

# Preliminary Poster Programm KHK 2022



**S. Böttger (Deutsches Institut für Kautschuktechnologie e.V.)**

Temperature-dependent behavior of rubber: isochoric and volumetric

**N. Hanne (Deutsches Institut für Kautschuktechnologie e.V.)**

DIC Supported Investigation of Fatigue Crack Growth for various Rubber Compounds

**R. Hentschke (Bergische Universität Wuppertal)**

Scaling Theory of Rubber Sliding Friction

**M. Jaunich (Bundesanstalt für Materialforschung und Prüfung)**

Analysis of O-ring seal failure in the context of radioactive waste containers

**E. Koch (TH Köln)**

Characterization of different pyrolysis carbon black

**F. Magaletti (Politecnico di Milano)**

Hexagonal boron nitride as filler for elastomer nanocomposites

**Y. Mirzaei (Deutsches Institut für Kautschuktechnologie e.V.)**

Experimental characterization and numerical simulation of ageing in synthetic rubber

**F. Moriggi (Politecnico di Milano)**

Chemical functionalization of graphene surface: modeling of supramolecular interactions

**M. Müller (Deutsches Institut für Kautschuktechnologie e.V.)**

Miscibility behaviour of monodisperse polymers evaluated by DMA and DRS

**S. Naddeo (Politecnico di Milano)**

Serinol pyrrole: a bio-sourced Janus molecule as silica coupling agent in rubber compounds with low hysteresis

**J. Niers (Deutsches Institut für Kautschuktechnologie e.V.)**

Solubility and diffusion of antioxidants in polyisoprene

**S. Öchsner (TH Köln)**

Characterization of additive manufactured silicone elastomers

**G. Prioglio (Politecnico di Milano)**

A bio-sourced molecule as carbon black coupling agent in rubber compounds with low hysteresis

**S. Roß (Deutsches Institut für Kautschuktechnologie e.V.)**

Identification of Optimized Curing Time by Consideration of Flocculation

**C. Saeheng (Deutsches Institut für Kautschuktechnologie e.V.)**

Influence of silane on abrasion behaviour of silica-filled SBR compounds

**S. Siebert (Deutsches Institut für Kautschuktechnologie e.V.)**

A transversally isotropic constitutive model for cellular rubber containing unidirectionally aligned spheroidal pores

**V. Spanheimer (TH Köln)**

Influence of softener in NBR compounds on their oil resistance

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**M. Tebben (Deutsches Institut für Kautschuktechnologie e.V.)**

Characterization of material inhomogeneities from polymer-filler interactions in polymer blends

**I. Yakovlev (ESRF – European Synchrotron)**

Cavity formation during deformation in silica-filled rubbers observed by Ultra Small-Angle X-Ray Scattering

**M. Zambito Marsala (Politecnico di Milano)**

Sepiolite with enhanced chemical reactivity as filler for rubber composites