DORNBIRN GFC
GLOBAL FIBER CONGRESS

61st DORNBIRN GLOBAL FIBER CONGRESS
DORNBIRN-GFC

14 – 16 September 2022
Kulturhaus Dornbirn, Austria

PRE-PROGRAMME

Location:	Kulturhaus Dornbirn, Dornbirn, Austria
Time:	Wednesday and Thursday 9:00am - 06:00pm Friday 09:00am - 01:00pm
Early Bird:	Bookable until 31 May 2022: € 880,-
Hotel:	Booking possible on our homepage!

We are looking forward to your visit and introduce you to the speakers and their presentations in this pre-programme:

Fiber Innovation

Next Generation of Thermoplastic Polyurethane (TPU) Elastomeric
Lalith Bhargava Suragani Venu et al
Lubrizol Advanced Materials Inc., Ohio (USA)

LYCRA® Anti x Slip Fibre for High-Performance Wovens
Nicholas Kurland
The LYCRA Company, Wilmington (USA)

Shape memory filament yarns
Robert Tonndorf et al
ITM/TU Dresden, Dresden (GER)

TENCEL™ Luxe - The vegan alternative to silk
Markus Pichler
Lenzing AG, Lenzing (ATU)

Innovations in the Field of Oxide Ceramic Fibers
Bernd Clauß et al
DITF Denkendorf, Denkendorf (GER)

It's All About Carbon: Innovations in Fiber Coloration
Meredith Boyd
Unifi Manufacturing, Inc., Greensboro (USA)

Bio-Based Carbon Fibers: Increasing Carbon Yield and Mechanical Performance
Christoph Unterweger1 et al, J.Duchoslav2 et al
Wook K plus - Kompetenzzentrum Holz GmbH1, Johannes Kepler University Linz2, Linz (AUT)

Modeling and Simulation of Crystallization in Spinning Processes
Walter Arne et al
Fraunhofer ITWM, Kaiserlautern (GER)

BISFA - Pioneer in Standardization
Dieter Eichinger
CIRFS, Brussels (BEL)

Title tbc
Harald Cavalli-Björgmann
Renewcell, Stockholm (SWE)

Unlocking the potential of waste: The case for making regenerated fibers mainstream
Petri Alava
Infinited Fiber Company, Espoo (FIN)

HeiQ AeoniQ – cellulose based functional continuous filament yarn designed for climate, circularity, and scalability
Enrique Herrero Acero , HeiQ Materials AG, Schlieren (SUI)

Title tbc

Indorama

Title tbc
Eberhard Brack
Märkische Faser GmbH, Premnitz (GER)

Development of a Sustainable Menstruation Pants using Speciality Viscose Fibres
Natalie Wunder et al
Kelheim Fibres GmbH, Kelheim (GER)

Development of thermoresponsive fibers for smart textiles and investigation of their properties
Jiayan Gu et al, Albstadt-Sigmaringen University, Albstadt (GER)

Fibre solutions for more sustainable fibre-based products
Andreas Weinberger et al
IFG Asota, Linz (AUT)

Are PBS, PBAT, and TPS ready for industrial-scale melt-spinning?
Simon Schick1 et al, R. Grotten2
University of Maastricht -AMIBM[1], Geleen (NED), Hochschule Niederrhein[2], Mönchengladbach (GER)

Lyocell 2.0 - New Oportunities through Kneader based Dissolving Technology
Manuel Steiner[1], Ch. Stanev[2], F. Meister[3]
List Technology AG[1], Arisdorf (SUI), Evrnu, SPC[2], Seattle (USA), TITK[3], Rudolstadt (GER)

Title tbc

Perlon Nexstrusion Monofil GmbH, Bobingen (GER)

Production Of Boron Nanoclay Involved Boron Enrichment Process Waste Additive Sustainable Polyester Fibers
Sedat Kumartaşlı, Polyteks Tekstil A.Ş, Bursa (TUR)

Collaborative and innovative solutions for a sustainable society
Maria Persson
Teijin Aramid, Arnhem (NED)

Sustainable circular economy system for artificial turf with improved CO2 footprint
Dirk Hanuschik[1] et al, U. Berghaus[2]
RWTH Aachen[1], THINK TANK TECHNOLOGIES[2], Aachen (GER)

Trend Management meets Open Innovation: Best practice examples from Kelheim
Ilka Kaczmarek et al
Kelheim Fibres GmbH, Kelheim (GER)

New permanently antimicrobial modified Lyocell fibres
Uwe Landua[1], F. Meiser et al[2]
Largentec Vertriebs GmbH[1], Berlin, Thüringisches Institut für Textil- und Kunststoff-Forschrung[2], Rudolstadt (GER)

High-performance chitosan filament yarns from ionic liquids
Irina Kuznik et al
ITM, Dresden (GER)

Development of protective fibres & textiles with improved impact resistance properties
Paulo Teixeira et al
CeNTI, V. N. de Famalicão (POR)

Melt-spun manmade fiber with scalable nano-, submicro- and microstructured surfaces
Leopold Alexander Frankenbach et al, ITM, Dresden (GER)

Direct wet-spun-laid nonwoven deposition with highly porous aerogel fibers
Daniel Wolters[1] et al, M. Schirp-Schoenen[2]
RWTH Aachen[1],Lehrstuhl und Institut für Strukturmechanik und Leichtbau[2], Aachen (GER)

Luminescent optical fibers produced by bicomponent or liquid-core meltspinning
Rudolf Hufenus
Empa, St. Gallen (SUI)

Triboelectric fiber for energy autonomous smart-textile
Gaffar Hossain
V-Trion GmbH Textile Research, Hohenems (AUT)

Circular Economy & Sustainabiltiy

Title tbc
Selvam Puthuramudu Velmurugan
KG DENIM LTD, COIMBATORE (IND)

Development of biodegradable filament yarn from PHA polymer
Cansu Uldudoğan et al
Korteks, Bursa (TUR)

Title tbc
Maud Hardy
Re_fashion, Paris (FRA)

The Keys to Recycling: Sorting & Pre-processing
Karla Magruder
Accelerting Circularity, Campbell Hall, NY (USA)

Title tbc
Dimitri Deheyn
Marine Biology Research Division, Scripps Institution of Oceanography,University of California (USA)

Title tbc
Nin Castle
Reverse Resources, Tallinn (EST)

The SCIRT project: developing a circular value chain in Europe
Tom Duhoux
VITO, Mol (BEL)

Lenzing and Södra joining forces in improving post-consumer textile recycling
Anna Palme[1], Richard Herschl[2]
Södra Innovation[1], Skogsudden (SWE) Lenzing AG[2], Lenzing (AUT)

Innovative coloration for sustainable fibers
Christof Kujat
Sun Chemical Colors & Effects GmbH, Ludwigshafen (GER)

Biodiversity & wood-based cellulose fibers – Lenzing´s approach
K. Christian Schuster et al
Lenzing AG, Lenzing (AUT)

A development of method for elastane yarn wastes to be separated from elastane and returned to recycling industry
Aydin Oruc, Kipaş Textiles, Kahramanmaraş (TUR)

Stretch Garments to Recycled Articles
Ravi Vedula et al
Lubrizol Advanced Materials., Ohio (USA)

Melt spinning of CO2-based thermoplastic polyurethanes
Jan Thiel et al
RWTH Aachen, Aachen (GER)

Modification of all-cellulose composites for protection against environmental impacts
Tanja Schneck[1] et al, M.R. Buchmeiser[2]DITF Denkendorf[1], Institute of Polymer Chemistry (IPOC), University Stuttgart[2],Denkendorf, (GER)

Scaling Recycled Fibers from Textile Waste
Jean Hegedus
The LYCRA Company, Robbinsville (USA)

Innovations in Sewing Threads&Engineered Yarns for Sust. Fashion&Circular Economy
Ronan Cox
Coats, Uxbridge (UK)

Industrial waste recycling in fibre processing – the key to to higher efficiency
Axel Hannemann
Gneuss Kunststofftechnik GmbH, Bad Oeynhausen (GER)

Materials recycling of textile waste
Christoph Burgstaller
TCKT - Transfercenter für Kunststofftechnik GmbH, Wels (AUT)

Title tbc

Oerlikon Textile GmbH, Remscheid (GER)

Erema Group's way to circularity in fibrous materials
Wolfgang Hermann
EREMA Plastic Recyling Systems (AUT)

Recycling of Cellulases in a circular economy approach for textile waste
Sophia Mihalyi et al
University of Natural Resources and Life Sciences Sciences Vienna, Tulln an der Donau (AUT)

Research through Practice - Challenges in the Spinning Process with Recycled Fibres
Michael Will[1], B. Egloff[2]
Rieter AG[1], Winterthur, Hochschule Luzern[2], Luzern (SUI)

Title tbc

Alkaline and enzymatic hydrolysis of cotton / polyester textile waste
Pablo Kählig et al
TU Wien, Wien (AUT)

REACT a tool for impurities problems in outdoor sector recycling
Daniele Piga[1] et al, R. Vannucci[2] et al
Centrocot[1], Busto Arsizio, Ferrari[2], Sovio (ITA)

HEREWEAR: Empowering local, circular & bio-based textiles
Lien Van der Schueren et al[1], A. Ota [2],
Centexbel[1], Zwijnaarde (BEL), DITF[2], Denkendorf (GER)

Nylon dissolution and recovery from fiber blends for recycling
Avinash P. Manian et al
Research Institute of Textile Chemistry/Physics, University of Innsbruck, Innsbruck (AUT)

Evaluation of different end-of-life scenarios for textile polyester waste streams
Amrei Becker[1] et al, M. Gausmann[2]
Institut für Textiltechnik[1], Aachener Verfahrenstechnik der RWTH[2], Aachen (GER)

Nonwovens

Biobased sustainable hygiene products
Patrick Engel
Saxon Textile Research Institute e.V., Chemnitz (GER)

Innovative graphene-modified nonwoven materials for wastewater treatment
Igor Kogut et al
Hohenstein Institut für Textilinnovation gGmbH,Boennigheim (GER)

Introducing long-chain branching for diameter control of melt-blown PP fibers
Takeshi Kikutani[1] et al, K. Liba[2]
Tokyo Institute of Technology[1], Yokohama, Kanagawa, Mitsui Chemicals[2], Chiba (JPN)

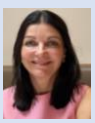
New method to analyze clouding in nonwoven production a. High resolution system to detect 5µm holes fully automated
Andreas Blin et al, Robomat GmbH, Freilassing (GER)

LENZING™ Web Technology – potentials for wipe applications
Katharina Gregorich
Lenzing AG, Lenzing (AUT)

MERALUX: a unique fibre to improve nonwovens performances and sustainability
Jerico Biagiotti
Beaulieu Fibres International Terni S.r.l., Terin (ITA)

SABIC Novel Material Solutions for Growing and Changing Hygiene Industry Market
Francois Courtecuisse
Sabic, Bergen (NEL)

Apparel & Sports



The challenge of "New Luxury" for the Textile and Clothing Industry
Susanne Müller
Hochschule Niederrhein, Mönchengladbach (GER)

Success factors for last mile fashion e-Commerce deliveries
Natalie van Bentum[1] et al, U. Clausen[2]
Hochschule Niederrhein[1], TU Dortmund a. Fraunhofer Int. [2], Dortmund (GER)

Long-term quality of recycled polyester sports clothing
Lars Claußen[1] et al, D. Ruzi[2]
Loughborough University[1], Loughborough (UK), adidas AG[2], Herzogenaurach (GER)

A new perspective: the future of 100 % recyled cotton, the circular economy and recycling machinery from a young woman`s eyes
Annabelle Hutter et al, Säntis Textiles Pte Ltd, Paya Lebar (SIN)

High speed body scanning as a new chance for dynamic optimisation of sports wear
Yordan Kyosev et al
TU Dresden, Dresden (GER)

Evaluation of ergonomic comfort of trekking backpacks
Ada Ferri et al
Politecnico di Torino, Torino (ITA)

Calorimetric methods in textile development
Boris Bauer
DITF Denkendorf, Denkendorf (GER)

Chasing Cool: Creating Next-Generation Cooling Textile Technology
Courtney Cruzan
brrr°, Atlanta (USA)

Smart & Functional Surface

Environmental measures with new technology of spin finish oil for PET fiber
Yoshihiro Takayama et al
Takemoto, Gamagori-city, Japan (JPN)

iTex-4-MoRe – Intelligent Textiles for physiotherapy in mobile rehabilitation
Patricia Martin et al
Textilforschungsinstitut Thüringen-Vogtland e.V., Greiz (GER)

Develop. of Mattress Pad that Applies Electrical Stimulation Preventing Pressure Ulcers Formation
Berin Hacıoğlu[1] et al, H. Alisoy[2], Zorluteks Tekstil A.S.[1], Kirklareli, Tekirdag Namik Kemal Univ.[2], Corlu (TUR)

Development of intelligent fibers to generate textiles with thermoresponsive and optical indicator properties
Svenja Kloss et al, Albstadt-Sigmaringen University, Sigmaringen (GER)

Electrically conductive monofilaments: improved processability using a two-phase system
Birgit Stubbe[1] et al, Chr. Hübner[2] et al, CENTEXBEL[1], Zwijnaarde, (BEL), Fraunhofer ICT[2], Pfinztal (GER)

Fibers for automotive interior lighting applications
Paulo Cardoso[1] et al, C. Oliveira[2] et al , J. Coehlo[3]
CeNTI[1], Vila Nova de Famalicão, CITEVE[2], Vila Nova De Famalicao, Simboldes[3], Oliveira de Azeméis (POR)

Silverized Cotton
Esther Rohleder[1] et al, T. Tüfek[2]
Hochschule Niederrhein[1], Mönchengladb., Statex Produktions- und Vertriebs GmbH[2], Bremen (GER)

Multi-functional cellulose text. with increased radiation protection a. skin care effect
Kristina Klinkhammer[1] et al, M. Krieg2, B. Mahltig[3]
Hochs. Niederrhein[1], Mönchengladbach, TITK[2], Rudolstadt, Niederrhein Uni. of Applied Sciences[3] (GER)

Surface Activation and Functionalization of Membranes by Plasma Treatments
Núria Portolés Gil et al
Leitat, Terrassa, Barcelona (ESP)

Spinning ionic electroactive polymer monofilaments for use in actuator structures
Mathis Bruns et al
TU Dresden ITM, Dresden (GER)

Flexible and reliable conducting structures on textiles: A new approach
Annika Gambke et al
Textile Research Institute Thuringia-Vogtland e.V., Greiz (GER)

Development of a smart textile to improve thermal comfort
Javier Vera Sorroche[1] et al, J.Lejeune[2] et al
CETI (European Center for Innov. textiles)[1], Tourcoing, Univ. Lille, ENSAIT, GEMTEX[2], Lille (FRA)