

## **T I T L E**

Yarn and fabrics development from Lyohemp® - first hemp based Lyocell fibre

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## **REFERENT**

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## **ABSTRACT**

Dissolving pulps made of alternative sources acquire more and more importance for covering the increasing requirements for cellulose pulp and man-made fibres (CMF) in the future.

The lecture will present results of company driven projects for pulp manufacturing from organically grown annual plants (OG hemp), applied as raw material for man-made Lyocell fibres.

For this purpose the presentation follows the path from

- the textile physical properties of Lyocell fibres from hemp pulp after direct dissolution in N-methylmorpholine oxide (NMMO) / water and solution spinning for following staple fibre spinning processes,
- yarn development up to 10 tex (Nm 100) yarn counts,
- exemplary fabric development by knitting processes
- up to finished and manufactured textile demonstrators.

The lecture will also discuss the potential for mixtures with native hemp fibres for yarn development and apparel applications.

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