

13.00	
	»Ontvangst en registratie
13.30	
	»Opening door voorzitter VKRT
13.40	Going circular: transforming end-of-life rubber into a raw material for the rubber industry »University of Twente; Wilma Dierkes
Lecture	Post-consumer rubber waste is a problem, but at the same time also a challenge with a large potential: If the concentration of recycled rubber in e.g. tires can be increased significantly, the amount of reused rubber will increase considerably. The challenge is to develop a technology allowing to produce recycled rubber of a high quality. One of the problems is related to the source of the end-of-life rubber, its homogeneity and purity: rubber products in general consist of different compounds, and can contain external contaminations from the service life as well as internal ones such as reinforcing fibers. The most promising technology for a high quality recycled rubber is devulcanization. In this process, in the ideal case, only the sulfur crosslinks will be broken, resulting in a processable rubber with properties comparable to the ones of the feedstock. An extensive study was done to devulcanize different types of feedstock and determine the quality of the resulting products. The feedstock was varied in terms of age, single compounds versus a blend of different types of rubber, particle size of the feedstock, carbon black versus silica filled rubber, and different silica-silane combinations. In terms of the devulcanization process, pre-treatment of the ground rubber, type of process as well as processing time are discussed. Besides, the analysis of the recycled rubber will be discussed. Finally, the sum of these considerations will result in an overview of the challenges and chances of devulcanization and reuse of rubber.
14.20	REACH en Rubber Recycling »RecyBEM; Alex van Gelderen
Lecture	Er zal een overzicht gegeven worden van de processen in REACH en de Kader Richtlijn afval en wat dat betekent voor de toepasbaarheid van rubber gerecycled materiaal. Waar mogelijk aan de hand van voorbeelden.
15.00	Impact of recovered carbon black inorganic impurities on crosslinking and in-rubber performance. »University of Twente; A. Anjum

Lecture	In this study, the role of the ash content in recovered carbon blacks (rCB) on the in-rubber performance was investigated. Material characterization was performed to evaluate the amount of ash, the elemental composition, the BET surface area of the rCB including ash and the organic impurities in the latter. Elemental mapping was performed using Energy Dispersive Transmission Electron Microscopy to locate the ash components in the rCB. Furthermore, the in-rubber performance of rCb was tested. This study revealed the presence of active sulfur in rCBs originating from the ash content. Additionally, strong evidences were obtained from elemental analysis, cure characteristics and Payne effect measurements regarding the dependency of the amount of the active sulfur on the silica content present in the ash. Finally, elemental mapping showed a high concentration of sulfur deposited on the silica surface present in the rCB.
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15.40	
	»Pauze

16.00	Secondary Raw Materials
	»Kargo, Wim Migchels
Lecture	Inzet van alternatieve grondstoffen in eindproducten. Er zijn verschillende routes waarbij je afvalstromen weer in een reguliere productstroom kunt invoeren. Dit met behoudt van eigenschappen.
	<ol style="list-style-type: none"> 1) Je gaat helemaal terug naar de basis, pyrolyse proces. 2) Zoekt activatie met ?virgin? materiaal, MRP project. 3) Reclaim à Devulcanisatie, optimalisatie van rubber polymeren.

16.40	In progress.
	»DRI

17.20	
	»Aperatief en diner