

3rd Workshop

”Green Chemistry and Nanotechnologies in Polymer Chemistry”

(Program)

Monday, 24.09.2012 (Faculty of Chemical Engineering and Technology)

17.00-20.00 Registration

19.00-21.00 Welcome Reception

Tuesday, 25.09.2012 (Kotłownia)

8.30-13.00 Registration

9.00- 9.15 Welcome and Opening

I Session

9.15 T. Vlček: Versatile utilization of enzymatic catalysts for synthesis of functional monomers.

9.40 F. Barreiro: Biomass derived polyurethanes and polyesters.

10.05 A. Okruszek: Raw materials for fibrous polymer technology prepared on the basis of plant biomass.

10.30 D. Bogdał, A. Prociak, S. Michałowski: Preparation of polymer nanocomposites under microwave irradiation.

10.55-11.20 Coffee break

II Session

11.20 Z. Kowalski, A. Makara: Cleaner Technologies.

11.55 T.V. Phuong, P. Cinelli, S. Verstichel, A. Lazzeri: Copolymers from polyesters and reactive plasticizers for the production of biodegradable films for packaging.

12.20 H. Benes: New way how to recycle polycarbonate waste.

12.40 J. Datta, E. Głowińska, J. Haponiuk: Influence of the glycolysis agent on the structure of the glycolysates obtained from polyether-urethane wastes.

13.00-14.30 Lunch

III Session

14.30 A. Saralegi, B. Fernández-d’Arlas, I. Mondragon, M^a A. Corcuera, A. Eceiza: Synthesis and properties of bio-based segmented thermoplastic polyurethanes.

14.55 J. Czapiigo, R. Miller: Properties and performance of renewably sourced Susterra® 1,3-propanediol in polymer applications.

15.20 A. Fridrihsone, U. Stirna: Biobased rapeseed oil polyols and their use in polyurethane coatings.

15.40 H. Smogór: Determination of thermophysical properties of PU by means of thermal analysis methods.

16.00 T. Vlček: Enhanced properties of polyurethane elastomers containing organosolv lignin.

16.20-16.40 Coffee break

16.40-18.00 Poster session.

19.00-24.00 Social dinner (Prominent Club).

Wednesday, 26.09.2012 (Kotłownia)

IV Session

9.00 U. Cabulis, M. Kirpluks, J. Andersons: Rapeseed oil based polyisocyanurate foams modified with different type nanoparticles.

9.25 J. Andrzejewski, M. Barczewski, D. Czarnecka - Komorowska, J. Tomaszewska, T. Sterzyński: The modification of processing properties of thermoplastic polymers nanocomposites with silsesquioxanes.

9.50 M. Oleksy, M. Heneczowski, R. Oliwa, G. Budzik: Polyurethane compositions for rapid prototyping containing bentonites modified with silsesquioxanes.

10.10 G. Mitchener: Can PIR-nanofoam challenge aerogels?

10.30-11.00 Coffee break

V Session

11.00 J. Pulit, M. Banach: Possibility of using the raspberry extract as both a stabilizer and reducing agent in the process of receiving colloidal silver.

11.20 T. Vlček, H. Pawlik: Lipase catalyzed synthesis of green polyols for polyurethanes.

11.40 M. Kurańska, M. Kirpluks, A. Prociak, U. Cabulis: Rigid polyurethane foams obtained from rapeseed oil polyols filled with natural origin fibers.

12.00 U. Cabulis, A. Paberza, A. Arshanitsa: Wheat straw lignin as an additive filler for rigid polyurethane foams on the basis of tall oil amide.

12.20 E. Głowińska, J. Datta, J. Haponiuk: The mechanical properties of biopolyether-urethanes synthesized from bioglycols and hydroxylated soybean oil.

12.40 P. Rojek, T. Vlček, A. Prociak: Mechanical properties of polyurethane cast resins modified with different rapeseed oil polyols.

13.00 Final discussion and conference closing.

13.15 Lunch

Posters

- P1** M. Auguścik, M. Zieleniewska, M. Kirpluks, U. Cabulis, J. Ryszkowska: Polyurethane elastomers with tall oil polyols used as chain extenders.
- P2** M. Banach, J. Pulit: Method for obtaining silver nanoparticles.
- P3** O. Bartyzel, K. Pielichowski, T. Majka: The influence of nanofiller on product distribution of polypropylene-organically-modified montmorillonite nanocomposite pyrolysis.
- P4** S. Bednarz, M. Trątnowiecka, M. Fluder, D. Bogdał: Hydrogels prepared by in-situ cross-linking of biobased fluid eutectics.
- P5** G. Berkowicz, J. Baron, W. Żukowski, S. Kandefier, S. Szarlik, M. Zielecka, Z. Wielgosz, D. Jamanek: Study of decomposition of methanol during C-alkylation of phenol with methyl alcohol.
- P6** K. Bialik-Wąs, B. Tyliczszak, J. Ortyl, Z. Czech: The polymeric hydrogels synthesized by photopolymerization.
- P7** S. Dworakowska, D. Bogdał, F. Zaccheria, N. Ravasio: Polyurethane foams synthesized from stabilized rapeseed oil.
- P8** I. Franek, P. Czub: Characterization of epoxy compositions containing the pre-polymerized palm oil.
- P9** S. Gaidukov, V. Tupureina, U. Cabulis, U. Stirna: Nanoclay influence on rape seed oil based polyurethane characteristics.
- P10** M. Galica, A. Szczepaniak, D. Bogdał: Miniemulsion copolymerization: a simple and versatile way to luminescent nanospheres.
- P11** E. Głowińska, J. Datta, J. Haponiuk: The rheological properties of hydroxylated soybean oil by using bioglycols.
- P12** J. Górczyk, D. Bogdał: Solid epoxy resins based on binaphthol – study of the structure by MALDI-TOF/MS.
- P13** E. Jamróz, A. Para: Gelatin/furcellarane complexes for films formation.
- P14** M. Jancia, E. Hebda, K. Pielichowski, M. Dutkiewicz, B. Marciniak: Synthesis and characterization of polyurethane/polyhedral oligomeric silsesquioxanes (PU/POSS) nanohybrid materials: effect POSS on morphological properties.
- P15** D. Jankowski, W. Żukowski: Thermal decomposition of polyamide (PA 6) in a reactor with a bubble fluidized bed.
- P16** M. Jaworska, E. Sikora, J. Ogonowski: The effect of cosurfactants on the physicochemical properties on oleic acid-based nanoemulsions.
- P17** P. Kasza, P. Czub: Characterization of epoxy materials synthesized from modified soybean oil in the fusion process.
- P18** P. Kasza, P. Czub: Properties of epoxy materials based on modified soybean oil.
- P19** K. Królikowska, T. Fortuna, S. Pietrzyk, K. Pycia: Effect of copper ions on selected physicochemical properties of potato starch oxidized at different levels.
- P20** S. Kuciel, T. Prociak: Viscoelastic polyurethane foams modified with different isocyanates.
- P21** M. Kurańska, A. Prociak, M. Kirpluks, U. Cabulis: Flammability of rigid polyurethane foams obtained from rapeseed oil polyols.
- P22** M. Kurańska, D. Sobków, M. Sudoł, A. Prociak: The analysis of aging influence on porous polyurethane composites.
- P23** M. Kurańska, P. Rojek, A. Prociak: The possibility of application of ground walnut shells as fillers of porous polyurethane materials.
- P24** A. Leszczyńska, K. Pielichowski, B. Chen, R. Justin: Surface modification of microfibrillated cellulose (MFC) by acetylation-preparation and properties.

- P25** J. Lubczak, A. Łodyga, P. Tyński, M. Koziół, Z. Majerczyk, E. Chmiel-Szukiewicz, J. Duliban, D. Głowacz-Czerwonka, R. Lubczak, B. Łukasiewicz, I. Zarzyka: Oligoetherols and the polyurethane foams containing 1,3,5- triazine rings.
- P26** T. Majka, A. Leszczyńska, K. Pielichowski: Rheological investigations of nylon-6/montmorillonite nanocomposites with different filler content.
- P27** E. Malewska, A. Sabanowska, J. Polaczek: Influence of blowing agent content on RPURF-EPS composite foam core temperature and EPS bead diameters.
- P28** D. Malina, A. Sobczak-Kupiec, Z. Wzorek: Synthesis of gold nanoparticles by chemical reduction method.
- P29** S. Michałowski, M. Zbroiński: Rigid polyurethane foams modified with different types of montmorillonite.
- P30** M. Niemczyk-Wrzeszcz, P. Michorczyk: Catalytic performance of Cr/SBA-1 in the dehydrogenation of propane to propene in the presence of CO₂ – an effect of texture and specific surface area of support.
- P31** J. Ortyl, R. Popielarz: Fluorescence probes based on aminochromen-2-one as a research tool in real-time monitoring of photopolymerization processes by FPT method.
- P32** J. Pagacz, K. Pielichowski: Poly(vinyl chloride)/montmorillonite nanocomposites for enhanced structural applications.
- P33** H. Pawlik, A. Prociak: Influence of various natural oil polyols on properties of viscoelastic polyurethane foams.
- P34** K. Pietrzak, M. Auguścik, A. Prociak, J. Ryszkowska: The influence of dehydration temperature on the properties of the polyol based on rapeseed oil.
- P35** K. Pycia, L. Juszcak, I. Hebda, K. Królikowska: Characteristics of selected physicochemical and functional properties of maltooligosaccharides obtained by enzymatic hydrolysis of starch phosphates.
- P36** P. Rojek, M. Auguścik, J. Ryszkowska, A. Prociak, T. Vlček: The analysis of rapeseed polyol-based polyurethanes with different isocyanates.
- P37** A. Saralegi, L. Rueda, B. Fernandez-d' Arlas, I. Mondragon, M.A. Corcuera, A. Eceiza: Elastomeric polyurethane/CNC nanocomposites.
- P38** K. Sawicz-Kryniger, R. Popielarz: Effect of fluorescent probe bonding to monomer on its response.
- P39** P. Siekierka, K. Lewandowski, M. Tomaszewska, K. Skórczewska, K. Piszczek: Possibilities of waste chalk application as a filler to plasticized poly (vinyl chloride) PVC.
- P40** A. Sobczak-Kupiec, B. Tyliczszak, D. Malina, Z. Wzorek: Morphology of polymer composites contained hydroxyapatite.
- P41** J. Tomaszewska, T. Sterzyński: The dependence of properties of biocomposites with thermoplastic polymers on the wood fillers form.
- P42** J. Tomaszewska, S. Zajchowski, K. Krasowska, J. Mirowski: Processing properties and structure of hybrid composites PVC/wood flour/nanosilica.
- P43** B. Tyliczszak, K. Bialik-Wąs: Hydrogels modified by extracts from *Salvia officinalis*.
- P44** B. Tyliczszak, K. Bialik-Wąs, A. Sobczak-Kupiec, A. Tofilski: Acrylic hydrogels modified by bee pollen products.
- P45** B. Tyliczszak, K. Bialik-Wąs, A. Sobczak-Kupiec, P. Dulian: Effect of polyacrylate polymers dispersant on the properties of CaTiO₃.
- P46** O. Vogt, J. Ogonowski, M. Jaworska, P. Michorczyk: Green paint remover and stripper.
- P47** B. Waśniewski, J. Ryszkowska: Polyether urethanes nanocomposites for medical applications.
- P48** A. Wolska, J. Ryszkowska: Properties of flexible polyurethane foams modified by wood flour and expandable graphite additions.
- P49** A. Woynarowska, W. Żukowski, J. Baron: Study of exhaust gases composition during the incineration of electronic waste in fluidized bed.