

REGISTRATION
2nd Dresden Workshop
TIRES: FRICTION, WEAR AND DURABILITY
May 11, 2007

Please return by April 20, 2007.

.....
Name Surname Title

.....
Affiliation

.....
Address

.....
Phone Fax

.....
e-mail

Registration fee of

- EUR 100 (Academic) EUR 200 (Industry)
- will be transferred before the workshop
- paid in cash (no credits cards) on site
- paid upon receipt of an invoice

Proposals for discussion:

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Date Signature

Invitation to an interactive dialog board:

Participants are encouraged to submit (in the registration form) questions and/or discussion proposals of tire trends, requirements and perspectives. These suggestions will be discussed in the Panel Discussions or included in the speakers program.

PROF. DR. MICHAEL KALISKE

Full Professor for Structural Mechanics at the Technische Universität Dresden; until 2002: Head of Mechanics and Simulation Development, Continental AG, Hannover

DR. MANFRED KLÜPPEL

Head of Material Concepts and Modelling, Deutsches Institut für Kautschuktechnologie (DIK), Hannover

DR. WILL MARS

Currently employed in the Research Department at Cooper Tire & Rubber Company in Findlay, Ohio, USA. He is also an adjunct faculty member in the MIME department at the University of Toledo, where he has taught graduate courses in continuum mechanics and fracture mechanics.

PROF. DR. UDO NACKENHORST

Professor for Mechanics and Theory of Materials, University of Hannover, Department for Civil Engineering and Geodetic Science; until 2000: University of the Federal Armed Forces Hamburg

DR. B.N.J. PERSSON

Research Scientist, Forschungszentrum Jülich, Germany. During this time, on leave 1982-1983 at IBM Thomas J. Watson Research Center, Yorktown Heights, New York and during 1987-1988 at IBM Zürich Research Laboratory.

DR. J.-M. VACHERAND

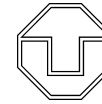
Working at the Michelin Technical Center in France as science adviser.

DR. STEPHAN WESTERMANN

Working at the Goodyear Technical Center in Luxembourg; until 1998: PhD in Physical Chemistry, Institute of Physical Chemistry, University of Münster

DR. BURKHARD WIES

Vice President of Tire Line Development Worldwide; until 2003: Head of Winter Tire Development, Continental AG



Technische Universität
Dresden
Institut für Statik und
Dynamik der Tragwerke



DFG research unit 597
"Fracture Mechanics
and Statistical
Mechanics of
Reinforced
Elastomeric Blends"



Leibniz-Institut für
Polymerforschung
Dresden e.V.



2nd Dresden Workshop

**TIRES:
FRICTION, WEAR AND
DURABILITY**

Dresden, May 11, 2007



Friction, wear and durability are essential features associated with performance and lifetime of tire structures. Though, these characteristics are of vital technical and economical relevance. The workshop addresses these topics from various perspectives by in-depth scientific presentations of leading experts in their fields from tire industry as well as from academic research. Latest findings will be discussed in this one-day event which aims to bring together experts with extensive experience in research, development, management and education in order to discuss innovative approaches and perspectives.

The workshop addresses members in research, development and managing positions of tire and automotive industries as well as manufacturers of corresponding tire raw materials. Additionally, the workshop is intended for members and graduate students of automotive and tire related technical departments of universities.

The workshop will be held in English according to the composition of the group of participants.

May 11, 2007

- 9:00-9:05 **Opening**
G. HEINRICH (Leibniz Institute of Polymer Research Dresden, Germany)
- 9:05-9:15 **Welcome Address**
PETER G. NOTHNAGEL (Saxon State Ministry of Economic Affairs and Labour, Germany)
- 9:15-10:00 **W. MARS** (Cooper Tyres, US), Fatigue Life Prediction Under Complex Loading
- 10:00-10:45 **S. WESTERMANN, F. PETRY** (Goodyear, Luxembourg), Tire Road Contact Mechanics
Coffee Break
- 11:00-11:45 **J.M. VACHERAND** (Michelin, France), An Integrodifferential Model for Small Strain Properties of Rubbers
- 11:45-12:30 **B. WIES** (Continental, Germany), Physics of Snow- and Ice Friction of Tires
Lunch
- 13:30-14:15 **B.N.J. PERSSON, O. ALBOHR** (FZ Jülich / Pirelli, Germany), Crack Propagation in Rubber and Tire Wear
- 14:15-15:00 **U. NACKENHORST** (U Hannover, Germany), Finite Element Modelling of Rolling Tires
Coffee Break
- 15:15-16:00 **M. KLÜPPEL** (DIK Hannover, Germany), Modelling of Rubber Friction and Tire Traction during ABS-Braking
- 16:00-16:45 **M. KALISKE** (TU Dresden, Germany), Fracture of Rubber Material and Durability of Tires
- 16:45-17:15 **Panel Discussion**

Organization

The workshop is organized by Leibniz-Institut für Polymerforschung Dresden e.V. (Prof. Dr. G. Heinrich) and Institut für Statik und Dynamik der Tragwerke (ISD) of the Technische Universität Dresden (Prof. Dr. M. Kaliske).

Venue

Leibniz-Institut für Polymerforschung Dresden e. V.
Conference hall, 2nd floor
Hohe Str. 6, 01069 Dresden

Contact

Prof. Dr. G. Heinrich gheinrich@ipfdd.de
Frau Gudrun Schwarz schwarz@ipfdd.de
Phone: +49 351 4658-360 Fax: +49 351 4658-214
http://www.ipfdd.de

Participation

The fee for participation in the workshop is
Academic EUR 100
Industry EUR 200

Please register by the enclosed form.

The fee can either be transferred to our account, paid upon receipt of an invoice or in cash on site before the beginning of the workshop (credit cards are not accepted).

Leibniz-Institut für Polymerforschung Dresden e. V.,
Account number: 0526287200
Bank: Dresdner Bank
BLZ/routing code: 850 800 00
SWIFT: DRESDEFF 850
IBAN: DE 0485080000 0526287200
Code word: TIRE Workshop / Name, First Name

Accommodation

If you need accommodation please contact

Achat Hotel - referring to the code 'IPF'
(within walking distance from IPF),
Budapester Str. 34,
01069 Dresden

Tel.: 0351/47380-0 Fax: 0351/47380-999
(Booking before April 20, 2007 recommended).

or book a room according to your wishes
e.g.

- Dresden Werbung und Tourismus GmbH
(www.dresden-tourist.de)

Fax: 0351 4658362

Leibniz-Institut für Polymerforschung
Dresden e. V.

2nd Dresden Tire Workshop

z. H. Frau Gudrun Schwarz

PSF 120 411

01005 Dresden