

It is our pleasure to invite you to the 1st **International Symposium on POLYmer modification With High Energy Electrons – POLYWHEEL 2010**. This symposium takes place due to the tradition of successful national meetings in Dresden since 2002. The national meetings were attended by researchers from industry as well as universities and research institutions not only from Germany, but also from Europe.

The 1st symposium **POLYWHEEL 2010** will be organised by the Leibniz Institute of Polymer Research Dresden and the Technische Universität Dresden. The conference will be held at the Technische Universität Dresden which is located close to the centre of the city.

This symposium is intended to be the meeting place for industrial experts and academic researchers from all over the world in order to bring together application oriented research with industrial requirements in polymer modification via high energy electrons.

Major topics of the meeting will include

- compact high power electron accelerators
- electron beam technology for polymer modification
- polymers and biomaterials
- polymer blends
- polymer composites

Most important aspects and recent developments of blends, composites, and biomaterials using high energy electrons will be covered. This includes both application related research and application related product and technology development.

The conference will take place on the campus of the Technische Universität Dresden (Dülfersaal, Mommsenstrasse 13 - 15, 01069 Dresden). We hope that we can welcome you in the pleasant city of Dresden and that you will actively participate in **POLYWHEEL 2010**.

Chairmen

Gert Heinrich, Technische Universität Dresden, Germany
Uwe Gohs, IPF Dresden, Germany

Organising committee

Sina Burkert, Dresden, Germany
Anne Hofmann, Dresden, Germany
Andreas Leuteritz, Dresden, Germany
Michael Spaethe, Dresden, Germany
Udo Wagenknecht, Dresden, Germany
Sven Wießner, Dresden, Germany
Kerstin Wustrack, Dresden, Germany
Carsten Zschech, Dresden, Germany

Scientific committee

Giovanini Camino, Torino, Italy
Philippe Cassagnau, Lyon, France
Walter W. Focke, Pretoria, South Africa
Wolfgang Kern, Leoben, Austria
Kinsuk Naskar, Kharagpur, India
Miroslav Slouf, Prague, Czech Republic
Michael Stephan, Dresden, Germany
Qi Wang, Sichuan, China

Programme

The programme will consist of invited lectures, contributed lectures and posters. All lectures will be presented in one session. Special emphasis will be put on poster sessions.

The symposium will start in the afternoon of Wednesday, November 24, with registration and welcome mixer. The scientific programme will be scheduled from Thursday morning to Friday afternoon.

Call for Papers

You are invited to submit abstracts of contributed talks and papers (one page, suitable for the book of abstracts) by July 1, 2010. Information on acceptance of contributed talks and posters will be sent by August 1, 2010. On-line submission and registration will be open in May, 2010 on the conference web page www.ipfdd.de/polywheel2010

Important Dates

Opening of on-line submission: May, 2010
Deadline for abstract submission: **July 1, 2010**
Notification on acceptance: August 1, 2010

Registration

The registration fee amounts to EUR 190 (including conference materials, lunches, coffee breaks, social events, and VAT). Reduced fees will be offered for students.

Social programme

The social programme will include a welcome mixer on Wednesday evening, a conference dinner on Thursday, and a sightseeing programme.

Dresden

You should not leave out the opportunity to come to Dresden on the occasion of the 1st International Symposium **POLYWHEEL 2010**! The city of Dresden is well-known as tourist magnet. Visitors are impressed by the baroque architecture as well as by the harmony between historic buildings, the river Elbe, and its picturesque surroundings. The world of inspired artists and architects endowed the city with edifices of rare splendour and great traditions in the field of music, theatre, arts, and sciences have created a unique atmosphere.

Travel

Dresden is located in the East of Germany close to Czech and Polish borders as well as about 160 km in south direction of Berlin. An international airport links Dresden by direct connections with most German and many European cities. Close to the conference venue and recommended hotels, there is the main railway station connecting the railway lines Hamburg/Berlin with Prague/Vienna/Budapest and Frankfurt am Main/Leipzig.

Accommodation

Further details will be given on the website. Dresden has accommodation at all price levels and comfort ranging from student dormitories to the exclusive hotels in castle Eckstein and Taschenberg Palais. Bookings will have to be made by the participants themselves.

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Further information: www.ipfdd.de/polywheel2010

City map



POLYWHEEL 2010 will be held at Dülfersaal of Technische Universität Dresden.

electron energy: 0.3 ... 10 MeV

cross-linking

- cable- and wire insulations
- drinking water, floor heating, and sanitary pipes
- heat shrinking products
 - foams
 - form parts

polymer degradation

- PTFE-powder for low friction and high wear resistance
- self nucleation of polypropylene

Electron beam curing

- fibre reinforced polymers

First announcement

1st International Symposium on POLYmer modification With High Energy ELections

POLYWHEEL 2010

**Dresden, Germany
November 24 to 26, 2010**

