3rd International Conference on
Broadband Dielectric Spectroscopy and its Applications

23-26 August 2004
Delft University of Technology
The Netherlands

Final Program
Scientific Program - oral presentations

Monday August 23

**Glass transition I: Dynamics of polymers and simple liquids**
Chairman: G. Williams

09:00 - 09:05 Welcome
09:05 - 09:15 Opening (K.C.A.M.Luyben, Dean of Faculty Applied Sciences)
09:15 - 09:25 Conference preview (Conference Chairman)
09:25 - 10:00 Opening Lecture: Molecular dynamics in thin grafted and spin-coated polymer layers
  Kremer, F. (Leipzig, Germany)
10:00 - 10:30 Glassy dynamics: Some advances by dielectric and NMR spectroscopy (IL)
  Böhmer, R. (Dortmund, Germany)
10:30 - 11:00 coffee/tea
11:00 - 11:30 What governs the dynamics of vitrifying liquids? (IL)
  Roland, C.M. (Washington, USA)
11:30 - 11:50 Effect of pressure on the dynamics of miscible polymer blends/copolymers
  Floudas, G. (Ioannina, Greece)
11:50 - 12:10 A dielectric test of the validity of the Adam-Gibbs equation out of equilibrium:
  polymers vs. small molecules
  Alegria, A. (San Sebastián, Spain)
12:10 - 12:30 Structural recovery of polystyrene as seen by relaxational and low-frequency
  vibrational spectroscopy
  Wypych, A. (Lodz, Poland)
12:30 - 14:00 lunch buffet in the Botanical garden

**Glass transition II: Dynamics of blends and (binary) mixtures**
Chairman: G. Johari

14:00 - 14:30 Dynamics of blends and mixtures (IL)
  Ngai, K. L. (Washington, USA)
14:30 - 15:00 Slow and fast dynamics in glycerol-water mixtures (IL)
  Feldman, Y. (Jerusalem, Israel)
15:00 - 15:20 Percollation phenomena in DMSO-water binary mixtures
  Hernandez Perni, G. (Basel, Switzerland)
15:20 - 15:40 Molecular dynamics of unfreezable solvents and polymers restricted in frozen state
  Yagihara, S. (Hiratsuka, Japan)
15:40 - 16:00 coffee/tea
**Johari-Goldstein â-relaxation**
Chairman: R. Richert

16:00 – 16:30 Identifying the genuine Johari-Goldstein -relaxation by cooling, compressing, and aging of some typical glass-formers (IL)
Capaccioli, S. (Pisa, Italy)

16:30 – 16:50 Minimal model for beta relaxation in viscous liquids
Dyre, J. (Roskilde, Denmark)

16:50 – 17:10 The pressure dependence of the Johari-Goldstein relaxation and the excess wing in supercooled liquids
Casalini, R. (Washington, USA)

17:10 – 17:40 Broadband dielectric spectroscopy in neat and binary molecular glass formers - frequency and time domain spectroscopy, non-resonant hole burning (IL)
Blochowicz, T. (Bayreuth, Germany)

17:40 – 19:00 **Poster session** (see list of posters)

18:00 – 19:00 Meeting of IDS board and Scientific committee

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**Tuesday August 24**

**Dynamics of nano-confined systems (I)**
Chairman: F. Kremer

09:00 – 09:30 Inelastic neutron scattering for probing the dynamics of glass forming systems in confinement - recent results on organic liquids and polymers (IL)
Frick, B. (Grenoble, France)

09:30 – 10:00 Polymers in nano-confinements - What can we learn from relaxation and scattering experiments (IL)
Schönhals, A. (Berlin, Germany)

10:00 – 10:30 Dielectric relaxations in ultra-thin polymer films and H-bonding liquid layers
Wübbenhorst, M. (Delft, The Netherlands)

10:30 – 11:00 coffee/tea

**Dynamics of nano-confined systems (II)**
Chairman: B. Frick

11:00 – 11:20 Aging phenomena in thin polymer films
Fukao, K. (Kyoto, Japan)

11:20 – 11:40 Adsorption-induced pattern formation in thin polymer films
Serghei, A. (Leipzig, Germany)

11:40 – 12:00 Dielectric relaxation in thin liquid crystal layers (with different boundary conditions) formed on cylindrical pore walls
Aliev, F.M. (San Juan, USA)

12:00 – 12:20 The study of nano and meso dielectrics
Stevens, G. (Guildford, UK)

12:30 – 14:00 lunch buffet in the Botanical garden
Molecular motions in disordered systems
Chairman: R. Böhmer
14:00 – 14:40 Daniel Kivelson: His contributions to the dynamics of liquids (IL)
Williams, G. (Swansea, UK)
14:40 – 15:10 Dynamics in disordered systems: From molecules to materials (IL)
Richert, R. (Tempe, USA)
15:10 – 15:30 Microwave dielectric behavior of glass-forming materials below $T_g$
Nozaki, R. (Sapporo, Japan)
15:30 – 16:00 coffee/tea

Functional polymers and devices
Chairman: J. Ulanski
16:00 – 16:30 Nonlinear dielectric investigation for nanofilms of ferroelectric polymers (IL)
Furukawa, T. (Tokyo, Japan)
16:30 – 16:50 Ferroelectrets: Polymer foams with "man-made" highly deformable dipoles
Gerhard-Multhaupt, R. (Potsdam, Germany)
16:50 – 17:10 Nonlinear dielectric response of dipole glasses and cellular polymer ferroelectrets
Bauer, S. (Linz, Austria)
17:10 – 17:30 Use of dielectric spectroscopy in non-invasive continuous glucose monitoring
Caduff, A. (Switzerland)
18:00 – 24:00 Excursion to Port of Rotterdam with conference dinner

Wednesday August 25

Real-time dielectric spectroscopy; monitoring of structure evolution
Chairman: A. Schönhals
09:00 – 09:30 Probing ordering processes in soft condensed matter by means of time resolved
broad band dielectric spectroscopy (IL)
Eyguerra, T.A. (Madrid, Spain)
09:30 – 10:00 Evolution of the glass transition dynamics in the dielectric behaviour of a liquid during
polymerization (IL)
Johari, G. (Hamilton, Canada)
10:00 – 10:20 Generic representation of cure monitoring data using the time-temperature-
transformation diagram: equivalence between dielectric and ultrasonic properties
Unwin, M.E. (Nottingham, UK)
10:20 – 10:40 Evidence of pre-crystalline-order in super-cooled polymer melts revealed from
dielectric spectroscopy
Wurm, A. (Rostock, Germany)
10:40 – 11:00 coffee/tea
Liquid crystals and ferroelectric materials
Chairwomen: B. Hilczer
Lecture hall A
Chairman: J. Runt
Lecture hall C
11:00 – 11:30 Dielectric response in ferroelectrics (IL)
Pawlaczyk, C. (Poznan, Poland)
11:30 – 11:50 Molecular and collective dynamics in different liquid crystalline phases
Kresse, H. (Halle, Germany)
11:50 – 12:10 Solid state polymorphism in some glass formers
Massalska-Arodz, M. (Krakow, Poland)
12:10 – 12:30 Unusual glass like systems - Relaxation dynamics of dopants in ferroelectric crystals
Ben Ishai, P. (Jerusalem, Israel)
12:30 – 14:00 lunch buffet in the Botanical garden

Conduction phenomena and spectroscopy
Chairman: K. Ngai
Lecture hall A
Chairman: C. Leon
Lecture hall C
14:00 – 14:30 Cooperative ion dynamics in ionic conductors (IL)
Leon, C. (Madrid, Spain)
14:30 – 15:00 New experimental techniques for conductivity spectroscopy: Nanoscale and nonlinear spectroscopy (IL)
Roling, B. (Münster, Germany)
15:00 – 15:20 Segmental dynamics and ionic conduction in polymer-ion complexes
Runt, J. (University Park, USA)
15:20 – 15:40 Low frequency dielectric losses related to dynamics of intrinsic conductivity of dielectrics
Malecki, J. (Poznan, Poland)
15:40 – 16:10 coffee/tea

Molecular dynamics in aqueous systems and polymers
Chairman: J. Berberian
Lecture hall A
Chairman: J. van Turnhout
Lecture hall C
16:10 – 16:30 Hydrophobic hydration, structure of water and dielectric spectra in all orientation frequency range
Lyashchenko, A. (Moscow, Russia)
16:10 – 16:30 Electrical conductivity and dielectric properties of single wall nano tube-polymer composites
McLachlan D.S. (Johannesburg, South Africa)
16:30 – 16:50  Dynamics of sugar solutions as studied by dielectric spectroscopy  
Swenson, J. (Göteborg, Sweden)  

16:50 – 17:10  Broadband dielectric spectroscopy as a complementary analytical technique for polymeric solids  
Pratt, G.J. (Melbourne, Australia)

16:50 – 17:10  Dielectric and hydration properties of epoxy resin + polyethylene oxide blends  
Vassilikou-Dova, A. (Athens, Greece)

17:10 – 17:30  Dielectric relaxation of aqueous glucose solution in supercooled and glass state  
Grigera, J.R. (La Plata, Argentina)

17:10 – 17:30  Dielectric relaxation properties of Na-mordenite zeolite, as a function of water pressure  
Devautour-Vinot, S. (Montpellier, France)

17:30 – 18:00  drinks

Measurement forum (lecture hall A)  
Chairman: R. Gerhard-Multhaupt

18:00 – 19:00  Spectral Characteristics of Gaseous Media and Their Effects on Propagation of Ultra-Wideband Radiation in the Millimeter Wavelengths  
Pinhasi, Y. (Ariel, Israel)

Presentation of NOVOCONTROL GmbH  
Schaumburg, G. (Hundsangen, Germany)

20:30 – 22:00  Chamber music concert (Cultural centre of the TU Delft, Mekelweg 10)
Thursday August 26

Theory and simulation of dielectric response (I)
Chairman: Y. Feldman

09:00 – 09:30 Is there a physical meaning of recaps and reinds with complex exponents? (IL)
Nigmatulin, R. (Kazan, Russia)

09:30 – 09:50 Fluctuation-dissipation relations and master equations
Diezemann, G. (Mainz, Germany)

09:50 – 10:10 The effect of cluster dynamics on the \(-\)relaxation in supercooled liquids
Halpern, V. (Ramat-Gan, Israel)

10:10 – 10:30 A critical examination of the Ising model analysis of dielectric relaxation for the linear chain molecules
Eker, S. (Adana, Turkey)

10:30 – 11:00 coffee/tea

Theory and simulation of dielectric response (II)
Chairman: J. Dyre

11:00 – 11:30 Molecular dynamics simulation of amorphous polymers in isotropic state and under uniaxial deformation (IL)
Lyulin, A. (Eindhoven, The Netherlands)

11:30 – 11:50 Digital signal processing for relaxation data conversion
Shtrauss, V. (Riga, Latvia)

11:50 – 12:10 The Kramers-Kronig relations: Fast methods for their evaluation
Van Turnhout, J. (Delft, The Netherlands)

12:10 – 12:30 Structural features of aqueous solutions of organic substances in water-rich region according to adiabatic compressibility, dielectric relaxation and computer simulation data
Grineva, O.V. (Moscow, Russia)

12:30 – 14:00 lunch buffet in the Botanical garden

Dielectric relaxations in complex systems and biological materials
Chairman: S. Yagihara

14:00 – 14:20 Mobility and dielectric relaxations in complex systems by broadband dielectric spectroscopy and thermally stimulated currents
Dantras, E. (Toulouse, France)

14:20 – 14:40 Label-free detection of proteins using dielectric spectroscopy
Stapert, H. (Eindhoven, The Netherlands)

14:40 – 15:00 Boundary-element calculations of dielectric relaxation for biological cells of awkward shape in suspension
Sekine, K. (Kanazawa, Japan)

15:00 Closing remarks

15:20 – 16:00 coffee/tea
Scientific Program – poster contributions

1. Glass transition I: Dynamics of polymers and simple liquids

P1  Dynamical heterogeneity of the PDMS segmental dynamics induced by a mesophase lamellar structure in PDMS/PS block copolymers  
Alegria Angel (San Sebastian, Spain), Lorthioir Cedric, Deloche Bertrand, Colmenero Juan

P2  Positron annihilation lifetime spectroscopy, dielectric relaxation and the defect diffusion model for a series of propylene glycols  
Bartos Josef (Bratislava, Slovak Republic), Sausa O., Fontanelle J.J., Kristiak J., Bendler J. T., Shlesinger M.F.

P3  Positron annihilation lifetime response and relaxation dynamics by the broadband dielectric spectroscopy in glycerol  
Bartos Josef (Bratislava, Slovak Republic), Sausa O., Racko D., Kristiak J., Fontanelle J.J.

P4  Dielectric relaxation in Sorbitol revisited  
Bergman Rikard (Goteborg, Sweden), Svanberg Christer

P5  Diffusion Mechanism for Physical Aging of Polycarbonate far below the Glass Transition Temperature Studied by Means of Dielectric Spectroscopy  
Cangialosi D. (San Sebastian, Spain), Wübbenhorst M., Groenewold J., Mendes E., Schüt H., Van Veen A., Picken S.J.

P6  Solvent effects on the glass transition temperature of solution cast atactic PMMA films  
Lupascu Veronica (Delft, The Netherlands), van den Berg Otto, Cangialosi Daniele, Wübbenhorst Michael

P7  Effect of temperature and volume on structural relaxation time: an interpretation in term of decrease of configurational entropy  
Prevosto Daniele (Pisa, Italy), Capaccioli Simone, Lucchesi Mauro, Rolla Pierrangelo

P8  Correlation between temperature-pressure dependence of the -relaxation and configurational entropy for different glass-forming polymers  
Schwartz Gustavo Ariel (San Sebastian, Spain), Tellechea Edurne, Colmenero Juan, Alegria Angel

P9  Multiple glass transition in the plastic crystal phase of triphenylene derivatives  
Yildirim Z. (Delft, The Netherlands), Kotlewski A., Wübbenhorst M., Picken S.J., Paraschiv I., Sudhölter E.J.R.

2. Glass transition II: Dynamics of blends and (binary) mixtures

P10  Mesoscopic dynamics and cage properties in glycerol-water mixtures  
Hayashi Yoshihito (Jerusalem, Israel), Igal Balin, Yaroslav E. Ryabov, Alexander Puzenko, Yuri Feldman, Udo Kaatze, Ralph Behrends

P11  Molecular dynamics of linear and hyperbranched polyurethane blends  
Okrasa Lidia (Lodz, Poland), Zigon Majda, Zagar Erna, Czec Przemyslaw, Boiteux Gisele

P12  Dielectric properties of glassy mixtures of polar and non-polar liquids  
Berberian John G. (Philadelphia, USA), Tropiano Michael A., Leach Joseph B.
3. Johari-Goldstein β-relaxation

P13 Suppression of dielectric secondary relaxations by strong intermolecular hydrogen bonding
Runt James (Pennsylvania USA), Zhang Shihai, Painter Paul C.

P14 Effect of cold-drawing on the secondary dielectric relaxation of bisphenol-A Polycarbonate and Related Polymers.
Mitxelena Olatz (San Sebastian, Spain), Colmenero Juan, Alegria Angel

P15 Can dielectric spectroscopy tell us anything about the frequency dependent shear modulus?
Niss Kristine (Paris France), Jakobsen Bo, Niels Boye Olsen

4. Dynamics of nano-confined systems

P16 Dielectric relaxation in liquid crystal confined in quasi-one-dimensional system
Aliev Fouad, (San Juan, USA) Bengochea Manuel Rivera, Gao C.Y., Cochran H. D.

P17 Relaxation properties of supercooled water confined in bread
Cerveny Silvina, Swenson Jan, Bergman Rikard (Goteborg, Sweden)

P18 Characteristic size of molecular dynamics in polymers probed by dielectric probes of variable length
van den Berg O. (Delft, The Netherlands), Wübbenhorst M., Jager W.F.

P19 Liquid like surface mobility in supported ultra-thin films. New evidence for a layer model from dielectric spectroscopy
Lupascu Veronica (Delft, The Netherlands), Koper Ger J.M., Wübbenhorst Michael

P20 Ferroelectric phase transition in TGS embedded in porous glasses
Rysiakiewicz-Pasek Ewa (Wroclaw, Poland), Ryszard Poprawsky, Jolanta Polanska, Beata Radojewsk

P21 Dynamics of surface layer in cyanobiphenyl-aerosil nanocomposites with a high silica density
Frunza Stefan, Frunza Ligia, Tantaru Mihaela, Beica Traian, Schönhal Andreas (Berlin, Germany)

P22 Molecular mobility and gas transport properties of poly(bisphenol A carbonate) (PC) based nanocomposites
Ning Hao, Martin Bohning, Harald Goering, Reinhard Mach, Schönhal Andreas (Berlin, Germany)

P23 In-situ study of the glass transition dynamics of ultra-thin H-bonding liquid layers during molecular beam deposition by dielectric relaxation spectroscopy
Michael Wübbenhorst (Delft, The Netherlands), Gaëtan Couderc, Norwid-Rasmus Behrnd, Jürg Hulliger

5. Polymer dynamics and molecular motions in disordered systems

P24 Dielectric relaxation of dendronized polystyrene in solutions
Svetlana Kovshik (St. Petersburg, Russia), Mariya Mikhailova, Galina Polushina, Evgeni Rjumtsev, Alexander Kovshik, Andrey Lezov

P25 Dielectric studies of molecular dynamics in thermoplastic interpenetrating polymer networks
Kanapitsas A. (Lamia, Greece), Polizos G., Pissis P., Lebedev E., Slisenko O., Grigoryeva O. P.

P26 Molecular dynamics in poly(ethene-alt-N-alkylmaleimide) copolymers as studied by Broadband Dielectric Spectroscopy
Tsuwi Julius (Leipzig, Germany), Appelhans Dietmar, Zschoche Stefan, Friedel Peter, Kremer Friedrich

P27 Dipole relaxation kinetic parameters in saturated hydrocarbons
Asheko Anatolii (Kharkov, Ukraine)

P28 Dielectric properties of poly-diethyl itaconate from isothermal measurements
Dominguez-Espinosa G., Diaz-Calleja R. (Valencia, Spain), Sanchis M. J., Sanchez-Martinez E.

P29 Dielectric characterization of a series wholly aromatic poly(ether imide)s
Dingemans Theo (Delft, The Netherlands), Mayingi Josselin, van der Zwaag Sybrand, Wübbenhorst Michael

P30 Dielectric properties of butadiene oligomers
El-Fakhri Salem (Brno, Czech Republic), Liedermann Karel

P31 Low-frequency Dielectric Response Study of a thin Silicone Rubber
Hamzah Ngah Ramzi (Selangor, Malaysia), Muhammad Muhamad Rasat

P32 Relaxation effects in Dielectric spectra of oligomer materials
Kamenjk Roman (Brno, Czech Republic), Frk Martin

P33 Investigations of poly(sodium acrylate) polymer networks by dielectric spectroscopy method
Malyshkina Inna (Moscow, Russia), Polycarpos Pissis, George Polizos

P34 Effect of molecular architecture on dynamics of multigraft copolymers: combs, centipedes and barbwires
Mijoviæ Jovan (New York, USA), Sun Mingyun, Pejanoviæ Srdjan, Mays Jimmy W.

P35 Molecular relaxations in new polyurethane systems with linear and crosslinked structure
Czech Przemyslaw (Lodz, Poland), Boiteux Gisele, Mechin Francoise, Okrasa Lidia, Ulanski Jacek

6. Functional materials and devices

P36 Photoprocesses in the bulk CdTe crystals
Virt I. S., Popovich V.D. (Drohobych, Ukraine), Tsiutsiura I. D., Bester M., Blahut A., Kuzma M.

P37 Dielectric relaxation in a hybrid Ag/DiMe-PTCDI/GaAs device
Thurzo Ilja (Chemnitz, Germany), Mendez Henry, Zahn Dietrich R. T.

P38 Novel nano-materials based on metal clusters embedded in polymer films and porous glasses: dielectric study and sensor properties
Trakhtenberg Leonid (Moscow, Russia), Gerasimov Genrikh, Axelrod Ekaterina, Feldman Yuri

P39 Dielectric spectroscopy of a hybrid composite, constituted by doping a side-chain liquid crystalline polymer, under laser induced conditions
San Eren S. (Kocaeli, Turkey), Okutan Mustafa, Köysal Oðuz, Ono Hiroshi

P40 Ferroelectrets: Adjustment of dipole size by means of controlled void inflation and its influence on dielectric resonances and electromechanical properties
Voronina Olena (Potsdam, Germany), Wegener Michael, Tuncer Enis, Wirges Werner, Gerhard-Multhaupt Reimund

P41 Assessment of the stabilization of the NLO performance of polymers by physical aging
Klaase P.T.A. (Delft, The Netherlands), van Turnhout J.

P42 Dielectric properties of bulk materials and restrictions to the application of two-parameter microwave aquametry
Renhart I. (Minsk, Belarus), Tsentsiper B

P43 Correlation among the electrode shape and the size of an EHD pump and its pumping force
Sato Masaki (Hachinohe, Japan), Nakano Shigeru

P44 Electro-optic, dielectric and relaxation properties of hyper-branched macromolecules with linear main chains in dilute solutions
Tsvetkov Nikolai (St Petersburg, Russia), Ivanova vera, Kudriavtseva Tatiana, Girbasova Nina, Bilibin Alexander

7. Real-time dielectric spectroscopy; monitoring of structure evolution

P45 Re-crystallization effects in thermally stimulated depolarization currents measurements of XLPE in the melting temperature range
Diego J. A., Belana J. (Terrassa, Spain), Canadas J.C., Mudarra M., Sellares J., Orrit J.

P46 A comparative study of cold crystallization and amorphous PHB with Cole-Cole plots analysis
Sentürk E. (Sakarya, Turkey)

P47 Dielectric study during crystallization of polymers
Soliman Ragab (Rostock, Germany), Wurm Andreas, Schick Christoph

8. Liquid crystals and ferroelectric materials

P48 Broadband dielectric resonance spectroscopy on ferroelectric and cellular ferroelectric polymers
Salhofer Harald, Dansachmuller Mario, Bauer-Gogonea Simona, Bauer Siegfried (Linz, Austria)

P49 Domain wall dispersion in ferroelectric phase of SrTi$_{18}$O$_3$
Levstik Adrijan, Filipic Cene (Ljubljana,Slovenia), Kutnjak Zdravko, Itoh Mitsuru

P50 Dielectric relaxation in polyamide 11: Comparison between ferroelectric and non-ferroelectric films
Fruebing Peter (Potsdam, Germany), Blischke Dorte, Ast Sandra, Gerhard-Multhaupt Reimund, Anna Spanoudaki, Polycarpos Pissis, Harald Goering

P51 Dielectric spectra of elastomeric materials filled with ferroelectric ceramic powder
Obysannikov A.G., Lebedev S.M. (Tomsk, Russia)

P52 Dielectric response peculiarities of complex ferroelectrics with chemical disorder: (Na$_{2/3}$Bi$_{1/3}$)TiO$_3$, (K$_{1/3}$Na$_{2/3}$)NbO$_3$, (1-x)BiScO$_{3-18}$/PbTiO$_3$
Porokhonskyy Viktor (Ljubljana, Slovenia), Savinov Maxim, Veljko Sergej, Kamba Stanislav, Petzelt Jan, Malic Barbara

P53 Influence of dispersed aerosil particles on the collective dynamic modes in a ferroelectric liquid crystal with polarization sign reversal
Rózanski Stanislaw (Leuven, Belgium), Thoen Jan
P54 Type II model for uniaxial ferroelectrics single crystal TIS
Sentürk E. (Sakarya, Turkey)

P55 Liquid crystalline di- and triblock copolymers: interplay between domain mesostructure and
dynamic behaviour
Zhukov Sergei (Darmstadt, Germany), Geppert Steffen, Stuhn Bernd, Gronski Wolfram

P56 Low temperature dielectric losses in PbMg\textsubscript{3/3}Nb\textsubscript{2/3}O\textsubscript{3}
Koroleva E.Yu. (St Petersburg, Russia), Okuneva N. M., Vakhrshev S. B.

P57 Dielectric relaxation of terbium containing metallomesogen
Rjumtsev Evgeni, Kovshik Alexander, Kovshik Svetlana (St Petersburg, Russia), Andrei Knazev,
Yury Galyametdinov

P58 Two relaxation mechanisms in (Sr\textsubscript{1-1.5x}Bi\textsubscript{x})TiO\textsubscript{3}(x:0.0067)
Sentürk E. (Sakarya, Turkey)

P59 Thermal history and dielectric behaviour in the incommensurate phase of TIGaSe\textsubscript{2}
Tümbek Lü (Koecaeli, Turkey), Senturk E., Basaran E., Mikailov F.A., Mammadov T. G.

P60 DFT, electric and dielectric properties of (Pb\textsubscript{1-x}La\textsubscript{x})(Zr\textsubscript{y}Ti\textsubscript{1-y})\textsubscript{1-x}O\textsubscript{3}
Tümbek Lü (Koecaeli, Turkey), Senturk E.

P61 Time relaxation of the dielectric susceptibility of TIGaSe\textsubscript{2} in the commensurate phase
Mikailov F.A., Basaran E., Senturk E., Tümbek Lü (Koecaeli, Turkey), Mammadov T. G.

9. Conduction phenomena, semiconductors

P62 The influence of the nature of the matrix on the dielectric and electric properties of conductive
polymer composites based on polyaniline
Fatyeyeva Kateryna (Maine, France), Tabellout Mohamed, Pud Alexander

P63 The influence of the PANI content on the electrical behavior of polymer composites
Fatyeyeva Kateryna (Maine, France), Tabellout Mohamed, Bailill Pierre-Yves, Pud Alexander

P64 Current conductivity and protonic conductivity relaxations in 12-tungstophosphoric acid
Polizos G. (Athens,Greece), Pissis P., Cajkovski T., Davidovic M., Mioc Ub

P65 Low-frequency dielectric characterisation of PbO
Avanesyan Vachagan (St Petersburg, Russia), Bordovskii Gennadii

P66 Dielectric relaxation and structural properties of Pb\textsubscript{3}O\textsubscript{4}
Avanesyan Vachagan (St Petersburg, Russia), Bordovskii Vladimir

P67 Broad Band Dielectric Spectroscopy of nano-porous oxidized Si
Axelrod Ekaterina (Jerusalem, Israel), Umach Benayahu, Gutina Anna, Sa’ar Amir, Feldman
Yuri

P68 Study of space charge relaxation in poly(ethylene terephthalate) at high temperatures by
dielectric spectroscopy at the electrical modulus level
Mudarra M. Orrit J., Belana J. (Terrassa, Spain), Canadas J.C., Diego J. A,Sellares J.

P69 An assessment of ageing of oxide varistors using dielectric spectroscopy
Jaroszewski Maciej (Wroclaw,Poland), Pospieszna Janina

P70 Double layer polarization in electric fields: theory and experiment
P71 Low frequency dielectric properties of epoxy resin
Blahut A., Wal A., Labuz M. (Rzeszow, Poland), Kuzma M.

P72 Relationship between the dielectric relaxation spectra and the dielectric strength of PET
Gefle O.S., Lebedev S.M. (Tomsk, Russia), Pokholkov Y.P., Gockenbach E., Ritschel C.-D., Hoppe L.

P73 Numerical investigations of the random barrier model
Schrøder T.B. (Roskilde, Denmark), Dyre J.C.

P74 Wide frequency range dielectric response of colloidal suspensions
Galera-Cortes Elisa, Roldan-Toro Rafael, Solier J.D. (Badajoz, Spain)

P75 A study of thermally stimulated dielectric relaxation currents in Al/Lu$_2$O$_3$/Al thin film sandwiches
Wiktorczyk Tadeusz (Wroclaw, Poland)

P76 Dielectric properties-micromorphology relationship and percolation in metal-filled polymer composites
Zois H. (Athens, Greece), Mamunya Ye.P., Apekins L.

10. Molecular dynamics in aqueous systems

P77 The investigation of water molecules translation mobility in acrylate resins during hydration
Alekseeva S.I. (Yoshkar-Ola, Russia)

P78 Dielectric properties of water in cation-replaced clays
Gusev Yuri (Tatarstan, Russia), Saraev Denis, Lounev Ivan, Yusupova Tatyana, Romanov Genadii

P79 Cascade of water network percolation transitions in hydrated yeast
Sokolowska Dagmara, Krol-Otwinowska Agnieszka (Krakow, Poland), Moscicki Jozef K.

P80 Dielectric spectroscopy by differential measurements in transmission klines on sodium dodecyl sulfate micelles in water
Lanzi Leandro (Florence, Italy), Carla Marcello, Gambi Cecilia M. C., Lanzi Leonardo

P81 Dielectric properties of aqueous solutions of ammonium salts
Lileev Alexander (Moscow, Russia), Lyashchenko Andrey

P82 Water network percolation transitions in model systems: Degussa AEROSIL fumed silica
Sokolowska Dagmara (Krakow, Poland), Moscicki Jozef K.

P83 Dielectric spectroscopy and micellization of aqueous solutions of p-isononyloxyphenoloxyleneglycolether
Usacheva T.M. (Moscow, Russia), Lifanova N.V., Zhuravlev V.I., Matveev V.K.

P84 The high frequency dielectric properties of the potassium and tetrabutylammonium caboxylates
Loginova Darya V. (Moscow, Russia), Lileev Alexander S., Lyashchenko Andrey K., Aladko Ludmila S.
12. Dielectric relaxations in complex systems and biological materials

P92 Dielectric behavior of a microemulsion system containing water, toluene and Triton X-100: Temperature dependent phase inversion
Asami Koji (Kyoto, Japan)

P93 Dynamics of hydrated purple membranes - complementary results from dielectric spectroscopy and quasielastic neutron scattering
Buchsteiner A. (Berlin, Germany), Lechner R. E., Haub Th., Dencher N. A.

P94 Dielectric properties of cord blood serum under influence of freezing and gamma-irradiation
Gorobchenko Olga (Kharkov, Ukraine), Nikolov Oleg, Gatash Sergey, Nardid Oleg, Lipina Olga

P95 Dielectric spectroscopy method in study of mechanisms of oil dispersion structure formation
Gusev Yuri (Tatarstan, Russia), Lounev Ivan, Saraev Denis, Osokin Sergey

P96 Using dielectric spectroscopy to detect thermal hysteresis in frog muscle
Hart Francis (Sewanee, USA), Davila-Moriel Eric, Berner Nancy, McMillen Rachel

P97 The comparison of the temperature dependence of electrical conductivity /TDEC/ and the DSC thermograms in studies on thermal denaturation of bone collagen
Kubisz Leszek (Poznan, Poland)

P98 Dielectric spectroscopy applications in agriculture
Nelson Stuart (Georgia, USA)

P99 Negative losses process in porous sol-gel glasses
Puzenko Alexander (Jerusalem, Israel), Axelrod Ekaterina, Feldman Yuri, Haruvy Yaara, Reisfeld Renata

P100 Parelectric spectroscopy studies on solid lipid nanoparticles as drug carriers
Ramadurai Sivaramakrishnan (Berlin, Germany), Nakamura Chié, Niehus Horst, Kramer Klaus D., Schäfer-Korting Monika
P101 Distribution of processing oil in olefinic thermoplastic elastomer
Sengers W.G.F. (Delft, The Netherlands), Berg O., Wübbenhorst M., Gotsis A. D.

P102 Modulus model and dielectric permittivity of hydroxyapatite and calcium phosphate with titanium obtained by dry mechanical alloying

Addendum

P103 Dielectric and structural studies of a SiO2-Li2O-Nb2O5 glass and glass-ceramics prepared by the sol-gel method
Graça M.P.F. (Aveiro, Portugal), Ferreira da Silva M.G., Valente M.A.

P104 Dielectric response of polymer relaxors
Hilczer B. (Poznañ, Poland), Hilary Smogór

P105 Dielectric Relaxation spectroscopy of montmorillonite doped with 12-tungstophosphoric acid
Èajkovski T., Davidoviæ M. (Belgrade, Serbia and Montenegro), Pissis P., Polizos G., Èajkovski D., Likar-Smiljaniæ V., Srediaæ S., Mioè U.B.