



Sunday 26th August

14:00 – 19:00

REGISTRATION

Tutorial Lectures

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

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
and Technology

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

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
BAM/BASF

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

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Nanoconfinement 2

14:30 – 15:00

Angel Alegría
Universidad del Pais Vasco

Size effects on the segmental dynamics of sub 10-nm segregated polydimethylsiloxane

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

Scaling of alpha and beta

08:30 – 09:00	Ryusuke Nozaki Hokkaido University	<i>Microscopic nature of β process of sugar alcohols</i>
09:00 – 09:30	Kia Ngai IPCF-CNR Pisa	<i>The JG β-relaxation / primitive relaxation never fail to show up in binary mixtures and polymer blends</i>
09:30 – 09:50	Federico Caporaletti Università di Trento	<i>Nuclear resonant scattering as microscopic probe for the Johari-Goldstein relaxation process in supercooled liquids</i>
09:50 – 10:10	Shimon Lerner JCT Lev Academic Center	<i>New link between structural and Johari-Goldstein Relaxation Parameters in Glass Formers</i>
10:10 – 10:30	Pierre-Michel Dejaridin Université de Perpignan	<i>Linear and non-linear orientational correlation factors from the rotational Dean-Kawasaki equation</i>

10:30 – 11:00

COFFEE BREAK

11:00 – 11:30	Alessio Zaccone University of Cambridge	<i>Microscopic modelling of dielectric α and β relaxation in glasses and orientationally disorder crystals based on Generalized Langevin Equations</i>
11:30 – 12:00	Alexei Sokolov University of Tennessee	<i>Qualitative change in temperature dependence of Structural Relaxation: Diverge or not Diverge</i>

Soft Matter 1

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

13:00 – 14:30

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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 LiCuVO₄

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 – 17:00

COFFEE BREAK / POSTER SESSION

Soft Matter 3

17:00 – 17:20

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)

17:20 – 17:40

Josep Tamarit
Barcelona Research Center in
Multiscale Science and
Engineering

Dynamics in weakly disordered solids

17:40 – 18:10

Joshua Sangoro
University of Tennessee

Dynamics and ion transport in mesoscopic Structured Liquids

Non-linear

18:10 – 18:40

Catalin Gainaru
TU Dortmund

Nonlinear dielectric response beyond structural relaxation in glass-forming materials

18:40 – 19:00

François Ladieu
Université Paris-Saclay

Third and fifth harmonic responses in liquids

19:00 – 19:30

Roland Böhmer
TU Dortmund

Nonlinear electrical and rheological responses of glass formers

20:00 –

IDS Board Meeting

Thursday 30th August

Polymer Dynamics 1

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

10:30 – 11:00

COFFEE BREAK

Polymer Dynamics 2

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

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

10:30 – 11:00

COFFEE BREAK

Charge transport 1

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

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