Sunday 26th August

14:00 – 19:00 **REGISTRATION**

Tutorial Lectures

14:00 – 15:00	**Aurora Nogales** CSIC Madrid	***Introduction to dielectric relaxation*** Case study: *performing 'bulk' experiments in nanoconfined systems*
15:00 – 16:00	**Silvina Cerveny** Centro de Física de Materiales	***Dynamics of water*** Case study: *molecular relaxation in aqueous solutions of synthetic and biological materials*
16:00 – 17:00	**Zaneta Wojnarowska** University of Silesia	***High pressure dielectric spectroscopy*** Case study: *charge transfer in ionic glass-formers*
17:00 – 18:00	**Kristine Niss** Roskilde University	***Maxwell-Wagner polarization*** Case study: *analysis of crystallization kinetics*

18:00 -19:00 **WELCOME DRINK**

Monday 27th August

08:00 - **REGISTRATION**

08:30 - 08:50 **WELCOME SPEECH**

BDS in relation to other techniques 1

08:50 – 09:20	**Friedrich Kremer** University of Leipzig	*Dielectric spectroscopy with optical detection – a realistic perspective?*
09:20 – 09:40	**Aurélien Roggero** Université de Toulouse	*Broadband dielectric and thermally-stimulated electrochemical impedance spectroscopies for the analysis of organic coatings*
09:40 – 10:00	**Florian Pabst** TU Darmstadt	*Depolarized Dynamic Light Scattering of Ionic Liquids combined with Dielectric Spectroscopy*
10:00 – 10:30	**Alejandro Sanz** Roskilde University	*Simultaneous dielectric and scattering techniques in the temperature-pressure plane*

10:30 –11:00 **COFFEE BREAK**

BDS in relation to other techniques 2

11:00 – 11:20	**David Nieto Simavilla** Université libre de Bruxelles	*Kinetics of irreversible adsorption: thermodynamics vs molecular mobility*
11:20 – 11:40	**Tina Hecksher** Roskilde University	*What shear mechanics see that dielectrics doesn't: slow modes in glycerol and glycerol-water mixtures*
11:40 – 12:00	**Willhelm Kossack** University of Leipzig	*Infrared and dielectric spectroscopy to unravel the nature of the structural- and the secondary-relaxation in glycerol, threitol, xylitol and sorbitol*

Terahertz Spectroscopy 1

12:00 – 12:30	**Boris Gorshunov** Moscow Institute of Physics	*Nano-confined water: from incipient ferroelectricity to ferroelectric relaxor behavior*

12:30 – 13:00	**Paul Ben Ishai** Ariel University	*Terahertz Spectroscopy – Great Expectations*

13:00 –14:30 **LUNCH**

Terahertz Spectroscopy 2

14:30 – 14:50	**Mohsen Sajadi** Fritz Haber Institure der MPG	*Non-linear THz spectroscopy of liquids*
14:50 – 15:10	**Keisuke Tominaga** Ariel University	*Broadband Dielectric Spectroscopy on Proteins and Lipid Bilayers from sub-GHz to THz region*

Industrial applications 1

15:10 – 15:40	**Marian Paluch** University of Silesia	*Physical stability of amorphous drugs: the role of molecular mobility*
15:40 – 16:00	**Emeline Dudognon** Université de Lille	*Insights from dielectric spectroscopy on the physical states of an Active Pharmaceutical Ingredient reached by milling*

16:00 –17:00 **COFFEE BREAK / POSTER SESSION**

Industrial applications 2

17:00 – 17:30	**Madalena Dionisio** Universidade Nova de Lisboa	*Stabilizing high internal energetic states of pharmaceutical drugs by nanoconfinement*
17:30 – 17:50	**Natalia Correia** Université de Lille	*Influence of chirality on ibuprofen molecular dynamics and hydrogen bonding organizations*
17:50 – 18:10	**Roger Walker** Penn State University	*Impact of crosslinking and degassing on conductivity and morphology of polyethylene*

19:45 – **EVENT FOR INVITED SPEAKERS**

Tuesday 28th August

Young Researcher Session

08:30 – 08:42	**Thomas Gambino** Centro de Fisica de Materiales, MICHELIN	*Combined dielectric spectroscopy and neutron scattering study of a Polymer Blend as a Simplified Industrial System*
08:42– 08:54	**An-Sofie Huysecom** KULeuven	*Predicting the localization and interconnectivity of carbon nanotubes in compatibilized bi-phasic polymer blends*
08:54 – 09:06	**Bienvenu Atawa** UNIROUEN	*Molecular dynamics of chiral amorphous compounds: Original case study of Nac-MBA*
09:06 – 09:18	**Preeya Kuray** Pennsylvania State University	*Correlating the ionic conductivity and Morphology of Pendant and Backbone Polymerized Ionic Liquids*
09:18 – 09:30	**Achillefs Pipertzis** Univeristy of Ioannina	*Polythiophene-based polyelectrolytes from polymerized ionic liquids. Self-assembly and dc conduction*
09:30 – 09:42	**Sebastian Peter Bierwirth** TU Dortmund	*Coexistence of two structural relaxation processes in mixtures involving monohydroxy alcohols*
09:42– 09:54	**Arda Yildirim** BAM	*Molecular mobility and ionic conductivity of Ionic Liquid Crystals Forming a Hexagonal Columnar Mesophase*
09:54 – 10:06	**Anna Czaderna-Lekka** Lodz Univesity of Techonology	*The analysis of molecular relaxation in thermo-responsive polymer hydrogels*
10:06 – 10:18	**Jorge Melillo** Centro de Fisica de Materiales	*Dynamics of ice in ice nucleating protein (INP) solutions*
10:18 – 10:30	**Alessia Gennaro** KULeuven	*Surface imprinting surface characterization for cell detection by dielectric relaxation spectroscopy*

10:30 –11:00 **COFFEE BREAK**

Nanoconfinement 1

11:00 – 11:30	**Koji Fukao** Ritsumeikan University	Asymmetric interfacial dynamics and glass transition in stacked thin polymer films
11:30 – 12:00	**Andreas Schönhals** BAM	Growth kinetics and molecular mobility of irreversibly adsorbed layers in thin polymer films

12:00 – 12:20	**Sherif Madkour** University of Leipzig	Mapping the Dynamic Heterogeneities in Thin Films of Miscible PVME/PS Blend by Nano-sized Relaxation and X-ray Spectroscopies
12:20 – 12:40	**Magdalena Tarnacka** Univerisity of Silesia	How does the vitrification of the interfacial layer affects the Molecular Dynamics of Glass-Formers at the Nanoscale? The Impact of Interactions
12:40 – 13:00	**William Hunter Woodward** The Dow Chemical Company	On the glass transition suppression of Polystyrene in SBS Rubber

13:00 –14:30 **LUNCH**

Nanoconfinement 2

14:30 – 15:00	**Angel Alegría** Universidad del Pais Vasco	*Size effects on the segmental dynamics of sub 10-nm segregated polydimethysiloxane*
15:00 – 15:30	**Karolina Adrjanowicz** University of Silesia	*Confinement induced changes in the Relaxation Dynamics and Crystallization Behavior of Glass-Forming Liquids*
15:30 – 16:00	**Daniele Cangialosi** CSIC	*Glass transition and molecular mobility by calorimetry in confined glasses*

16:00 –16:30 **COFFEE BREAK**

Pressure and volume

16:30 – 16:50	**Ronald White** Dartmouth University	*The Cooperative Free Volume Rate Model for pressure dependent dynamics*
16:50 – 17:20	**Jane Lipson** Dartmouth University	*Relaxation in bulk and thin films: Insights using the Cooperative Free Volume Model*
17:20 – 17:50	**Kristine Niss** Roskilde University	*Mapping isobaric aging onto the equilibrium phase diagram*
17:50 – 18:20	**Daniel Fragiadakis** Naval Research Laboratory	*Isochronal superposition, density scaling and the nature of the β relaxation*
18:20 – 18:40	**Henriette Wase Hansen** Institut Laue-Langevin	*Isochronal superposition from picosecond to second investigated with simultaneous dielectric and neutron spectroscopy*

Wednesday 29th August

Scaling of alpha and beta

08:30 – 09:00	**Ryusuke Nozaki** Hokkaido University	*Microscopic nature of β process of sugar alcohols*
09:00 – 09:30	**Kia Ngai** IPCF-CNR Pisa	*The JG β–relaxation / primitive relaxation never fail to show up in binary mixtures and polymer blends*
09:30 – 09:50	**Federico Caporaletti** Università di Trento	*Nuclear resonant scattering as microscopic probe for the Johari-Goldstein relaxation process in supercooled liquids*
09:50 – 10:10	**Shimon Lerner** JCT Lev Academic Center	New link between structural and Johari-Goldstein Relaxation Parameters in Glass Formers
10:10 – 10:30	**Pierre-Michel Dejardin** Université de Perpignan	Linear and non-linear orientational correlation factors from the rotational Dean-Kawasaki equation
10:30 –11:00		**COFFEE BREAK**
11:00 – 11:30	**Alessio Zaccone** University of Cambridge	*Microscopic modelling of dielectric α and β relaxation in glasses and orientationally disorder crystals based on Generalized Langevin Equations*
11:30 – 12:00	**Alexei Sokolov** University of Tennesse	*Qualitative change in temperature dependence of Structural Relaxation: Diverge or not Diverge*

Soft Matter 1

12:00 – 12:30	**Ranko Richert** University of Arizona	*Control of Crystallization Outcomes in Molecular Glass-Formers by Electric Fields*
12:30 – 13:00	**Michael Wübbenhorst** KULeuven	*Competing order phenomena and peculiar crystallization kinetics of polyamide 12 as revealed by dielectric spectroscopy*
13:00 –14:30		**LUNCH**

Soft Matter 2

14:30 – 15:00	**Aurora Nogales** IEM-CSIC	*Relaxations and Relaxor-Ferroelectric-like Response of Poly(vinylidene fluoride) confined in cylindrical nanocavities*
15:00 – 15:20	**Christoph Grams** University of Cologne	*Soliton excitations in multiferroic $LiCuVO_4$*
15:20 – 15:40	**Cristian Rodriguez-Tinoco** University of Silesia	*Further insights into vapour deposited ultrastable glasses from dielectric spectroscopy*
15:40 – 16:00	**Patricia Losada-Pérez** Université libre de Bruxelles	*Asymmetry liquid-liquid criticality in the refractive index and the dielectric constant coexistence curves*

16:00 –16:30 **COFFEE BREAK**

Soft Matter 3

16:30 – 16:50	**Małgorzata Jasiurkowska-Delaporte** Polish Academy of Sciences	*The interplay between crystallization and glass transition in nematic liquid crystal 2,7-bis(4-pentylphenyl)-9,9-diethyl-9H-fluorene (5P-EtFLEt-P5)*
16:50 – 17:10	**Josep Tamarit** Barcelona Research Center in Multiscale Science and Engineering	*Dynamics in weakly disordered solids*
17:10 – 17:40	**Joshua Sangoro** University of Tennessee	*Dynamics and ion transport in mesoscopic Structured Liquids*

Non-linear

17:40 – 18:10	**Catalin Gainaru** TU Dortmund	*Nonlinear dielectric response beyond structural relaxation in glass-forming materials*
18:10 – 18:30	**François Ladieu** Université Paris-Saclay	*Third and fifth harmonic responses in liquids*
18:30 – 19:00	**Roland Böhmer** TU Dortmund	*Nonlinear electrical and rheological responses of glass formers*

19:30 – **IDS Board Meeting**

Thursday 30th August

Polymer Dynamics 1

08:30 – 09:00	**George Floudas** University of Ioannina	*Effect of chain topology on segmental dynamics*
09:00 – 09:20	**Martin Tress** University of Tennessee	*Network formation and molecular dynamics in hydrogen-bonding telechelic polymers: a competition between association lifetime and structural relaxation*
09:20 – 09:40	**Stavros Drakopoulos** Loughborough University	*Understanding the evolution of entanglements upon the dielectric relaxations in dis-UHMWPE in the presence of Al2O3 catalytic ashes*
09:40 – 10:00	**Daniel Martínez-Tong** Donostia International Physics Center	*Molecular dynamics of novel poly(pentamethylene 2,5-furanoate): Exploring a complete landscape of molecular dynamics and finding unexpected results*
10:00 – 10:30	**Silvina Cerveny** Centro de Física de Materiales	*Dynamics of raw and vulcanized rubber. What can we learn from dielectric spectroscopy studies?*

10:30 –11:00 **COFFEE BREAK**

Polymer Dynamics 2

11:00 – 11:30	**Ivan Popov** Oak Ridge National Laboratory	*Straightening effect of the polymer chains around nanoparticles*
11:30 – 11:50	**Beatriz Robles-Hernández** Donostia International Physics Center	*Dramatic effect on the slower component topology on the matrix dynamics in polymer mixtures*
11:50 – 12:10	**Paulina Szymoniak** BAM	Rigid *amorphous phase in Nanocomposites as Revealed by Relaxation Spectroscopy*
12:10 – 12:40	**Shiwang Cheng** Michigan State University	Analyzing the interfacial layer properties in nanocomposites by broadband dielectric spectroscopy

12:40 –14:10 **LUNCH**

Water and Bio 1

14:10 – 14:40	**Yuri Feldman** The Hebrew University of Jerusalem	*Water and its dielectric signature. New markers for biosensing*
14:40 – 15:00	**Thomas Blochowicz** TU Darmstadt	*Depolarized Dynamic Light Scattering and Dielectric Spectroscopy: Two Perspectives on the Debye-Relaxation in Monohydroxy Alcohols*
15:00 – 15:20	**Sławomir Kołodziej** University of Silesia	*Advantages of examining alcohols containing a phenyl group by the means of Broadband Dielectric Spectroscopy*
15:20 – 15:40	**Sebastian Pawlus** University of Silesia	*How various strength of the H-bonds is reflected by relaxation dynamics of associated liquids*

18:30 –19:30 **CONCERT**

20:00 –23:00 **10TH ANNIVERSARY PARTY**
including the 2018 DEBYE PRIZE Awarding Ceremony

Friday 31st August

Water and Bio 2

08:50 – 09:20	**Apostolos Kyrtsis** National Technical University of Athens	*Dynamics of hydration water in gelatin – hyaluronic acid hydrogels*
09:20 – 09:50	**Simone Capaccioli** Università di Pisa	*Dynamics of freeze-dried solvated proteins revealed by broadband dielectric spectroscopy*
09:50 –10:10	**Kamil Kaminski** University of Silesia	*Application of BDS to follow cis to trans isomerism in photoswitchable molecule Aberchrome 670*
10:10 –10:30	**Pedro Santos Prezas** University of Aveiro	*BDS and TSDC measurements on $Ca_{10}(PO_4)_6(OH)_2$, β–$Ca_3(PO_4)_2$ and biphasic bioceramics*

10:30 –11:00 COFFEE BREAK

Charge transport 1

11:00 – 11:30	**Zaneta Wojnarowska** University of Silesia	*Scaling behavior of electric conductivity and structural relaxation in supercooled ionic liquids*
11:30 – 11:50	**Bernard Mostert** Swansea University	*On protonic and electronic charge transport in eumelanin*
11:50 –12:10	**Arthur Markus Anton** University of Leipzig	*Charge transport and glassy dynamics in polymeric Ionic Liquids as reflected by its Inter- and Intramolecular Interactions*
12:10 –12:30	**Tyler Cosby** University of Tennessee	*Impact of mesoscale organization on charge Transport and Dynamics in Ionic Liquids*
12:30 –13:00	**Joshua Sangoro** University of Tennessee	*Dynamics and ion transport in mesoscopic Structured Liquids*

13:00 –14:30 LUNCH

14:30 –15:00	**Anatoli Serghei** University of Leipzig	*Coupled electrical/mechanical investigation on elastomeric composite materials*
15:00 –15:20	**Asma Triki** University of Sfax	*Dielectric properties of jute fibers reinforced Poly(lactic acid) / Poly(butylene succinate) blend*
15:20 –15:40	**Avanish Bharati** KULeuven	*BDS as a novel tool to probe phase separation in compatibilized polymer blends*

15:40 – Closing Remarks