

2nd Workshop of the French-Swiss Textile Research Group January 28st 2021

9:00 – 9:15 : Welcome

Part 1 POF

9:15 – 9:40 : A Modular Microfluidic Device for Hydrodynamic Spinning of Polymer Fibers *by Dr. Kongchang Wei*

9:40 – 10:05 : Study of Polymeric Optical Fibre mechanical behaviour for insertion in textile as sensors *by Lucas Bahin, Michel Tourlonias, René Rossi and Marie-Ange Bueno*

10:05 – 10:30 : Nano-Domains Assisted Energy Transfer in Amphiphilic Polymer Conetworks for Wearable Luminescent Solar Concentrators *by Chieh-Szu Huang*

10:30 – 10:45 : Coffee break

10:45 – 11:05 : Optical-fiber-sensor development by embroidery *by Romain GANDREUIL, Daniel MATHIEU, Corinne JUNG*

11:05 – 11:30 : Transversal compression of polymer monofilaments : case of Empa's shak006 fiber *by Mathieu JOANNES, Gilles ARNOLD*

11:30 – 12:00 : Discussion POF, upcoming actions

12:30 – 13:30 : Lunch break

Part 2 Wetting

13:30 – 13 :55 : Forced wetting of knitted textile : Tomographic study *by Florence Biguenet, Rolf Stampfli, Sascha Krügl, Dominique Dupuis, René Rossi and Marie-Ange Bueno*

Part 3 Masks

13:55 – 14:20 : ReMask' : Innovations for Swiss masks needed in pandemic situations *by Dr. Till Batt*

14:20 – 14:45 : Community Face masks tested at UHA *by Orlane Douguet, Karine Gautier, Valérie Tchamber, Gontrand Leyssens, Daniel Mathieu, Jean-François Brihlac and Marie-Ange Bueno*

14:45 – 15:10 : How long and how effective does a mask protects the wearer or the people in its environment from virus-laden particles : (in-silico) answers given by physics-based modeling – digital mask twins *by Flora Bahrami*

15:10 – 15:30 : Discussion Masks 2