

23 / 11 / 2017

# GUMFERENCE

Gumference 2017 – seminar of joint Czech-Bavarian research project no. 8E15B007

## Topic:

### „Rubber aging phenomena“

## Programme:

Registration 8:00 – 9:00

Opening words 9:00 – 9:15 Prof. Vladimír Sedlářík,  
Director of Centre of polymer systems

Poster session will be arranged during the complete seminar in the foyer of CPS

## 1st Session – Plenary lecture

**9:15 – 10:00 Prof. Alexander Lion:**  
A model to describe the crystallisation of rubber under strain and temperature  
(Universität der Bundeswehr München)

## 2nd Session – Research session

**10:00 – 10:30 Dr.-Ing. Michael Johlitz:**  
How to determine ageing of polymers? Basics, experimental methods and modelling approaches  
(Universität der Bundeswehr München)

**10:30 – 11:00 Dr.-Ing. Radek Stoček:**  
Ageing influence on the Intrinsic Strength of Natural Rubber / Butadiene Rubber Blends  
(Centre of polymer systems)

Coffee break 11:00 – 11:30

## 3rd Session – Industrial session

**11:30 – 12:00 Ing. Zdeno Plevák:**  
Influence of thermal degradation of butyl rubber compound (Continental A.G.)

**12:00 – 12:30 Ing. Jana Voldánová:**  
The dynamic ageing of vulcanizates – DMA method vs. Crack growth rate (Trelleborg)

Lunch break 12:30 – 13:30

## 4rd Session – Research session

**13:30 – 14:00 Dr.-Ing. Katrin Reincke:**  
Influence of antioxidant type on the thermo-oxidative ageing of rubber vulcanizates  
(Martin Luther University Halle-Wittenberg)

**14:00 – 14:30 Dr.-Ing. Ronny Behnke:**  
Thermo-mechanical analysis of steady state rolling tires with respect to thermal damage  
(TU Dresden)

**14:30 – 15:00 Prof. Vratislav Ducháček:**  
Chemical aspects of thermomechanical degradation of rubbers (VŠCHT Praha)

**Poster session incl. coffee break** 15:00 – 15:45

**Pannel discussion** 15:45 – 16:15

**Closing words** 16:15 – 16:20

**Tour in to the laboratory of CPS** 16:30 – 17:00