

Organization

Location

Fraunhofer IWS Dresden
01277 Dresden, Winterbergstr. 28
Phone +49 351 83391-0
www.iws.fraunhofer.de

Workshop language: English

Workshop fee: 180 €
(payable on receipt of the invoice)

The fee includes a conference binder and refreshments.

Registration deadline: April 26, 2010

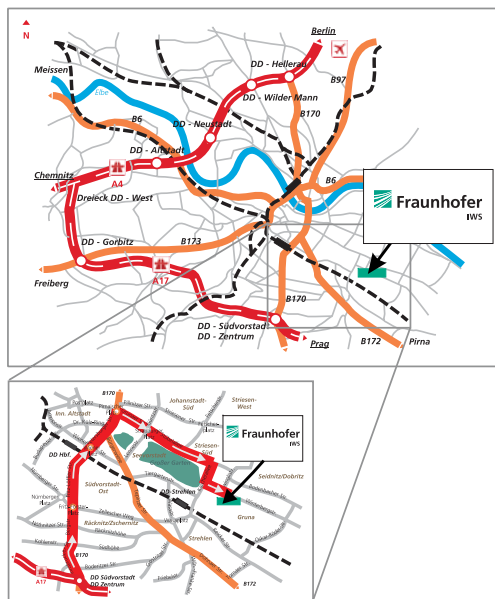
Cancellation of registration is possible by April 30, 2010.
After this date the full costs will be charged.

Contact

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Fraunhofer Institute for Material and Beam Technology IWS
Winterbergstr. 28
01277 Dresden, Germany

Further information (online registration / accomodation)
is available at www.iws.fraunhofer.de.



Directions

by car (from Autobahn / Highway)

- take Autobahn A4 or A13 to inter section Dresden-West, follow new Autobahn A17 to exit Südvorstadt / Zentrum
- follow road B170 in direction Stadtzentrum (city center) to Pirnaischer Platz (about 6 km)
- at Pirnaischer Platz turn right towards "Gruna / VWManufaktur"
- continue straight until the end of the "Großer Garten" (Great Garden) and then turn right onto Karcherallee
- at the next traffic light turn left onto Winterbergstraße and continue straight until IWS

by railway and tram

- from Dresden main railway station line #10 to Straßburger Platz
- change to line #1 or #2 heading out from the city (towards Kleinzschochwitz or Prohlis); exit at Zwinglistraße stop
- 10 minutes to walk from there (in the direction of Grunaer Weg) or one station by bus # 61 (direction Löbtau)

by air plane

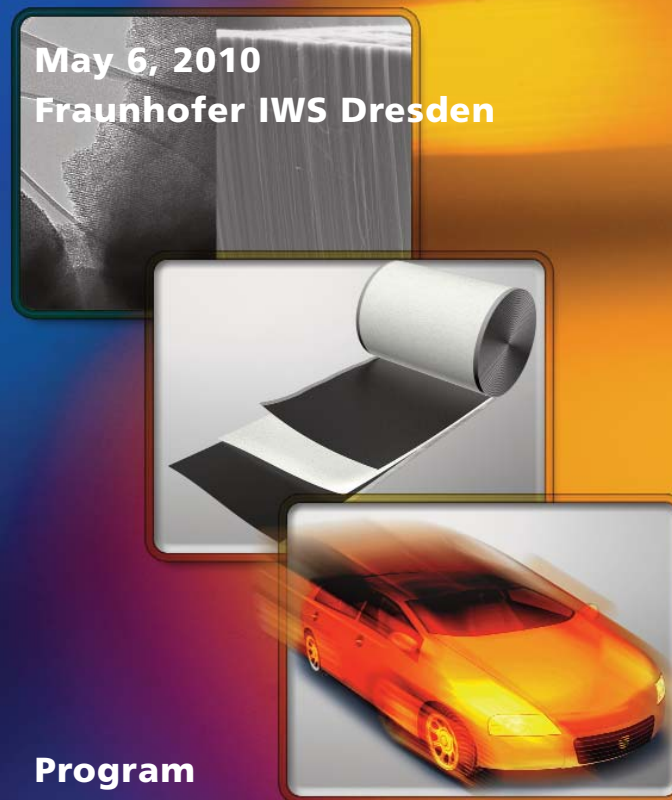
- from Airport Dresden-Klotzsche by taxi to Winterbergstraße 28 (distance is approximately 7 miles or 10 km)
- or with public transportation (shuttle train) to the main railway station (Hauptbahnhof), and continue by tram

WORKSHOP

»SUPERCAPACITORS: MATERIALS, PROCESSES AND APPLICATIONS«

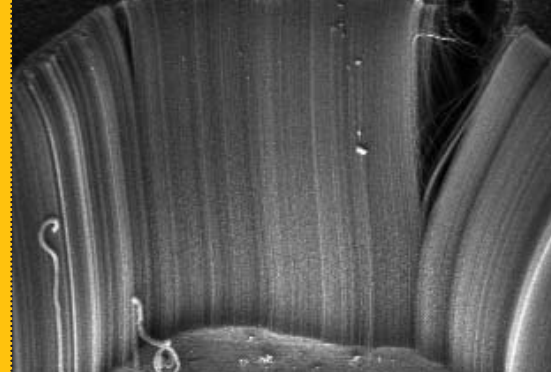
May 6, 2010

Fraunhofer IWS Dresden



Program

Program



Ladies and Gentlemen,

High performance energy storage devices are required in many emerging applications like regenerative energies and electromobility.

Supercapacitors provide outstanding storage properties in terms of power density and cycle stability. However, for a broad application further improvement of performance and costs is required.

This workshop will bring together experts from industry and research to present and discuss the most recent developments of new materials, processes and applications of supercapacitors.

I am looking forward to welcoming you in Dresden.

Stefan Kaskel
Head of Department CVD Thin Film Technology
Fraunhofer IWS Dresden

09:00 Welcome and introduction
Eckhard Beyer (Director Fraunhofer IWS),
Holger Althues (Fraunhofer IWS)

Session I: Materials

09:15 Design of carbon materials for supercapacitor electrodes
Yury Gogotsi (Drexel University, PA, USA)

10:00 Ordered, mesoporous carbide derived carbons for supercapacitors
Marcus Rose (TU Dresden)

10:30 Ionic liquids as electrolytes in supercapacitors
Uwe Vagt (BASF)

11:00 Coffee break

Session II: Production technologies

11:30 Upscaling new battery technologies from laboratory to fabrication equipment
Christoph Dittrich (Coatema GmbH)

12:00 Synthesis of carbon nanotube forests on metallic substrates for supercap electrodes
Susanne Dörfler (Fraunhofer IWS)

12:30 Lunch break

Session III: Applications

13:30 Requirements and properties of supercapacitors from a manufacturer's viewpoint
Hans-Jörg Fischle (WilhelmWestermann GmbH)

14:00 E-mobility demonstrator autotram
Ulrich Potthoff (Fraunhofer IVI)

14:30 Recent state of the art of supercapacitors for high power applications
Gianni Sartorelli (Maxwell Technologies)

15:00 Concluding remarks
Holger Althues (Fraunhofer IWS)

15:30 IWS lab visit (optional / 1h)