

### 3. European industry and research exchange on Technical Textiles for Health, Medical and Sport Application on 8 and 9 October 2020, online event

Dear Madam or Sir,

it is our pleasure to invite you to the 3<sup>rd</sup> European meeting of experts for technical textiles, processes, ideas and research. Due to ongoing Covid-19 travel and meeting restrictions we will meet online this year.

In the last years participants and speakers from up to 15 countries attended the meetings in Frankfurt/Germany. We hope that this year's online event will attract even more European and international participants.

The event language is English. Participation is free of charge.

For any enquiries, please contact [stefan.schmidt@ivgt.de](mailto:stefan.schmidt@ivgt.de).

**Registration** before 6<sup>th</sup> October 2020 online: <https://lmy.de/tix7o> →



#### 08. October 2020 – 09h00 to 10h30 – TT Health Application 1

##### Welcome by the Organisers

Keynote: Outlook of the EU Research Activities – **Lutz Walter, ETP**

- RehaProTex - Textiles for Rehabilitation and Prophylaxis - a Saxon Network  
**Heike Illing-Günther, Sächsisches Textilforschungsinstitut e.V. (STFI)**
- Application of advanced materials and technologies in the development of smart textiles for health and sport industries. In this sense, wearables and smart textile-based devices obtained through the combination of advanced textile-based processes and printed electronics will be presented.  
**Marta Midão, Centre for Nanotechnology and Smart Materials (CENTI)**
- Our technical expertise in tapes and medical lamination textiles for making surgical draps and surgical / medical gowns.  
**Isabelle Colin, Vetex N.V.**

Q&A Panel for TT-Health 1 – **Chair: Lutz Walter, ETP**

## 08. October 2020 – 11h00 to 12h45 – TT Health Application 2

- Innovative system for the improvement of well-being and living conditions of the so-called "biologically fragile users" based on non-invasive traceability technologies for the evaluation of the effectiveness of non-pharmacological treatments.  
**Enrico Venturini, Next Technology Tecnotessile**
- Recent developments in the field of antimicrobial textile finishings - **Omid Etemad-Parishanzadeh, Deutsches Textilforschungszentrum Nord-West gGmbH**
- Medical textiles for cutaneous diseases  
**Radu Cezar-Doru, "Ghoerghe Asachi" Technical University Iași**
- Electro-Conductive Heating Fabrics for Orthopedic Compression Supports  
**Md Reazuddin Repon, Kaunas University of Technology**
- Textile additive manufacturing technology for automated processing of heart valve and bone implants **Ronny Brünler, Institut für Textilmaschinen und Textile Hochleistungswerkstofftechnik der TU Dresden**

Q&A Panel for TT-Health 2 – **Chair: Felipe Carrasco, EU-TEXTILE2030 EEIG**

## 08. October 2020 – 13h00 to 14h45 – TT Health Application 3

- Functional non-wovens and textiles based on colour-changing indicator dyes for monitoring health and wellness - **Gerhard Mohr, Joanneum Research Forschungsgesellschaft mbH**
- Fibres for medical applications: chitosan, collagen, silk and shape memory polymers  
**Robert Tonndorf, Institut für Textilmaschinen und Textile Hochleistungswerkstofftechnik der TU Dresden**
- Application potential of (electro-) thermally controlled muscle  
**Bianca-Michaela Wölfling, Hohenstein Institut für Textilinnovation gGmbH**
- Textiles for Biophysical Skin Care **Thomas Grethe, Forschungsinstitut für Textil und Bekleidung, Hochschule Niederrhein**

Q&A Panel for TT-Health 3 – **Chair: Kris Vermoesen, Fedustria**

Summary of the Day – **Stefan Schmidt IVGT**

### Please note:

- Information and slides will be available directly from the speakers.
- A list with speaker contacts will be available by the organisers.
- The list of the registered audience will not be made available due to data protection reasons.
- To secure the highest possible band with Microphone and Video of the audience will be deactivated.
- To ensure the time management the presentation length is limited to 15 minutes per speaker.
- Questions to the speakers can be send trough the chat function of the video tool.
- After each session of four presentation a panel with the speakers allows to ask question

## 09. October 2020 – 09h00 to 10h30 – TT Sports Application

### Welcome by the Organisers

**Keynote:** German Textile Research Outlook to 2035– **Johannes Diebel, FKT**

- Functionalized Cellulose-based Fibres: Innovation approach to develop innovative fibres solutions that are biodegradable and sustainably manufactured for high performance textile applications  
**Ilka Kaczmarek, Kelheim Fibres**
- Hygiene & Freshness for sportswear - **Stephan Müller, RUDOLF GmbH**
- ITA 3D-Knit: High Speed Production of Individual Sports Bras  
**Christoph Peiner, Institut für Textiltechnik der RWTH Aachen University**

Q&A Panel for TT-Sport – **Chair: Johannes Diebel, FKT**

## 09. October 2020 - 11h00 to 12h45 – TT Technologies

- The Sonochemical Coating of Textiles with Antiviral Nanoparticles  
**Aharon Gedanken, Bar-Ilan University**
- Washable Nonwovens versus Washable Wovens and Knitted Fabrics: State of the art and perspectives in infection control - **Caglar Sivri, Bahcesehir University**
- Review of enapsulation techniques for innovative, sustainable and added value technical textile products for comfort and wellbeing – **Amine Haj Taieb, University of Sfax ISAMS**

Smart Textiles for Energy Storage: From Advanced Functional Nanomaterials to High-Performance Textile Supercapacitors – **Clara Pereira, University of Porto, REQUIMTE/LAQV, Faculty of Sciences, Chemistry and Biochemistry Department**

- 4D textiles: Shape changing textile hybrid structures for medical applications  
**Hannah Koch, Institut für Textiltechnik der RWTH Aachen University**

Q&A Panel for TT-Technology – **Chair: Aldo Tempesti, SMI, TexClubTec**

## 09. October 2020 – 13h00 to 14h45 – TT PPE Application

- The use of personal protective equipment in everyday dental practice in the context of the covid-19 pandemic and the possibility of using smart textiles to facilitate work  
**Dijana Furundžić and Nikola Furundžić, Dental practice “Furundzic ordinacija”**
- Barrier function as an additional alternative to antiviral treatments on medical PPE fabrics  
**Thomas Seeger, Archroma Management GmbH**
- Improving the adhesion of seam sealing tapes for personal protective equipment (PPE) through the use of plasma technology **Kristina Klinkhammer, Forschungsinstitut für Textil und Bekleidung, Hochschule Niederrhein**
- 3D Printed Structures for Customized Protective Elements: Soft Prints with Tough Requirements - **Alexandra Glogowsky, Forschungsinstitut für Textil und Bekleidung, Hochschule Niederrhein**

Q&A Panel for TT-PPE – **Chair: Karine Wallois, CLUBTEX**

Summary of the Day – **Stefan Schmidt, IVGT**