

3rd Workshop of the French-Swiss Textile Research Group

January 26th 2023, Empa, St. Gallen, Switzerland

9:30 – 10:00: Welcome

10:00 – 12:00: Scientific exchange

(The duration of each talk is 15 min: 12 min presentation – 2 min discussion – 1 min change)

Part 1: POF (10:00 – 11:15)

1h15 min 5x15 min

- *Polymer Optical Fiber insertion by embroidery* — Corinne Jung and Abdul Rahman Asaad
- *Polymer Optical Fiber insertion in knitted structures as pressure and friction* — Lucas Bahin
- *Mechanical behaviour of polymer monofilaments : the case of POF* — Gilles Arnold
- *Microfluidic wet spinning of polymer optical fibres*— Khushdeep Sharma
- *Comparison of the PDMS and PDMS/THV POFs* — Elodie Morlec

Part 2: Electrospinning (11:15 – 12:00)

0h45 1x15 min, 1x30 min

- *Electrospinning and biomedical applications* — Floriane Leclinche and Elise Girault
- *Electrospun fibers for drug delivery and sensing applications* — Fabian IteI (30 min)

12:00 – 13:15: Lunch

13:15 – 14:15: Scientific exchange

Part 3: Microfluidic Wet spinning (13:15 – 13:45)

30 min 2x15 min

- *Microfluidic-Wet-Spinning (MWS): A Lego-Inspired Modular Device for Polymer Fiber Spinning* — Kongchang Wei
- *Microfluidic-Wet-Spinning (MWS): Green Spinning of Bio-Based Polymer Fibers* — Wuchao Wang



Part 4: Wetting and Moisture management (13:45 – 14:15)

30 min 2x15 min

- *X-ray Imaging Analysis of knitted fabrics water retention* — Florence Biguenet
- *Study of drying behavior for sports bras* — Ivona Jerkovic

14:15 – 15:30 : Visit (starting with a tour of the Nanospider room presenting by Gordon)

15:30 – 16:00 : Debriefing