

13.00	Ontvangst en registratie
13.30	Opening door de voorzitter VKRT
13.40	Advance Synthetic Rubbers to Respond Novel Requirements of Elastomer Materials from Automobile Industry »Dr. Marcus Santoso, Zeon Europe GmbH
Lecture	Zeon is the leader producer of innovative polymers, focussed on speciality rubbers based upon the chemistry of the C4 and C5 fractions. These elements evolve the Zeon
14.20	Polyurea as a Membrane »Cees Moorman, BASF Polyurethanes Benelux BV
Lecture	Any traditional park deck needs to be protected with a waterproofing membrane to prevent leakage. This leakage, especially in wintertime when salt is used to de-ice, will cause deterioration of the concrete and the rebar. Also the joints between the concrete need to be sealed and remain permanently flexible, since an expansion joint are designed to expand and contract! BASF developed a system for this exact application based upon a permanent flexible aromatic spray able Polyurea with an antiskid finish using the same material, this system is CE marked conform the EN 1504-2 and yields a class 3 antiskid rating, and this polyurea has a OS11a certificate.
15.00	Influence of oligomeric resins on traction and rolling resistance of silica tire treads »Nadia Vleugels*, Wilma Dierkes , Jacques Noordermeer, University Twente, & Wolfgang Pille-Wolf , Arizona Chemicals

Lecture	<p>This study concerns the silica-reinforcement of synthetic rubber compounds for passenger tire treads with the objective to gain insight into the beneficial effects of oligomeric resins, derived from natural and synthetic monomers, on the major tire performance factors: Rolling Resistance and (Wet) Skid Resistance. This manuscript highlights the relationship between the performances of various oligomeric resins in different concentrations: 2, 4 and 6 phr, on the dynamic mechanical behavior of the silica reinforced passenger car tire tread compounds. Three types of resins were tested: a polyterpene, a terpene-phenolic and a pure vinyl-aromatic hydrocarbon resin. Dynamic Mechanical Analysis (DMA) was used, in addition to Mooney viscosity, cure meter, tensile and hardness tests to assess the behavior of these resins in the rubber and to characterize the processibility of the compounds. The DMA shows that the resins and rubber compounds are compatible at the resin quantities used. The $\tan \delta$ loss angle versus temperature was used as an indication for wet skid and rolling resistance. The shift to a higher temperature in the $\tan \delta$ peak belonging to the glass transition (T_g) of the rubber phase, due to the contribution of the higher T_g of the resins, is the reason for improved wet skid performance. A maximum improvement of ca. 35 % in the wet skid region (0 - 30</p>
---------	--

15.30	pauze
-------	-------

16.10	<p>Rubber reinforcement by the Silica/Silane system in mechanical rubber goods</p> <p>»Anke Blume, Michael Viol, Andre Hasse, Oliver Klockmann, Carin Roeben*, Evonik</p>
Lecture	<p>The application of sulfur based silanes like bis(triethoxysilylpropyl)tetrasulfane (Si 69®) as coupling agent for silica-filled compounds is well-known. A main application of this kind of silane is the use in sulfur cured diene rubbers. Beside diene rubbers a broad variety of special elastomers is used in MRG industry.</p> <p>This presentation will demonstrate the potential of silanes for special elastomers. Apart from the sulfur-functional silanes other functional groups will be presented and application examples in selected MRG formulations will be given. The influence of the silane dosage on the in-rubber properties will be demonstrated. Furthermore, some general background information how to manipulate the silanization reaction will be presented.</p>

16.50	<p>3M 2K Technology: Primer free bonding of FKM to PA46 for lightweight solutions</p> <p>»Angelica Krsteski*, Isabel Picard, 3M Advanced Material Division & Protective Materials</p>
Lecture	<p>3M? Dyneon? Fluoroelastomers are used extensively in various high temperature applications such as radial shaft seals. Many of these applications currently use fluoroelastomers in combination with metal components. A new joint development concept from DSM Engineering Plastics and Dyneon, a 3M company, is broadening horizons as it offers the option to replace heavy or dense metal components in high temperature applications. This can be achieved by using the new ?primerfree? combination of DSM Stanyl® Polyamide 46 and 3M Dyneon Fluoroelastomers. Expensive metal surface treatments, which pose potential risks to the environment and to employees, can be eliminated by replacing metal components with Stanyl. These include the removal of insert shaping scrap, mechanical surface treatments such as grinding, sandblasting, baking, and chemical surface treatment like cleaning, phosphating and priming. Using Stanyl offers improved production efficiency, freedom of design and integration of functions. In addition a short overview will be given on 3M Advanced Materials product portfolio and solutions for the plastic and rubber industry</p>

17.30	Aperitief
-------	-----------

18.30	Diner
-------	-------

