



**UTP University of Science and Technology
Bydgoszcz – POLAND**



Faculty of Chemical Technology and Engineering

Plastic Materials Research Team

General subject of the research:

- **technology and physicochemistry of polymers, including polymer protecting coatings;**
- **polymer composites, specially nano-composites and polymer composites with natural fillers, especially wood flour;**
- **PVC modification; influence of mixture composition and processing conditions on the gelation of rigid and plasticized PVC;**
- **the new type of polymer material of reduced flammability;**
- **polymer material waste recycling;**
- **new methods of polymer properties testing.**

Team Members:

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	<p>Stanisław Zajchowski, Ph. D. D. Sc. - associated prof., Stanislaw.Zajchowski@utp.edu.pl +48 52 374 90 96</p> <p>1. Kruszelnicka I., Ginter-Kramarczyk D., Michałkiewicz M., Zajchowski S., Kloziński A, Tomaszewska J.: The use of wood-polymer composites in a moving bed biofilm reactor technology. <i>Polimery</i> 2014,5,423-426.</p> <p>2. Lewandowski K., Piszczek K., Zajchowski S., Mirowski J.: Rheological properties of wood polymer composites at high shear rates. <i>Polymer Testing</i> 2016, 51, 58-62</p>
	<p>Edwin Makarewicz Ph. D. D. Sc. - associated prof., Edwin.Makarewicz@utp.edu.pl +48 52 374 90 79</p> <p>1. Jeliński T., Cysewski P., Makarewicz E.: Application of alizarin colorimetric measurements for quantification of amine extraction by model food simulants from epoxy polymer. <i>Springer Plus</i> 2013,2,(1), 1-10.</p> <p>2. Makarewicz E., Michalik A.: Research on the influence of the type of surfactant and concentrator in aqueous dispersion of pigments. <i>Journal of Surfactants and Detergents</i> 2014, 17(4), 773-784.</p>
	<p>Joanna Kowalik, Ph. D, assistant profesor Joanna.Kowalik@utp.edu.pl +48 52 374 90 69</p> <p>1. Kowalik J., Zalewska A.: Właściwości fizykomechaniczne powłok akrylowych z dodatkiem azotanu didecyldimetyloamoniowego. <i>Przemysł Chemiczny</i> 2015, 7, 1125-1129.</p> <p>2. Zalewska A., Kowalik J ; Dyspersje akrylowe w przemyśle spożywczym. <i>Inżynieria i Aparatura Chemiczna</i> 2015, 5, 261-262.</p>

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	<p>Krzysztof Lewandowski, MSc, assistant,</p> <p>1.Lewandowski K., Piszczek K., Zajchowski S., Mirowski J.: Rheological properties of wood polymer composites at high shear rates. Polymer Testing 2016, 51, 58-62. 2.Piszczek K., Lewandowski K., Jagodziński B., Lewandowski M.: The Migration of the Plasticizers from PVC Cable Insulation. World Forum on Advanced Materials Polychar 24. Poznań 2016, 187-188.</p>
	<p>Jacek Mirowski, MSc, technical assistant</p> <p>1.Lewandowski K., Piszczek K., Zajchowski S., Mirowski J.: Rheological properties of wood polymer composites at high shear rates. Polymer Testing 2016, 51, 58-62.</p>
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