

60th Dornbirn GFC WEBINAR WEEK



WEDNESDAY, 15. September 2021
Morning

Hall A

OPENING & KEYNOTES

9:00



Introduction and Opening

Friedrich Weninger

Managing Director Dornbirn GFC/Austrian Fibers Institute (AUT)

9:20



Frederic van Houte

MD CIRFS European Man Made Fibres Association (BEL)

Hilmar Fuchs Prof.

STFI, TU Dresden

„Awarding Paul Schlack/Wilhelm Albrecht Prize“

9:40



Lenzing

Innovative by nature

Robert van de Kerkhof

CCO Lenzing Group (AUT)

10:00



INDORAMA
VENTURES

Uday Gill

CEO Indorama Ventures (THA)

10:20



Martin Bethke

Managing Director WWF Germany (GER)

10.40

BREAK

11:00



Markus Mannström

Board Member, EVP Biomaterials Division
Stora Enso(FIN)

11:20



Huhtamaki

Eric Le Lay

President Fibre Foodservice Europe-Asia-Oceania, Huhtamaki (FIN)
President EPPA (European Paper Packaging Alliance)

11:40



oerlikon

Georg Stausberg

CEO Oerlikon Polymer Processing Solutions Division
Chief Sustainability Officer & Member of the Executive Committee
OC Oerlikon(SUI)

12:00



Panel Discussion:

Robert van de Kerkhof, Uday Gill, Martin Bethke,
Markus Mannström, Eric Le Lay, Georg Stausberg

Chaired by **Tobias Erikson**, MD EFESO Consulting



12:35

LUNCH & NETWORKING

60th Dornbirn GFC WEBINAR WEEK

WEDNESDAY, 15. September 2021
Afternoon

Hall A

FIBRE INNOVATIONS

- 13:30 **Development of Glass Fibre/PET Hybrid Yarn for Thermoplastic Composites**
Melis Eldem Heper
Korteks Mensucat Sanayi ve Ticaret A.S, Bursa (TUR)
- 13:50 **CarboBreak – Conditions and mechanisms for releasing alveolar fibrous carbon fibre fragments**
Marcel Hofmann et al¹, J. Ridzewski et al²
STFI¹, Chemnitz, IMA Materialforschung und Anwendungstechnik GmbH², Dresden (GER)
- 14:10 **Highest flame resistance of light weight composites based on basalt fibers**
Tobias Mader¹, K. Trommer²
Fulcoline GmbH & Co KG, Hofbieber, FILK gGmbH (GER)
- 14:30 **Spinning using UV-vis curing: a groundbreaking process for sustainable bio-based fibers**
Xavier Coqueret et al¹, A. Baillie et al²
Université de Reims Champagne Ardenne¹, Reims, IFTH², Ecully (FRA)
- 14:50 **Q&A and discussion**
Chairperson: Frederic van Houte
CIRFS Brussel (BEL)
- 15:10 **BREAK**
- 15:30 **Low cost carbon fibres: High-molecular weight Lignin combined with Low-Pressure Stabilization Technology**
Erik Frank¹, M. Claus², M. Buchmeiser³
DITF¹, Denkendorf, centrotherm internat. AG², Blaubeuren Institute of Polymer Chemistry (IPOC)³, Stuttgart (GER)
- 15:50 **High performance composites reinforced with plasma-treated bio-based and recycled fibres**
Ruth Garcia Campá
Leitat Technological Center, Terrassa (ESP)
- 16:10 **UV-LED-curing: A next-generation technology for textile industry**
Ralf Lungwitz
STFI e.V., Chemnitz (GER)
- 16:30 **Airbags - Safety and Sustainability**
Volker Siejak et al
Indorama Mobility Group / PHP Fibers GmbH (THA)
- 16:50 **Q&A and discussion**
Chairperson: Wilhelm Rauch
IVC, Frankfurt (GER)
- 17:10 **BREAK**
- 17:30 **Meltspinning of Hollow Fibers from Polymethylpentene for Gas Separating Membranes**
Martin Pelzer¹, V. Teplyakov²
ITA RWTH Aachen¹, Aachen, A.V. Topchiev Institute of Petrochemical Synthesis², Moskau (RUS)
- 17:50 **Ways to imagine sustainable nonwovens (biobased, light weight, recycled materials)**
Simon Fremeaux
Centi, Tourcoing (FRA)
- 18:10 **Modelling of the mechanical aging behavior of PLA-based nonwovens and monofilaments in filterrelevant conditions**
Ralf Taubner¹, C. Schippers²
STFI e.V.¹, TU Dresden, DTNW gGmbH, Krefeld (GER)
- 18:30 **Characterising moisture/fog droplet uptake on plants and textile structures in low wind speeds – physics, design requirements and their application**
Thomas Stegmaier et al
DITF, Denkendorf, Stuttgart (GER)
- 18:50 **Q&A and discussion**
Chairperson: Heike Illing-Günther
STFI, Chemnitz (GER)
- 19:10 **END OF DAY 1**

WEDNESDAY, 15. September 2021
Afternoon

Hall B

CIRCULAR ECONOMY & SUSTAINABILITY

- 13:30 **Title tbd**
Edwin Keh
HKRITA - The Hong Kong Research Institute for Textile and Apparel, Hong Kong (CHN)
- 13:50 **Title tbd**
Mauro Scalia
EURATEX, Brussels (BEL)
- 14:10 **Strategies for the reduction of textile based microplastic and their implementation in production processes in industry**
Ellen Bendt et al
Hochschule Niederrhein, Mönchengladbach (GER)
- 14:30 **Wood Based Cellulose Fibers in the view of the Single-Use Plastics Directive**
Axel Rußler et al
Lenzing AG (AUT)
- 14:50 **Q&A and discussion**
Chairperson: Jürgen Musch
Advansa GmbH, Hamm (GER)
- 15:10 **BREAK**
- 15:30 **Experimental approach providing a realistic assessment of fabric degradation in marine coastal waters**
Dimitry Deheyn
Marine Biology Research Division, Scripps Institution of Oceanography, University of California (USA)
- 15:50 **A self-awareness study on polyester-led microfiber pollution**
Mine Turkey
Korteks A.S, Bursa (TUR)
- 16:10 **Minimising microfiber emission in the life cycle of textiles: the Fiberclean project**
Juan Marcos Sanz
Textil Santanderina S.A., Cabezón de la Sal (ESP)
- 16:30 **Innocence working with Nature-Renewable developments with different approaches from Fiber Waste Dust**
Ali Ibrikli et al
Kipas Textile, Dulkadiroğlu/Kahramanmaraş (TUR)
- 16:50 **Q&A and discussion**
Chairperson: Isa Hofmann
IHofmann Consulting, Wiesbaden (GER)
- 17:10 **BREAK**
- 17:30 **Circular Knowledge is Power**
Karla Magruder
Accelerating Circularity, Campbell Hall (USA)
- 17:50 **Circular Economy: Sustainable concepts in the Viscose Fibre Production**
Roland Scholz et al
Kelheim Fibres, Kelheim (GER)
- 18:10 **On the possibility of biotechnological recovery of carbon fibers from fiber composites that are difficult to recycle**
Evelyn Konopka et al
Hohenstein Institut, Bönningheim (GER)
- 18:30
- 18:50 **Q&A and discussion**
Chairperson: Eric Jürgens
GROZ BECKERT, Albstadt (GER)
- 19:10 **END OF DAY 1**

60th Dornbirn GFC WEBINAR WEEK



THURSDAY, 16. September 2021
Morning

Hall A

THURSDAY, 16. September 2021
Morning

Hall B

FIBRE INNOVATIONS

9:00	<i>The new Developments of eco-friendly HYOSUNG Functional Materials(PET, Nylon and Spandex)</i> Yong-Joon Park Hyosung TNC, Seoul Korea (KOR)
9:20	<i>100% biobased textiles from PLA by industry</i> Stefan Hermanns¹, Simon Riepler² AMIBM ¹ , Geleen (NED), IFG Asota ² , Linz (AUT)
9:40	<i>A Novel Technology for Producing Polylactide Fibers Consisting of High-Melting-Temperature Stereocomplex Crystals</i> Takeshi Kikutani et al Tokyo Institute of Technology, Tokyo (JPN)
10:00	<i>Development of High-Molecular Weight PET/PP Islands-in-the-Sea Bicomponent Fibers for High Performance Thermoplastic Composites</i> Wan-Gyu Hahm, Ho-Dong Kim KITECH(Korea Industrial Technology), Ansan Korea (KOR)
10:20	<i>Q&A and discussion</i> Chairperson: Simon Riepler IFG Asota, Linz (AUT)
10:40	BREAK
11:00	<i>Excellent performance of polyester binder filament yarn and its application</i> Hiroki Murotani et al UNITIKA Ltd., Osaka(JPN)
11:20	<i>PEF - From Crop Waste to Polymer</i> Mark Steinmann¹, A. Kruse² DITF ¹ , Denkendorf, Uni Hohenheim ² , Stuttgart (GER)
11:40	<i>PEF-From Polymer to Product</i> Martin Dauner et al DITF, Denkendorf, Stuttgart (GER)
12:00	<i>Q&A and discussion</i> Chairperson: Robert Groten HS Niederrhein, Krefeld (GER)
12:15	LUNCH & NETWORKING
13:30	<i>Afternoon programme</i>

SURFACE MODIFICATION

9:00	<i>A promised additive to enhance functional multifilaments properties by melt-spinning</i> Stéphane Giraud et al ENSAIT/GEMTEX, Roubaix (FRA)
9:20	<i>The Development of lignin- based composites for the architectural material application</i> Dae-Kyung Seo, J.H.Kim DYETEC Institute, Daegu, MOORIM P&P, Seoul (KOR)
9:40	<i>Efficient, Luminous and Glow yarn</i> Carole Aubry-Meneveau et al Institut Français Textile Habillement (IFTH), Ecully (FRA)
10:00	<i>P-Eternity™ -the R-PET solution for Micro Filaments</i> Ralf Schellen IKV – Innovative Kunststoffveredelung, Premnitz (GER)
10:20	<i>Q&A and discussion</i> Chairperson: Dieter Eichinger Lenzing AG, Lenzing (AUT)
10:40	BREAK
11:00	<i>Metallization and Water Repellant Coatings on Textile Materials by a Novel Plasma Technology</i> Gregory Arnoult et al AGC Glass Europe S.A., Gosselies (BEL)
11:20	<i>New Spin Finish Technology to serve the Textile Chain</i> Gerhard Brändle CHT Germany GmbH, Oyten (GER)
11:40	<i>Key web accessories: Current developments and their influences on fabric production</i> Benjamin Götz GROZ-BECKERT, Albstadt (GER)
12:00	<i>Q&A and discussion</i> Chairperson: Alberto Ceria Lycra, Milan (ITA)
12:15	LUNCH & NETWORKING
13:30	<i>Afternoon programme</i>

60th Dornbirn GFC WEBINAR WEEK

THURSDAY, 16. September 2021
Afternoon

Hall A

FIBRE INNOVATIONS

13:30 *Strategies for successful market placement of technological developments*

Aras Erkin et al¹, D. Zschenderlein et al²
HYVE Innovate GmbH, München¹, STFI e.V.², Chemnitz (GER)

13:50 *Modification of PLA by reactive extrusion for industrial fiber applications*

Karl Moser et al, S. Riepler
Transfercenter Kunststofftechnik¹ Wels, IFG Asota² Linz (AUT)

14:10 *Title tbd*

Company XXX

14:30 *Diversification of Polyester Staple Fibre at the example of Permanent Hydrophilic Polyester*

Eberhard Brack
Märkische Faser GmbH, Premnitz (GER)

14:50 *Q&A and discussion*
Chairperson:

15:10 BREAK

15:30 R&D Packaging

15:50 R&D Packaging

16:10 R&D Packaging

16:30 *LENZING™ Web Technology - Recent Developments*

Katharina Gregorich
Lenzing AG (AUT)

16:50 *Q&A and discussion*
Chairperson:

17:10 BREAK

17:30 *Environmentally-Advantaged Fiber Technologies Without Biopolymers!*

Jeff Dugan
Fiber Innovation Technology, Johnson City (USA)

17:50 *Tailoring the mechanical properties of melt-spun biomaterials*

Edith Perret et al
Empa, St. Gallen (SUI)

18:10 *Cellulosic regenerated fibres in functional textiles: Problem solver microplastics in the environment?*

Karin Ratovo et al
Hochschule Niederrhein, Mönchengladbach (GER)

18:30 *Textile Traceability from Source To Retail with DNA-based Technology*

Emma Cavalli
Healixa, Kempththal Schweiz (SUI)

18:50 *Q&A and discussion*
Chairperson:

19:10 END OF DAY 2

THURSDAY, 16. September 2021
Afternoon

Hall B

CIRCULAR ECONOMY & MACHINERY

13:30 *Fiber Blowing Technologies for taylor made composite materials and circular economy*

Egon Förster
Fiber Engineering GmbH, Karlsruhe (GER)

13:50 *Disruptive recycling technologies for PET fiber to fiber recycling*

Axel Hannemann
Gneuss Kunststofftechnik GmbH (GER)

14:10 *Next Generation Recycling for all Polymer Fibers*

Uwe Neumann
NGR-Next Generation Recyclingmaschinen, Feldkirchen(AUT)

14:30 *Erema Group's new capabilities in Fibers Recycling including Examples as efficient Composites Recycling of PP Glass Organosheets*

Wolfgang Hermann
EREMA Plastic Recycling Systems, (AUT)

14:50 *Q&A and discussion*
Chairperson: **Arturo Andreoni**
Radici Group, Gandini (ITA)

15:10 BREAK

15:30 *Innovative Manmade Fibers Solutions to support the Circular Economy*

Markus Reichwein
Oerlikon Textile GmbH, Remscheid (GER)

15:50 *Sustainability Challenges & Opportunities in recycling used Cloths into Yarns*

Thierry Masy
ANDRITZ Laroche SAS, Cours (FRA)

16:10 *Title tbd*

Bettina Temath
Trützschler GmbH & Co. KG, Mönchengladbach (GER)

16:30 *Recycling of Garments consisting of Fibre Blends*

Hans Peter Schlegelmilch
imat-uve gmbh, Mönchengladbach (GER)

16:50 *Q&A and discussion*
Chairperson: **Walter Woitsch**
Syngroup, Vienna (AUT)

17:10 BREAK

APPAREL

17:30 *The New Drug Delivery Frontier: Clothing*

Jordan Schindler
Nufabrix, Conover (USA)

17:50 *Celliant® Viscose – World's first in-fibre sustainable infrared viscose*

Courtney O'Keefe¹, Dominik Mayer²
Hologenix-Inventors of Celliant^{®1}, Pacific Palisades, California (USA)
Kelheim Fibres GmbH², Kelheim (GER)

18:10 *Comfort in Protective Apparel*

Maria Persson¹, K. Kawamura²
Teijin Aramid B.V.¹, Arnhem(NED), Teijin Ltd.², Ehime (JPN)

18:30 *Applications and Measurements Methods of Radiant Heat Exchange of the Human Body – Opportunities and limitations of newly engineered fibers, fabric and finishes*

Emiel DenHartog
North Carolina State University Wilson College of Textiles, Raleigh (USA)

18:50 *Q&A and discussion*
Chairperson: **Reinhard Backhausen**
Backhausen Textile Consulting, Vienna (AUT)

19:10 END OF DAY 2

60th Dornbirn GFC WEBINAR WEEK



FRIDAY, 17. September 2021
Morning

Hall A

FRIDAY, 17. September 2021
Morning

Hall B

FIBRE INNOVATIONS

9:00	Brewed Protein™ fibers for use as artificial hair in wigs Sylvain Adamowicz et al¹ , H. Takahashi et al ² Spiber Inc. ¹ , Yamagata, Aderans Co. LTD ² , Tokyo (JPN)
9:20	Textile-to-textile recycling – an Industrial Evolution Harald Cavalli-Björkmann RENEWCELL, Stockholm (SWE)
9:40	Circular is the new black: Redefining how textile fibers are valued Petri Alava Infinited Fiber Company, Espoo (FIN)
10:00	Spinnova - The most sustainable textile fibre in the world Juha Salmela Spinnova, Jyväskylä (FIN)
10:20	Q&A and discussion Chairperson: Marina Cnoja-Cosic Kelheim Fibres, Kelheim (GER)
10:40	Q&A and discussion Chairperson: Marina Cnoja-Cosic Kelheim Fibres, Kelheim (GER)
11:00	Towards the Development of a New Lyocell Fiber Spinning Process Herbert Sixta et al Aalto University, Aalto (FIN)
11:20	Yarn and fabric development with Lyohemp™ - first hemp based Lyocell fibres Ina Sigmund¹ , R. Hefter ² , A. Weber ³ STFI ¹ , Chemnitz, Gebr. Otto Baumwollfeinzwirnerei ² , Dietenheim, A. Weber ³ , Wirsberg (GER)
11:40	Textile Recycling - Lenzing´s way forward Helena Claesson , Christian Weilach Södra Innovation, Skogsudden (SWE), Lenzing AG, Lenzing (AUT)
12:00	Q&A and discussion Chairperson: Clemens Bisjak Lenzing AG, Lenzing (AUT)
12:15	LUNCH & NETWORKING
13.30	Afternoon programme

APPAREL & FASHION & SUSTAINABILITY

9:00	Title tbd Nin Castle Reverse Resources, Tallinn, Estonia (EST)
9:20	Fashion on Demand – a paradigm shift in the Supply Chain Steffen Meiler Lectra Germany, Ismaning (GER)
9:40	Why and how to re-think the fashion & textile industry Aniela Hoytink MycotEX, Soest (NED)
10:00	Title tbd Maud Hardy Eco TLC – Refashion, Paris (FRA)
10:20	Q&A and discussion Chairperson: Giuseppe Gherzi Gherzi Consulting, Zurich (SUI)
10:40	BREAK
11:00	Dornbirn GFC & ISWA Lectures on New regulations & legislation on textiles: from fast fashion to sustainable consumption?
11:20	Q&A and discussion Chairperson: Andreas Bartl Technical University Vienna, Vienna (AUT)
11:40	
12:00	Q&A and discussion Chairperson: Andreas Bartl Technical University Vienna, Vienna (AUT)
12:15	LUNCH & NETWORKING
13.30	Afternoon programme

60th Dornbirn GFC WEBINAR WEEK

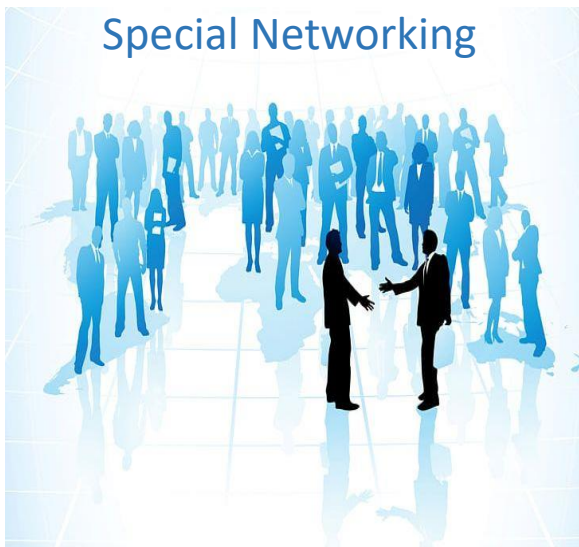
FRIDAY, 17. September 2021
Afternoon

Hall A

SURFACE MODIFICATION

- 13:30 **Reliable conductive yarns with unique electrical properties**
Samuel Bollmann¹, A. Krahmer²
imbut GmbH¹, TITV e.V.², Greiz (GER)
- 13:50 **Long-term resorbable fibroin fibers for biomimetic tendon and ligament implants**
Michael Wöltje et al
ITM TU Dresden, Dresden (GER)
- 14:10 **Optical sensor materials based on micro- and nanofibers, non-wovens and textiles**
Gerhard Mohr et al
JOANNEUM RESEARCH, Weiz (AUT)
- 14:30 **Controlled curing of UV curing adhesives with polymer optical fibres**
Jan Kallweit et al¹, R. Seewald et al²
ITA RWTH Aachen¹, Schweißtechnik&Fügetechnik², (GER)
- 14:50 **Q&A and discussion**
Chairperson: Karine Wallois
Clubtex, Tourcoing (FRA)

15:10 BREAK



17:00

END OF DAY 3

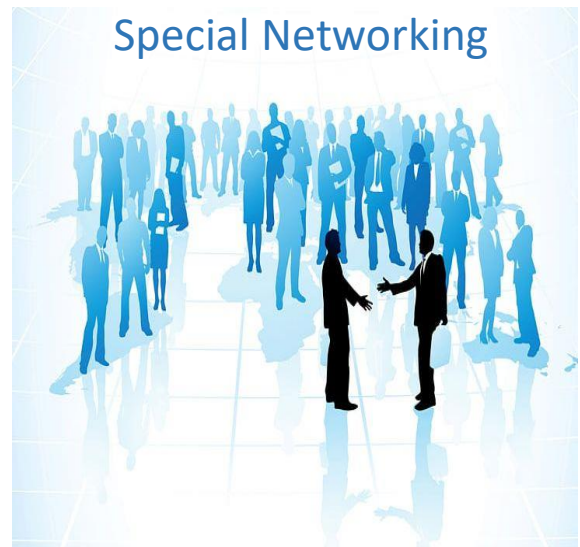
FRIDAY, 17. September 2021
Afternoon

Hall B

CIRCULAR ECONOMY & SUSTAINABILITY

- 13:30 Dornbirn GFC & ISWA
- Lectures on
- 13:50 **New regulations & legislation on textiles: from fast fashion to sustainable consumption?**
- 14:10
- 14:30 **Panel discussion**
- Chairperson: Andreas Bartl
Technical University Vienna, Vienna (AUT)

15:10 BREAK



END OF DAY 3