Elastomer Product

Characterisation and testing of

materials & products

Session

Topics:

Material Developments

09:00 - 09:25	Stefan Frosch Sulfur Migration In Recycled Ground Rubber Containing Compounds And Its Impact On Dynamic-Mechanical Properties (95)	Silicone rubber gaskets for application under steam and high temperature environment: characterization of chemical structure and ageing study under critical conditions (88)	Akihiro Matsuda Voxel-Based Finite Element Analysis of Polymer Foam with Micro-CT data (106)	The Influence of Carbon Black on Electrical Properties of Rubber and Compound Development Approaches for High Resistivity Applications (116)		
09:25 - 09:50	Maurizio Galimberti A Biobasedjanus Molecule As Universal Coupling Agent In Rubber Compounds (111)	Study of elastomer blend dynamics for improved tire performance (85)	Coupled vulcanization and cellularization modeling for rubber foam injection molding (126)	Eric Euchler Mechanical characterization of imidazole- modified elastomers with self-healing capabilities (117)		
09:50 - 10:15	Subhradeep Mandal Transformation of epoxidized natural rubber into ionomer with imidazole as a sustainable material with self-healing functionality (114)	Evangelos Koliolios Chemical Characterisation of Smear Wear: A key to understanding tyre tread wear performance (89)	Jonathan Hodges Flexible Dielectric Elastomers For Wave Energy Generation - A Cross-Sector R&D Opportunity (40)	Fabian Grunert Investigation of the post-hardening effect of silica filled NR compounds (127)		
10:15 - 10:50					Refreshment	s & Networking
10:50 - 11:15	Silvia Guerra Eco-Tyre With A Low Environmental Impact (124)	Josef Ludwig Spatially resolved, temperature- dependent determination of elastomer material properties using micro- indentation (91)	Andreas Kaiser Improving Elastomer Compounds for Hydrogen Applications (69)	Michael Warskulat Beyond N330: Alternative Rubber Carbon Blacks to Comply with Regulations, to Enhance Performance or to Move towards Sustainability (132)		
11:15 - 11:40	Wincenzina Barbera Wincenzina Barbera Biobased Janus Molecules For The Universal Functionalization of sp2 Carbon Allotropes, Silica And Boron Nitride, Fillers of Elastomeric Composites (136)	Cavity formation during deformation of silica-filled rubber compounds observed by Ultra Small-Angle X-Ray Scattering (92)	Ondrej Farkas Frequency Domain Viscoelasticity - On The Experimental And Numerical Investigation Of Elastomeric Vibration Isolators Under Dynamic Loading (75)	Ján Kruželák Physical-mechanical properties and EMI absorption shielding performance of rubber composites (28)		
11:40 - 12:05	Larissa Gschwind Investigation of Aging Behavior of Recycled EPDM Rubber Waste (140)	Aaron Graham On the use of the Virtual Fields Method for material characterisation (97)	Debabrata Ganguly Cement-Carbon Black Dual Filler Based Hnbr Composite For Low Cost, Light Weight, Flexible, And Efficient Radiation Shielding Materials (105)	Prashant Saxena Modelling extreme deformation and resulting instabilities in thin electro-active and magneto-active elastomer membranes and shells (36)		
12:05 - 12:30			Hikaru Hashimoto Characterization On The Crosslink Reaction Of Fkm Rubber By Using Nmr And Tga (123)	Wei Tan Inverse design of shape-morphing structures based on functionally graded elastomer composites (57)		
12:30 - 13:35					Lunch & N	Networking
13:35 - 14:00	The Devulcanization and Revulcanization Of Waste Tyre Rubber (144)	Eathan Plaschka The Influence of Temperature on Friction and Wear Behaviour of Tyre Tread Compounds (98)				
14:00 - 14:25	Chris Norris Chris Norris Demonstrating the Performance Potential of rCB in Rubber Formulations (146)	Anmol Aggarwal Investigation Of Different Interactions In Silica-Filled SSBR Compounds Contributing To The Cure Torque (99)	Leo Nijhof Crosslinking Peroxides for Silicone Rubbers (21)	Sara Naderizadeh Piezoresistive Elastomer Composites Used for Pressure Sensing (81)		
14:25 - 14:50	Poster Session	Takahiro Anzai Visualization Of Nanoscale Mechanical Properties Of Fatigue Rubber By AFM (112)	Patrick Frenzel Experimental Analysis Of The Residence Time Distribution In A Single Screw Rubber Extruder Using A Digital Image Processing Method (35)			
14:50 - 15:15	Chair: Jan	Richard Moon Investigation into the Impact Carbon Black Grades have on the Permeation Resistance of Butyl Rubbers (115)	Ameya Karmarkar Investigation Into The Application Of Additive Manufacturing Technology For Chassis And Powertrain Tuning Bushes (43)	Jishnu Nirmala Suresh Developing liquid rubber's electromechanical actuation capabilities for soft robotic applications. (118)		
15:15 - 16:00					Refreshments	s & Networking
16:00 - 16:25	Sustainability Panel Discussion	William Amoako Kyei Manu The Effect Of Carbon Black Morphology On The Fatigue Crack Growth Behavior Of Rubber Compounds (125)	A Novel 3D Printing Technology For	Carmela Mangone Enabling interfacial adhesion between conductive rubber and piezoelectric polymer for energy harvesting applications (130)	Shell Schem	ne Breakdown
16:25 - 16:50	Chair: James Language	Natalia Cano Murillo Effect Of High-Pressure Ahydrogen Environment On The Physical And Mechanical Properties Of Different Kinds Of Carbon Black Filled Elastomers (142)	Kento Watanabe The Effect Of Zinc Oxide On The Structure And Mechanical Properties Of Carbon Black Filled Rubber (60)		Shell Scheme Breakdown	
16:50 - 17:15	Pentland East	Pentland West	Close of Conference Prestonfield	St Trinneans	South Hall	Kirkland

		Sustainability Panel Discussion	On The Fatigue Crack Growth Behavior Of Rubber Compounds (125)	A Novel 3D Printing Technology For Elastomeric Products From Rubber Latex (55)	conductive rubber and piezoelectric polymer for energy harvesting applications (130)	Shell Scheme	o Broakdown	
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