

Final programme
of the
**8th Central European Conference on Fiber-Grade Polymers,
Chemical Fibers and Special Textiles**
Zagreb, Croatia, September 16th to 18th 2015

Wednesday 16th September 2015

17:00 – 18:00 Registration

University of Zagreb, Faculty of Textile Technology (TTF), Prilaz baruna Filipovića 28a, Zagreb (Building A, 4th floor)

18:00 – 20:00 Welcome party (A-302)

Thursday 17th September 2015

08:00 – 09:00 Registration

University of Zagreb, Faculty of Textile Technology (TTF), Prilaz baruna Filipovića 28a, Zagreb (Building A, 4th floor)

09:00 – 09:15 Opening ceremony (B-316)

09:15 – 10:00 Plenary lecture (B-316)

Chairperson: **A. M. Grancarić**

09:15 – 10:00 **T. Textor** (*Deutsches Textilforschungszentrum Nord-West GmbH, Krefeld, DE*): Sol-Gel-Based Finishing of Textiles

10:00 – 10:40 Lectures (B-316)

Chairperson: **V. Končar**

10:00 – 10:20 **M. Kurečić, S. Hribernik, N. Virant, A. Ojstršek, M. Sfiligoj Smole, K. Stana Kleinschek** (*University of Maribor, Faculty of Mechanical Engineering, SI*): Polysaccharide based nanofibers with pH-sensitive function

10:20 – 10:40 **B. Kolgjini, G. Schoukens, I. Kola, E. Shehi, P. Kiekens** (*Polytechnic University of Tirana, AL*): Third phase structure of heat treatment monofilaments and bending behavior

10:40 – 11:20 Coffee break (A-302)

11:20 – 12:40 Lectures (B-316)

Chairperson: **J. Broda**

11:20 – 11:40 **M. I. Glogar**; **I. Žiljak Stanimirović**, **Đ. Parac-Osterman** (*University of Zagreb, HR*): Some aspects of smart elements in contemporary military uniforms

11:40 – 12:00 **M. Puchalski**, **E. Skrzetuska**, **Z. Draczyński**, **I. Krucińska**, **L. Lipińska**, **J. Jagiełło**, **M. Aksienionek**, **W. Stupiński**, **P. Dąbrowski**, **Z. Sieradzki**, **I. Własny**, **M. Rogala**, **Z. Klusek** (*Lodz University of Technology, PL*): Graphene printing for textronic devices

12:00 – 12:20 **A. M. Grancarić**; **I. Jerković**; **C. Dufour**; **F. Boussu**; **X. Legrand**, **V. Končar** (*ENSAIT, FR*): Glass/polypropylene sensor yarns integration during weaving of 2D structure

12:20 – 12:40 **J. Diswat**, **L. Hes**, **K. Bal** (*Technical University of Liberec, Faculty of Textile Engineering, CZ*): Influence of pressure on thermal comfort properties of cut pile hand tufted Nylon and PAN carpets

12:40 – 14:00 Lunch (B-301)

14:00 – 15:20 Lectures (B-316)

Chairperson: **A. Majcen le Marechal**

14:00 – 14:20 **K. Jaksik**, **G. Seide**, **T. Gries** (*Institute for Textile Technology of the RWTH University, DE*): Melt-spun polyamide-filaments with TiO₂-nanoparticles: influence on thermal conductivity and tensile strength

14:20 – 14:40 **M. Petková**, **M. Hýlová**, **A. Ujhelyiová**, **J. Ryba** (*Slovak University of Technology in Bratislava, SK*): Physical modification of polypropylene fibres for silicate composites

14:40 – 15:00 **G. Rosace**, **J. Alongi**, **C. Colleoni**, **E. Guido**, **G. Malucelli** (*University of Bergamo, IT*): Halogen-free phosphorus-based hybrid silica coatings for conferring flame retardancy to cellulosic fabrics

15:00 – 15:20 **J. Broda**, **M. Rom**, **J. Grzybowska-Pietras**, **S. Przybyło**, **R. Laszczak** (*Institute of Textile Engineering and Polymer Materials, University of Bielsko-Biala, PL*): Application of textile wastes for the production of innovative geotextiles designed for erosion control

15:20 – 16:00 Coffee break (A-302)

15:30 – 16:30 POSTER Session* (B- 4th floor)

*Posters are posted from 8:00 till 17:00. During the poster session authors should be by the poster for open discussion.

POSTERS, Thursday 17th September 2015, 8:00-17:00

Advanced Fibers

- 1-A **R. Brunšek, A. Tarbuk, J. Butorac:** Bio-Innovative Flax Retting
- 1-B **M. Hricova, V. Hrabovska, A. Ujhelyiova:** Preparation of the Polypropylene Fibres with Content of Photochromic Pigments

Fiber and Textile Composites

- 2-A **J. Ryba, A. Ujhelyiová, T. Mackuľak:** Tensile Properties of Polypropylene/Halloysite Composite Fibres
- 2-B **E. Vujasinović, M. Pavunc Samaržija:** Aramid Sails
- 2-C **S. Stanković, D. Popović, A. Kocić, G. Poparić:** UV Protection Properties of Hemp/Tactel Hybrid Yarn Knitted Fabrics
- 2-D **A. Tomljenović, T. Rijavec, D. Kocjan Ačko; M. Međugorac, R. Vučica:** Evaluation of Fibres from Seed and Fibre Flax Varieties (*Linum Usitatissimum* L.) as a Potential Reinforcement of Polymer Composites

Technical Textiles

- 3-A **Ž. Penava, D. Šimić Penava, Ž. Knezić:** Influence of Testing Methods on the Shear Properties of E-Glass Woven Fabrics

Textile Modification

- 5-A **J. Mitić, G. Amin; M. Kodrić, M. Šmelcerović, D. Đorđević:** Polyester Fibres Structure Modification using Some Organic Solutions
- 5-B **J. Mitić, M. Kodrić, G. Amin; D. Đorđević, M. Šmelcerović:** Biomodification of Polyester Fabric Enhanced by Ultrasound
- 5-C **A. Tarbuk, A. M. Grancarić, I. Čorak:** Cutinase Hydrolysis of Poly(ethylene-terephthalate) Fabric
- 5-D **K. Višić, K. Grgić, A. Tarbuk, T. Pušić:** Ionic Surfactant Adsorption on Cationized Lyocell Fibers

Textile Dyeing and Finishing

- 6-A **L. Botteri, A. M. Grancarić, I. Filipčić, A. Tarbuk:** The Influence of Aluminosilicate on Thermal Properties of Cotton Fabric
- 6-B **S. Flinčec Grgac, A. Katović, I. Kljajić:** Influence of Alkaline Ultrasound Pre-Treatment on the Crosslinking Environmentally Friendly Flame Retardant Agent with Cellulosic Material
- 6-C **I. Matijević, S. Bischof, A. Sutlović, T. Pušić:** Determination of α -Tocopherol in Cosmetotextiles – UV/Vis Spectrophotometric Method
- 6-D **T. Rijavec, S. Jevšnik, I. Soljačić, K. Višić, A. Tomljenović, T. Pušić:** Modification of Fine Cotton Fabric with Floated Yarns in Washing and Wet Cleaning
- 6-E **J. Šesták, L. Balogová, P. Michlík, Š. Krivoš, V. Zimány:** Properties of Textiles from PP Fibres Modified with Multifunctional Additives

6-F **E. Toshikj, I. Jordanov, B. Mangovska:** Low-, Middle- and High-Level of Oxidized Cellulose Obtained by Different Oxidation Systems

6-G **A. Vojtovic, M. Cerny, L. Burgert, J. Palarcik, M. Vicek:** The Application of Microencapsulated Acid Dyes and Electrolytes to Dyeing Polyamide

Testing and Quality Control

7-A **V. Vlasenko, A. Arabuli:** Design of Layered Textile Composites with High Stability Structure

7-B **V. Vlasenko, L. Martinkova, S. Arabuli:** Application of Moisture Management Tester for Design of Multilayer Textile Composites

Textile Recycling

8-A **A. Majcen le Marechal, A. P. Aneja, A. Lobnik, B. Vončina, J. Volmajer Valh, S. Vajnhandl:** Resyntex: A New Circular Economy Concept: From Textile Waste Towards Chemical and Textile Industries Feedstock (Presentation of EU Project)

Ecology in Textiles

9-A **T. Dekanić, T. Pušić, I. Soljačić:** Herbal Extracts – Washing Agents for Coloured Fabrics?

Textile and Fashion Design

10-A **D. Begović, N. Bošnjak, J. Domjanić:** Design and Pattern Making of Functional Unisex Rainwear

10-B **V. Hajsan Dolinar, M. I. Glogar, Đ. Parac-Osterman:** The Effect of Colour Frequency in Every Day Clothing on Learning and Behaviour of Primary School Pupils

10-C **S. Kutnjak-Mravlinčić, S. Bischof, A. Sutlović:** Application of Additive Technology in Footwear Design

10-D **S. Renko, A. Grilec Kaurić, M. Lešina:** The Effect of Fashion Design on Impulse Buying

16:30 Closing remarks

20:00 8th CEC Dinner

Restaurant „Kaptolska klet“, Kaptol 5, Zagreb

Friday 18th September 2015

10:00-12:00 Old City Tour

Meeting at Ban Jelačić Square (*in Croatian*: Trg bana Josipa Jelačića) at 10:00