



DIK/DKG Special Seminar

# Mixing of Rubber Compounds

April 24–26, 2024  
Freudenberg (Germany)

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 Straße 33, 30519 Hannover

Deutsche Kautschuk-Gesellschaft e. V.  
Michael Patrick Zeiner (Managing Director)  
Zeppelinallee 69, 60487 Frankfurt

## Contact person

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## Head of the seminar

Prof. Dr.-Ing. Andreas Limper

## Participation Fee

Members of DIK or DKG	€ 1,430
Nonmembers	€ 1,590
Three or more employees from same nonmember	€ 1,510

Please note the time schedule, the English seminar is parallel but starts asynchrony to the German seminar. The fee includes the conference proceedings, refreshments during the official coffee breaks, lunches and the social evening.

## Target Group

Experts as well as trainees in the field of compounding, processing, research and development of rubber 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.

[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).

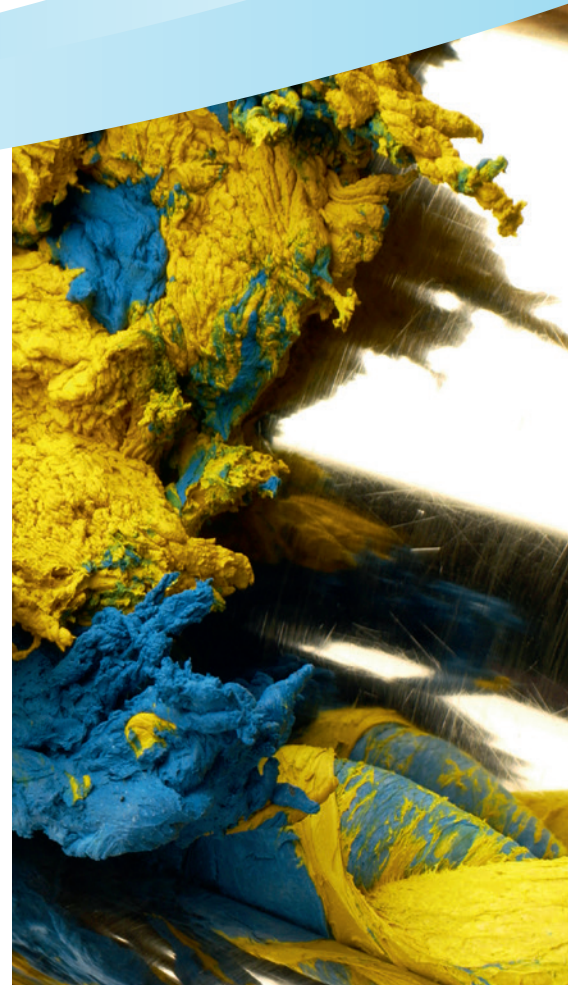
## Conference Venue

Hotel "Zur Altstadt"  
Oranienstraße 41  
57258 Freudenberg

# Mixing of Rubber Compounds

Efficient mixing is of paramount importance for processing rubber compounds. Any shortcomings in this stage of process, such as poorly dispersed additives or divergent performances when blending and processing, often fail to be detected by downstream mixing checks. This results in an unacceptable level of rejects in downstream processing stages and in final products. The mixing process, therefore, needs to be optimized for greater economy in production. This involves both challenges of mechanical engineering and process technology. Nor should the impacts of raw materials be disregarded.

These topics will be covered comprehensively during the seminar using a combination of lectures on fundamentals and practical tests. These test runs will serve as hands-on training to try out and intensify the theoretical knowledge acquired. In this way theoretical approaches can also be used to explain mixing problems helping to solve problems in day-to-day work. The objective of the seminar is to provide users at the mixing room with the necessary tools for designing mixing processes in an optimum way.



## Contents

- **Internal Mixer – Mechanical engineering aspects, introduction and basics**
- **Internal Mixer – Process technology**
- **Internal Mixer – a reaction vessel**
- **Characteristics of polymers relating to the mixing process in an internal mixer**
- **Dispersion of fillers**
- **Compounding and its impact on product**

## Practical Seminar with mixing tests with the following contents

- **Practical tests at Laboratory internal mixer GK 4 N/GK 5 E**
- **Determination of the mixing properties**
- **Evaluation of the temptation Results and Discussion**

The organizer reserves the right to change the program.

