

The **global textile industry is facing a radical change** and is looking for new environmentally friendly bio-based or CO₂-containing materials, feedstocks, dyes and finishes. We will show the current state of research and give an outlook on environmentally friendly textile innovations. In dialogue with suppliers to the textile industry and our textile researchers, we will discuss the chances and challenges of new environmentally friendly textile technologies.

In this edition, we are focusing on the topic of “**stretch fibers**“ from different angles.

The conventional elastane production requires currently the usage of potentially toxic solvents such as dimethylacetamide (DMAc). The use of these substances has recently been heavily restricted to almost a de facto ban in the EU, leading to an entire lockdown of the conventional European elastane fiber production.

In our webinar, we will present the latest results of our **BIOTEXFUTURE-project “CO₂Tex”**: New environmentally friendly, solvent-free produced stretch fibers. Additionally, we will shed light on the topic from technical and environmental perspectives, highlighting TPU as their raw material and their potential recycling options.

We look forward to a lively exchange in this new "Science – Dialogue".

Registration: www.biotextfuture.info

CREATE THE CHANGE

WEBINAR

27 MARCH 2025
14.00H – 16.30H

- 14:00 h – 14.05 h **Programme Start**
- 14:05 h – 14:30 h **BIOTEXFUTURE:**
Introduction of the innovation space –
„German based textile research for the global industry“ – Results and novelties.
Speaker: BIOTEXFUTURE / Marco Schmitt + Nicole Espey
- 14.30 h – 15:00 h **TPU (Thermoplastic Polyurethane): A new raw material for Stretch Fibers – Sustainable, Versatile and High-Performance Solutions**
Mark Scheller, Segment Manager, TPU, Covestro Deutschland AG
- 15:00 h – 15.30 h **Project “CO₂Tex“: New Elastic Yarns**
Melt-Spun Elastic Yarns as Ecological Alternatives for Conventional Elastanes
Jan Thiel, Deputy Project Lead of „CO₂Tex“, Institut für Textiltechnik of RWTH Aachen University (ITA)
- 15:30 h – 15:50 h **Elastane in Textile Sorting: One Challenge of Recycling Stretch Fibers**
Technical Challenges, Sorting Facilities and Outlook.
Speaker: Annika Ludes, Digital Solutions, STADLER Anlagenbau GmbH,
- 15:50 h – 16:30 h **Q&A and Discussion**

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