



Conference

# Rubber Friction and Tire Traction

November 4–5, 2019

Deutsches Institut für Kautschuktechnologie e. V.  
Hannover

[www.dikautschuk.de](http://www.dikautschuk.de)

## Organizer

Deutsches Institut für Kautschuktechnologie e. V.  
Prof. Dr. Ulrich Giese (Managing Director)  
Eupener Str. 33, 30519 Hannover, Germany

## 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

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](http://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

# Rubber Friction and Tire Traction

The experience of well-known specialists in this field will show new methods of solving material specific and constructive problems.

The lectures presented will provide a more fundamental understanding of friction phenomena like hysteresis and adhesion friction, friction on snow and ice, multi-scale modelling of rubber friction, contact mechanics with rough tracks and squeezing of water films.

## Contents

- Rubber friction and tire traction on ice
- Wet and dry rubber friction on road surfaces
- Evaluation of high-frequency viscoelastic properties
- Insight into rubber friction on snow and ice
- Wet and dry rubber friction on rough substrates
- Load and temperature dependence of dry rubber friction
- Squeezing of water films and dewetting
- Local friction effects and macroscopic results in elastomer contacts
- Contact mechanics of rubber with rough tracks
- Multi-scale modelling of rubber friction on rough surfaces
- Tire tread block friction and its role in vehicle dynamics

The organizer reserves the right to change the program.

