bi <sub>2</sub> O <sub>3</sub> -Nb <sub>2</sub> O <sub>5</sub> . II. Cation Distribution Test for an Ideal Aurivillius Structure	<u>Mihail-Liviu Craus</u> , Iulian Rusu, Lucian Lixandru	PO	4S145
		Piezoelectric and Optical Properties of Doped PT-Type Ceramics	<u>E.Dimitriu</u> , V.Ghiordanescu, C.Bunescu, M.Sima	PO	4S249
		Structural Characterization by XRD Method of BaTiO <sub>3</sub> Ceramics Used in PTC Thermistors Made	<u>Catalin Ducu</u> , Viorel Malinovski, Ion Iosub	PO	6S149
		Study of the Local Ordering in PbFe <sub>2/3</sub> W <sub>1/3</sub> O <sub>3</sub> Ferroic Material	<u>Liliana Mitoseriu</u> , Cristina Elena Fedor, Alexandru Stancu, Daniele Marre, Antonio Sergio Siri, Paolo Nanni	PO	4S014
		Study of Transparent Ferroelectric Thin Films by Optical Reflectometry and Ellipsometry	<u>I.Aulika</u> , V.Zauls, K.Kundzins, M.Kundzins, S.Katholy	PO	4S021
		Switching Characteristics in Ferroelectrics Described by First Order Reversal Curves Diagrams	Dan Ricinschi, Alexandru Stancu, <u>Liliana Mitoseriu</u> , Petronel Postolache, Cristina Elena Fedor, Masanori Okuyama	PO	4S016

### Section 5: OPTOELECTRONIC MATERIALS

Day	Hour	Title	Authors	Type	Cod	
		<b>Chairmen: M.Schieber, Gunar Lindstroem , Room C</b>				
16	09:30	Advances in Physical Vapour Deposited Polycrystalline-HgI <sub>2</sub> X-Ray Imaging Detectors	<u>M.Schieber</u> and A.Zuck	I	S242	
16	10:00	Structural Evolution and Optical Properties of TiO <sub>2</sub> Films Prepared by Thermal Oxidation of Ti Films	<u>D.Luca</u> and L. -S. Hsu	I	6S012	
16	10:30	NIR Emission Spectra of Negative Metal-Ions Aggregates	<u>Vladimir Topa</u> , Elena Apostol	I	5S253	
16	11:15	Substrate and Annealing Effects on the Pulsed Laser Deposited TiO <sub>2</sub> Thin Films	L.-S. Hsu, <u>D.Luca</u>	O	6S011	
16	11:30	Field Effect Assisted Thermally Stimulated Currents in CdS Thin Films Deposited on SiO <sub>2</sub> /Si Substrates	I.Pintilie, T.Botila, E.Pentia, G.Sarau, L.Pintilie, <u>M.Lisca</u>	O	5S125	
		<b>Chairmen: Vladimir Topa, Dumitru Luca, Room C</b>				
16	17:15	Microstructure Correlated Properties of Obliquely Vacuum Deposited Ag <sub>2</sub> S Thin Films	<u>D.Karashanova</u> , K.Starbova, N. Starbov	O	5S042	
16	17:30	On the Use of Optical Fibres in Spectrometry	<u>Camelia-Laura Sava</u> , Nicolae Rezsescu	O	5S009	
16	17:45	Influence of the Nature of Solvent on the Properties of Transparent ZnO Films Obtained by Spray Pyrolysis	<u>Mitko Stoev</u> , Borislav Kiosev, Masaya Ichimura	O	5S027	
		<b>Chairmen: Cornelis A.J. Ammerlaan, Ryszard Ciach, Room C</b>				
17	09:30	Spectroscopic Characterisation of Rare-Earth Impurities in Crystals	C.A.J. Ammerlaan	I	5S258	
17	10:00	The Effect of the Electron Irradiation on the Structural and Electrical Properties of A <sup>2</sup> -B <sup>6</sup> Thin Polycrystalline Layers	<u>S.Antohe</u> , L. Ion, V.A.Antohe	I	5S229	
17	10:30	The Industrial Technology of Crystalline Silicon Solar Cells	M. Lipinski, P. Panek, <u>R. Ciach</u>	I	S239	

Day	Hour	Title	Authors	Type	Cod	
		<b>Chairpersons: Valentin Teodorescu, Ioana Pintilie</b>				
17	12:30	A New Method for the Study of Interactions in Spin Transition Solids	<u>Cristian Enachescu</u> , Radu Tanasa, Alexandru Stancu, Jorge Linares, Epiphane Codjovi, Francois Varret	PO	5S052	
		Characterisation of SnO <sub>2</sub> and F Doped SnO <sub>2</sub> Thin Films Prepared by an Ultrasonic CVD Process	Mihaela Girtan, G.I.Rusu	PO	5S117	
		Chemical Bath Deposition and Characterization of Cd <sub>1-x</sub> Zn <sub>x</sub> S Thin Films with High Zn Incorporation	<u>Thitinai Gaewdang</u> and Ngamnit Gaewdang	PO	5S123	
17	12:30	Comparison of the Dielectric Properties for Doped and Undoped TiO <sub>2</sub> Thin Films	<u>Diana Mardare</u> , G.I.Rusu	PO	5S224	
		Deposition of Heterostructures on CIGSE and CdS Base by Means of Repetitive Pulsed Channel Spark Ablation	A.M.Andriesh, <u>V.I.Verlan</u> , L.A.Malahova	PO	2S140	
		Effect of Cd:S ratio on CdS Thin Films Prepared by Photochemical Deposition Method at Room Temperature	<u>Ngamnit Gaewdang</u> and Thitinai Gaewdang	PO	5S124	
		Electronic Conduction of the Sn <sub>1-x</sub> Cu <sub>x/3</sub> Sb <sub>2x/3</sub> O <sub>2</sub> (x≤1/2) Rutile Type Structures	<u>Susana Mihaiu</u> , Oana Scarlat, Gh.Aldica, Maria Zaharescu	PO	5S135	
		On the Mechanism of Electrical Conduction in Polycrystalline ZnSe Films	<u>G.I.Rusu</u> , M.E.Popa, G.G.Rusu, Iulia Salaoru	PO	S244	
		On the Photoelectric Properties of the Evaporated CdTe Thin Films	<u>G.G.Rusu</u> , M.Rusu, M.Caraman	PO	5S071	
		Persistent Photoconductivity in Amorphous As <sub>2</sub> Se <sub>3</sub> Films with Sn Impurity	D.V.Harea, I.A.Vasil'ev, E.P.Colomeico, M.S.Iovu	PO	S208	
		Photocurrent Relaxation in Amorphous As <sub>2</sub> S <sub>3</sub> Films Doped with Pr	M.S.Iovu, E.P.Colomeico, I.A.Vasiliev	PO	5S120	
		Photoresponce Spectra of Intrinsic Oxide- p-InSe Heterojunctions	<u>V.M.Katerynychuk</u> , M.Z.Kovalyuk, M.V.Tovarnitski	PO	5S032	

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		Photovoltaic Modules Based on CdTe thin Films	P.Gashin, I.I.Rusu, Iuliana Caraman, G.I.Rusu	PO	S245
		Radiation Power Spectral Distribution of Electrons Moving in a Spiral in Magnetic Fields	<u>A.V.Konstantinovich</u> , S.V.Melnychuk, I.A.Konstantinovich	PO	5S078
		Resonance Photoconductivity of Chalcogenide Glasses Doped with Er	T.I.Ivanona, A.A.Man'shina, A.V.Kurochkin, A.S.Tverjanovich, Yu.S.Tver'yanovich	PO	S194
		Spectroscopic Characterization of Chemical Bath Deposited Cadmium Sulphide Layers	<u>Rodica Grecu</u> , Ligia Pascu, Maria Ladar, Emil Indrea, Elisabeth-Jeanne Popovici	PO	5S153
		Study of Deposition Conditions for Obtaining Very Uniform Magnetron Sputtered Films	A.Slav, C.Morosanu, M.Ciobanu	PO	6S150
		The Effect of Deposition Parameters on the Structure and Morphology of TiO <sub>2</sub> Thin Films	<u>Diana Mardare</u>	PO	5S225

**Section 6: MATERIALS WITH TARGETED APPLICATIONS AND  
NON-CRYSTALLINE MATERIALS  
SUBSECTION S6A: NON-CRYSTALLINE MATERIALS**

Day	Hour	Title	Authors	Type	Cod
		<b>Chairmen: Costas Raptis, David Drabold, Room A</b>			
16	11:15	Electronic Structure and Properties of GeSe <sub>2</sub> - As <sub>2</sub> Se <sub>3</sub> Amorphous Films	N.D.Savchenko, <u>T.N.Shchurova</u>	O	S221
16	11:30	Glass Forming Ability of Bulk and Mechanically Alloyed Zr <sub>55</sub> Cu <sub>19</sub> Ni <sub>8</sub> Al <sub>8</sub> Si <sub>5</sub> Ti <sub>5</sub> Amorphous Alloys	<u>V. Kapaklis</u> , S. Baskoutas and C. Politis	O	6S018
16	11:45	Photo-Induced Transformations in Metal-Chalcogenide Composite Layers	M.Malyovani, I.Ivan, A.Kikineshi, I.Mojzes, M.Shiplyak, I.Szabo, J.Torok	O	6S235
16	12:00	Change of Exposition Characteristics of Chalcogenide Photoresists During Storage	V.I.Min'ko, P.E.Shepeliavyi, <u>I.Z.Indutnyy</u> , P.F.Romanenko, O.S.Litvin, V.A.Dan'ko	O	S186
		<b>Chairmen: Dimitrij Lezal, Miloslav Frumar, Room A</b>			
16	16:00	Chalcogenide Glasses for Optical Photonic Application	Dimitrij Lezal	I	S213
16	16:30	Density-of-States of Amorphous Carbon Thin Films: The Effect of Nitrogen Addition	Giovanni Fanchini and <u>Alberto Tagliaferro</u>	I	6S264
16	17:15	Low-Frequency Raman Scattering from Ge-As-S and Ge-S-I Chalcogenide Glasses	C.Raptis, Y.C.Boulmetis, A.Perakis, D.Arsova, V.K.Tikhomirov	I	S184
16	17:45	Diagnostics of the Structure and Amorphous Materials Growth Process by Nonlinear Dynamics Metho	<u>Nicolay Bodyagin</u> , Sergey Vikhrov, Stanislav Mursalov, Tatyana Larina	O	S087
16	18:00	Structural Study of Thin Ag-Se-Te Films	T.Petkova, S.Yanopoulos, P.Petkov, S.Vassilev	O	S183
16	18:15	Application of Amorphous Chalcogenide Thin Films in Optical Recording Technologies	J.Teteris	O	6S119
		<b>Chairmen: Alex Kolobov, Mihai Popescu Room A</b>			
17	09:30	Liquid-Liquid Interfacial Tension in Immiscible Binary Al-based Alloys	<u>W.Hoyer</u> , I.Kaban, M.Merkwitz	I	S191
17	10:00	Amorphous Silicon - A Promising Material for Diodes with Ultra Thin Absorber	H.Stiebig	I	S192
17	10:30	Pulsed Laser Deposition of Chalcogenide Glasses	M.Frumar, P.Nemec	I	S223
17	11:15	The New Application of Inorganic Chalcogenide Photoresists in Lift-off Photolithography	<u>M.Veinger</u> , A.Feigel, B.Sfez, M.Klebanov, V.Lyubin	O	6S134
17	11:30	Optical and Visible Luminescence in Ga-La-S Glass Doped with Pr <sup>3+</sup> Ions	A.B.Seddon, D.Furniss, M.S.Iovu, S.D.Shutov, N.N.Syrbu, A.M.Andriesh, G.J.Adriaenssens	O	S057
17	11:45	Microstructure, Properties and Photostructural Changes in Thin Amorphous Chalcogenide Films	K.Starbova, <u>J.Dikova</u> , N.Starbov	O	5S046
17	12:00	Photoplastic Phenomena in Chalcogenide Glasses	<u>Michael Trunov</u> , Vitaly Bilanych	O	6S133
		<b>Chairmen: Walter Hoyer, Miloslav Frumar, Room A</b>			
18	09:30	Applications of Chalcogenide Glass Bulks and Fibres	<u>Xianghua Zhang</u> , Jaques Lucas	I	S195



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18	10:00	Electron Localization and Dynamics in Amorphous Silicon from Realistic Calculations	David Drabold	I	S187
18	10:30	Self-Organization in Non-Crystalline Materials	M.Popescu	I	6S203
18	11:15	Polymorphous-Crystalloid Nature of Vitreous and Liquid H <sub>2</sub> O	Minaev V.S., Timoshenkov S.P., Chernykh S.P.	O	S209
18	11:30	Chemical Interaction of Chalcogenide Vitreous Semiconductors with Absorbed Impurities Induced by $\gamma$ -Irradiation	O.Shpotyuk, A.Kovalskiy, T.Kavetskiy, R.Golovchak	O	6S233
18	11:45	Electron and Phonon Spectra, Transport and Dielectric Properties of Heavy Metal Chalcogenide and Oxide/Halide Glasses	Miroslava Ozvoldova, Viera Trnovcova, Jan Gregus, Vladimir Gasparik, Magdalena Kadlecikova, Jiri Zavadil	O	6S178
18	12:00	Electrical Conductivity of AgI-As <sub>2</sub> Te <sub>3</sub> Glasses	Yu.V.Bobylev, I.V.Murin, E.A.Bychkov, Yu.S.Tver'yanovich	O	S193
18	12:15	Chalcogenide Based Gas Sensors	D.Tsiulyanu, S.Marian, H-D Liess	O	S196

Day	Hour	Title	Authors	Type	Cod
		<b>Chairmen: Helmut Stiebig, Xianghua Zhang</b>			
15	18:00	Adhesion Strength of Arsenium-Containing Films and Multilayers Structures	Onopko V.V., Rubish V.V., Spesivikh A.A., Rubish V.M., Moskalenko N.L., Kostiukevych S.O.	PO	S166
		Band Gap States in (GeSe <sub>2</sub> ) <sub>x</sub> (Sb <sub>2</sub> Se <sub>3</sub> ) <sub>1-x</sub> Alloys	N.D.Savchenko	PO	S220
		Effect of Photo and Thermal Dissolution of Silver into a-Ge <sub>15</sub> Se <sub>85</sub> Glass	Abdolali Zolanvari, N.Goyal & S.K.Tripathi	PO	S206
		Effect of Thermal Annealing on the Electrical Properties of a Se <sub>75</sub> Te <sub>15</sub> Sn <sub>10</sub> Thin Films	Vineet Sharma, Anup Thakur, Pradeep S.Chandel, N.Goyal, G.S.S.Saini, S.K.Tripathi	PO	S147
		Electrical and Optical Properties of Amorphous Pb <sub>x</sub> In <sub>25-x</sub> Se <sub>75</sub> Films with a Dispersion of Nanocrystallites	A.K.Pattanaik, A.Srinivasan	PO	6S105
		Embedded Atom Method Potentials for Liquid FCC Metallic Alloys	Serap Senturk Dalgic, Seyfettin Dalgic, Elif Bagmen, Unal Domekeli	PO	S198
		Features of Photoluminescence and Dielectric Properties of Glass - Ferroelectric SbSI	A.A.Babaev, C.N.Kallaev, S.B.Sultanov, A.A.Amirova, A.M.Dzhabrailov	PO	6S090
		Formation of Complex Structural Units and Structure of As-S-Se-Te-I Glasses	S.R.Lukic, D.M.Petrovic, S.J.Skuban, Lj.Radonjic, Z.Cvejic	PO	S173
15	1800	Glass Transition, Thermal Stability and Local Structure of Niobium Phosphate Glasses	Dana Cacaina, I.Balasz, S.Simon	PO	6S025
		Influence of the Local Structure of the Phonon Dispersion in Disordered Au <sub>x</sub> Cu <sub>1-x</sub> Alloys; Computer Simulation	Ana Ioanid, Costel Bunescu	PO	S109
		Interatomic Pair Potentials and Liquid Structure of Some HCP Rare-Earth Metals	Serap Senturk Dalgic, Seyfettin Dalgic, Murat Celtek, Sedat Sengul	PO	S199
		Lithium Disilicate Glass Basicity in Various Crystallization Stages	D.Radu, P.Balta, C.Mazilu, B.Grigoras, E.Rotiu, M.Eftimie	PO	2S113
		Native Centers of Electrons and Holes Trap in Thin Amorphous Layers As <sub>2</sub> S <sub>3</sub> and As <sub>2</sub> Se <sub>3</sub>	V.I.Verlan	PO	6S139
		New Optical Glasses of the System 100-y[(GeS <sub>2</sub> ) <sub>80</sub> (Sb <sub>2</sub> S <sub>3</sub> ) <sub>20-x</sub> (PbX <sub>2</sub> ) <sub>x</sub> ]yPr <sub>2</sub> S <sub>3</sub>	B.Frumarova, M.Frumar, M.Vlcek, P.Nemec	PO	S222
		Optical Absorption Edge and Structural Disorder in Electron-Irradiated As <sub>2</sub> S <sub>3</sub> Chalcogenide Glasses	I.I.Shpak, I.P.Studeniyak, M.Kranjcec	PO	6S095
		Optical Characterization of a Ge-Se-As Thin Films	S.K.Tripathi, N.Goyal, G.S.S. Saini	PO	S148
		Optical-Band-Gap of Thin Gallium Containing Telluride Films	P.Petkov, M.Wuttig, P.Ilchev, T.Petkova	PO	S182
		Photoconductivity in Amorphous As-Se Films Doped with Metals	M.A.Iovu, M.S.Iovu, E.P.Colomeico	PO	S058

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		Photo-Electrical Properties of Thin Films of $(\text{Ge}_{20}\text{Se}_{80})_{0.98}\text{Sn}_{0.02}$	Anup Thakur, Vineet Sharma, Pradeep S. Chandel, N.Goyal, G.S.S.Saini and <u>S.K.Tripathi</u>	PO	S146
		Photoluminescence and Conductivity of $\text{As}_2\text{S}_3$ and $\text{As}_2\text{S}_5$ Glasses with Small Cold Additions	<u>A.A.Babaev</u> , S.B.Sultanov, A.M.Askhabov, P.P.Khokhlachev	PO	6S089
		Photostructural Conversion and Photoluminescence in Deformed Laminated Crystals of $\text{As}_2\text{S}_3$ , $\text{GeSe}_2$ , $\text{As}_2\text{Se}_3$	<u>A.A.Babaev</u> , S.B.Sultanov, E.M.Zobov, F.S.Gabibov	PO	6S091
		Physical Properties and Structure of Amorphous $\text{Ag}_x[\text{As}_{0.33}\text{S}_{0.67}]_{100-x}$ Prepared by Optically-Induced Diffusion and Dissolution of Silver into Spin-Coated Amorphous $\text{As}_{33}\text{S}_{67}$ Films	M.Krbal, T.Wagner, T.Kohoutek, V.Perina, Mir.Vlcek, Mil.Vlcek, M.Frumar	PO	S205
		Physical Properties and Structure of Amorphous $\text{Ag}_x[\text{Sb}_{0.33}\text{S}_{0.67}]_{100-x}$ Prepared by Optically-Induced Diffusion and Dissolution of Silver Into Spin-Coated Amorphous $\text{Sb}_{33}\text{S}_{67}$ Films and Their Applications for Optical Recording	J.Gutwirth, T.Wagner, T.Kohoutek, Mir.Vlcek, S.Schroeter, V.Kovanda, Mil.Vlcek, M.Frumar	PO	S081
		Physic-Chemical Properties in Pseudoternary Chalcogenide Glasses	P.Petkov, L.Aljihmani, V.Vassilev, S.Boycheva	PO	S181
		Preparation and Properties of Amorphous Materials Based on Chalcogen and Paraffins	M.Popescu, F.Sava, A.Lorinczi, I.N.Mihailescu, G.Socol, M.Leonovici	PO	6S204
		Recording of Subwavelength-Period Gratings in Amorphous Chalcogenide Thin Films	J.Teteris, M.Reinfelde	PO	6S118
		Speciality of Poisson Equation Solution for Non-Crystalline Semiconductors	S.P.Vikhrov, N.V.Vishnyakov, V.G.Mishustin	PO	S174
		Structure of Liquid Alkaline Earth Metals and Metal Alloys Using a New Transferable Local Pseudopotential	Hulya Kes, Serap Senturk Dalgic, <u>Seyfettin Dalgic</u> , Gulsen Tezgor	PO	S200
		Structure Properties of Liquid FCC Transition Metals Using the Embedded Atom Method Potential	Serap Senturk Dalgic, Seyfettin Dalgic, <u>Unal Domekeli</u>	PO	S197
		Ternary Chalcogenide Glasses Modified by Gamma-Irradiation: Post-Irradiation Thermal Restoration Effects	<u>O.Shpotyuk</u> , A.Kovalskiy, T.Kavetskiy, R.Golovchak	PO	S185
		The Modification of n-Si- $\text{Ge}_{33}\text{As}_{12}\text{Se}_{55}$ Interface	N.D.Savchenko, T.N.Shchurova, <u>A.B.Kondrat</u> , V.M.Mitsa	PO	S219
		Transient and Steady State Photoconductivity Studies on Bulk Glasses and Amorphous Films Ge-Te-Pb - Composition and Spectral Dependence	P.Zaheerudeen Saheb, S.Asokan and K.Appaji Gowda	PO	S211

**SUBSECTION S6B: MATERIALS WITH TARGETED APPLICATIONS**

Day	Hour	Title	Authors	Type	Cod	
		<b>Chairmen: Evgeni Budevski, G. Richard Stephenson, Room B</b>				
18	09:30	Carbon Nanotube Composite Materials for Fuel Cells	Evgeni Budevski	I	S210	
18	10:00	Developing Silica-Mounted FTIR-Active Organometalcarbonyl Derivates as Functional Materials	<u>G. Richard Stephenson</u> , Cristopher E.Anson, Tina J.Baldwin, Nigel J.Clayden, Colin S.Creaser, Orsolya Egyed, Mark A.Fey, Wiliam E.Hutchinson, Andrew Kavanagh, Peter I.Walker	I	6S260	
18	10:30	Solid State Gas Sensors: State of The Art and Future Activities	Pietro Siciliano, <u>Simonetta Capone</u>	I	S002	
18	11:15	The Influence of Microstructure on Compressive Stress Characteristics of the FINEMENT-Type Nanocrystalline Sensors	<u>R.Szevczyk</u> , A.Bienkowski, E.Fazakas, L.K.Varga, J.Salach	O	S218	
18	11:30	Possibility of Creating Principally New Class of Sensors of the Physical Magnitudes on Basis of Strongly Compensated Silicon	Bakhadirkanov M.K., Ayupov K. S., Kadirova F.A., <u>Arzikulova M.R.</u> , Bobonov D., Arzikulov E.	O	S007	
18	11:45	Smart Piezoceramic-Elastomer Type Composite Materials	<u>C.Miclea</u> , C.Tanasoiu, A.Iuga, A.Gheorghiu, V.Tanasoiu	O	4S029	

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Day	Hour	Title	Authors	Type	Cod	
		<b>Chairmen: W.Kappel, A.Ioachim</b>				
18	12:15	A New Type of Piezoceramic Transducer for Nondestructive Testings	C. Miclea, A.Gheorghiu, C.Tanasoiu, C.F.Miclea	PO	4S028	
		A Study of the SnO <sub>2</sub> and CuSb <sub>2</sub> O <sub>6</sub> Based Solid Solution: Electrical and Magnetic Properties	Oana Scarlat, Amy C.Payne, Susana Mihaiu, Gh.Aldica, Maria Zaharescu	PO	6S276	
		Active Thermoelectric Probe as an Instrument for Plasma Parameters Investigations	G.Golan and A.Axelevitch	PO	S179	
18	12:15	Carbonaceous Composite Materials for EMI Shielding Applications	C.Banciu, I.Iordache, G.A.Rimbu, A.M.Bondar, I.Pasuk, I.Stamatin	PO	S261	
		Chemical Composition and Structural Study of the Inorganic Fillers Used for Dental Composite Materials	M.Moldovan, C.Prejmerean, G.Furtos, A.Colceriu, L.Vezsenyi, M.Brie, E.Indrea	PO	6S240	
		Cobalt Chemical Deposition on Ceramics	Elena Dimitriu, Mihai Popescu	PO	6S250	
		Deposition and Characterization of Bismuth Oxide Thin Films	V.Fruth, D.Berger, L.Predoana, A.Ciulei, M.Zaharescu	PO	5S130	
		Encapsulation of Radioactive <sup>99m</sup> Tc in Fullerene Cages by Metal Ion Implantation Technique	Olivera Neskovic, Miomir Veljkovic, Tatjana Maksin, Tamara Ivetic, Suzana Velickovic	PO	6S159a	
		Frictional and Wear Properties of Polycrystalline Diamond under Metallic Sliders	Alwatban A.S.	PO	S230	
		High Purity Molybdenic Acids Obtained from Residual Solutions by Use of Alkaloids	Budiu T., Ratiu C., Graban V., Hogman G., Borodi G., Paunescu E.	PO	6S114	
		Microstrip Patch Antenna with Dielectric Substrate	Dumitru D.Sandu, Ovidiu Avadanei, Andrei Ioachim, Gabriel Banciu, Paul Gasner	PO	6S073	
		New Applications of Piezoelectric Effects in Microelectromechanics. Microactuation and Microactuators	M.Ignat, M.L.Negoita	PO	6S141	
		Optical Media for Information Recording Based on Amorphous Layers of Sb-Se-In System	Rubish V.M., Shtets P.P., Rubish V.V., Semak D.G., Tsizh B.R.	PO	S167	
		Phases Investigation in the Antimony Doped Bi <sub>2</sub> O <sub>3</sub> System	V.Fruth, M.Popa, D.Berger, G.Aldica	PO	6S129	
		Plasma Deposition of Alternative TiN/ZrN Multilayer Hard Coatings	M.Balaceanu, V.Braic, M.Braic, A.Manea	PO	6S138	
		Ti/TiN Multilayered Coatings Deposited by Reactive Magnetron Sputtering	M.Balaceanu, M.Braic, P.Racolta, V.Braic	PO	6S137	
		ZST Type Material for Dielectric Resonators and Substrates for Hybrid Integrated Circuits	A.Ioachim, M.I.Toacsan, M.G.Banciu, L.Nedelcu, G.Stoica	PO	S257	

**SUBSECTION S6M: MAGNETIC MATERIALS**

Day	Hour	Title	Authors	Type	Cod	
		<b>Chairpersons: Horia Gavrila, Dana Marinescu, Room D</b>				
15	16:00	Materials for Advanced Magnetic Recording Media	Horia Gavrila, Valentin Ionita	I	S157	
15	16:30	New Soft Chemical Synthesis Method of Some Substituted Ferrites	Rodica Olar, Mihaela Badea, L.Diamandescu, Elena Cristurean, Dana Marinescu, Doina Mihaila-Tarabasanu, N.Stanica, V.Ciupina, Maria Brezeanu	O	4S035	
15	16:45	Structural and magnetic Properties of Nanocrystalline Fe-Gd-Mo-B Alloys	Ioan Mihalca, Kuncser Victor, Ercuta Aurel	O	S241	
		<b>Chairmen: Mihai Cerchez, L.Stoleriu, Room D</b>				
16	16:00	Magnetic Characterization of Strongly Correlated Magnetic Particulate Systems	M.Cerchez, L.Stoleriu, A.Stancu	I	3S043	
16	16:30	Influence of Grain Boundaries Scattering on the Magneto-Transport Properties of Thin Films Multilayers	J.Neamtu, M.Volmer	I	S143	

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16	17:15	Hall Effect in Permalloy Based Magnetic Multylayers	<u>M. Volmer</u> , J. Neamtu	O	6S020
16	17:30	The Influence of the Frequency and Waveform on the Hysteresis Loop of Some NiZnCu Ferrites	<u>Marian Fecioru</u> , Anca Paduraru, Ovidiu Caltun	O	S061
16	17:45	Effects of Light on the Prussian Blue Analogues	<u>Anca Sava</u> , C.Enachescu, Al.Stancu, K.Boukheddaden, F.Varret	O	5S051

Day	Hour	Title	Authors	Type	Cod
		<b>Chairpersons: Jenica Neamtu, Ciceron Berbecaru,</b>			
16	15:15	First Order Reversal Curves (FORC) Diagram for Soft Magnetic Materials	<u>M.Fecioru-Morariu</u> , A.Stancu	PO	2S039
16	15:15	Ising Type Models of Hysteresis Based on Statistical Study of Interactions	Radu Tanasa, Cristian Enachescu, Alexandru Stancu, Jorge Linares, Francois Varret	PO	3S068
		Magnetic Anisotropy of Fe Layers Grown on GaAs(001)	C.M. Teodorescu, G. van der Laan	PO	2S269
		Magnetic Properties of Some Perminvar Ferrites	<u>Anca Paduraru</u> , Marcel Feder, Ovidiu Caltun	PO	S060
		Monte Carlo Methods in Sequential and Parallel Computing of 2D and 3D Ising Model	M.Diaconu, R.Puscasu, Al.Stancu	PO	3S040
16	15:15	The Influence of the Sintering Conditions on the Transport Properties of $\text{La}_{0.44}\text{Ho}_{0.11}\text{Sr}_{0.45}\text{MnO}_{3-\delta}$ and $\text{Nd}_{0.44}\text{Ho}_{0.11}\text{Sr}_{0.45}\text{MnO}_{3-\delta}$ Compounds	Mihail-Liviu Craus, Nicoleta Cornei, Carmen Mita, Ioan Berdan	PO	6S154

**SUBSECTION S6S: SUPERCONDUCTOR MATERIALS**

Day	Hour	Title	Authors	Type	Cod
		<b>Chairmen: T. Yamashita, C.A.J. Ammerlaan, Room C</b>			
17	11:15	Terahertz Responses of Intrinsic Josephson Junction in High Tc Superconducting Single Crystals	<u>T. Yamashita</u> , H.B.Wang,	I	S080
17	11:45	Enhanced Superconducting Properties in Li-doped BPSCCO High-Tc Ceramics	G.Aldica, J.R.Groza, K.Endo, H.Kito, V.Mihalache	I	S236
17	12:15	In-Situ Growths of $\text{MgB}_2$ Thin Films by Pulsed Laser Deposition	<u>M.Ionescu</u> , Y.Zhou, A.Li, J.McKinnon, S.X.Dou, R.Ramer	O	3S088

Day	Hour	Title	Authors	Type	Cod
		<b>Chairmen: Valentin Teodorescu, Gheorghe Aldica</b>			
17	12:30	Bi-2223 SFFD Ceramic Specific Features, Related Problems and Search for New Solutions	<u>P.Badica</u> , G.Aldica	PO	S059
17	12:30	Influence of the Antimony Precursors on the Mechanism Formation of the Superconducting Phases in Bi-Based System	V.Fruth, M.Popa, M.Stir, S.Preda, G.Aldica	PO	6S128

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