

**Topic of the Speech:**

Surface free energy of hemp fibers

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**MSc Eng. Barbara Romanowska** is a specialist in textile engineering, professionally affiliated with the Institute of Natural Fibres and Medicinal Plants – National Research Institute (INF&MP NRI) in Poznań. In 2009, she earned her Master of Science degree in Engineering, specializing in Textile Mechanical Engineering.

She began her professional career at INF&MP NRI in 2010 as an engineering and technical staff member at the Department of Innovative Textile Technologies, where she has been a research assistant since 2012. Concurrently, since 2011, she has worked as a specialist in the Textile Laboratory, and since 2017, she has held the key position of Quality Manager of the Institute's Accredited Research Laboratories. Her expertise has also been recognized in advisory role. Since 2019, she has represented the Institute in the Polish Committee for Standardization as a member of Technical Committee for Textile Raw Materials. In 2026, she was appointed to the Scientific Council of INF&MP NRI for the 2026–2030 term.

She is currently working on her doctoral dissertation regarding the surface properties of bast fibers at the Lodz University of Technology.

In her research work, she focuses on the surface free energy of textile raw materials, the characteristics of bast fibers, and their wide range of applications. She pays particular attention to studying the physiological comfort of textiles made from natural plant-based raw materials.

Barbara is also the author or co-author of several publications and participates in numerous research projects investigating the use of natural fibers.