



10th Conference on Broadband Dielectric Spectroscopy and its Applications

26th – 31st August 2018

Brussels

The Laboratory of
Polymer and Soft Matter Dynamics
of the Université libre de Bruxelles (ULB)
is proud to invite you to

BDS2018

ORGANIZATION

chairperson

Simone Napolitano

local committee

G. Bruylants, T. Doneux,
P. Gaspard, Y. Geerts, T. Gilbert,
P. Losada-Pérez, B. Moggetti,
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BDS2018

SCOPE

Broadband dielectric spectroscopy (BDS) is a powerful experimental technique permitting to investigate the molecular dynamics of polar (and nonpolar) materials over a wide frequency range covering up to 16 decades, at different temperatures and pressures. BDS finds an incredibly large number of applications in different fields of science and technology. The technique has, in fact, been successfully employed in studies on molecular dynamics of liquids, liquid crystals, glasses, polymers and other disordered systems; charge transport in ionic glasses and liquids, semiconductors, organic crystals, ceramics, polymers; interfacial phenomena and confinement effects; non-linear electrical effects. BDS is also a very useful tool to monitor chemical reactions and phase transitions, e.g. crystallization, irreversible adsorption, tautomerization, etc.

Considering the multidisciplinary approach and the broad set of applications of the technique, this meeting is open also to researchers outside of the dielectric community whose research could start new synergies at both experimental and theoretical level.

Following the structure of the previous meetings of the International Dielectric Society, **BDS2018** will provide a platform to discuss the exciting developments of Broadband dielectric spectroscopy at both academic and industrial level.

The following topics will be addressed in devoted sessions:

- Polymer Dynamics
- Soft Matter Dynamics and Phase Transitions in Amorphous, Partially Ordered and Ordered Systems (Liquid and Plastic Crystals, Ferroelectrics, Ceramics, Pharmaceuticals, etc.)
- Glassy Dynamics and its Scaling under Different Variables (Pressure, Temperature, Electric Fields, etc.)
- Investigation of Confinement Effects
- Non-Linear Electrical Effects
- Terahertz Spectroscopy and Local Dielectric Spectroscopy
- Industrial applications
- Dielectric Spectroscopy Spatially Resolved at Micro- and Nanoscale
- Water and Hydrogen Bonded Systems, BDS to Life Science
- Charge Transport and Relaxation & Interfacial Phenomena



IMPORTANT DATES

Start of Registration and Abstract Submission
 Deadline for Oral presentation Abstract Submission
 Deadline for Poster Abstract Submission
 Decision on abstracts
 Early Bird Registration
 End of Registration

27st February 2018
 30th April 2018
 31st July 2018
 31st May 2018
 15th May 2018
 31st July 2018

REGISTRATION FEES

	until 15th May	after 15th May
Full Delegate	€ 470	€ 550
Student	€ 270	€ 350
Accompanying Person	€ 110	€ 150

The Full Delegate and Student registration fees include: conference proceedings, lunches, coffee breaks, conference dinner and social events. The Accompanying Person registration fee includes the conference dinner and social events. Further information for registration and abstract submission is available at the conference website

VENUE

Considered by many as the Capital of Europe, Bruxelles/Brussel is a bilingual (FR & NL) city with a vibrant night life. Worldwide known for its chocolate and beer, Brussels offers a rich and variegated cultural offer with more than 100 museums. International music festivals, traditional parades, and many more events attract a large number of visitors to Brussels every year, especially in summer. Every two years around mid-August, the Grand' Place « *la plus belle place du monde* » is covered by a flowered carpet of more than 600,000 begonias. The first weekend of September (the one after our conference!) is traditionally dedicated to the Festival of the Beer and the Belgian Comids parade.

BDS2018 will be held in the Salle Dupréel (rue Jeanne 44, 1050) of the Campus du Solbosch, the historical site of the Université libre de Bruxelles (ULB), in the municipality of Ixelles.



INVITED SPEAKERS

Karolina Adrjanowicz (Poland)	Koji Fukao (Japan)	Ivan Popov (Israel)
Angel Alegría (Spain)	Catalin Gainauru (Germany)	Ranko Richert (USA)
Paul Ben Ishai (Israel)	Boris Gorshunov (Russia)	Mike Roland (USA)
Roland Böhmer (Germany)	Friedrich Kremer (Germany)	Alejandro Sanz (Denmark)
Daniele Cangialosi (Spain)	Apostolos Kyritsis (Greece)	Joshua Sangoro (USA)
Simone Capaccioli (Italy)	Jane Lipson (USA)	Andreas Schönhals (Germany)
Silvina Cerveny (Spain)	Kia Ngai (Italy)	Anatoli Serghei (France)
Shiwang Cheng (USA)	Kristine Niss (Denmark)	Alexei Sokolov (USA)
Madalena Dionisio (Portugal)	Aurora Nogales (Spain)	Żaneta Wojnarowska (Poland)
Yuri Feldman (Israel)	Ryusuke Nozaki (Japan)	Michael Wübbenhorst (Belgium)
George Floudas (Greece)	Marian Paluch (Poland)	Alessio Zaccone (UK)

PRELIMINARY CONFERENCE PROGRAM

A series of four tutorial classes, by leading experts of dielectric spectroscopy, will be given on Sunday (26/08) afternoon. The lessons will be followed by a welcome drink. The conference program will start on Monday morning and continue till Friday afternoon. Daily afternoon sessions dedicated to posters are also planned. Social events concert and party to celebrate together the 10th edition of BDS conferences, will take place in the evening of Thursday 30th August.

DEBYE PRIZE

The Peter Debye Prize for Young Investigators for Excellence in Dielectric Research is established to encourage and support young scientists to continue research in Dielectric Spectroscopy and its applications. To be eligible, The nominee should be under the age of 36 years, be inscribed to the conference and attend the meeting in Brussels. The nomination, together with the candidate's Curriculum Vitae, a listing of the candidate's publications and one copy of each of the papers under consideration should be sent by email to prof Michael Wübbenhorst, the Award Committee chairperson.

DEADLINE 26th May 201

For more detailed information: <http://bds2018.ulb.be/debye-prize>