

**XV JUBILEE INTERNATIONAL SCIENTIFIC-TECHNICAL CONFERENCE MAT-ECO-SHOES-2018**

**MAT-ECO-SHOES 2018**

Conference venue: Cracow, Sympozjum hotel conference hall, 47 Kobierzyńska Street

**CONFERENCE PROGRAM**

**03.12.2018 MONDAY**

**9:30 - 10:00 REGISTRATION OF PARTICIPANTS**

**10:00 - 10:15** Invitation. Presentation of Polish Chamber of Shoe and Leather Industry  
*Marek Górecki, President of Polish Chamber of Shoe and Leather Industry, Lodz, Poland*

**10:15 - 10:30** Presentation of Institute of Leather Industry  
*Arkadiusz Adamczyk, Director of Institute of Leather Industry, Lodz, Poland*

**SESSION I – FOOTWEAR FOR 60+ PEOPLE**

**Moderator: Izabela Pospiech**

**10:30 - 10:50** 60+ consumers – selected aspects of footwear  
*Zbigniew Olejniczak, Justyna Wójcik, Agnieszka Mileszczak, Institute of Leather Industry, Lodz, Poland*

**10:50 - 11:10** Automatic, self-locking shoelaces footwear  
*Dorota Werner, PFI, The Test and Research Institute, Pirmasens, Germany*

**11:10 - 11:30** Analysis of the needs of seniors regarding comfort footwear based on anthropometric and podologic examinations conducted within CORNET 60+ Shoe project  
*Bożena Rajchel-Chyla, Robert Gajewski, Małgorzata Janocha, Institute of Leather Industry, Cracow, Poland*

**11:30 - 12:00** Leathers  
*Krzysztof Śmiechowski, Kazimierz Pułaski University of Technology and Humanities in Radom, Poland*

**12:00 - 12:30 COFFEE BREAK**

**SESSION II – MATERIALS FOR FOOTWEAR AND CHARACTERISTICS OF THE FEET OF 60+ PEOPLE**

**Moderator: Izabela Pospiech**

**12:30 - 12:50** Deformations and other complaints of the lower limbs in seniors.  
*Wojciech Radło, Ortopedicum – Orthopedic Hospital, Cracow, Poland*

**12:50 - 13:10** Hazardous substances monitoring in materials possible to be applied in footwear for 60+ seniors.  
*Magdalena Lasoń-Rydel, Jolanta Jagiello, Małgorzata Krępska, Katarzyna Sieczyńska, Institute of Leather Industry, Lodz, Poland*

**13:10 - 13:30** Characteristics of plantar pressure distribution at people of 60+ age (research within a CORNET 60+ Shoe project)  
*Robert Gajewski, Bożena Rajchel-Chyla, Małgorzata Janocha, Institute of Leather Industry, Cracow, Poland*

**13:30 - 13:50** Investigation of moisture transport by textile materials  
*Małgorzata Matusiak, Lodz University of Technology, Faculty of Material Technologies and Textile Design, Lodz, Poland*

**13:50 - 14:10** Function of orthopaedic insoles in relieving the foot ailments at people 60+ age  
*Bożena Rajchel-Chyla, Robert Gajewski, Institute of Leather Industry, Cracow, Poland*

**14:10 - 14:30 Discussion**

**14:30 - 16:00 LUNCH – RESTAURANT OF SYMPOZJUM HOTEL**

**16:00 CRACOW SIGHTSEEING**

## SESSION III – NEW TECHNOLOGIES IN FOOTWEAR

Moderator: Katarzyna Ławińska

- 9:30 - 9:50** New tools make footwear value chain more sustainable  
*Maria J. Ferreira, Vera V. Pinto, José L. Rodrigues, Joana R. Gomes, CTCP, Footwear Technological Centre of Portugal, Portugal*
- 9:50 - 10:10** Foot scanning in UK, USA and China  
*Zach Armitage, SATRA Technology, UK*
- 10:10 - 10:30** Mass customization: systems and practical solutions for footwear production and trade  
*Ferenc Schmél, TechnOrg Consulting, Hungary*
- 10:30 - 10:50** Analysis of thermal absorptivity of selected material packages for footwear uppers  
*Wioleta Serweta<sup>1</sup>, Małgorzata Matusiak<sup>2</sup>, Zbigniew Olejniczak<sup>1</sup>, Agnieszka Mileszczak<sup>1</sup>, <sup>1</sup>Institute of Leather Industry, Lodz, Poland, <sup>2</sup>Lodz University of Technology, Faculty of Material Technologies and Textile Design, Lodz, Poland*
- 10:50 - 11:10** Footwear thermal comfort assessment by the infrared thermography technique  
*Saray Ricote-López, Monica Sanchís-Molla, Miguel Angel Martínez-Sánchez, Francisca Arán-Aís, INESCOP Center for Innovation and Technology, Spain*
- 11:10 - 11:30** Discussion
- 11:30 - 11:50** POSTER SESSION
- 11:50 - 12:10** COFFEE BREAK

## SESSION IV – FOOTWEAR COMMODITY

Moderator: Robert Gajewski

- 12:10 - 12:30** Plastics in footwear for 60+ people  
*Jacek Przepiórka, Kazimierz Pułaski University of Technology and Humanities in Radom, Radom, Poland*
- 12:30 - 12:50** New shoe collection for older and sensitive feet – DiaBinom by Alpina  
*Bostjan Novak<sup>1</sup>, Jana Kavčič<sup>1</sup>, Andreja Kopač<sup>1</sup>, Matija Jezeršek<sup>2</sup>, <sup>1</sup>Alpina d.o.o., Slovenia., Žiri, Slovenia, <sup>2</sup>Faculty of Mechanical Engineering, University of Ljubljana, Ljubljana, Slovenia*
- 12:50 - 13:10** Development of requirements for children's shoes  
*Nataliia Popovych<sup>1</sup>, Katarzyna Ławińska<sup>2</sup>, Wioleta Serweta<sup>2</sup>, <sup>1</sup>Lviv University of Trade and Economics, Ukraina, <sup>2</sup>Institute of Leather Industry, Lodz, Poland*
- 13:10 - 13:30** Hazardous chemical substances in footwear materials and footwear based on RAPEX system  
*Elżbieta Bielak, Cracow University of Economics, Faculty of Commodity Science and Product Management, Cracow, Poland*
- 13:30 - 13:50** Possibilities of using the material from the fig tree bark in products of the footwear and related industries  
*Piotr Olszewski, Joanna Alvarez, Magdalena Panek, Institute of Leather Industry, Cracow, Poland*
- 13:50 - 14:10** Discussion
- 14:10 - 14:30** SUMMARY AND CLOSING OF THE CONFERENCE
- 14:30 - 16:00** LUNCH – RESTAURANT OF SYMPOZJUM HOTEL

## POSTERS

- 1 Evaluation of some footwear materials in order to determine their functionality in final footwear  
*Wioleta Serweta, Zbigniew Olejniczak, Justyna Wójcik, Agnieszka Mileszczak, Institute of Leather Industry, Lodz, Poland*
- 2 Application of bamboo materials in textile footwear  
*Katarzyna Ławińska<sup>1</sup>, Wioleta Serweta<sup>1</sup>, Izabella Jaruga<sup>1</sup>, Katarzyna Sieczyńska<sup>1</sup>, Dominik Woźnicki<sup>1</sup>, Sebastian Decka<sup>1</sup>, Nataliia Popovych<sup>2</sup>, <sup>1</sup>Institute of Leather Industry, Lodz, <sup>2</sup>Lviv University of Trade and Economics, Ukraine*
- 3 Humidity thermal balance in the inner space as precondition for the comfortable footwear  
*Yuriy Fordzyun, Olga Andreyeva, Mukachevo State University, Ukraine*
- 4 The use of leather fillers based on alluminosilicates  
*Oksana Kozar, Petrus Boris, Mukachevo State University, Ukraine*
- 5 Epidemiology, causation and methods of fall prevention in elderly people  
*Robert Gajewski, Bożena Rajchel-Chyla, Anna Zięba, Institute of Leather Industry, Cracow, Poland*
- 6 Design solutions for 60+ people.  
*Teresa Ibek, Institute of Leather Industry, Cracow, Poland*
- 7 Material-constructural solutions for seniors' footwear that improve quality of its use  
*Joanna Alvarez, Institute of Leather Industry, Cracow, Poland*
- 8 Improved natural leathers for footwear and haberdashery  
*Michalina Falkiewicz-Dulik, Institute of Leather Industry, Cracow, Poland*
- 9 Development of innovative insoles for anti-aging  
*Nataliia Pervaia, Nataliia Prudnikova, Kyiv National University of Technologies and Design, Ukraine*
- 10 Analysis of selected properties of fabrics with the soybean protein fibres  
*Małgorzata Matusiak, Dominika Kamińska, Lodz University of Technology, Faculty of Material Technologies and Textile Design, Lodz, Poland*
- 11 Effect of quilting on selected thermal-insulation properties of textile multilayer packages  
*Małgorzata Matusiak, Gabriela Kosiuk, Lodz University of Technology, Faculty of Material Technologies and Textile Design, Lodz, Poland*
- 12 Footwear with anti-penetration inserts – do the inserts protect the foot sufficiently from punctures?  
*Agnieszka Mileszczak, Ewa Woźniak, Sebastian Decka, Arkadiusz Szymtke, Institute of Leather Industry, Lodz, Poland*
- 13 Legal requirements related to the content of hazardous substances in footwear  
*Katarzyna Sieczyńska, Małgorzata Krępska, Jolanta Jagiełło, Magdalena Lason-Rydel, Institute of Leather Industry, Lodz, Poland*
- 14 Modified polysaccharides application for antiseptic treatment of leather  
*Viktoriia Plavan, Olena Ishchenko, Ilya Resnytskyi, Iryna Liashok, Kyiv National University Technology and Design, Ukraine*

### DEVELOPMENT OF A HOLISTIC FOOTWEAR CONCEPT BASED ON USER-CENTRED DESIGN AND INTEGRATED SELF-MANAGEMENT TOOLS FOR ELDERLY (60+)

Project co-financed by the National Centre for Research and Development



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