

22. Yamada H, Suzuki k and Koizumi S. *Gene expression profile in human cells exposed to zinc* 2007; 32: 193-196
23. Sharma D, Rajput J, Kaith BS, Kaur M and Sharma S. Synthesis of ZnO nanoparticles and study of their antibacterial and antifungal properties. *Thin solid films* 2010; 519, 1224-1229.
24. Sawai J. Quantitative evaluation of antibacterial activities of metal oxide powders (ZnO, MgO and CaO) by conductimetric assay. *Jour of Microbiol Meth* 2003; 54: 177-182.
25. Rajendran R, Balakumar C, Hasabo AM, Jayakumar S, Vaideki K and Rajesh E M. Use of zinc oxide nano particles for production of antimicrobial textiles. *Int Jour of Engg, Sci and Tech* 2010; 2, 1: 202-208.
26. Stoimenov PK, Klinger RL, Marchin GL. Metal oxide nanoparticles as bactericidal agents. *Langmuir* 2002; 18: 6679-6686.
27. Zhang W, Ji JH, Zhang H, Zhao J, Yan W and Chu PK. Antimicrobial properties of copper plasma-modified polyethylene, *Polymer* 2006c; 47(21): 7441.
28. Yeo YS, Lee HJ and Jeong SH. Preparation of nanocomposite fibres for permanent antibacterial effect, *Jour Mater Sci* 2003; 38: 2413.
29. Yamamoto O, Hotta M, Sawai J, Sasamoto T and Kojima H. Influence of powder characteristic of ZnO on antibacterial activity-effect of specific surface area. *Jour Ceram Soc Jpn* 1998; 106: 1007.
30. ASTM F-316-03, Standard Test Methods for Pore Size Characteristics of Membrane Filters by Bubble Point and Mean Flow Pore Test .
31. OIE Terrestrial Manual 2012, Guideline 2.1, Laboratory methodologies for bacterial antimicrobial susceptibility-testing, <http://www.oie.int/enour-scientific-expertise/reference-laboratories/list-of-laboratories/>
32. ASTM E2149-01:2010, Standard test method for determining the antimicrobial activity of immobilized antimicrobial agents under dynamic contact conditions.
33. Singh G, Joyce EM, Beddow J and Mason TJ. Regular Article-Evaluation of Antibacterial Activity of ZnO Nanoparticles Coated Sonochemically onto Textile Fabrics. *Biotechnology and Food Sciences* 2012; 2(1): 106-120.
34. Zhang LL, Jiang YH, Ding YL, Povey M and York D. Investigation into the antibacterial behaviour of suspensions of ZnO nanoparticles (ZnO nanofluids). *Jour Nanopart Res* 2007; 93: 479.
35. Shantikumar N and Abilash S. Role of size scale of ZnO nanoparticles and micro particles on toxicity towards bacteria and osteoblast cancer cells. *Mater Sci* 2008;5: 3548.
36. Textor T, Farouk A, Moussa A, Ulbricht M and Schollmeyer E. ZnO modified hybrid polymers as an antibacterial finish for textiles. *TRJ* 2014; 84(1): 40.
37. Petruyte S. Advanced textile materials and biopolymers in wound management. *Danish Med Bull* 2008; 55(1): 72.

□ Received 19.08.2015 Reviewed 01.02.2016



LODZ UNIVERSITY OF TECHNOLOGY
DEPARTMENT OF KNITTING TECHNOLOGY
AND

POLISH TEXTILE ASSOCIATION

SCIENCE & TECHNOLOGY CONFERENCE

Knitt Tech 2017

in the fields of:

INNOVATIVE TECHNIQUES AND TECHNOLOGIES IN KNITTING

21-23 September 2017

Place of the conference: RESORT ŁAZIENKI II, CIECHOCINEK, POLAND

CONFERENCE SCOPE AND OBJECTIVES

The Knitting Conference Knitt Tech 2017 is a continuation of previously conducted business meetings of the representatives of knitting industry and companies specialized in making-up of knitted garments with manufacturers of textile machinery and equipment, representatives of finishing companies, scientists, members of the broadly understood sector of public administration responsible for EU programs, representatives of banks and leasing funds.

The aim of the conference is to promote and exchange knowledge in the area of innovative technologies of knitted garments and technical products, new trends in the sector of raw materials, hosiery and underwear, as well as computer CAD systems for knitwear designing.

The conference agenda also includes the issues of finishing and refining processes, giving the knitted fabrics new functional and utility features. The problems concerning market analysis, production profitability and efficiency in obtaining financial support from sectoral, regional and national programs will also be discussed.

The papers concerning current fashion trends in knitted fabrics and garments, as well as effectiveness of marketing activities in small and medium-size companies will definitely add attractiveness to the conference.

In addition, the conference is intended to be a discussion forum, where participants can share experiences and exchange views on the external factors influencing the knitting industry in Poland.

This time the meeting will be held in one of the most beautiful palaces in Ciechocinek, and the organizers will traditionally make every effort to run it in a relaxed atmosphere.

Conference Secretary:

D.Sc. Katarzyna Piekłak

phone: +48 42 631-33-38

e-mail: konferencja.dziewiarska@info.p.lodz.pl