



Conference

Surfaces, Interfaces and Friction of Elastomers

February 20–21, 2019

Deutsches Institut für Kautschuktechnologie e. V.
Hannover

www.dikautschuk.de

Organizer

Deutsches Institut für Kautschuktechnologie e. V.
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Contact person

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Head of the seminar

Prof. Dr. Manfred Klüppel
Deutsches Institut für Kautschuktechnologie e. V.

Participation Fee

Members of DIK	€ 980
Nonmembers	€ 1,200
Three or more employees from same nonmember	€ 1,120
Students	€ 350

For booking until three months before the start of the conference you will receive a 10 % discount on the participation fee (not for students). The fee includes the conference proceedings, refreshment during the official coffee breaks, lunches and the social evening.

Target Group

The seminar focuses on experts as well as trainees in the fields of research, development and application of elastomer materials.

Registration

For your convenience, a course registration form is available at our website. The number of participants is limited, so it is advisable to register early. Registration deadline is two weeks before the start of the conference.

www.dikautschuk.de

Cancellation

Cancellations must be in writing. A fee of € 100 is withheld for cancellation up to fifteen days prior to the beginning of the seminar. In the event of cancellation less than fifteen days prior to the beginning of the seminar, the full participation fee is due. It is, however, possible to name a substitute participant.

Hotel Recommendations

Accommodation is not included in the fee. Please book your room yourself. On our homepage you will find a link which will forward you to the hotel reservation system (HRS).

Conference Venue

Deutsches Institut für Kautschuktechnologie e. V.
Eupener Str. 33, 30519 Hannover

Surfaces, Interfaces and Friction of Elastomers

The advanced education seminar “Surfaces, Interfaces and Friction of Elastomers” covers fundamentals as well as current trends in the preparation and application of surface-modified elastomer composites. Examples are used to identify the influence of functional surfaces on adhesion and friction phenomena, bonding processes, as well as mechanical and dielectric properties of elastomer nanocomposites.

A deeper understanding of interface properties is essential in achieving a targeted optimization of elastomer multiphase systems aimed at coming to terms with the ever more stringent requirements that complex structural elements must satisfy. Accordingly, an integral part of the seminar is the key role played by modern functionalization technology in shaping the performance characteristics of composite systems.

Contents

- **Surface characterization with REM/ED and IR/ATR**
- **Contact angle measurements and surface free energy**
- **Plasma modification of surfaces**
- **Surface modification for adhesive processes**
- **Tribology shaft seals**
- **Coatings as means of minimizing friction and wear**
- **Sliding lacquer used to minimize friction on glass and sheet metal**
- **AFM analyses and nanotribology**
- **Surface-modified nanofillers**
- **Modification of blacks**
- **Nanofillers in elastomers**
- **Silica-silane coupling**
- **Interphase dynamics and mechanical characteristics of filler-reinforced elastomers**

The organizer reserves the right to change the program.

