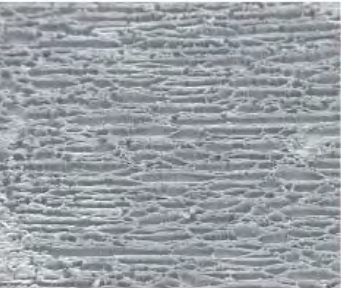


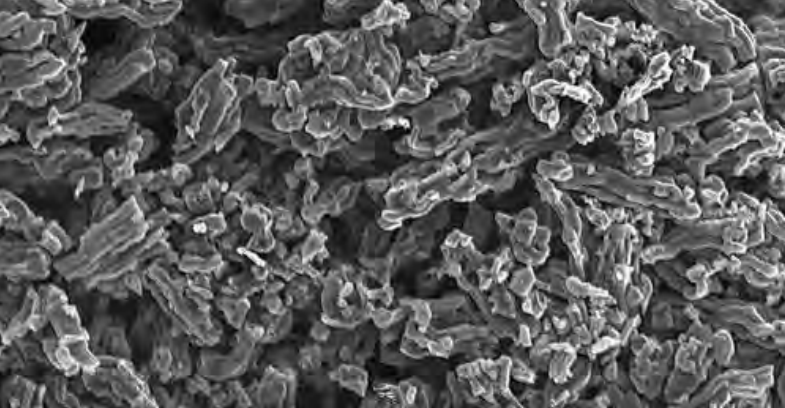
FRAUNHOFER-INSTITUT FÜR
WERKSTOFF- UND STRAHLTECHNIK IWS

**WORKSHOP
"CARBON MATERIALS FOR
ELECTRODES"**



**November 3,
2011
Fraunhofer IWS
Dresden**

PROGRAM



Ladies and Gentlemen,

Carbon based electrodes play a key role in energy storage and conversion systems. They find application in batteries, supercaps and fuel cells as well as in electrolysis and corrosion protection.

Diamond, graphite and carbon nanotube based electrodes offer fascinating properties ranging from highly conductive towards semi-conducting and isolating properties. The latter make them also attractive for electronic applications such as high-power electronics.

The workshop brings together experts from industry and research to present and discuss the most recent developments of new materials, processes and applications of carbon based electrodes.

We are looking forward to welcoming you in Dresden.

Eckhard Beyer
Executive Director

Stefan Kaskel
Head of Department
Chemical Surface and
Reaction Technology
Fraunhofer IWS Dresden

PROGRAM

08:30 Registration

Session I (09:00 – 10:45)

Chair: Eckhard Beyer, Fraunhofer IWS

09:00 Welcome and opening

Eckhard Beyer

Stefan Kaskel

Fraunhofer IWS, TU Dresden

09:15 Diamond-coated electrodes for electrochemical applications

Thorsten Matthée (CONDIAS GmbH)

09:45 Boron-doped diamond materials for electrochemical applications

Michael Becker (Fraunhofer USA, Inc.)

10:15 Graphite like carbon – a multi-purpose coating for electrical applications

Thomas Stucky (Fraunhofer IWS, project group Dortmund)

10:45 *Coffee break*

Session II (11:00 – 13:10)


Chair: Stefan Kaskel, Fraunhofer IWS

11:00 Nanostructured carbon for energy storage

Gleb Yushin (Georgia Institute of Technology)

11:50 Expanded graphite: Properties & battery applications

Rainer Schmitt (SGL Carbon GmbH)



12:20 Carbon nanotube electrodes for energy storage applications
Holger Althues (Fraunhofer IWS)

12:50 *Lunch break*

Session III (13:45 – 16:00)

Chair: Holger Althues, Fraunhofer IWS

13:45 Heraeus Porocarb – tunable porous carbons for energy applications
Christian Neumann (Heraeus)

14:15 Carbon-based core@shell materials for energy storage
Oliver Jost (Fraunhofer IWS)

14:45 Transparent, conducting carbon nanotube coatings
Jens Liebich (Fraunhofer IWS)

15:15 Microporous carbon electrodes for water desalination using capacitive deionization – Principle of the method, and current trends
Maarten Biesheuvel (Wageningen University Wetsus)

15:45 Concluding remarks
Stefan Kaskel (Fraunhofer IWS)

16:00 IWS lab visit (optional 1 h)

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: **October 15, 2011**

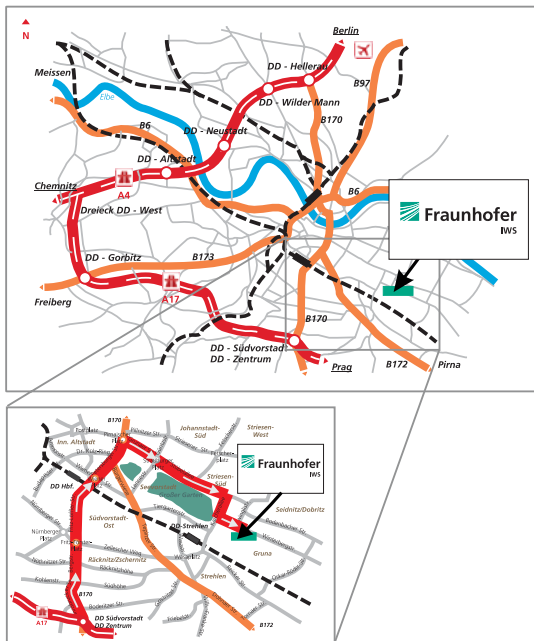
Cancellation of registration is possible by October 20, 2011.
After this date the full costs will be charged.

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 / VW-Manufaktur"
- 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 Kleinzschachwitz 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
»Carbon Materials for Electrodes«

November 03, 2011

Fraunhofer-Institut
für Werkstoff- und Strahltechnik IWS

Manja Schulze
Winterbergstr. 28
01277 Dresden
Germany



Please mail or fax
Fax: +49 351 83391-3300

**Workshop
»Carbon Materials for Electrodes«**

November 03, 2011

Fraunhofer IWS Dresden
Winterbergstr. 28, 01277 Dresden, Germany

Registration fee: **180 €** (payable on receipt of invoice)

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Registration (in block letters)

Last name

First name

Company / Institution

Billing address

Phone / Fax

E-mail

Place / Date

Signature

Firm stamp