

**“Polyurethanes 2015 – cooperation for innovation”**  
Conference Program

**9.09.2015 (Wednesday)**

**13.00-18.00 Registration**

**14.30-15.15 Opening ceremony**

Prof. Kazimierz Furtak - Rector PK,

Prof. Z. Kowalski – Dean of WIiTCh,

Dr. Leonard Szczepkowski – Technical Director of Fampur Adam Przekurat Company

**15.15-15.50**

**LATIGA Team**, *How many beads?*

**15.50-16.20**

**S. Caillol**, R. Auvergne, B. Boutevin. *Can we meet the new challenges of Non-Isocyanates polyurethanes?*

**16.20-16.50 Coffee break**

**16.50-17.20**

**J. Kozakiewicz**. *Developments in aqueous polyurethane dispersion technology.*

**17.20-17.50**

**B. Pilch-Pitera**, Piotr Król. *Polyurethane powder clean coating systems with low free surface energy.*

**17.50-18.20**

J. Bernardini, P. Cinelli, I. Anguillesi, **M.B. Coltelli**, A. Lazzeri. *Comparison of different types of lignin for the green synthesis of soft polyurethane foams.*

**18.20-18.40**

**S. Dworakowska**, A. Cornille, D. Bogdał, B. Boutevin, S. Caillol. *NIPU foams - new non isocyanate polyurethane foams.*

**18.40-???? Business time - meetings**

## **10.09.2015 (Thursday)**

### **8.30-12.00 Registration**

#### **9.00-9.30**

A. Paberza, A. Fridrihsone-Girone, A. Abolins, **U. Cabulis**. *Synthesis of polyols from recycled PET flakes and rapeseed oil for polyurethane foams.*

#### **9.30-10.00**

**J. Datta**, M. Włoch, P. Kopczyńska, P. Parcheta, E. Głowińska. *Effect of selected catalysts on glycolysis process of polyurethanes.*

#### **10.00-10.20**

**P. Kopczyńska**, J. Datta, N. Kamińska. *Chemical recycling of polyurethane waste by means of glycerin with different purity.*

#### **10.20-10.40**

**M. Kirpluks**, U. Cabulis, A.A. Avots, I. Sevastjanova. *Flammability of Rigid PU/PIR Foam Insulation Obtained from Cellulose Production By-product - Tall Oil.*

### **10.40-11.10 Coffee break**

#### **11.10-11.40**

**H. Beneš**, A. Gawelczyk, S. Michałowski, J. Hodan, P. Horák, A. Prociak.. *Polyurethanes based on recycled polycarbonates.*

#### **11.40-12.00**

**M. Auguścik**, K. Mizera, D. Woronka, J. Ryszkowska. *Thermal and mechanical properties of polyurethane composites reinforced with glass frit and short carbon fibers.*

#### **12.00-13.00**

Poster session

### **13.00-14.30 Lunch**

#### **14.30-15.00**

**P. Król**, B. Król, K. Pielichowska, P. Szałański, D. Kobylarz. *Polyurethanes modified by hydroxyapatite as biomaterials.*

#### **15.00-15.30**

**J. Paciorek-Sadowska**, B. Czupryński, M. Borowicz, J. Liszkowska. *New polyurethane materials containing biofiller.*

#### **15.30-15.50**

**K. Sałasińska**, W. Zatorski, M. Celiński. *The synergistic effect of nanoparticles with flame retardants on the flammability of polyurethane foams.*

#### **15.50-16.10**

**M. Zieleniewska**, M.K. Leszczyński, M. Kurańska, A. Prociak, L. Szczepkowski, M. Krzyżowska, J. Ryszkowska. *Preparation and characterization of rigid polyurethane foams from rapeseed oil-based polyol for application in cosmetics industry.*

### **16.10-16.40 Coffee break**

## **16.40-18.00**

**Round table** – discussion on the subjects proposed by conference participants.

1. Blowing agents of new generation.
2. Reducing flammability of polyurethane materials – new solutions.
3. ???

## **20.00-24.00 Social Dinner**

### **11.09.2015 (Friday)**

#### **9.00-9.30**

**G. Rokicki**, M. Mazurek, K. Tomczyk. *Polyurethane elastomers based on carbonic and tartaric acid derivatives as renewable resources.*

#### **9.30-10.00**

M. Auguścik, B. Waśniewski, M. Krzyżowska, W. Karalus, J. Dąbrowski, **J. Ryszkowska**. *Influence of hard segment content on polycarbonate urethane properties for intervertebral disc implants applications.*

#### **10.00-10.20**

**M. Włoch**, J. Datta, W. Bucholc, B. Stefański. *Poly(urea-urethane)s obtained with using amine derivative of dimmerized fatty acids as a curing agents.*

#### **10.20-10.40**

**A. Bryśkiewicz**, M. Zieleniewska, J. Ryszkowska. *Modification of polyurethane elastomers designed for applications in friction systems transmitting the drive.*

#### **10.40-11.10 Coffee break**

#### **11.10-11.40**

**A. Prociak**, M. Kurańska, E. Malewska, L. Szczepkowski, M. Zieleniewska, J. Ryszkowska, J. Ficoń, A. Rzaśa. *Biobased polyurethane foams modified with natural fillers.*

#### **11.40-12.10**

**Sz. Bąk**, A. Prociak. *Flexible polyurethane bio-foams modified with rapeseed oil-based polyols and natural fillers.*

#### **12.10-12.30**

**E. Malewska**, A. Prociak. *Bio-polyurethane flexible foams modified with nanosilica.*

#### **12.30-13.00 Closing remarks**

#### **13.00-14.30 Lunch**

## Posters

**Monika Auguścik, Milena Zieleniewska, Łukasz Wierzbicki, Leonard Szczepkowski, Anna Bryśkiewicz, Joanna Ryszkowska** Polyurethane foams modified with rheological fluids

**Szymon Bąk, Aleksander Prociak** Flexible polyurethane foams prepared using mixing-dosing device

**Szymon Bąk, Elżbieta Malewska, Aleksander Prociak** Influence of isocyanate index on selected properties of flexible polyurethane foams modified with various bio-components

**Anna Bryśkiewicz, Joanna Ryszkowska** Influence of the different flame retardants on the properties of polyurethane foams

**Ewelina Chmiel, Jacek Lubczak** Polyurethane foams with 1,3,5-triazine ring and boron

**Dorota Głowacz-Czerwonka** Oligoetherols with 1,3,5-triazine ring based on the reactive solvents

**Dorota Głowacz-Czerwonka** Polyurethane foams from oligoetherols with 1,3,5-triazine ring

**Przemysław Dwornicki, Tomasz Pawlus, Krzysztof Placzkiewicz, Marek Barth** Jednokomponentowe piany poliuretanowe o obniżonej zawartości monomerycznych izocyanianów

**Ewa Głowińska, Janusz Datta, Marcin Włoch, Partycja Kopczyńska** Chemical structure, thermal and mechanical characterization of bio-based polyurethane composites filled with microcrystalline cellulose

**Pavel Horak, Hynek Beneš** Polyurethane foams based entirely on recycled polyols derived from natural oils.

**Jana Kredatusová, Hynek Beneš, Aleksandra Gawelczyk, Pavel Horák, Zdeněk Kruliš, Klára Kobetičová** Biodegradable polyurethanes for short-term outdoor usage

**Jacek Lubczak, Renata Lubczak** Melamine as additive and reactive flame retardant for polyurethane foams of enhanced thermal resistance

**Renata Lubczak** Polyurethane foams from oligoetherols obtained from carbazole, glycidol and oxiranes

**Jan Ozimek, Edyta Hebda, Sławomir Michałowski, Krzysztof Pieliowski** Synthesis and properties of rigid polyurethane foams reinforced with disilanolisobutyl POSS

**Sławomir Michałowski, Aleksander Prociak** Effects of bio-polyols based on rapeseed oil on the selected properties of flexible polyurethane foams

**Sławomir Michałowski, Aleksander Prociak, Zygmunt Dziechciowski, Andrzej Czerwiński** Open-cell flexible polyurethane bio-foams for sound absorbing applications

**Joanna Paciorek-Sadowska, Bogusław Czupryński, Marcin Borowicz, Joanna Liszkowska** Wykorzystanie bio-napełniacza do produkcji nowych tworzyw poliuretanowych

**Barbara Pilch-Pitera, Małgorzata Walczak, Ryszard Stagraczyński** Polyurethane powder clear coating systems modified by hyperbranched polyesters.

**Joanna Radwańska, Maria Kurańska, Leonard Szczepkowski, Aleksander Prociak** Scaling up the synthesis process of rigid polyurethane foams modified with the bio-polyol based on rapeseed oil

**Joanna Wojturska, Wiesław Frącz, Anna Ryczek** Preparation and characterization of polyurethane foams based on vegetable oil derived polyols

**Marcin Włoch, Janusz Datta** Novel non-isocyanate polyurethanes obtained by chemical modification of epoxy resin – synthesis, structure and properties

**Milena Zieleniewska, Michał K. Leszczyński, Maria Kurańska, Aleksander Prociak, Leonard Szczepkowski, Małgorzata Krzyżowska, Joanna Ryszkowska** Polyurethane foams from renewable materials and their application in cosmetics industry