

carbon fibers: PMMA hybrid composite laminates. *Journal of Applied Polymer Science* 1998; 67, 1: 1925-29.

11. Ward IM, Hadley DW. *An Introduction to the Mechanical Properties of Solid Polymer*. Wiley, Chichester, 1993.
12. Barnes HA, Hutton JF, Walters K. *An Introduction to the Rheology*. Department of Mathematics, University College of Wales, Aberystwyth, 1989.
13. Liu H, Tao XM, Choi KF, Xu BG. Analysis of the relaxation modulus of spun yarns. *Textile Research Journal* 2010; 80, 5: 403-10.
14. Gersak J, Sajin D, Bukosek V. A study of the relaxation phenomena in the fabrics containing elastane yarns. *International Journal of Clothing Science and Technology* 2005; 17, 3/4: 188-99.
15. Matsuo M, Yamada T, Ito N. Stress relaxation behavior of knitted fabrics under uniaxial and strip biaxial excitation as estimated by corresponding principle between elastic and visco-elastic bodies. *Textile Research Journal* 2006; 76, 6: 465-77.
16. Sajin D, Gersak J, Flajs R. Prediction of stress relaxation of fabrics with increased elasticity. *Textile Research Journal* 2006; 76, 10: 742-50.
17. Pavlinic D, Gersak J. Investigations of the relation between fabric mechanical properties and behaviour. *International Journal of Clothing Science and Technology* 2003; 15, 3/4: 231-40.
18. CHAPMAN, B. M. A MODEL FOR THE CREASE RECOVERY OF FABRICS. *TEXTILE RESEARCH JOURNAL* 1974; 44, 7: 531-38.
19. Barid K. Relaxation shrinkage of worsted yarns. part I: some causes and some consequences. *Textile Research Journal* 1975; 45, 6: 442-52.
20. Asvadi S, Postle R. An analysis of fabric large strain shear behavior using linear viscoelasticity theory. *Textile Research Journal* 1994; 64, 4: 208-14.
21. Milasius R, Milasiene D, Jankauskaite V. Investigation of Stress Relaxation of Breathable-Coated fabric for Clothing and Footwear. *Fibres & Textiles in Eastern Europe* 2003; 11, 2: 53-55.
22. Hezavehi E, Shaikhzadeh Najar S, Zolgharnein P, Yahya H. A new electro-mechanical technique for measurement of stress relaxation of polyester blended fabric with constant torsional strain. *International Journal of Clothing Science and Technology* 2011; 23, N4, 5: 388-98.
23. Shaikhzadeh Najar S, Hezavehi E, Hoseini Hashemi Sh, Rashidi A. Investigation into wrinkle behavior of woven fabrics in a cylindrical form by measuring their tangential force. *International Journal of Clothing Science and Technology* 2009; 21, 1: 7-30.



XIPS 2013

9th International Conference on X-Ray Investigation of Polymer Structure

3-6 DECEMBER 2013, Zakopane, POLAND

XIPS 2013 is organised by the University of Bielsko-Biala and Catholic University of Leuven in collaboration with the Committee on Materials Science of the Polish Academy of Sciences

Deadlines:

- registration and payment: **15.09.2013**
- abstracts: **15.10.2013**

CONFERENCE TOPICS

The triennial XIPS conference provides a forum for discussions related to the present state of methods and achievements in structural investigations of polymers.

The conference will feature a wide range of topics, including:

- X-ray and neutron scattering techniques,
- X-ray imaging, IR and NMR spectroscopy in studies of polymers and their composites, colloids, porous media, membranes, surfactants and biomaterials
- Development of methods and techniques in X-ray studies of soft matter
- Software and databases for soft matter structure investigations
- Analysis of X-ray and neutron scattering data and modeling of material structure
- Morphology and thermal behaviour of polymer materials

Chairman of the INTERNATIONAL ADVISORY BOARD

Harry Reynaers

Catholic University of Leuven, Belgium

Contact

University of Bielsko-Biala
Institute of Textile Engineering and Polymer Materials
Willowa 2, 43-309 Bielsko-Biala, Poland
tel. (+48 33) 82 79 151 fax. (+48 33) 82 79 100
e-mail: mbasiura@ath.bielsko.pl
<http://www.xips.ath.bielsko.pl/>