



## University of Zagreb Faculty of Textile Technology & AMCA TTF

invite you to a

# LECTURE

## Structure, Manufacturing, Properties and Testing of the Seersucker Woven Fabrics

held by **Professor Dr. Eng. Małgorzata Matusiak**

**Wednesday, May 20, 2026 | 11:00 AM**

Room **A-103** (Faculty Hall), Prilaz baruna Filipovića 28a, Zagreb

### Abstract:

Seersucker woven fabrics are characterised by an unique structure which influences their properties and possibility of measurement. Especially, the comfort-related properties of the seersucker woven fabrics are strongly influenced by their structure. Measurement of seersucker woven fabrics needs some adaptations of methods applied in measurement of standard fabrics. The lecture provides information concerning the unique structure of the seersucker woven fabrics, methods of their manufacturing, measurements of their comfort-related properties such a thermal resistance, thermal absorptivity in dry and wet state, water-vapour resistance, liquid moisture transport in relaxed and stretch state, the instruments such as: Alambeta, Permetets, Moisture Management Tester, MMT Stretch Fabric Fixture. Next, the lecture provides the information concerning the geometric structure of surface of the seersucker woven fabrics and surface components of the fabrics. Selected surface geometry parameters will be presented and explained in the context of sensorial comfort, and the contactless 3D optical method of surface measurement will be demonstrated on the basis of the profilometric measurement of selected fabric variants.

### Biography:



Professor Dr. Eng. Małgorzata Matusiak graduated the Faculty of Textiles from The Lodz University of Technology, Lodz Poland, holds a Doctorate degree in Spinning Technology and habilitation in Clothing Comfort. In February 2024 she received the title of Professor. Currently, she is a professor at the Institute of Textile Architecture within the Faculty of Textile and Design. Her current research and educational activity focuses on clothing technology, clothing design, comfort of clothing usage, textile material engineering, textile metrology, advanced fibres and materials. Prof. Matusiak is the chairwoman of the Council of Textile Studies responsible for developing and updating the study programs in field of textiles and fashion industry at the bachelor and master level. In the years 2019 – 2022 she was a chairwoman of the Main Committee of the National Olympiad of Knowledge and Skills in the Field of Clothing Design and Production. In years 2021 – 2024 Prof. Matusiak was a leader of Polish team implementing the Erasmus + project: „European Digital Readiness Strategy for Clothing” (E-DRESS). She is the author of 2 books, co-author of 3 books, author or co-author of 18 chapters in monographs, over 100 scientific publications, 3 patents, and numerous conference papers. She is a member of Fiber Society, International Cotton Researchers Association and ICCTM (International Committee of Cotton Testing Methods) at ITMF (International Textile Manufacturers Federation).