

12th Conference on Broadband Dielectric Spectroscopy and its Applications

BDS2024



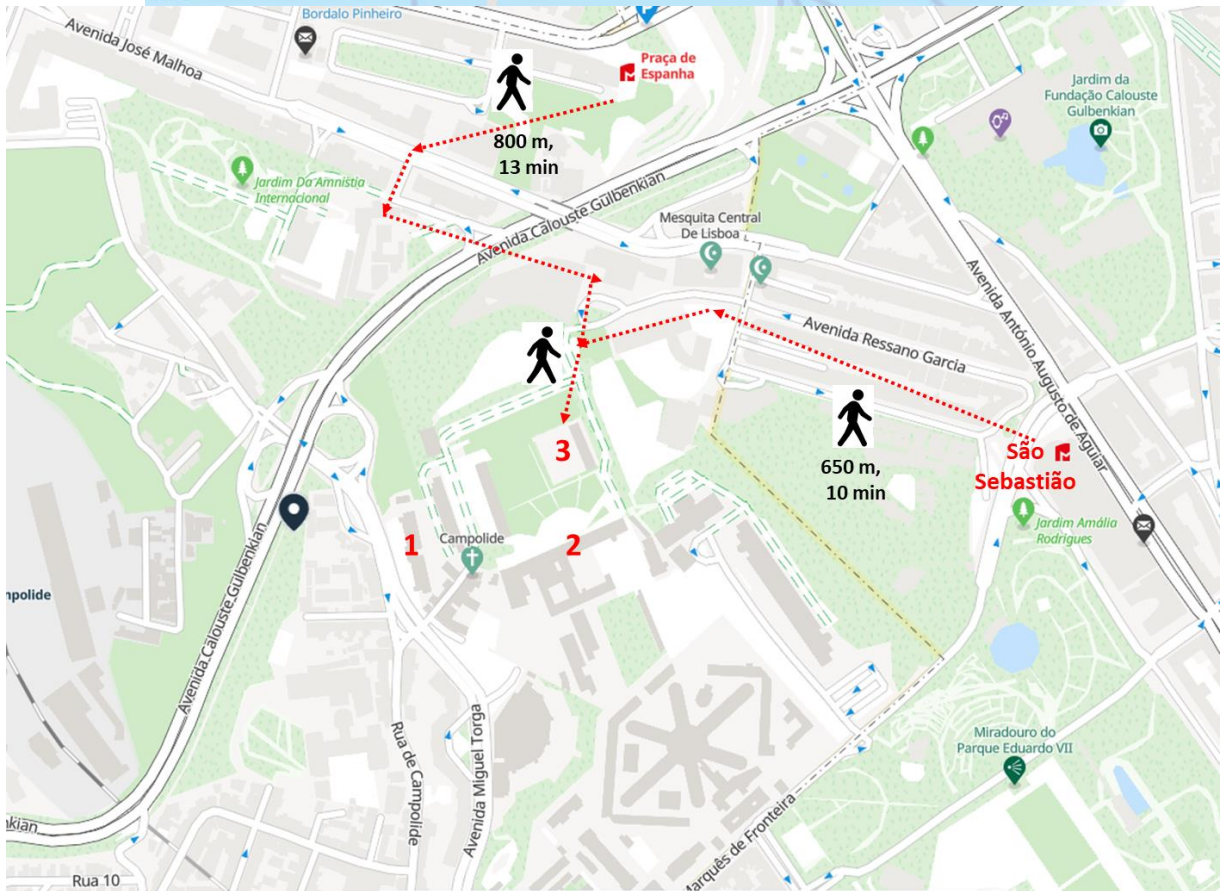
01 – 06 September 2024
Lisbon, Portugal

under the auspices of the International Dielectric Society



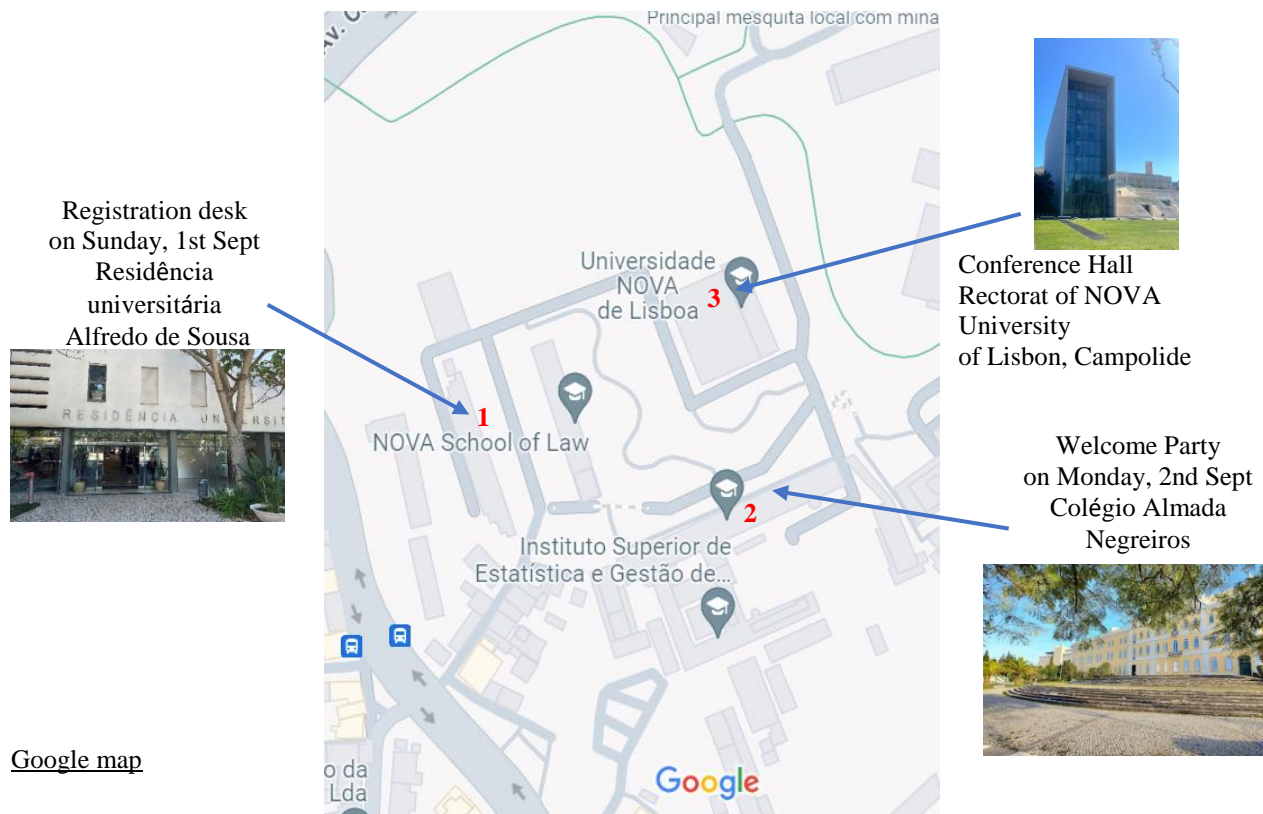
HOW TO REACH THE BDS2024 VENUE?

Metro line diagram - Lisbon



1 - Residência universitária, Alfredo de Sousa 2 - Colégio Almada Negreiros; 3 - Conference Hall Reitoria da Universidade NOVA de Lisboa

Additional information



Arriving by plane

From the airport take the METRO (red line - *Linha Vermelha*) start at AEROPORTO and stop at terminal station (SÃO SEBASTIÃO).

Taxi is also a good option (takes 15-20 minutes); it should be around 15-20€.

Arriving by train

If you arrive by train, you will get off at GARE DO ORIENTE station. There take the METRO (red line) to terminal station (SÃO SEBASTIÃO). Alternatively, get off at SANTA APOLÓNIA station. There take the METRO (blue line) and exit at station (SÃO SEBASTIÃO).

Arriving from other parts of Lisbon

From other parts of Lisbon, we particularly recommend the use of public transportation. Buses stopping close (10 min by walk) to the conference site: 713, 726, 742, 746, and 52B. To consult routes and timetables go to: www.carris.pt/.

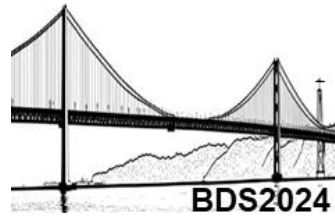
Metro stations nearest the conference venue: SÃO SEBASTIÃO (red line - *Linha Vermelha*) and, alternatively, PRAÇA DE ESPANHA (Blue line – *Linha Azul*).
Metro: www.metrolisboa.pt/eng.

For occasional journeys Bus/Metro tickets go to: <https://www.metrolisboa.pt/en/buy/>

Discover Lisbon with the Lisbon Card: <https://www.lisboacard.org/>

Lisbon Official Website: <https://www.visitlisboa.com/en>

PROGRAM







BDS2024 TIMETABLE

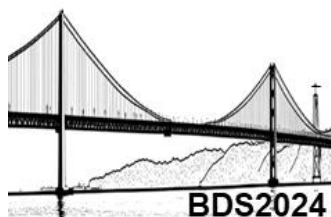
	ISC = Invited Speaker Communication OC = Oral Communication YRS = Young Researcher Session	20 min talk (questions included) 15 min talk (questions included) 10 min talk (questions included)				
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	
	Chair (A. Schönlank)	S02 Soft matter dynamics A (Chair M. Paluch)	S04 Water, H-bond, Biol A (Chair Y. Feldman)	S04 Water, H-bond, Biol B (Chair J. Swenson)	S02 Soft matter dynamics C (Chair S. Napolitano)	
08:30	Tutorial 1	IS13-502 Alois Loidl	S24-504 Silvina Cerveny	IS35-504 Yuri Feldman		08:30
08:35	The glass transition: linear vs non-linear perspective	OC4-502 Caroline Raepsaet	OC19-504 Yang Yao	OC29-504 Hiroaki Matsura		08:35
08:40		OC5-502 Altar Erkoreka	IS25-504 Yasuaki Monnai	IS36-504 Henrique Gomes		08:40
08:45		IS14-502 Emeline Dudagnon	OC20-504 Keisuke Tomiyama	OC30-504 Tatiana Starciuc		08:45
08:50		OC6-502 Federico Caporali	OC21-504 Jacco Gerstman	IS37-504 Michael Vogel		08:50
08:55	Daniele Cangialosi	OC7-502 Marzena Rams-Baron	IS26-504 Apostolos Kyritsis	S02 Soft matter dynamics B (Chair E. Dudagnon)		08:55
09:00	Break	IS15-502 Michele Romanelli	IS27-504 Syed Tofail	IS38-502 Roberto Macevo	IS45-502 Christiane Alba-Simionesca	09:00
09:05	Molecular Dynamics simulations: limits and possibilities	OC8-502 Dmitry Matyushov	IS28-504 Carlos Dias	IS39-509 Andreas Schönhals	OC37-502 Thulasinath Ramanakantesan	09:05
09:10		OC9-501 Kanonri Takahashi	IS29-511 Eric Dantes	IS40-505 Magdalena Tarnacka	OC38-505 Zuzanna Wójcik	09:10
09:15		OC10-510 Pierre-Michel DeJardin	IS30-510 Bruno Mele	IS41-505 Paul Vilarinho	OC39-505 Aurelien Roggero	09:15
09:20		OC11-507 Herbert Klem	OC32-510 Florian Pabst	IS42-505 Luka Pavic	IS43-505 Jose L. Gomez-Ribelles	09:20
09:25	OC12-509 Anna Dreier	OC33-510 Ronald White	IS43-505 Luka Pavic	IS44-501 Ana R. Brás Wierzbicka	09:25	
09:30	OC13-507 Morgan Lecoubert	OC34-510 Adam Szentlői	IS44-505 Luka Pavic	IS45-505 Catalin Gainaru	09:30	
09:35	OC14-507 Adam Szentlői	OC35-510 Bruno Mele	IS46-505 Luka Pavic	IS46-505 Catalin Gainaru	09:35	
09:40	OC15-507 Herbert Klem	OC36-510 Florian Pabst	IS47-505 Luka Pavic	IS47-505 Catalin Gainaru	09:40	
09:45	OC16-511 Gustavo Schwartz	OC37-510 Florian Pabst	IS48-505 Luka Pavic	IS48-505 Catalin Gainaru	09:45	
09:50	OC17-511 Tina Hecher	OC38-510 Florian Pabst	IS49-505 Luka Pavic	IS49-505 Catalin Gainaru	09:50	
09:55	OC18-503 François Ladieu	OC39-510 Florian Pabst	IS50-505 Luka Pavic	IS50-505 Catalin Gainaru	09:55	
10:00	OC19-503 Shiwang Cheng	OC40-510 Florian Pabst	IS51-505 Luka Pavic	IS51-505 Catalin Gainaru	10:00	
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18:45	OC124-503 Shiwang Cheng					

Program



Monday, 2nd September, Morning

Tutorials (Chair A. Schönhals)		
8:30	Daniele Cangialosi	“The glass transition: linear vs non-linear perspective”
9:20	Frédéric Affouard	“Molecular Dynamics simulations: limits and possibilities”
Coffee Break 		
10:20	Catalin Gainaru	“Dielectric spectroscopy in relation to other experimental techniques”
11:15 Opening Session Director of FCT-NOVA, Prof. Doutor José Júlio Alferes President of IDS, Ranko Richert, Chairs of Conference		
S01 - Polymer Dynamics A (Chair R. Richert)		
11:50	Alexei Sokolov	“Energy Barrier for Structural Relaxation, Molecular and Ion Transport in Polymers: a Revised Approach”
12:10	Aurora Nogales	“Dielectric Spectroscopy on vitrimers based on transesterification reactions”
Lunch 		
Monday, 2nd September, Afternoon		
S01 - Polymer Dynamics B (Chair A. Nogales)		
14:00	Michael Wübbenhorst	“Glass Transition Effects in a Thermo-reversible Network”
14:20	Senentxu Lanceros-Mendez	“Broadband dielectric spectroscopy for advancing understanding and applicability of poly(vinylidene fluoride)/ionic liquid blends as sensor, actuators and energy storage systems”
14:40	Koji Fukao	“Slow dynamics above and below glass transition for some polymer systems”
15:00	Mustapha Raihane	“Bionanocomposites based on biodegradable polyesters and clays prepared by <i>in-situ</i> polymerization: structures, characterizations, and dielectric properties”
15:20	Simone Simon Napolitano	“The dielectric response of the slow Arrhenius process (SAP)”


15:40	Morgan Lecouplet	“Dielectric and viscoelastic properties of 3D-printed cellulose based bionanocomposites for electrical insulation application”
Coffee Break 		
S08 - BDS in relation to other Spectroscopic or Scattering Techniques A (Chair E. Rössler)		
16:30	Thomas Blochowicz	“The spectral shape of structural relaxation in supercooled liquids: light scattering vs. dielectric spectroscopy”
16:50	Marceau Hénot	“Orientational dynamics in supercooled glycerol computed from MD simulations: self and cross contributions”
17:05	Anne-Caroline Genix	“Coupling of shear rheology with SAXS and BDS in rubber nanocomposites”
S06 - Monitoring of Chemical Reactions, Crystallization process and Physical Ageing (Chair S. Cheng)		
17:30	Tiberio A. Ezquerro	“Hydrogen bonding during cold crystallization of Poly(alkylene 2,5-furanoate)s”
17:50	Jessica Mangialetto	“Modelling of the Evolving Glass Transition Temperature During Cure of Diels-Alder Thermo-reversible Networks”
18:05	Raj Suryanarayanan	“Time and temperature dependence of nucleation and crystallization in amorphous pharmaceuticals”
18:25	Kristine Niss	“Density Scaling and Single Parameter Aging”
19:00 Welcome Drink 		



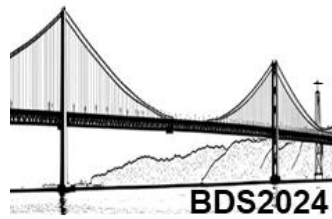
Tuesday, 3rd September, Morning

S02 - Soft Matter Dynamics and Phase Transitions in Amorphous, Partially Ordered and Ordered Systems A (Chair M. Paluch)		
8:30	Alois Loidl	“Critical behavior and phase transitions in supercooled liquids and glasses”
8:50	Caroline Raepsaet	“Non linear responses in a family of oligomers: inspecting the possible influence of the length of the molecules”
9:05	Aitor Erkoreka	“An interpretation of the dielectric spectra of polar nematic phases”
9:20	Emeline Dudognon	“Amorphous solid dispersions of Terfenadine into PVP: insights from the molecular mobility characterisation”
9:40	Federico Caporaletti	“The slow Arrhenius process: a simple solution to multiple problems in glass equilibration”
9:55	Marzena Rams-Baron	“Image of the internal solid-state rotation in the dielectric response of sizable molecules with polar rotors”
10:10	Michela Romanini	“Multiple relaxations in orientationally disordered benzene derivatives with strongly restricted rotational dynamics”
Coffee Break & Posters 		
S10 - Modeling, Theory and Simulation A (Chair F. Kremer)		
11:05	Frédéric Affouard	“Investigation of the nature of the translational and orientational disorder in pharmaceutical cocrystals from molecular dynamics simulations and dielectric relaxation spectroscopy experiments”
11:25	Dmitry V. Matyushov	“Nonlinear dielectric spectroscopy of liquids and protein solutions”
11:40	Kazunori Takahashi	“Inversion of Coaxial Transmission Line Data Using Numerical Simulation”
11:55	Pierre-Michel Déjardin	“On the Kirkwood correlation factor of dense isotropic polar fluids”
12:10	Jeppe C. Dyre	“Solved and unsolved problems relating to the Random Barrier Model”
Lunch 		


Tuesday, 3rd September, Afternoon


S09 - Confinement effects A (Chair S. Cerveny)		
14:00	George Floudas	“Nanopores as separation membranes for blends comprising polymers of different architecture and microstructure”
14:20	Katarzyna Chat	“The influence of pressure and volume changes on the non-equilibrium segmental dynamics of polymers”
14:35	Anna Drzewicz	“Molecular dynamics of ultrathin films of liquid crystal obtained via organic molecular beam deposition”
S07 - Ferroelectrics and Ceramics (Chair P. Vilarinho)		
14:55	Torsten Granzow	“Structural (dis-)order, dielectric response and phase transition properties of electrocaloric ferroelectrics”
15:15	Men Guo	“Insights into the aging mechanism of ZnO ceramics from broadband dielectric spectroscopy”
15:30	Adam Sieradzki	“Order – Disorder Phase Transitions in Hybrid Organic – Inorganic Perovskites – Insights from Broadband Dielectric Spectroscopy”
15:45	Herbert Kliem	“A feedback Model for Relaxor Ferroelectrics”
Coffee Break & Posters		
		
S11 - Industrial and Technological Applications A (Chair E. Dantras)		
16:30	Anatoli Serghei	“Improving electrical insulating properties by using conductive materials: the interplay between permittivity and conductivity”
16:50	Gustavo A. Schwartz	“Using artificial neural networks to predict the dynamics of molecular glass formers”
17:05	Tina Hecksher	“Broadband mechanical spectroscopy made available for dielectric setups”
S03 - The impact of external variables in dielectric properties (Chair T. Ezquerro)		
17:25	Ranko Richert	“Dielectric Spectroscopy of Vapor Deposited Films”
17:45	Paul Ben Ishai	“Organic Magnetoresistance – a test bed for Dielectric-Spin interactions”

18:05	Francois Ladieu	“Optical manipulation of chromophores in a molecular glass former: from photofluidization to random pinning”
18:20	Shiwang Cheng	“Dynamics of monohydroxy alcohols: Rouse dynamics, chain swapping, and the Debye relaxation”



Wednesday, 4th September, Morning

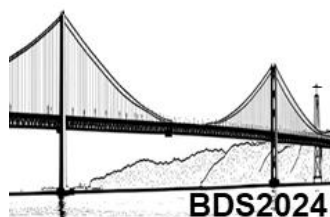
S04 - Water, Hydrogen Bonded and Biological Systems A (Chair Y. Feldman)		
8:30	Silvina Cerveny	“Unravelling the Glass Transition of Confined Water: A Calorimetric and Dielectric study”
8:50	Yang Yao	“Water state in lipidic mesophase during phase transition”
9:05	Yasuaki Monnai	“Exploring Non-Contact Ultrasound Technology via Sub-Terahertz Photoacoustics for Human-Oriented Applications”
9:25	Keisuke Tominaga	“Dynamics of Hydrated Soft Matters Studied by Broadband Dielectric Spectroscopy and Molecular Dynamics Simulations”
9:40	Jacob Gerasimov	“Perturbing the Dynamic Structure of Water by Ion Solvation”
9:55	Apostolos Kyritsis	“Water organization in amphiphilic block copolymers with thermoresponsive behaviour”
10:15	Syed A. M. Tofail	“Is Nanoconfined Water Electrically ‘Dead’ or ‘Alive’?”
Coffee Break & Posters 		
Young Research Section A (Chair L. Delbreilh)		
11:10	Kaylie C. Glynn	“Decoupling viscosity and conductivity by leveraging Grothuss diffusion in imidazole systems” [S02]
11:20	Ioannis Tzourtzouklis	“Phase Diagram, Glassy Dynamics, & Crystallization Kinetics of the Bio-based Polyester Poly(ethylene-2,5-furanoate)” [S02]
11:30	Rolf Zeißler	“Identifying dipolar cross correlation contributions to the dielectric response of water” [S04]
11:40	Francesco Coin	“Water dynamics on calcium pectin-based hydrogels for application in water remediation” [S04]
11:50	Kosei Kawai	“Measurement of rotational relaxation time of water in biosystem by shortwave infrared micro spectroscopy” [S04]
12:00	Vasileios Moschos	“Dynamically and Structurally Heterogeneous Ethanol/Water Mixtures” [S04]

12:10	Sandra Krüger	“Water Dynamics in Aqueous Dipeptide Solutions Studied by BDS and 2H NMR” [S04]
12:20	Sofia R. Mendes	“Evaluating polyantimonic acid membranes as solid-state fuel cell electrolytes” [S07]
Lunch 		


Wednesday, 4th September, Afternoon


S11 - Industrial and Technological Applications B (Chair H. Gomes)		
14:00	Geoff Smith	“Through-vial impedance spectroscopy as a process analytical technology for developing pharmaceutical freeze-drying cycles”
14:20	Cindy Galindo	“Microwave Dielectric Response of Cytoplasmic Water in Red Blood Cells Upon Glucose Uptake”
14:35	Eric Dantras	“Broaden the use of dielectric spectroscopy to non-polar polymers: implementation of dipolar probes by gamma irradiation”
S10 - Modeling, Theory and Simulation B (Chair J. Dyre)		
15:00	Carlos J. Dias	“Kramers-Kronig relations expressed as a convolution pair and its uses in Broadband Dielectric Spectroscopy”
15:20	Ronald P. White	“Introducing a Mechanistic Perspective on the Slow Arrhenius Process (SAP) in Glass Forming Systems”
15:35	Bruno M. G. Melo	“EIS smart tool: An application software for the analysis and modeling of impedance spectroscopy data with multi-curve fitting”
15:50	Florian Pabst	“Dielectric Spectra from First-Principles Simulations: Water, Salty Water and Others”
Coffee Break & Posters		
		
S08 - BDS in relation to other Spectroscopic or Scattering Techniques B (Chair C. Alba-Simionesco)		
16:35	Daniele Cangialosi	“Molecular mechanisms of glass aging”
16:55	Silvia Arrese-Igor	“Old news: dielectric spectroscopy is a good probe to study structural relaxation of glass forming systems”

17:05	Sébastien Pruvost	“Effect of hydrogen bonds on molecular mobility in P(MMA-co-MAA)/cellulose nanofibers composites”
17:25	Ernst Rössler	“Glass spectrum, excess wing phenomenon, and master curves in molecular glass formers”
S01 - Polymer Dynamics C (Chair G. Floudas)		
17:50	Laurent Delbreilh	“Interest of pressure controlled dielectric spectroscopy to probe the interdependence between fragility and cooperativity for polymeric segmental relaxation”
18:10	Jiaxin Zhao	“Chain-length-dependent relaxation dynamics in poly(methyl acrylate)”
18:25	Paulina Szymoniak	“Vitrimers – Rethinking Epoxies Towards Recyclable and Reusable Thermosets”
IDS Meeting		



Thursday, 5th September, Morning

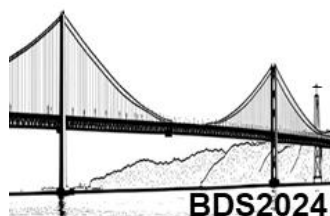
S04 - Water, Hydrogen Bonded and Biological Systems B (Chair J. Swenson)		
8:30	Yuri Feldman	“Duped or Doped? Utilizing Microwave Spectroscopy for Autologous Blood Doping Detection”
8:50	Hiroaki Matsuura	“Slow dynamics of intracellular water measured by BDS with Kramers-Kronig relations and Bruggeman–Hanai equation”
9:05	Henrique Leonel Gomes	“Sensing devices that use electrical double-layers and impedance spectroscopy: design strategies”
9:25	Tatiana Starciuc	“Contribution of dielectric spectroscopy used to scrutinize the protein stabilization mechanisms and the role of water”
9:40	Michael Vogel	“Dynamics of Ice in Nanoconfinements and Mixtures: Combined BDS and NMR Studies”
S02 - Soft Matter Dynamics and Phase Transitions in Amorphous, Partially Ordered and Ordered Systems B (Chair E. Dudugnon)		
10:05	Roberto Macovez	“Relaxation dynamics of amorphous molecular pharmaceuticals and of their binary mixtures near the eutectic composition”
10:25	Kinga Lucak	“Molecular dynamics of halogen monoalcohols at different thermodynamic conditions”
Coffee Break & Posters		
		
Young Research Section B (Chair A. Sokolov)		
11:10	Sílvia Gavinho	“Investigation of the Effects of Cerium Oxide Addition on Bioglass 45S5” [S03]
11:20	Marianna Spyridakou	“Enhanced Ionic Conductivity in Single-Ion-Conducting Block Copolymer Electrolytes of PS- <i>b</i> -P(EO-co-GME)” [S05]
11:30	Maxwell Sparey	“Shear Force Microwave Microscopy: Complex impedance imaging, and Single Entity Electrochemistry” [S08]
11:40	Efrat Hochma	“Phyto- and Phyto-Second Harmonic Generation-Photodynamic Therapy of Prostate Cancer Cells” [S08]
11:50	Lucas Leveque	“Conductive P3HT nanotubes: structure/properties relationship and applications” [S09]

12:00	Elisa Steinrücken	“Water Dynamics in Silica Confinements with Various Surface Chemistries Studied by BDS and NMR” [S09]
12:10	Panagiotis Kardasis	“How Do Polymers and Mixtures of Different Architecture Penetrate Nano Channels?” [S09]
Lunch 		


Thursday, 5th September, Afternoon

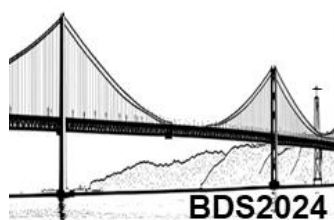
S09 - Confinement effects B (Chair M. Vogel)		
14:00	Andreas Schönhals	“Signature of the Adsorbed Layer on the Glass Transition of Thin Polymer Films: Broadband Dielectric Spectroscopy and Related Techniques”
14:20	Magdalena Tarnacka	“The impact of confinement on the behavior of associating materials. The case of phenyl alcohols”
14:35	Erik Thoms	“Dielectric evidence of high kinetic stability in vapour-deposited binary glasses with large Tg contrast”
14:50	Kamil Kaminski	“The influence of pore walls nanostructurization on the dynamics of low and high molecular weight systems”
S05 - Charge Transport and Interfacial Effects A (Chair B. Roling)		
15:10	Luka Pavic	“Insight into Electrical Conduction in Phosphate-Based Glasses: The Role of Transition Metal Oxides and the Mixed Glass Former Effect”
15:30	Achilleas Pipertzis	“Ionic and Electronic Conductivity in Structural Negative Electrode Laminas”
15:45	Paula Vilarinho	“Decoding Ferroelectrics: Dielectric and Impedance Spectroscopy as Tools for Electrical Microstructure Assessment”
Coffee Break & Posters 		
S01 - Polymer Dynamics D (Chair M. Wübbenhorst)		
16:35	Ralph H. Colby	“Anhydrous Proton Conduction in Polymers Containing Azoles and Phosphonic Acids”
16:55	José Luis Gomez Ribelles	“Crystallization and dielectric properties of PVDF-ionic liquid blends”

17:15	Stavros X. Drakopoulos	“Segmental Relaxation of Polystyrene Modified with Pyrene Molecules”
17:30	Ana Brás Würschig	“Structure and Dynamics of Supramolecular poly(alkyl ether)-based Polymers: insight with DS combined with Neutron Scattering and Rheology”
17:50 Prizes Announcement		
18:15 Bus to the Gala Dinner		



Friday, 6th September

S02 - Soft Matter Dynamics and Phase Transitions in Amorphous, Partially Ordered and Ordered Systems C (Chair S. Napolitano)		
9:10	Christiane Alba-Simionesco	“Glass Transition and Crystallisation of n-Butanol by simultaneous Dielectric Spectroscopy and Neutron Diffraction”
9:30	Thulasinath Raman Venkatesan	“Self-assembly in bottlebrush polymers detected using dielectric spectroscopy”
9:45	Marian Paluch	“Reorientational Dynamics of Sizable Glass-Formers - Broadband Dielectric Spectroscopy Studies”
10:05	Ana Santic	“Ionic transport in supramolecular ionic liquid gels prepared with bis(amino alcohol)oxamides as gelators”
Coffee Break 		
S05 - Charge Transport and Interfacial Effects B (Chair A. Serghei)		
10:40	Bernhard Roling	“Elucidating the Transport of Electrons and Molecules in a Solid Electrolyte Interphase (SEI) close to Battery Operation Potentials using a Four-Electrode-Based Generator-Collector Setup”
11:00	Zaneta Wojnarowska	“Dynamics of Ionic Liquid-Water Mixtures at Ambient and Elevated Pressure”
11:15	Jan Swenson	“Relaxation Dynamics and Ionic Conductivity in Structural Battery Electrolytes”
11:35	Aurélien Roggero	“Molecular mobility and interfacial polarization study on model two-phase epoxy-amine networks”
11:50	Joshua Sangoro	“Evidence of Liquid-Liquid Transitions in Ionic Liquids”
12:10	Martin Tress	“BDS on the nanoscale: restricted crystallization and conductivity of polymers in finite size”
12:25	Catalin Gainaru	“Achieving superionic conductivity in polymer electrolytes”
12:45 Concluding Remarks		
Finger Lunch		



POSTER CONTRIBUTIONS

Achilleas Pipertzis

[P01-S01] “Molecular Dynamics and Self-assembly in Double Hydrophilic Copolymers with Densely Grafted Macromolecular Architecture”

Diogo Gomes

[P02-S01] “Microplastics Evaluation by Electrical Spectroscopy”

Ioannis Tzourtzouklis

[P03-S01] “Molecular Dynamics and Viscoelastic Properties of the Biobased 1,4-Polymyrcene”

Marianna Spyridakou

[P04-S01] “Heterogeneous Local Environments in Mussel-Inspired Elastomers”

Mydhili Varma

[P05-S01] “Dissecting the Role of Reduced Graphene Oxide on the Dielectric Properties of PEDOT:PSS-PVA Blends”

Stavros X. Drakopoulos

[P06-S01] “Relaxation Dynamics of Hydroxypropylmethylcellulose Acetate Succinate: via Dielectric and Mechanical Methods”

Alfred Blázquez

[P07-S02] “Unusual secondary relaxation in the glass-forming molecular rotors”

Fabián Puga

[P08-S02] “Physical characterization of a carbamazepine/oxalic acid cocrystal designed by liquid-assisted grinding”

Federico Caporaletti

[P09-S02] “The slow Arrhenius process beyond thin-film geometry”

Kenneth Rojo

[P10-S02] “Comparative Analysis of the Structure, Thermodynamics, and Dynamics of Amorphous Forms of Trehalose” (Poster & Video)

Nikolaos Fotaras

[P11-S02] “Local and global dynamics of cis-1,4-Polyfarnesene in PS-*b*-Polyfarnesene diblock copolymer as a function of phase state”

Paulina Jesionek

[P12-S02] “Variation of Activation Volume as an Indicator of the Change in Clusterization Phenomenon in Flurbiprofen Enantiomers and the Racemate”

Sara Zimny

[P13-S02] “Is There a Relationship Between Wettability and the Rates of Equilibration of Hydrogen-Bonded Oligomer PMMS under Confinement?”

Teresa Viciosa

[P14-S02] “Improving the stability of amorphous drugs by deposition on the surface of silica nanoparticles”

Michal Rajnak

[P15-S03] “Rheo-dielectric study of transformer oil-based magnetic nanofluid”

Mohamad Barzegar

[P16-S03] “High-resolution TGA combined with BDS: a new tool to investigate the effect of water on the electrical conductivity of concrete”

Kaito Sasaki

[P17-S04] “Isotopic Study on the Dynamics of High-Density-Amorphous Ice Under High Pressure”

Kang Hu

[P18-S04] “The Molecular Nature behind the Dielectric Spectra in the Gigahertz Domain”

Marianna Ambrico

[P19-S04] “Early detection of Xylella-related plant disease via Broadband Dielectric Spectroscopy”

Vasileios Moschos

[P20-S04] “Effect of Hard Confinement (in Nanopores) on the Phase State and Dynamics of 1-propanol/water mixtures”

Andreia F. M. Santos

[P21-S05] “Nanoconfined Ionic Liquid Crystals as Hybrid Materials with Improved Conductivity Properties” (Poster & Video)

Jan Swenson

[P22-S05] “Phase Behavior, Relaxation Dynamics and Ionic Conductivity in Mixtures of Protic Ionic Liquids”

Michael Wübbenhorst

[P23-S05] “Enhanced decoupling of conductivity relaxation from structural relaxation in non-stoichiometric protic ionic liquids”

Yun Dong

[P24-S05] “Demixing of Polymerized Ionic Liquid/Ionic Liquid Mixtures by Infiltration in Nanopores”

Hyeong Yong Song

[P25-S06] “Rheo-combined Dielectric Spectroscopy to Monitor Isothermal Crystallization of Poly(butylene succinate) (PBS)”

Peng Fang

[P26-S07] “Using Dielectric-Resonance Spectroscopy to Study the Dielectric Behaviors of Polymer-Based Ferroelectrets”

Silvia Soreto Teixeira

[P27-S07] “Advanced PVDF-TiO₂ Composites for Efficient Energy Storage”

Subir Majumder

[P28-S07] “Dielectric behaviour of BFO ceramics”

Martin Tress

[P29-S08] “Thermal expansion of inter-molecular H-bonds”

Vyankat P. Pawar

[P30-S08] “Temperature Based Study of Dielectric Permittivity and Dielectric Susceptibility in the Binary Mixture of Polar Liquids”

Erik Thoms

[P31-S09] “Dielectric evidence of high kinetic stability in vapour-deposited binary glasses with large T_g contrast”

Lucas Leveque

[P32-S09] “Conductive P3HT Nanostructures: Structure/Property Relationship and Applications”

Natália T. Correia

[P33-S09] “Dynamics of a Confined Drug from Complementary Perspectives: Experiments vs MD Simulations”

Panagiotis Kardasis

[P34-S09] “Imbibition Kinetics of Poly(ethylene oxide) in Nanopores by *In Situ* Nanodielectric Spectroscopy” (Poster & Video)

Shiwang Cheng

[P35-S09] “Dynamics of polylactic acid under ultrafine nanoconfinement: the collective interface effect and the spatial gradient”

Florian Pabst

[P36-S10] “Glassy Dynamics from First-Principles Simulations”

Anatoli Serghei

[P37-S11] “Universal relationship between the electromagnetic interference shielding effectiveness of composite materials and their electrical properties”

Luís Cadillon Costa

[P38-S11] “Materials electrical characterization: from DC to microwave frequencies”

Manuel P. F. Graça

[P39-S11] “Comprehensive Electrical and Biological Analysis of Bioglass in Bulk and Pressed Powder Forms”

Youssef Elamine

[P40-S11] “Dielectric properties of honey: application in botanical origin determination”

