

It is our pleasure to invite you to the 1st **International Symposium on POLYmer modification With High Energy Electrons – POLYWHEEL 2010**. Oral and poster presentations from 17 countries will give latest information on developments in electron beam technology for polymer modification as well as recent results in modification of polymers, polymer blends and composites using high energy electrons. The programme of **POLYWHEEL 2010 includes no parallel sessions**. Thus, all participants will have the possibility to get all information presented.

Opening Ceremony

Thursday, November 25th, 09:00

Plenary Lectures

Thursday, November 25th, 09:15 - 10:45

- L1 *General and high performance cable insulation via EB cross-linking* (S. E. Lapp, Lapp Holding AG, Germany)
- L2 *Dose measurements for validation and routine process control at electron accelerators* (A. Miller, Risø High Dose Reference Laboratory, Denmark)
- L3 *Control of the through-thickness degradation profile of bio-resorbable polymers by means of electron beam irradiation* (F. Buchanan, Queen's University Belfast, UK)

Electron beam technology

Thursday, November 25th, 11:30 - 12:30

- L1 *Design and properties of compact low energy electron emitters* (W. Haag, Comet AG, Switzerland)
- L2 *Treatment of polymers with ionizing radiation* (F. Gratzl, Mediscan GmbH & CoKG, Austria)
- L3 *Technological aspects of electron induced reactive processing of polymers* (S. Wießner, IPF Dresden, Germany)

Polymers and biopolymers

Thursday, November 25th, 14:00 - 15:20

- L4 *Effects of irradiation by means of electron beam on some properties of polylactide* (M. Żenkiewicz, Kazimierz Wielki University, Poland)

- L5 *Industrial applications of polymer modifications with high energy EB* (S. Rouif, IONISOS, France)
- L6 *Study on electrical property relaxations of 10 MeV electron beam irradiated HDPE* (F. Ziaie, Nuclear Science & Technology Research Institute, Iran)
- L7 *Fractionation of high-dose electron beam irradiation of BPTB grafts provides significantly improved viscoelastic and structural properties compared to standard gamma irradiation* (A. Hoburg, Charité, Germany)

Poster session

Thursday, November 25th, 16:00 - 17:30

Polymer blends

Friday, November 26th, 09:00 - 10:00

- L8 *Radiation induced vulcanization of SBR blends with radiation functionally modified silica and mesomorphous silica* (A. Faucitano, University of Pavia, Italy)
- L9 *PP-EPDM thermoplastic vulcanisates via electron induced reactive processing* (K. Naskar, Indian Institute of Technology, India)
- L10 *Toughness modification of electron beam cured epoxy using a silver complex as initiator* (F. Wolff Fabris, University of Bayreuth, Germany)

Polymer composites

Friday, November 26th, 10:40 - 12:00

- L11 *Cross-linked clean flame retardant cable insulation compositions for enhancing mechanical properties and flame retardancy* (A. A. Basfar, Radiation Technology Center, Saudi Arabia)
- L12 *In-situ modification of unmodified nanoclays in polypropylene via electron induced reactive processing* (V. Thakur, IPF Dresden, Germany)
- L13 *Structure and properties relationship of PLA/nano-clay nanocomposite via electron-beam irradiation modification* (D.-Y. Wang, Sichuan University, China)
- L14 *The influence of electron beam irradiation on the mechanical performance of organic biomass / layered organo nanoclay filled XNBR composites* (A. Mousa, Al Balqa Applied University, Jordan)

Closing Ceremony

Friday, November 26th, 12:00

Welcome Mixer: Wednesday, November 24th, 18:00 (Dülfersaal, included in conference fee)

Conference Dinner: Thursday, November 25th, 19:00 (Festmauern, included in conference fee)

Accompanying persons programme

Overall programme: Welcome Mixer, Porcelain Manufacture Meissen, Conference Dinner, Sightseeing Tour, the Turkish Chamber, and New Masters Gallery
Special price/person: 150 EUR

If you book individually:

Welcome Mixer: Wednesday, November 24th, 18:00 - 20:00
Price/person: 15 EUR

Porcelain Manufacture Meissen: Thursday, November 25th, 09:00 - 14:00 (guided tour through the anniversary exhibitions and a set three-course menu served on Meissen porcelain; *minimum attendance: 5 persons (maximum 30 persons)*)
Price/person: 54 EUR (incl. transport costs)

Conference Dinner: Thursday, November 25th, 19:00 - 22:30
Price/person: 40 EUR

Sightseeing Tour: Friday, November 26th, 9:30 - 11:00
Price/Person: 1-day ticket: 22 EUR

The Turkish Chamber: Friday, November 26th, 12:00 - 13:00 (guided tour; *minimum attendance: 5 persons*)
Price/person: 21 EUR

Post-conference museum tour for participants and accompanying persons

New Masters Gallery, Albertinum - Friday, November 26th, 14:00 - 16:00 (guided tour; *minimum attendance: 15 persons*)
Price/Person: 15 EUR

All prices include 19 % VAT. Detailed information at: www.ipfdd.de/polywheel2010

If you are interested in our offer, please register at our electronic system **by November 1st**:
www.ipfdd.de/polywheel2010

Registration

Before 15th October, the registration fee amounts to EUR 190 (including conference materials, lunches, coffee breaks, social events, and VAT). Reduced fees (EUR 95) are offered for students. After 15th October, the registration fee and the reduced fee for students amount to EUR 220 and EUR 105, respectively. Registration can be done at:

www.ipfdd.de/polywheel2010

The registration for POLYWHEEL 2010 takes place at Dülfersaal of Technische Universität Dresden (Dülferstraße 1, 01069 Dresden). It will start on Wednesday, November 24th, 17:00 and will continue on Thursday, November 25th, 08:00.

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.

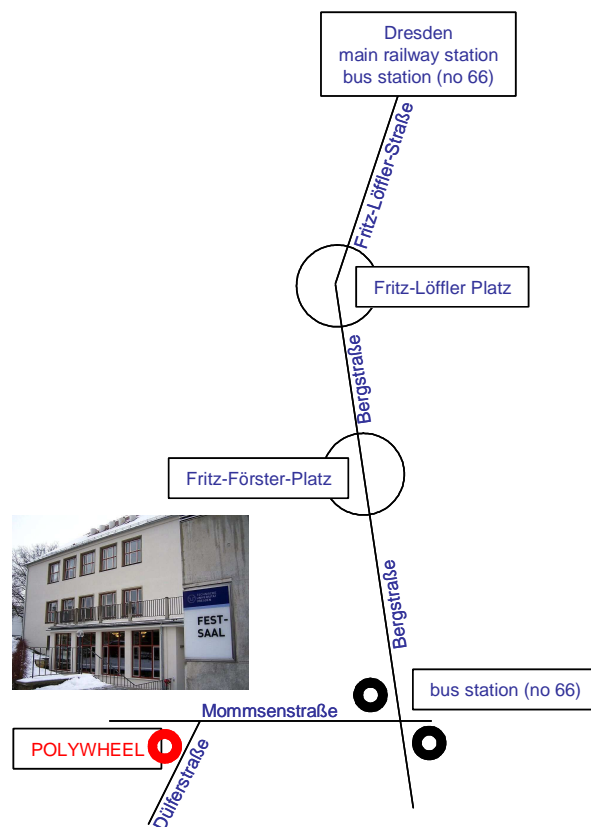
Accommodation

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

www.ipfdd.de/polywheel2010

Location

POLYWHEEL 2010 will be held at Dülfersaal of Technische Universität Dresden (Dülferstraße 1, 01069 Dresden).



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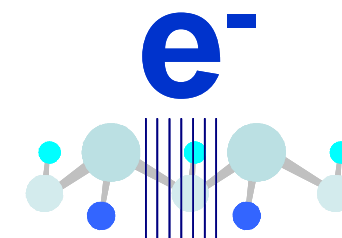
Further information: www.ipfdd.de/polywheel2010

Second announcement

POLYWHEEL 2010

24 – 26th November 2010
Dresden, Germany

www.ipfdd.de/polywheel2010



POLYWHEEL 2010

symposium on polymer modification
with high energy electrons
Dresden 2010