

Language

Official language of the Conference is English.

Location and Venue

The Conference will be held in the city of Potsdam located in the vicinity of the German capital – Berlin. Potsdam - once a city of kings and royal residences, is today the capital of Brandenburg and at the same time a European city of culture. The heart of Prussia is famous for its palaces and parks, its gardens and villas, and its numerous museums.



In the past basically a military and garrison town, it is today a city of films and media as well as a university city. And it is traditionally also a city of learning and research, whose worldwide reputation substantially rests upon work in the natural sciences particularly in the fields of Life Sciences, Astro- and Gravitation Physics and Earth Sciences.



The nineteenth-century imperial horse stables of the New Palace today house the Auditorium Maximum of the University of Potsdam as well as its Mathematics Institute and several student services. ICSD 2010 will take place in this historical building.

Key Dates

Deadline for the submission of Abstracts

30th October 2009

Website for abstract submission

<http://www.icsd2010.com>

Notification of Authors

15th December 2009

Manuscript Submission until

1st March 2010

Conference Dates

4th-9th July 2010

Conference Fees

	Before 1 st May 2010	May 2010 and Later
Regular Attendee	€430	€490
IEEE Members	€370	€430
Reduced Rate *	€260	€320

* Reduced rate applies to research students, IEEE life members, retired persons not gainfully employed and persons currently unemployed.

Contact e-mail address:

info@icsd2010.com

Conference organised by:



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10th IEEE International Conference on Solid Dielectrics (ICSD)

Potsdam, Germany

July 4th -9th, 2010

First Circular
Call for Abstracts

<http://www.icsd2010.com>

Background and Aims

The International Conference on Solid Dielectrics is a triennial conference that has been held around Europe since its inauguration in Toulouse, France in 1983 as International Conference on Conduction and Breakdown in Solid Dielectrics.

The following eight conferences took place in Erlangen, Germany (1986), Trondheim, Norway (1989), Sestri Levante, Italy (1992), Leicester, United Kingdom (1995), Västerås, Sweden (1998), Eindhoven, Netherlands (2001), Toulouse, France (2004), and Winchester, United Kingdom (2007). Since the beginning of this century, the conferences are being held under the new name of International Conference on Solid Dielectrics. The tenth conference in the series (ICSD 2010) will take place in Potsdam, Germany in July 2010.

ICSD provides an interdisciplinary forum for the exchange and discussion of ideas, research results and practical phenomena related to solid dielectrics exposed to electric fields and other stresses.

The conference is an opportunity for physicists, chemists, material scientists and electrical engineers who are engaged in research, experimentation and practice in this field to come together, review collective progress, consider the latest developments and discuss the future challenges in the area of solid dielectrics.

You are very welcome to attend and to contribute to the 10th International Conference on Solid Dielectrics to be held from Sunday, July 4th, until Friday, July 9th at the University of Potsdam in Germany. Potsdam is the capital of Brandenburg, one of Germany's 16 federal states. Potsdam is near to Berlin and is well known for its rich historical heritage and its magnificent parks and gardens. Its university features a large science faculty that is closely connected to a range of renowned research institutes in Potsdam such as the Max-Planck Institutes of Colloids and Interfaces, for Gravitational Physics, and of Molecular Plant Physiology, the Fraunhofer Institutes for Applied Polymer Research and for Biomedical Engineering, the Helmholtz Centre Potsdam (German Research Centre for Geosciences, GFZ), and to several Leibniz institutes, as well as to the universities in the region, prestigious research centres and independent scientific institutes in Berlin and Brandenburg.

First Call for Papers

Authors are now invited to prepare abstracts for papers to be considered for inclusion in the conference programme. Please submit abstracts of no more than 500 words electronically using the online submission system at www.icsd2010.com The deadline for submission is **30 October 2009**.

With reference to solid dielectrics, papers should be relevant to one or more of the following topics:

- Conduction, polarization and breakdown
- Space charge and related effects
- Ageing, degradation and failure
- Materials and insulation systems
- Theories, methods and models
- Diagnostics and experiments
- Multifunctional materials
- New materials for active and passive components
- Treeing
- Composite insulation systems
- Nanodielectrics
- Microelectronics and photonics
- Biodielectrics

Workshop

"Soft dielectrics as actuators - enabling applications:"

Workshop, Sunday 4th July, 2010, 10:00 – 17:00

Separate registration will be required

The workshop will:

- discuss how to obtain high actuation strain with high efficiency, low voltage, practical reaction time and precise control.

- address how to combine low operating voltage, high breakdown strength, high dielectric permittivity, very low elastic modulus, good compliant electrodes, and excellent mechanical and electrical durability in one and the same soft dielectric material system.

- be structured as a full day activity, with a morning and an afternoon session.

This workshop will bring together several leaders in the research in dielectric elastomer actuators, bringing together researchers and potential users. Several key lectures will be given, followed by a few contributed talks. Each session will lead to a discussion, open to questions and contributions from all.

Committees

International Advisory Committee (as of 2007)

- Chair: John Fothergill (UK)
- Alexander Bulinski (Canada)
- Uno Gäfvert (Sweden)
- Erling Ildstad (Norway)
- Christian Laurent (France)
- Paul Lewin (UK)
- John Lewis (UK)
- Teruyoshi Mizutani (Japan)
- Gian Carlo Montanari (Italy)
- Yoshimichi Ohki (Japan)
- Rainer Patsch (Germany)
- Robert Ross (Netherlands)
- Toshikatsu Tanaka (Japan)
- John Tanaka (USA)
- Yasuhiro Tanaka (Japan)

Local Conference Committee

- General Chair Reimund Gerhard
- Treasurer Andreas Bohlen
- Publications Xunlin Qiu
- Workshops Guggi Kofod
- Publicity/Web Site Dmitry Rychkov
- Local Organisation and Public Relations Wolfgang Künstler