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RubberChem 2010 - Conference Proceedings

Description: The global economic downturn had a vast impact on the rubber chemicals sector as many customers in the allied automotive, building and construction and industrial equipment fields saw their businesses badly hit. However, with the world economy now growing and consumer confidence improving, the demand for higher performance and superior durability of rubber articles is set to once again drive technical product developments and innovations in the use of chemicals in rubber compounds.

With experts predicting that the less industrialised nations of China and India will lead the economic recovery, low-price competition from Asia is likely to continue to impact the European rubber chemicals market. Add to this the complications of the REACH regulations which have required large scale product reformulations and it is clear to see why there is a need for continued research and development to respond to new challenges.

RubberChem 2010, the seventh international conference devoted to rubber chemicals, compounding and mixing covered developments in a range of rubber chemicals from accelerators, antioxidants and antiozonants to retarders and peptisers.

RubberChem 2010 took place in Vienna, Austria from 30 November – 1 December 2010.

These proceedings cover all the presentations from the conference, featuring representatives from some of the world's leading companies in the rubber chemicals arena, including Lanxess, DSM Elastomers, Dow Corning GmbH, Rhein Chemie Rheinau GmbH, Schill & Seilacher "Struktol" GmbH and Trelleborg Wheel Systems giving up to date information from the heart of the rubber industry.

Contents: Session 1: New Regulations Affecting the Rubber Industry

Paper 1: Carbon black and polycyclic aromatic hydrocarbons- technical issues and regulations
-- Dr Joseph Hallett & Dr G Moninot, Columbian Chemicals Company, Germany

Paper 2: Impact of REACH on company and sector product stewardship efforts – some predictions for the future
-- Giles Chappell, McKenna Long & Aldridge LLP, Belgium

Paper 3: REACH for downstream users - making it work for business
-- Sarah Haywood and Dr John Haywood, Clwyd Compounds Ltd, UK

Session 2: Dispersion, Reinforcement & Fillers

Paper 4: Effect of MWNT-dispersion in NBR-compounds
-- Dr Andreas Schroeder, Dr Martin Saewe and Luc Briquel, Rhein Chemie Rheinau GmbH, Germany

Session 3: Compounding & Processing

Paper 5: Novel zinc free processing promoter for silica compounds
-- Dr Hermann-Josef Weidenhaupt, Lanxess Deutschland GmbH, Germany

Paper 6: Keltan 1200A: An ultra low viscosity EPM
-- Gosé van Zandvoort, Peter Meijers, Michael Koch and Susmita Bhattarjee, DSM Elastomers, The Netherlands & Graham Choonoo, DSM Elastomers, Canada

Paper 7: Effect of nanorubber in black-filled rubber compounds
-- Prof Franco Cataldo, D Caon, A Viglietta, F Valentini and V Cherubini, Trelleborg Wheel Systems SpA, Italy

Paper 8: Process development of rubber compounds with PTFE micro powder in order to improve tribological properties

-- Jan Peter Dering, Prof Dr -Ing Dr-Ing Eh Walter Michaeli and Hannah Köppen Institute of Plastics Processing (IKV), Germany

Paper 9: Reactive rubber processing additives based on organo-silicones for peroxide crosslinkable polymer types

-- Dr Volker Börger, Schill + Seilacher "Struktol" GmbH, Germany

Session 4: Testing

Paper 10: The effect of method of analysis on the service life prediction of a natural rubber compound

-- Dr Frederick E Ngolemasango, Dr Chris O'Connor, Dr Richard Venables, Gary Crutchley, Prof George Nkeng and Dr Jane Clarke, Smithers Rapra Technology Ltd, UK

Paper 11: Determination of the expansion process of foamed rubber profiles

-- Prof Dr -Ing Dr Ing Eh Walter Michaeli and Sarah Sitz, Institute of Plastics Processing (IKV), Germany

Paper 12: Claim and benefit-based approaches to assessing the antimicrobial performance of compounded rubber products

-- Peter D Askew, Industrial Microbiological Services Ltd (IMSL), UK

Session 5: Vulcanisation & Cure Systems

Paper 13: Eliminating blooming of chemical curatives in natural rubber and assessing its effect on the cyclic fatigue life of the rubber vulcanisate

-- A Ansarifar and F Saeed, Loughborough University; A Farid, London Metropolitan University & R J Ellis and Y Haile-Meskel, DTR VMS Ltd, UK

Paper 14: Effects of variations in vulcanisation systems in natural rubber

-- R J Del Vecchio, Technical Consulting Services; Ernest Ferro, Jr & Robert Michael, Corry Rubber, USA

Paper 15: Tetramethyldithiooxamide as an accelerator and biofilm resistant additive for styrene butadiene rubber

-- Svoboda V Tabakova, Tsolo Tsolov, Nadejda Tabakova & Vera Mircheva, Bulgarian Academy of Sciences & University of Chemical Technology and Metallurgy, Bulgaria

Session 6: Silicone Rubber

Paper 16: Silicone elastomers - solutions for the future

-- Dr Hans Peter Wolf & Dr Ernst Gerlach, Dow Corning GmbH, Germany

Session 7: Recycling & Waste Reduction

Paper 17: Devulcanisation and the re-use of waste rubber

-- Dr Martin Forrest, Smithers Rapra Technology Ltd, UK

Paper 18: The technical and commercial significance of recycled rubber masterbatches in today's rubber industry

-- Robert C Kind, Polymer Recyclers Ltd, UK

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