ECAPD VIII

Metz

8th European Conference on Applications of Polar Dielectrics

Metz (France), September 5 – 8, 2006

PROGRAM

Laboratoire MOPS

Monday September 4th, Evening

17.30 – 21.30	**Registration and Welcome Party** ***Attention*** *This event will not take place at the conference site but* *in the building of* ***Supélec, 2 rue Edouard Belin, Metz Technopôle*** (you should take bus line Nr. 8 from downtown direction "La Grange aux Bois", and get out at stop ***Technopôle***)

Tuesday September 5th, Morning

8.00 – 9.00	**Registration**
9.00 – 9.30	**Conference Opening**
9.30 – 12.30	**Plenary Session** Chair: P. Günter, *Swiss Federal Institute of Technology, Zürich (Switzerland)*
9.30 - 10.15	**K01** *L. R. Dalton, Ph. A. Sullivan, Y. Liao*; Organic electro-optic materials: Optimizing all properties and incorporation into diverse device structures
10.15 - 10.45	***Coffee break***
10.45 - 11.30	**K02** *S. J. Putterman, B. Naranjo;* What is the maximum spontaneous polarization that can be achieved in a ferroelectric crystal used as a particle accelerator ?
11.30 – 12.00	**I01** *W. Kleemann, J. Dec, V. V. Shvartsman;* Dynamic modes of domain wall motion in relaxors and ferroics
12.00– 12.30	**I02** *Y. Cho, Y. Hiranaga, K. Tanaka , S. Hashimoto, N. Odagawa;* Ferroelectric nano-domain manipulation for next generation ultrahigh density data storage
12.30 - 14.00	***Lunch***

Tuesday September 5th, Afternoon

14.00 – 16.00	**Poster Session I** (Posters P01-P70)		
16.00 – 16.30	***Coffee break***		
16.30 – 18.20	**Session 1**		
	Session 1A: Domains *(Grand Amphithéatre)* Chair: G. Rosenman, *Tel Aviv University (Israel)*	**Session 1B: Ferroelectrets** *(Amphi 1)* Chair: S. Bauer, *Johannes Kepler Univ., Linz (Austria)*	**Session 1C: Relaxors** *(Amphi 2)* Chair: A. Pignolet, *Univ. du Québec, INRS, Varennes (Canada)*
16.30 – 17.00	**I 03** *K. Kitamura, X. Liu, S. Takekawa, K. Terabe;* Domain propagation and stability dominated by defect density in $LiNbO_3$ and $LiTaO_3$	**I 05** *R. Gerhard-Multhaupt;* Designing and engineering large dipoles for polymer-based piezoelectrics	**I 07** *Ch. S. Lynch, T. Liu;* Multiphase Constitutive Behavior of Relaxor Ferroelectric Single Crystals
17.00 – 17.15	**O 01** *M. Bazzan, N. Argiolas, C. Sada, P. Mazzoldi, S. Grilli, P. Ferraro, P. De Natale, L. Sansone ;* High Resolution X - Rays Characterization of Sub - Micron Periodic Domain Structures in Lithium Niobate Crystals	**O 04** *S. Zhukov and H. von Seggern;* Ferroelectrets From Nonpolar Dielectrics: Porous Fluoropolymer Sandwiches	**O 07** *J. Banys, R. Grigalaitis, A. Brilingas, A. Dziaugys, J. Grigas, K.Bormanis, A.Sternberg, V.Zauls;* Broad distribution of relaxation times in PMN-PZN relaxor ceramics
17.15 – 17.30	**O 02** *V. G. Zalessky, S. O. Fregatov;* Study of effect of injected space charge on micrometer-range domain formation in congruent $LiNbO_3$	**O 05** *V. Bovtun, J. Döring, J. Bartusch, U. Beck, A. Erhard, Y. Yakymenko;* Air-coupled ultrasonic transducers based on cellular polypropylene ferroelectret films	**O 08** *M. Detalle, R. Herdier,E. Dogheche, D. Remiens, P. Roussel, E. Fribourg-Blanc;* Electrostrictive and piezoelectric behavior of PMN-PT thin film
17.30 – 17.35	***Short break***		
17.35 – 17.50	17.35 – 18.05 **I 04** *V. Ya. Shur;* State-of-the-art of micro and nano-scale domain engineering in lithium niobate and lithium tantalate	17.35 – 18.05 **I 06** *B. Stadlober, M. Zirkl, S. Bauer;* Integrated organic sensor technology based on fluorinated polymer electrets	**O 09** *V.Yu. Topolov;* $(1–x)Pb(Zn_{1/3}Nb_{2/3})O_3–xPbTiO_3$ single crystals: from heterophase states to a very high piezoelectric activity
17.50 – 18.05			**O 10** *T. Ogawa and R. Koto;* Realization of giant piezoelectricity on k_{31} mode in $Pb(Mg_{1/3}Nb_{2/3})O_3$-$PbTiO_3$ single-crystal plates
18.05 – 18.20	**O 03** *G. Leclerc, G. Poullain, R. Bouregba, D. Chateigner and J. Ricote;* Influence of epitaxial strains induced by the substrate on the domain configuration of PLZT thin films	**O 06** *M. Wegener, W. Wirges, O. Voronina, R. Gerhard-Multhaupt, M. Dansachmüller, S. Bauer;* Sensing of dynamic as well as static pressures with a single ferroelectret	**O 11** *V. Shvartsman, W. Kleemann, A. Kholkin;* Investigation of the polar structure in the „ergodic" relaxor state by piezoresponse force microscopy

Wednesday September 6th, Morning (First session, 1/2)

9.00 – 10.30	**Session 2**		
	Session 2A: Piezoelectric Actuators *(Grand Amphithéatre)* Chair: E. Ringgaard, *Ferroperm Piezoceramics A/S, Kvistgård (Denmark)*	**Session 2B: Organic Nonlinear Optics** *(Amphi 1)* Chair: I. Biaggio, *Lehigh Univ., Bethlehem (USA)*	**Session 2C: Modeling, phase transitions and ferroelectricity** *(Amphi 2)* Chair: W. Kleemann, *Univ. Duisburg-Essen (Germany)*
9.00 – 9.30	**I 08** *F. Claeyssen, R. Le Letty, F. Barillot, N. Lhermet, M. Debarnot;* Amplified piezoelectric actuators : Static & dynamic applications	**I 09** *F. De Matteis;* Polymeric and hybrid materials for electrooptical devices: polar order dynamics	**I 10** *Y. Yoshimura, M. Muraoka, A. Kojima, H. Hiraoka, K. Tozaki;* Reinterpretation of evolution of the unit cell by phase transitions in $BaTiO_3$ single crystal
9.30 – 9.45	**O 12** *H. Kodama, K. Yamamoto, M. Date, E. Fukada;* Vibration Control of Curved Piezoelectric Sheets using Negative Capacitance Circuits	**O 16** *D. Passeri, A. Bettucci, A. Alippi, A. Belardini, F. Michelotti, A. Rousseau, A. Ratsimihety;* Electro-optic and electro-mechanical response of side-chain copolymers: a comparative study on the chromophore concentration dependence	**O 22** *A. Richter, P. Rydlo;* Dynamic Properties Modelling of Ultrasonic Motor with Travelling Elastic Wave
9.45 – 10.00	**O 13** *Y. Tajitsu, H. Ueda, K. Tahara, K. Imoto, M. Date, E. Fukada;* Basic studies of elasticity control of lead zirconate titanate (PZT) ceramic and its application to intercepting noise technology	**O 17** *O.-P. Kwon, A. Choubey, B. Ruiz Santos, L. Mutter, A. Schneider, M. Jazbinsek, P. Günter, V. Gramlich;* New polar organic nonlinear optical polyene crystals: High quality single crystalline thin films by melt and vapor growth	**O 20** *L. Baudry;* Finite size effects and dynamical properties of mesoscopic ferroelectrics
10.00 – 10.15	**O 14** *T. Sluka, P. Mokry;* Feedback Control of a Smart Piezoelectric Actuator Elastic Properties in Vibration-isolating System	**O 18** *A. Belardini, F. Michelotti, A. Rousseau, A. Ratsimihety;* Temperature stability of the electro-optic response of highly fluorinated side chain organic copolymers	**O 21** *Withdrawn*
10.15 – 10.30	**O 15** *V. S. Vidyarthi, G. Suchaneck, C. Thiele, G. Gerlach;* In-plane polarized $PbZr_{0.48}Ti_{0.52}O_3$ thin films for d_{33} -mode MEMS devices		**O 19** *Withdrawn*
10.30 – 11.00	***Coffee break***		

Wednesday September 6th, Morning (Second session, 2/2)

11.00 – 12.30	Session 3		
	Session 3A: Thin Films *(Grand Amphithéatre)* Chair: D. Rémiens, *IEMN, Villeneuve d'Ascq (France)*	**Session 3B: Optics and Nonlinear Optics** *(Amphi 1)* Chair: A. Sigov, *MIREA Techn. Univ., Moscow (Russia)*	**Session 3C: Piezoelectric properties and devices** *(Amphi 2)* Chair: E. Patoor, *LPMM, ENSAM Metz, (France)*
11.00 – 11.30	**I 11** *J. Chu;* Study on the ferroelectric thin films for uncooled infrared detection	**I 12** *I. Biaggio;* Optical Methods for the Investigation of Fundamental Microscopic Parameters in Polar Dielectrics	**I 13** *E. Ringgaard, R. Lou-Moeller, T. Bove, A. F. Pedersen;* Piezoceramic thick films for high-frequency and miniaturised devices
11.30 – 11.45	**O 23** *A. Sigov, K. Vorotilov, E. Mishina, O. Zhigalina;* Perovskite Ferroelectric Thin Films And Nanostructures	**O 27** *L. Bohaty, P. Becker, A.A. Kaminskii;* New materials for optical frequency conversion via stimulated Raman scattering and cascaded chi(2)- chi(3) processes	**O 31** *M. Es-Souni, A. Piorra, J. Mandzo, S. Maximov;* PZT/Si and PZT/Metal Membranes for Resonant Sensor applications
11.45 – 12.00	**O 24** *N. Boulay, M. Cuniot-Ponsard, J.-M. Desvignes, A. Bellemain;* Dielectric and ferroelectric properties of $Sr_xBa_{1-x}Nb_2O_6$ (SBN:x) thin films	**O 28** *T. Bach, M. Jazbinsek, P. Günter, A. A. Grabar, I. M. Stoika, Yu. M. Vysochanskii;* Fast optical phase conjugation in Te-doped $Sn_2P_2S_6$ at 1.06 μm	**O 32** *A. Bardaine, P. Boy, P. Belleville, O. Acher, F. Levassort;* A composite sol-gel process for piezoelectric thick films
12.00 – 12.15	**O 25** *M. Tyunina;* Dielectric hysteresis in thin-film paraelectric $(Ba,Sr)TiO_3$	**O 29** *T. Schneider, D. Leduc, C. Lupi, H. Gundel;* Optical characterization of a three layer waveguide structure by m-lines spectroscopy	**O 33** *I. L. Baginsky, E. G. Kostsov;* High energy-density MEMS based on thin ferroelectric layers
12.15 – 12.30	**O 26** *A.S. Sidorkin, L.P. Nesterenko, G.L. Smirnov, V.A. Sidorkin, A.L. Smirnov, S.V. Ryabtsev;* Fatigue of lead titanate thin ferroelectric films	**O 30** *E. Mishina, A. Fedyanin, A. Sigov, A. Vasiliev, A. Zaitsev, V. Muhortov, T. Rasing;* Ferroelectric Nanostructures and Photonic Crystals	**O 34** *A.Y. Belov, W.S. Kreher;* Micromechanics of ferroelectrics: from domain walls to piezoceramic devices
12.30 – 14.00	***Lunch***		

Wednesday September 6th, Afternoon

14.00 – 20.00	***Excursion*** *(Malbrouck Castle and Moselle River)*

Thursday September 7th, Morning (First session, 1/2)

9.00 – 10.30	**Session 4**		
	Session 4A: Dielectric, Microwave and THz properties *(Grand Amphithéatre)* Chair: H. Gundel, *IREENA, Univ. of Nantes (France)*	**Session 4B: Photorefractivity and short pulse optics** *(Amphi 1)* Chair: M. Zgonik, *Josef Stefan Inst., Univ. Ljubljana (Slovenia)*	**Session 4C: Piezoelectric and acoustic properties** *(Amphi 2)* Chair: Ch. Lynch, *Georgia Inst. Technol., Atlanta (USA)*
9.00 – 9.30	**I 14** *S. Kamba, D. Noujni, S. Denisov, V. Bovtun, S. Veljko, M. Berta, J. Hlinka, P. Kuzel, F. Kadlec, J. Petzelt, K. Brinkman, Y. Wang, N. Setter, M. Tyunina, J. Levoska, H. Amorin, E. Costa, A. Kholkin, Ph. Boullay;* THz and microwave properties of perovskite relaxors and ferroelectrics with Aurivillius structure	**I 15** *K. Buse, O. Beyer, D. Maxein, P. Reckenthäler, I. Breunig, T. Woike, B. Sturman;* Interaction of Femtosecond Light Pulses in Lithium Niobate Crystals	**I 16** *D. Damjanovic, M. Budimir, M. Davis;* Piezoelectric properties and a free energy instability in perovskite crystals
9.30 – 9.45	**O 35** *J. A. L'huillier, R. Beigang, G. Torosyan, M. Theuer;* Nonlinear generation of terahertz radiation in bulk,periodically and aperiodically poled lithium niobate	**O 39** *A. A. Grabar, I. V. Kedyk, I. M. Stoika, I. P. Pritz, K. V. Bodnar, Yu. M. Vysochanskii;* Doped $Sn_2P_2S_6$ crystals with enhanced photorefractive properties	**O 43** *V. Samulionis, J. Banys, Yu. M. Vysochanskii;* Piezoelectric and ultrasonic studies of mixed $CuInP_2(S_xSe_{1-x})_6$ layered crystals
9.45 – 10.00	**O 36** *A. Schneider, M. Stillhart, F. Brunner, P. Günter;* Polar organic crystals for the generation of terahertz pulses	**O 40** *A. Shumelyuk, A. Hryhorashchuk, S. Odoulov;* Effect of secondary carriers on two-beam coupling and coherent oscillation in ferroelectric $Sn_2P_2S_6$	**O 44** *M. El Hakiki, J. Eschbach, D. Rouxel, B. Vincent, S. Vialle, J.K. Krüger, O. Elmazria, P. Alnot;* Elastic constants of potassium niobate studied by Brillouin spectroscopy
10.00 – 10.15	**O 37** *V. Laur, G. Tanné, P. Laurent, F. Huret, A. Rousseau, V. Bouquet, M. Guilloux-Viry;* KTN dielectric properties at microwave frequencies: substrate influence	**O 41** *S. M. Kostritskii, O. G. Sevostyanov, P. Bourson, M. Aillerie, M. D. Fontana, D. Kip;* Comparative study of composition dependences of photorefractive and related effects in $LiNbO_3$ and $LiTaO_3$ crystals	**O 45** *R. Vlokh, I. Martynyuk-Lototska, I. Girnyk, I. Trach;* Acoustooptic properties of A_2BX_4 crystals (A=Cs, Hg; X=Cl, Br) crystals
10.15 – 10.30	**O 38** *G. Velu, G. Houzet, L. Burgnies, J. C. Carru, A. Marteau, D. Lippens, P. Mounaix, M.Tondusson, E. Nguema;* Electrical characterizations of paraelectric BST thin films up to 1THz. Realisation of microwave phaseshifters	**O 42** *S. M. Shandarov, M. V. Borodin, A. M. Kirillov, N. I. Burimov;* Surface structure of photorefractive grating in X-cut lithium niobate crystals	**O 46** *J. Nosek, M. Sulc, M. Pokorny, C. Soyer, E. Cattan,D. Remiens;* Thin $Pb(Zr_xTi_{1-x})O3$ (PZT) rhombohedral compositions deposited on the Si-substrate and its non-linear piezoelectric response
10.30 – 11.00	***Coffee break***		

Thursday September 7th, Morning (Second session, 2/2)

11.00 – 12.30	**Session 5**		
	Session 5A: Periodically poled $LiNbO_3$ and devices *(Grand Amphithéatre)* Chair: K. Kitamura, *NIMS, Tsukuba (Japan)*	**Session 5B: Bulk materials** *(Amphi 1)* Chair: A. Kojima, *Univ. of Shiga Prefecture, Shiga (Japan)*	**Session 5C: Characterization methods** *(Amphi 2)* Chair: R. Gerhard-Multhaupt, *Univ. Potsdam (Germany)*
11.00 – 11.30	**I 17** *M. P. De Micheli;* Periodic poling and optical waveguide fabrication in $LiNb0_3$	**I 18** *E. V. Zharikov;* Crystal growth from melt controlled by low frequency axial vibration	**I 19** *G. Le Rhun, I. Vrejoiu, L. Pintilie, D. Hesse, M. Alexe, U. Gösele;* Ferroelastic domain wall mobility in ferroelectric thin films
11.30 – 11.45	**O 47** *S. Grilli, P. Ferraro, L. Sansone, M. Paturzo, P. De Natale, S. De Nicola, G. Pierattini;* Fabrication of sub-micron period surface structures in $LiNbO_3$	**O 51** (former P 133) *K. Shimamura, E. G. Villora, Z. Huarong, S. Takekawa, K. Kitamura;* Crystal growth and periodical poling of $BaMgF_4$ for UV/VUV nonlinear optical applications	**O 54** *T. Jungk, Á. Hoffmann, E. Soergel;* Investigation of the imaging mechanism of ferroelectric domains with piezoresponse force microscopy
11.45 – 12.00	**O 48** *G. Berth, V. Quiring, W. Sohler, A. Zrenner;* Depth-resolved analysis of ferroelectric domain structures in Ti:PPLN waveguides by nonlinear confocal laser scanning microscopy	**O 53** *J. Barrel, E. Stytsenko;* Polarisation switching in $Ba_xSr_{1-x}TiO_3$ ferroelectrics in the vicinity of the Curie point	**O 55** *M. Pokorny, R. Herdier, D. Rémiens, E. Dogheche, M. Sulc;* Comparisons of d_{33} measurement methods of PZT thin films on silicon substrate. Advantages and disadvantages of Double-Beam laser Interferometer (DBI) and Single-Beam laser vibrometer (LDV)
12.00 – 12.15	**O 49** *G. Kitaeva, S. Kovalev, K. Kuznetsov, I. Naumova, A. Tuchak, A. Penin;* Diagnostics of Czochralski–grown periodically poled Mg:$LiNbO_3$ crystals for THz generation and detection	**O 52** *Withdrawn*	**O 56** *T. Granzow, M. Molberg, T. Woike, M. Goulkov;* Electrooptics, photorefractivity and one-beam holography: Optical characterization of polar structures on a μm scale
12.15 – 12.30	**O 50** *T. Del Rosso, G. Margheri, S. Trigrai, S. Sottini, D. Grando, F. Prudenzano, A. D'Orazio, V. Petruzzelli, M. De Sario;* Temperature sensing in EMD environments through SHG in PPLN		**O 57** *Withdrawn*
12.30 – 14.00	***Lunch***		

Thursday September 7th, Afternoon

14.00 – 16.00	**Poster Session I** (Posters P01-P70)		
16.00 – 16.30	***Coffee break***		
16.30 – 18.20	**Session 6**		
	Session 6A: **Photonics and waveguides** *(Grand Amphithéatre)* Chair: F. Michelotti, *Univ. La Sapienza, Roma (Italy)*	**Session 6B:** **Relaxors and ceramics** *(Amphi 1)* Chair: J. Banys, *Vilnius University, (Lithuania)*	**Session 6C:** **Ferroics and multiferroics** *(Amphi 2)* Chair: S. Putterman, *UCLA, Los Angeles (USA)*
16.30 – 17.00	**I 20** *G. Rosenman;* Physics and Engineering of Ferroelectric Nanodomain Configurations for Nonlinear Photonics	**I 21** *J. Kreisel, P. Bouvier, B. Dkhil*; Effect of high-pressure on relaxor ferroelectric and related materials	**I 24** *H. Kohlstedt, N. A. Pertsev, M. Indlekofer, A. Petraru, A. Kaiser, R. Waser;* New Perspectives for Tunneling Electrons
17.00 – 17.15	**O 58** *S.M. Kostritskii, P. Moretti;* Specific behavior of refractive indices in $LiNbO_3$ crystals and waveguides implanted at low dose of helium ions	17.00 – 17.30 **I 22** *P. M. Vilarinho;* Modification of the Incipient Ferroelectric Behaviour of $SrTiO_3$	**O 64** *I. K. Bdikin, A. L. Kholkin, R.F. Mamin;* Electric Field Induced Polar State in Doped Manganites via Scanning Probe Microscopy
17.15 – 17.30	**O 59** *T. Ruiz, A. Méndez, M. Carrascosa, J. Carnicero, A. García-Cabañes, J. Olivares, F. Agulló-López, A. García, G. García;* Tailoring the refractive index profiles of proton exchange $LiNbO_3$ waveguides by swift heavy ion irradiation		**O 65** *J. Slutsker, I. Levin, A. Artemev, A. L. Roytburd;* Self-Assembled Multiferroic Thin Film Nanostructures
17.30 – 17.35	***Short break***		
17.35 – 17.50	**O 60** *R. Radouani, M. Abarkan, R. Claverie, J.P. Salvestrini, R. Ferrière, M. Mostefa, L. Guilbert, M. D. Fontana;* Time dependences of electric field in optical waveguides in $LiNbO_3$ and their relation with DC drift	17.35 – 18.05 **I 23** *T. W. Button;* New Piezoelectric Devices through Advanced Ceramics Processing	17.35 – 18.05 **I 25** *R. Nechache, C. Harnagea, A. Pignolet, F. Normandin, T. Veres;* Epitaxial thin films of the new multiferroic material Bi_2FeCrO_6: Growth, structure and properties
17.50 – 18.05	**O 61** *A. Guarino, M. Jazbinsek, R. Degl'Innocenti, G. Poberaj, P. Günter;* Optical Waveguides in $Sn_2P_2S_6$ Produced by Low Fluence MeV He^+ Ion Implantation		
18.05 – 18.20	**O 62** *J. Carnicero, Á. Méndez, M. Carrascosa, Á. García;* Photorefractive alpha-phase PE:$LiNbO_3$ waveguides prepared on iron doped substrates	**O 63** *A. Kania, Ph. Daniel, A. Slodczyk;* Investigation of the cubic-tetragonal–orthorhombic phase transition sequence in 0.5PMN-0.5PT and 0.36PMN-0.64PT single crystals by X-ray, dielectric and Raman scattering techniques	**O 66** *Y.K. Fetisov, G. Srinivasan;* Magnetoelectric effect in multilayer ferromagnetic-ferrolectric structures and its application in electronics

20.00 –	***Conference Dinner*** *(Salle de l'orangerie* of the ***Arsenal de Metz****)*

Friday September 8th, Morning

9.00 – 10.30	**Session 7**	
	Session 7A: Devices and modeling *(Grand Amphithéatre)* Chair: A. J. Bell, *University of Leeds (UK)*	**Session 7B: Nanoparticles and Nanocomposites** *(Amphi 1)* Chair: H. Kohlstedt, *Forschungszentrum Juelich (Germany)*
9.00 – 9.30	**I 26** *M. Copic, N. Vaupotic;* Modeling of Ferroelectric Liquid Crystal Displays	**I 28** *S. Mornet, C. Ellisalde, F. Weill, E. Sellier, O. Bidault, O. Nguyen, M. Maglione;* New Stategies for ferroelectric nanocomposites
9.30 – 9.45	9.30 – 10.00 **I 27** *Ch. Muller, N. Menou, Ch. Turquat, L. Goux, J. G. Lisoni, D. J. Wouters;* Microstructural diagnostic of ferroelectric capacitors integrated in FeRAM memories: correlation with reliability performances	**O 69** *S. Wada, T. Hoshina, H. Yasuno, H. Kakemoto, T. Tsurumi;* Particle Size and Temperature Dependence of THz-region Dielectric Properties for $BaTiO_3$ Nanoparticles
9.45 – 10.00		**O 70** *C. Bousquet, C. Elissalde, C. Aymonier, F. Cansell, M. Maglione;* Design of low loss ferroelectric nanocomposites using supercritical fluids
10.00 – 10.15	**O 67** *I. Graz, M. Kaltenbrunner, Ch. Keplinger, R. Schwödiauer, S. Bauer, S. Lacour, S. Wagner;* Ferroelectret field-effect switch	**O 71** *Y Mugnier, C Galez, R. Le Dantec, J. Bouillot, L. Bonacina, F. Courvoisier, J Extermann, J.-P. Wolf;* Non linear optical imaging of polar $Fe(IO_3)_3$ nanocrystals
10.15 – 10.30	**O 68** *M. Paturzo, P. Ferraro, P. De Natale, S. De Nicola;* Electro-optic modulated phase array in hexagonally poled lithium niobate for flexible array illuminator device	**O 72** *Withdrawn*
10.30 – 11.00	***Coffee break***	
11.00 – 12.15	**Plenary Session** Chair: Ch. Muller *L2MP, Univ. du Sud Toulon Var, La Garde (France)*	
11.00 – 11.45	**K 03** *D. J. Wouters;* Emerging non-volatile memory technologies: requirements, status, and future prospects	
11.45 – 12.15	**Conference Closing**	
12.15 – 13.45	***Lunch***	

POSTER SESSION I (P 01 – P 70)

Tuesday September 5, 14.00 – 16.00

Number	Title	Authors
P 01	Acoustic emission study of PZN-7%PT crystals	E. Dul'kin, M. Roth, P.-E. Janolin, B. Dkhil
P 02	Size effects and depolarization field influence on the phase diagrams of ferroelectric nanoparticles	A. N. Morozovska, E. A. Eliseev, M. D. Glinchuk
P 03	The study of screening phenomena under the nano-domain formation in ferroelectrics-semiconductors	A. N. Morozovska, E. A. Eliseev
P 04	Phase dependence of phonon spectra and electro-optic properties of proton-exchanged $LiTaO_3$ waveguides	S. M. Kostritskii, Yu. N. Korkishko, V. A. Fedorov, R.F. Tavlykaev, R.V. Ramaswamy
P 05	Examination of operation of PZT-film - Si-substrate structures as pyroactive memory elements	S. L. Bravina, N. V. Morozovsky, D. Remiens, C. Soyer
P 06	Highly oriented (Ca, Sr)$Bi_4Ti_4O_{15}$ ceramics prepared with the aid of High magnetic field	Z. Cao, K. Sassa, S. Asai
P 07	Fast electrostatic microcommutators based on the ferroelectric films	E. G. Kostsov and A. A.Kolesnikov
P 08	Interband photorefraction at visible wavelengths in $Sn_2P_2S_6$	R. Mosimann, D. Haertle, M. Jazbinsek, G. Montemezzani, P. Günter
P 09	Holographic recording in the thermoplastic mediums with organic dyes of different polarity	N. A. Davidenko, V. A. Pavlov, N. G. Chuprina, N. N. Kuranda, A. A. Ishchenko
P 10	PFM study of domain structure and ferroelectric properties of $(Pb_{1-x}La_x)(Zr_{0.65}Ti_{0.35})O_3$ ceramics	D. A. Kiselev, I. K. Bdikin, V. V. Shvartsman, A. L. Kholkin
P 11	Electron-phonon mechanism of mixed displacive and order-disorder phase transitions in oxide perovskites and photoferroelectricity	P. Konsin and B. Sorkin
P 12	Electroluminescence in TGS in fast raising electric fields	S. A. Sadykov, A. Sh. Agalarov, S. N. Kallaev
P 13	Far infrared spectroscopy of $Ba_xSr_{1-x}TiO_3$ ceramics	T. Ostapchuk, S. Veljko, J. Petzelt, A. Pashkin, M. Dressel, A. Sotnikov, E. Smirnova, V. Lemanov
P 14	Amplitude dependencies of internal friction in $PbMg_{1/3}\ Nb_{2/3}\ O_3$	V. Dyadkin and O. Ivanov
P 15	Growth and physical properties of $K_{1-y}\ Na_y\ Ta_{1-x}\ Nb_x\ O_3$ thin films on $KTaO_3$:Ba substrates	S. Aravazhi , C. Herzog, G. Poberaj and P. Günter
P 16	Maxima of effective parameters of novel piezo-composites	V. Yu. Topolov, A. V. Krivoruchko and C. R. Bowen
P 17	Electromechanical properties of structured 0-3 composites based on ferroelectric $PbTiO_3$-type ceramic	V. Yu. Topolov and A. V. Krivoruchko
P 18	Raman micro-spectroscopy as a probe to investigate PPLN structures	R. Hammoum, P. Bourson, M. D. Fontana and V. Ya. Shur
P 19	Aging, memory and O vacancies in the PLZT system	F. Cordero, F. Craciun, A. Franco, C. Galassi
P 20	Critical behavior of ferroelectric $SrTi^{18}O_3$	C. Filipic and A. Levstik
P 21	Ferroelectric Based Multilayered Antireflection Coating System	F. Karaömerlioglu, A. Mehmetov

P 22	Fluctuation-induced tunneling in TiO_2-derived nanotube pellets	A. Levstik, C. Filipic, Z. Kutnjak, P. Umek, and D. Arcon
P 23	Simultaneous quasi-phase-matched second and third harmonic generation obtained with a single periodicity of spontaneous polarization reversal	M. Robles and R. S. Cudney
P 24	Sellmeier equation for congruently grown lithium tantalate	N. A. Barboza and R. S. Cudney
P 25	Brillouin light scattering in KNSBN:Cu - uniaxial relaxor ferroelectrics with tungsten bronze structure	A.I. Fedoseev, S.G. Lushnikov, J.-H. Ko and S. Kojima
P 26	Large-Scale Calculations in Solids: Application to the Low-Dimensional $Sn_2P_2S_6$ Ferroelectrics	K.Z. Rushchanskii and Yu.M. Vysochanskii
P 27	Monte Carlo simulation of ferroelectric spontaneous polarization	F. Papin, R. Renoud, H. Gundel
P 28	A method to determine H^+ concentration in dehydrated iron doped lithium niobate using photorefractive beam fanning effect	G. Mandula, M. A. Ellabban, M. Fally
P 29	Refractive index modulation in periodically poled lithium niobate crystals	N. Argiolas, M. Bazzan, C. Sada, P. Mazzoldi, A. D. Capobianco, F. M. Pigozzo, E. Autizi
P 30	Smart-Guide Ferroelectric Thin Films for Integrated Optics	G. Poberaj, A. Guarino, and P. Günter
P 31	Non-linear hysteresis properties of PZT ceramics	L. Burianova, P. Hana, M. Suchankova, S. Panos
P 32	Investigation of piezoelectric effect in $LiNbO_3$ crystals using high-resolution x-ray diffractometry and topography	D. Irzhak, D. Roshchupkin, D. Punegov
P 33	Investigation of periodic domain structures in lithium niobate crystals	L. Kokhanchik, and D. Irzhak
P 34	Dielectric properties of BBT ceramics	P. Keburis, J. Banys, A. Brilingas, Z. Bortkeviã, A. Kholkin
P 35	Optical and ferroelectrical properties of VTE prepared $LiTaO_3$	V. Wesemann, D.Rytz, A. Quosig, J. A. L'huillier
P 36	Sintering behavior of hard-soft PZT-type composite ceramics	C. Miclea C. Tanasoiu, I. Spanulescu, C. F. Miclea, T. Lucian, M. Cioanhger
P 37	New inhomogeneous ferroelectric $CuIn_{0.7}Cr_{0.3}P_2S_6$ crystal with ferroelectric and dipolar glass coexistence	J. Banys, J. Macutkevic A. Gutgalis, V. Samulionis, Yu. Vysochanskii
P 38	Dielectric investigation of Betaine Phosphite (BPI) confined in SBA–15 molecular sieve materials	M. Kinka, A. Meskauskas, J.Banys, G. Völkel, W. Böhlmann, V. Umamaheswari, M. Hartmann, A. Pöppl
P 39	Electro-optic response of ZnO sputtered films: polarisation and space charge contributions	L.Dominici, A. Belardini, F. Michelotti, G.Schoer, J.Mueller
P 40	Dynamic and reconfigurable light induced waveguides in ferroelectrics	M. Gorram, G. Montemezzani
P 41	Photoconductive and electro-optical properties of Hf doped Lithium Niobate crystals	F. Rossella, P. Galinetto, D. Grando, V. Degiorgio, E. Kokanyan
P 42	Origin of the reversed fatigue and wake-up effects in PZT ceramics and thin films	V. Ya. Shur, I. S. Baturin, M. S. Nebogatikov, D. K. Kuznetsov, R. Waser, T. Schneller, D. Lupascu, Y. Zhang, C. Muller, N. Menou
P 43	Study of field-induced evolution of the domain geometry in lithium niobate and lithium tantalate single crystals by in-situ optical method	V. Ya. Shur, M. S. Nebogatikov, I. S. Baturin, S. A. Negashev, A. I. Lobov, E. A. Rodina, K. Gallo

P 44	Modification of the domain kinetics in congruent lithium niobate by proton exchanged surface layers	V. Ya. Shur, E. I. Shishkin, D. K. Kuznetsov, A. I. Lobov, M. A. Dolbilov, S. Tascu, P. Baldi, M. P. De Micheli, K. Gallo
P 45	Thermo-Optic Effects and Opto-Electrical Bias in an Electro-Optic modulation System	H. L. Saadon, N. Theofanous, M. Aillerie, M. D. Fontana
P 46	Texture and microstructure characterization of YBCO and NBCO bulk superconductors	J. Wang, N. Maloufi, N. Gey, B. Douine, Ch. Bellouard, C. Esling
P 47	Mesophase photorefractive polymers in transmission and reflection grating geometry	O-P. Kwon, S-J. Kwon, M. Jazbinsek, G. Montemezzani, P. Günter, S-H. Lee
P 48	Linear and nonlinear optical properties of some $A^{V}B^{VI}C^{VII}$: first-principle calculation	H. Akkus and A. M. Mamedov
P 49	Superlattices of ferroelectric barium strontium titanate	I. Jaakola, J. Levoska, M. Tyunina
P 50	Piezoelectric elements and possibility their electronics driving by the use FPGA circuits	Z. Pliva, M. Kolar, P. Dosek, T. Sluka
P 51	Coherent oscillation in semilinear cavity well above the threshold	P. Mathey, M. Grapinet, H. R. Jauslin, B. Sturman, S. Odoulov
P 52	Unusual amplification behavior of photo-induced sub-surface scattering	A. Selinger, V. Dieckmann, M. Imlau
P 53	*Withdrawn*	
P 54	Polarization Switching In Ferroelectric Thin Films Studied by Optical Second Harmonic Generation	N. Sherstyuk, A. Sigov, V. Muhortov
P 55	Comparative nonlinear optical coefficients measurements of BBO single crystals as function of the growth method	R. Maillard, A. Maillard, A. Bahouka, K. Polgar
P 56	Defects and impurities in BaB_2O_4 Czochralski crystals	A. Bahouka, A. Maillard, R. Maillard
P 57	*Withdrawn*	
P 58	Determination of the principal stresses in polycrystalline alumina films using fluorescence polarization	S. Margueron and D. R. Clarke
P 59	Study of the flexoelectric phenomenon in ceramic lead magnesium niobate-lead titanate special shaped samples under uniaxial stress	P. Hana
P 60	Ultrafast Control of Ferroelectric Electro-optical Modulator	M. Kuznetsov, N. Ilyin, V. Muhortov
P 61	Model of defect structure in Mg-doped $LiNbO_3$ crystals	F. Abdi , M. D. Fontana, M. Aillerie, P. Bourson, R.Mouras
P 62	Dielectric and Raman characterizations of $LiTaO_3$, Nd:$LiTaO_3$ (0,22% and 0,44% wt Nd_2O_3) single crystals	E. M. Lotfi, A. Assani, M. Zriouil, P. Bourson, M. Aillerie, B. Elouadi
P 63	Investigation of local switching processes in $Pb(Zr_xTi_{1-x})O_3$ films by Piezo-response Force Microscopy	I. Bdikin, A. Kholkin, S.-H. Kim
P 64	Photonic crystals in dielectric materials	M. R. Beghoul, R. Kremer, A. Boudrioua, B. Fougere, C. Darraud, J. C. Vareille, P. Moretti
P 65	Microstructuring lithium niobate by pulsed laser ablation	F. Meriche, R. Kremer, A. Boudrioua, E. Clauss, E. Fogarassy, E. Dogheche

P 66	Non-classical electromechanical and optical properties of classical ferroelectrics	K. Roleder, A. Ziebinska, K. Szot, I. Franke, K. Wieczorek, M.Górny, A. Soszynski, J. Koperski
P 67	Substituted Lead Titanate Piezoelectric Ceramics Substrates for SAW Resonators	A. M. Moisin, G. Sajin, A.-I. Dumitru, F. Craciunoiu
P 68	Micro-mechanical approach for ferroelectric behaviours of piezoceramics	N. Fakri, L. Azrar, T. Ben Zineb, M. Elhadrouz, E. Patoor
P 69	Micromechanical model for ferroelectric and ferroelastic relaxor	M. Elhadrouz, E. Patoor, T. Ben Zineb
P 70	Raman probing of proton exchange waveguides in lithium niobate	P. Bourson, A. Harhira, Y. Zhang, L. Guilbert, M. D. Fontana, M. P. De Micheli

POSTER SESSION II (P 71 – P 140)

Thursday September 7, 14.00 – 16.00

Number	Title	Authors
P 71	Pyroelectric thermowave probing and polarization reversal in near morphotropic boundary doped PZT ceramics	S. Bravina, N. Morozovsky, A. Morozovska, B. Guiffard, L. Lebrun, D. Guyomar
P 72	Pyroelectric investigations of $LiNbO_3$ and $LiTaO_3$ single crystals for applications in the wide temperature range	S. Bravina, N. Morozovsky, A. Morozovska, S. Gille, J.-P. Salvestrini, M. Fontana
P 73	Holographic recording and electrooptical effect in the films of azobenzene polycomplexes with cobalt	Davidenko I.I., Savchenko I.A., Popenaka A.N., Shumelyuk A.N., Bedarev V.A.
P 74	Temperature dependence of the polaron photoluminescence lifetime in $LiNbO_3$	A. Harhira, L. Guilbert and P. Bourson
P 75	Study of Mg:$LiNbO_3$ crystals by means of spontaneous parametric down-conversion spectroscopy	G. Kitaeva, K. Kuznetsov, I. Naumova, A. Shevlyuga, A. Solntsev, A. Penin
P 76	Deep UV photorefraction and light induced waveguides in the surface region of Mg doped near-stoichiometric $LiTaO_3$	F. Juvalta, B. Koziarska-Glinka, M. Jazbinsek, P. Günter, G. Montemezzani, K. Kitamura
P 77	On a proposed method for description aspect of polar dielectrics	M.Abdelguerfi, A.Soualmia
P 78	Modelling of a potential relief on a surface of charged polar dielectrics	A. T. Kozakov, V. P. Sakhnenko, A. M. Lerer, V. V. Makhno, P. V. Makhno
P 79	Features of the dielectric properties of PZT ceramics under influence of small mechanical uniaxial stress	S. N. Kallaev, R.M.Ferzilaev, S.A. Sadykov, A. Sh. Agalarov, A.A.Amirova
P 80	Thermal and electrical properties of ceramics PZT in the region of phase transition	S. N. Kallaev, G. G. Gadjiev, A. R. Bilalov, Z. M. Omarov, S. A. Sadykov, R. M. Pherzilaev
P 81	Dielectric and mechanical spectroscopy of ferroelectromagnets	E. A. Skriptchenko and O. N. Ivanov
P 82	Anomaly of dielectric permittivity dispersion in lead titanate thin ferroelectric films	A. S. Sidorkin, L. P. Nesterenko, G. L. Smirnov, A. L. Smirnov, A. A. Sidorkin, S. V. Ryabtsev
P 83	Peculiarities of variation of the dielectric permittivity and the pyroelectric effect with temperature in PZT-based ceramics	G. M. Akbaeva, V. G. Gavrilyachenko, I. V. Yuhnov, Yu. N. Zakharov
P 84	*Withdrawn*	
P 85	Microwave and THz dielectric properties of PMN-PT ceramics and single crystals	V. Bovtun, S. Veljko, D. Noujni, M. Savinov, P. Vanûk, S. Kamba, J. Petzelt, Z. Li, R. Skulski
P 86	Dielectric and Pyroelectric Properties of Thick and Thin Film of PZT/PVDF-TRFE Composites	M. Dietze and M. Es-Souni
P 87	Ferroelectrical $PbTiO_3$ films obtained by pulsed liquid injection MOCVD: kinetics of deposition and structural characterization	A. Bartasyte, C. Jimenez, F. Weiss, O. Chaix-Pluchery, A. Abrutis, Z. Saltyte
P 88	Specific heat simulation of CsH_2PO_4 and CsD_2PO_4 crystals	Ya. Shchur

P 89	Possible Appearance of Spontaneous Polarization and/or Magnetization in Domain Walls Associated Non-magnetic and Non-ferroelectric Domain Pairs	J. Privratska
P 90	*Withdrawn*	
P 91	Analytical modeling of piezoelectric transformers	P. Pulpan, J. Erhart, O. Stipek
P 92	Dynamic characterization of ferroelectric layers using method of line	S. Courreges, S. Giraud, D. Cros, V. Madrangeas, M. Aubourg
P 93	Czochralski-grown PPLN with small period: AFM study	I. Naumova , N. Evlanova ,V. Dyakov, T. Chernevich, O. Shustin, V. Shur
P 94	Light-induced change of optical absorption in surface layers of $LiNbO_3$ doped by photorefractive impurities	V.Kruglov, P.Karpushin, A.Gusev, A.Vishnev, V.Shandarov
P 95	Periodic structures induced by short-wavelength incoherent light in photorefractive surface layers of lithium niobate	A. Kanshu, V.Shandarov
P 96	Photorefractive self-action of light beams within optically induced few-element photonic lattice in lithium niobate	V. Shandarov , K. Shandarova, E. Smirnov, D. Kip, M. Stepic, Ch. Ruter
P 97	Modelling 3-3 Composite Materials for Enhanced Hydrophone Performance	R. W. C. Lewis, C. R. Bowen
P 98	Structure and phase transitions in some crystals containing $[(CH_3)_2NH_2]$ and $MeCl_4$	L. Kirpichnikova, A. Pietraszko, A. Sheleg
P 99	Surface analysis of reactive sputtered $Pb(Zr,Ti)O_3$ thin films by XPS	G. Suchaneck, Wen-Mei Lin, V. S. Vidyarthy, G. Gerlach, I. L. Kislova
P 100	Modeling of a pyroelectric thin film IR imager	A. V. Solnyshkin, I. L. Kislova, G. Suchaneck, G. Gerlach
P 101	Second order susceptibilities and electro-optic coefficients of Zn-in-diffused $LiNbO_3$ waveguides	O. Caballero, G. de la Paliza, A. Garcia-Cabañes, M. Carrascosa, M. Domenech, G. Lifante
P 102	Photoluminescence spectra at low temperatures and piezooptic coefficients of $Sn_2P_2S(Se)_6$ semiconductors-ferroelectrics	R. Vlokh, I. Martynyuk-Lototska, I. Dmitruk, A. A. Grabar, Yu. Vysochanskii
P 103	Optical characterization of organic-inorganic $[(CH_2OH)_3CNH_3)]H_2PO_4$ crystals	R. Vlokh, O. Mys, I. Martynyuk-Lototska, I. Girnyk, Z. Czapla, M. Romanyuk
P 104	The structure of the polyvinylidenefluoride Langmuir-Blodgett films	V. V. Kochervinskii, I. S. Zanaveskina, S. A. Knyazev, V. V. Klechkovskaya, S. G. Yudin, B. V. Lokshin
P 105	Anisotropy of photorefractive parameters in $Sn_2P_2S_6$ crystals	I. V. Kedyk, A. A. Grabar, I. M. Stoika, Yu. M. Vysochanskii
P 106	Photorefractive self focusing in near IR for optical communications	C. Dan, N. Khelfaoui, D. Wolfersberger, N. Fressengeas
P 107	*Withdrawn*	
P 108	Pyroelectric $LiTaO_3$ thin films elaborated by RF magnetron sputtering on RuO_2/SiN_x	P. Combette, L. Nougaret, B. Sorli, F. Pascal-Delannoy
P 109	BLT/STA/Si Structure for MFIS in an NDRO-type Ferroelectric Random Access Memory	Ho-Seung Jeon, Kwang-Hun Park, Byung-Eun Park, Chul-Ju Kim
P 110	Polarization Inhomogeneity and Ferroelectricity in Relaxor Ferroelectrics	N. N. Kolpakova, P.Charnecki, M. P. Shcheglov, P. P. Syrnikov

P 111	Characterization of fault current limiter structures Au/YBCO/CeO_2/Al_2O_3 by AFM, XRD and EBSD	S. Grira, N. Maloufi, N. Gey, G. Hofer, Ch. Bellouard, J. Lévêque, C. Esling
P 112	Formation of self-similar nano-domain structures in $LiNbO_3$ caused by laser irradiation	V. Ya. Shur, D. K. Kuznetsov, A. I. Lobov, D. V. Pelegov, M. A. Dolbilov, E. I. Shishkin, V. V. Osipov, M. G. Ivanov, A. N. Orlov
P 113	Domain kinetics in stoichiometric $LiNbO_3$ and $LiTaO_3$ prepared by vapor transport equilibration	V. Ya. Shur, I. S. Baturin, E. I. Shishkin, A. G. Shur, A. R. Akhmatkhanov, R. Route, R. Roussev, D. Hum, L. L. Galambos, R.O. Miles
P 114	Structural and Dielectric Investigations of Donor-Acceptor Substituted PZT Ceramics	E. Dimitriu, A. Iuga, R. Ramer, I. Sandu, M. Cernea
P 115	Nonlinear dc electric-field dependence of the dielectric constant and cluster polarization of $Sr_{1-x}Mn_xTiO_3$ ceramics	A. Tkach, P. M. Vilarinho, A. L. Kholkin
P 116	Non-photorefractive conical light scattering in polar oxides	K. Bastwoeste, U. Sander, M. Imlau
P 117	Dielectric properties of BBN ceramics	P. Keburis, J. Banys, A. Brilingas, A. Kholkin
P 118	Two dimensional distribution of relaxation times	A. Mikonis, R. Grigalaitis, S. Lapinskas, J. Banys, A. Matulis, G. Völkel
P 119	Temperature dependent elastic coefficients of $BaTi_{1-x}Sn_xO_3$ ceramics	U. Straube, B. Broich, L. Geske, R. Steinhausen, H. T. Langhammer, H. Beige, H. P. Abicht
P 120	Optical study of PZT films combining ellipsometry and reflectivity	D. Chvostova ,V. Zelezny, L. Jastrabik
P 121	Ferroelectric $Ba_xSr_{1-x}TiO_3$ thin films deposition by double hollow cathode plasma jet system	Z. Hubicka, P. Virostko, J. Olejnicek, A. Deyneka, L. Jastrabik, V. Valvoda
P 122	Micromechanical Predictions of Cellular Electret Material Properties	M. Haberman, J. Vander Weide, Y. Berthelot
P 123	Nonlinear optical properties and phase-matching in $Sn_2P_2S_6$	D. Haertle, M. Jazbinsek, G. Montemezzani, P. Günter
P 124	*Withdrawn*	
P 125	Tunable Filter using Liquid Crystal	J. F. Bernigaud, N. Martin, P. Laurent, C. Quendo, G. Tanné, B. Della, F. Huret, Ph. Gelin
P 126	Optical Properties of BaSrTiO3 Ferroelectric Nanostructures	N. Ilyin, A. Zaitsev
P 127	Effect of reduction treatment of Rh doped $KNbO_3$ crystals on its photorefractive properties in the infrared	A. Choubey, T. Bach, M. Jazbinsek, G. Montemezzani, P. Günter
P 128	Theoretical, numerical and experimental investigations of gas vapours effects on a ZnO/Quartz SAW gas sensor	P. Nicolay, F. Moreira, F. Sarry, O. Elmazria
P 129	PZN-PT single crystal : Application to Q switched lasers	M. Abarkan, J.P. Salvestrini, M. Wang, L. Lebrun, G. Sebald
P 130	Coexistence of Li and Nb vacancies in the defect structure of pure $LiNbO_3$ and its relationship to optical properties	F. Abdi, M. D. Fontana, M. Aillerie, P. Bourson
P 131	Photorefractive Damage in Pure and Doped Lithium Niobate Crystals	M. Mostefa, A. Fiozounam, M. Aillerie, P. Bourson, M. D. Fontana

P 132	Development of Flexural Microactuators Based on PZT-Coated Optical Fibers	N. P. Vyshatko, P. M. Vilarinho, A. L. Kholkin
P 133	Ferroelectric and optical properties of the strontium-barium niobate crystals (recent results) *(former O 51)*	T. Volk, V. Gladkii, D. Isakov, L. Ivleva, M. Woehlecke
P 134	Feedback loop for electro-optic sensors	R. Claverie, J. P. Salvestrini, M. D. Fontana
P 135	Highly Efficient Photon pair production by an APE - PPLN waveguide for a single-photon source at TELECOM wavelength	T. Del Rosso, G. Margheri, S. Sottini, V. Schettini, S. Castelletto, I. P. Degiovanni
P 136	Caesium Hydrogen Malate Hydrate: structure, dielectric, pyroelectric, electro-optical and nonlinear optical properties	D. Isakov, E. de Matos Gomes, M. S. Belsley, J. L. Ribeiro, T. L. Aroso, V. H. Rodrigues, M. R. Costa, A. Criado
P 137	Growth and characterization of ß-BaB_2O_4 thin films for nonlinear optical applications	G. Orsal, S. Quell, P. Thévenin, A. Bath
P 138	Design piezoelectric applications: from micromechanical approach to applied mechanics	M. Elhadrouz, E. Patoor, T. Ben Zineb
P 139	Temperature dependence of piezoelectric properties of $KNbO_3$ and $BaTiO_3$ crystals	M. Zgonik

Sponsors

The organizers are very thankful to the following institutions for sponsoring and supporting the manifestation

Ecole Nationale Supérieure d'Arts et Métiers

Université Paul Verlaine Metz

Ecole Supérieure d'Electricité

Centre National de la Recherche Scientifique

Conseil Régional de Lorraine

Conseil Général de Moselle

Communauté d'Agglomération de Metz Métropole

Groupement de Recherche FIFA

Taylor & Francis Group