

## CONFERENCE PROGRAMME

26.11.2019 (Tuesday)

- 11:30–13:30 Registration of participants (Lobby)**  
**11:30–13:30 Refreshments (snack-bar) (Konwalia)**  
**13:30–15:30 Session 1 (Malwa)**  
*Janusz Datta, Dariusz Bieliński*
- 13:30–14:00 Opening of the Conference  
14:00–14:45 W1 *Anisotropic carbon based filler in origin and modified rubber matrices – Ulrich Giese*  
14:45–15:30 W2 *Elastomer composites with coordination polymers – Zbigniew Florjańczyk*
- 15:30–16:00 Coffee break (Konwalia)**  
**16:00–17:45 Session 2A (Malwa)**  
*Ulrich Giese, Monika Malesa*
- 16:00–16:30 R1 *Closing the Circle of Life Cycle of Polyurethanes – Juan Rodriguez*  
16:30–17:00 R2 *Production of thermoregulating elastomeric materials – Manuel Carmona*  
17:00–17:30 R3 *Polyurethane elastomers manufactured using renewable raw materials – Joanna Ryszkowska*  
17:30–17:45 K1 *Polyurethane elastomers manufactured using renewable raw materials – Sławomir Michałowski*
- 16:00–17:45 Session 2B (Stokrotka)**  
*Zbigniew Florjańczyk, Denis Rodrigue*
- 16:00–16:30 R4 *New trends in rubber technology, engineering and exploitation – Dariusz Bieliński*  
16:30–17:00 R5 *Material recycling of waste rubber – current state and perspectives – Józef Haponiuk*  
17:00–17:30 R6 *Rubber composites used as absorbers of electromagnetic radiation – Jan Kruželak*  
17:30–17:45 K2 *Effect of process oil and polymer macrostructure on the processability of filled e-SBR compound: characterization of linear and non-linear viscoelastic behavior of raw rubbers and compounds – Michele Scacchi*
- 18:00–19:00 Poster Session (Konwalia)**  
*Juan Rodriguez, Józef Haponiuk*  
**19:00–20:00 Dinner**

27.11.2019 (Wednesday)

**9:00–10:30 Session 3A (Malwa)**

Krzysztof Bajer, Marek Olkusz

- 9:00–9:30 R7 *Nature-inspired Velcro compatibilization system for silica/rubber coupling* – Rafał Anyszka
- 9:30–10:00 R8 *Special functionalized S-SBRs and its effect on silica dispersion* – Daisuke Hayata
- 10:00–10:30 R9 *Study of the polymer-silane coupling in model silica/silane systems* – Claude Arreyngang Tabe

**9:00–10:30 Session 3B (Stokrotka)**

Dariusz Bogdał, Krzysztof Hodor

- 9:00–9:30 R10 *Application of biopolymers as a filler or component in rubber blends* – Ivan Hudec
- 9:30–10:00 R11 *The effect of natural fibers on the processing and properties of natural rubber* – Denis Rodrigue
- 10:00–10:15 K3 *Study on synthesis, chemical structure and selected properties of thermoplastic polyurethane elastomers obtaining with bio-components* – Ewa Głowińska
- 10:15–10:30 K4 *Impact of mixture of polyurethane prepolymers on selected properties of thermoplastic polyurethane elastomers* – Paulina Kasprzyk

**10:30–11:00 Coffee break (Konwalia)**

**11:00–13:00 Session 4 – Sponsor Panel (Malwa)**

Ewa Głowińska, Josef Ludwig

- 11:00–11:30 RS1 *Get the right mix! Werba today* – Joanna Mierzejewska, Barbara Nemeth (Werba)
- 11:30–12:00 RS2 *Mineral Fillers. Trends for tire and technical rubber goods* – Marek Gardavsky (Werba)
- 12:00–12:30 RS3 *Development of innovative synthetic rubbers for the production of 21st century tyres* – Radosław Kozak (Synthos)
- 12:30–12:45 KS1 *Kabat. Rubber is our passion and development is our duty* – Agnieszka Wierzbicka (Kabat)
- 12:45–13:00 KS2 *Rubber additives for optimized compounds, processes and products* – Robert Kobel-Bryk (Struktol)

**13:00–14:00 Lunch**

**14:00–20:00 Leisure time**

**20:00–23:00 Conference Gala Dinner**

sponsored by  **WERBA** and  **BARBE** (Kuźnia smaku)

28.11.2019 (Thursday)

**9:00–10:30 Session 5A (Malwa)**

*Ivan Hudec, Wolfgang Ruschig*

- 9:00–9:30 R12 *ACTIV8 – novel activator for DPG replacement and rubber property advantage – Robert Bosch*
- 9:30–10:00 R13 *Structure-property relationship of low molecular weight “liquid” polymers in SSBR-rich/silica compounds – Marcel Gruendken*
- 10:00–10:15 K5 *Effects of rubber type and crosslinking system on cyclic stretching and compression – Agata Domańska*
- 10:15–10:30 K6 *Elastomeric composites with fillers with biocidal properties – Urszula Pawłowska*

**9:00–10:30 Session 5B (Stokrotka)**

*Elżbieta Piesowicz, Robert Kobel-Bryk*

- 9:00–9:30 R14 *Applications of ionic liquids in elastomeric composites – Magdalena Maciejewska*
- 9:30–9:45 K7 *Alkylimidazolium ionic liquids as coagents for sulfur vulcanization of ethylene-propylene-diene rubber – Anna Sowińska*
- 9:45–10:00 K8 *Development of a method for preparation of rubber composites with graphene addition – Dominik Kowalczyk*
- 10:00–10:15 K9 *Zinc oxide nanoparticles morphology influence on crosslinking of SBR – Katarzyna Klajn*
- 10:15–10:30 K10 *Effect of acrylonitrile content on laser texturing efficiency of the NBR vulcanizates – Michał Okraska*

**10:30–11:00 Coffee break (Konwalia)**

**11:00–12:30 Session 6A (Malwa)**

*Rafał Anyszka, Michele Scacchi*

- 11:00–11:30 R15 *Support for analyzation of the degree of cross-linking with the method of micro-indentation – Josef Ludwig*
- 11:30–12:00 R16 *Determination of crosslink density of rubber by various techniques – Marcin Sęk*
- 12:00–12:15 K11 *Crosslink density of rubber vulcanizates investigated by micromechanical studies – Tomasz Gozdek*
- 12:15–12:30 K12 *The influence of basic environment on the activity of novel crosslinking system based on Heck reaction – Anna Dziemidkiewicz*

**11:00–12:30 Session 6B (Stokrotka)**

*Robert Bosch, Magdalena Maciejewska*

- 11:00–11:30 R17 *Chemical modification of sepiolite for rubber composites with improved mechanical properties – Daniele Locatelli*
- 11:30–11:45 K13 *Ceramization of elastomeric composites based on styrene-butadiene rubber – Mateusz Imiela*
- 11:45–12:00 K14 *Composites of acrylonitrile butadiene rubber (KER-33) with montmorillonite modified with lactic acid oligomers – Katarzyna Rucińska*
- 12:00–12:15 K15 *Unconventional sulfur-based curing agents-synthesis and efficiency – Jakub Wręczycki*
- 12:15–12:30 K16 *SBR vulcanizates with the addition of peroxide resin – Joanna Chudzik*

**12:30–13:00 Summary and closing of the conference (Malwa)**

**13:00–14:00 Lunch**

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- P1** Olszewski Adam – *Polyurethane elastomers with increased thermal stability. Impact of the structure of obtained materials and content of polyol containing phosphorus atoms on the properties*
- P2** Kvasničáková Andrea – *Rubber composites filled with magnetic soft filler*
- P3** Dziemidkiewicz Anna – *The influence of different metal acetylacetonates on the activity of Heck reaction applied for crosslinking of halogenated diene rubbers*
- P4** Szadkowski Bolesław – *The effect of new organic-inorganic pigments on the properties of elastomer composites*
- P5** Dębek Cezary – *The usefulness of pyrolytic soot obtained in the installation of continuous pyrolysis of used tyres for the rubber industry*
- P6** Piesowicz Elżbieta – *Mechanism and conditions of heterophasic structure formation during dynamic vulcanization in multiphasic polyolefin material*
- P7** Głowińska Ewa – *Study on the chemical structure, mechanical and thermal properties of thermoplastic polyurethane elastomers after multiplate processing*
- P8** Osuchowska Ewa – *The use of various carbon forms for obtaining composite material Zn/C*
- P9** Bagiński Filip – *Hydrophobic, synthetic hollow fibers as the reinforcing material used in the rubber vulcanizates*
- P10** Wróbel Justyna – *Possibilities of pyrolytic carbon black application in electrochemical power sources*
- P11** Błażek Kamila – *The effect of bio-based polyether polyols with different molecular weight on the chemical structure and selected properties of polyurethanes synthesized without using diisocyanates*
- P12** Błażek Kamila – *Cyclic carbonates intended for the synthesis of polyurethane elastomers synthesized without using diisocyanates*
- P13** Dąbrowski Kazimierz – *Flame retardant rubber compounds*
- P14** Zedler Łukasz – *Efficiency of waste rubber reclaiming as a function of various chemical additives*
- P15** Kwiatkowska Magdalena – *Bio-based furan-ester copolymers of poly(butylene furanoate) (PBF) and poly(ethylene oxide) (PEO)*
- P16** Kasprzyk Paulina – *Kinetics of thermal degradation of bio-based thermoplastic polyurethane elastomers*
- P17** Parcheta Paulina – *The effect of bio-based polyester polyols on selected mechanical and thermal properties of new thermoplastic polyurethane elastomers*
- P18** Koziński Robert – *Preparation and selected properties of rubber compositions filled with regenerated cellulose*
- P19** Stępkowski Robert – *Elastomeric shells of aerostats*
- P20** Paszkiewicz Sandra – *Microstructure and physical properties of amorphous thermoplastic polyesters (PETG and PEF) modified with substandard EPDM*
- P21** Olejnik Anna – *Iron(III) oxide as a new crosslinking agent of blends containing chloroprene rubber and butadiene rubber*
- P22** Kobędza Piotr – *Modified wood flour as a natural filler for elastomers*
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