PRE-PROGRAMME
As per April 2019

Congress Themes

- Fiber Innovations
- Circular Economy and Recycling
- Digitalization and Smart Textiles
- Surface Modification and Additives
- Sports and Leisure Wear
- Nonwovens and Technical Textiles

Simply register online:
www.dornbirn-gfc.com
DEAR PARTICIPANTS!

As part of the “Dornbirn-GFC Innovation Community”, we would already like to announce 100 international speakers from industry and research, who will present the latest innovations of the fiber and textile industry from September 11 – 13, 2019 in Dornbirn.

A few Highlights of this Year’s Congress: The “Creme de la Creme” of the fiber industry will be present at the 58th Dornbirn-GFC 2019. This year, the congress is entirely dedicated to the topics of sustainability and digitalization. Thus, the top-class lead sponsor Lenzing Group, Indorama Ventures as well as Märkische Faser will be expected as important partners.

The 58th Dornbirn-GFC 2019 would especially like to offer the platform to young companies by organizing a “Startup” Event in cooperation with Pricewaterhouse-Coopers (PwC), a worldwide leading and internationally operating auditor and consulting firm.

The global players Microsoft and Palo Alto Networks will be supporting the congress with their know-how within the software market.

Austrian’s federal minister for Digitalization and Economic Affairs as well as high-level industry leaders of Lenzing, Indorama Ventures, Oerlikon, Microsoft, Palo Alto Networks, PwC and others are looking forward to highly interesting panel discussions.

Because of being the world’s biggest Fiber Innovation Congress, the Dornbirn-GFC has been an inherent part in the calendar of over 700 participants of more than 35 nations. Seize the opportunity to be part of the event.

We are looking forward to seeing you again in Dornbirn!

Yours Friedrich Weninger
Chairman Programme Committee
Dornbirn-GFC
FIBER INNOVATIONS

JEI MCKINNEY
Encapsys, Appleton (USA)
*Advancement in the microencapsulated PCM (Phase Change Material)*

PHILIPP KÖHLER et al
TITK, Rudolstadt (GER)
*Characterization of the properties of infrared-active fibers and textiles*

GUNNAR SEIDE¹, WOLFGANG HERMANN²
Maastricht University (AMIBM)¹, Geleen (NED), IFG Asota GmbH², Linz (AUT)
*A new unique industrial trial facility in the heart of Europe – New models of collaboration*

ROLF-DIETER HUND¹
N. H. An Tran² et al, ITM der TU Dresden¹, Dresden, Leibnitz-Institut für Polymerforschung Dresden², Leibnitz (GER)
*Advances in the melt spinning of bicomponent fibres*

RUDOLF HUFENUS
K. Jakubowski, Empa, St. Gallen (SUI)
*Flexible Polymer Optical Fibers Produced by Bicomponent Melt-spinning*

MARKUS REICHMANN
Oerlikon Textile GmbH, Remscheid (GER)
*Title to be defined*

MTHOKOZISI SIBANDA¹
W. Focke², A. Leuteritz³, African Applied Chemical Ltd.¹, Persequor, University of Pretoria², Pretoria (RSA), Leibnitz-Institut für Polymerforschung³, Dresden (GER)
*Bicomponent fibres for controlled release of volatile mosquito repellents*

ELISE THÉCUA¹,²
C. Nocito¹, S. Mordon², MDB Texinov¹, La Tour Du Pin, University Lille², Lille (FRA)
*Innovative medical device: Light emitting textile for dermatologic treatment*
FIBER INNOVATIONS

STEFAN TOPP
B. Armbruster, Topp Textil GmbH, Durach (GER)
Innovative textile composites based on extrusion technology to achieve high functional, ecological and economic benefits

CHOKRI CHERIF1
N. H. An Tran1 et al, T. Bönke2 et al, P. Hartel3 et al, D. S. Wolz4 et al, M. Müller5 et al, ITM der TU Dresden1, Dresden, Germany
Microporous HDPE-based carbon fibers as cathodes for Li-S batteries

JENS PETZOLD
CeraFib GmbH, KI Keramik-Institut GmbH, Meißen (GER)
Silica fibers and their composites

STEFAN SCHLICHTER
ITA Augsburg, Augsburg (GER)
Web Based Composites – new potential for thermoplastic fiber materials

MICHAEL CORDIN
T. Bechtold, T. Pham, Institut für Textilchemie und Textilphysik, Dornbirn (AUT)
Preparation and Characterization of polymer-self-reinforced composites

ROLAND ZIRBS
Universität für Bodenkultur, Vienna (AUT)
Universal melt modification method for the synthesis of core-shell-nanoparticles with ultra-high grafting densities

PAVAN KUMAR MANVI
T. Gries, ITA der RWTH Aachen, Aachen (GER)
Melt spun thermoplastic polyurethane filaments: An alternative of conventional solution spun spandex filaments

NGUYEN HOAI AN TRAN1 et al
J. Kemnitzer2 et al, ITM der TU Dresden1, Dresden, Germany
An eco-friendly post-drawing process for splitting bicomponent filaments

SELLI FIGEN
Ü. H. Erdoğan, Dokuz Eylul University, Buca-Izmir (TUR)
Enhancing the Production of Polyhydroxyalkanoate (PHA) Melt-spun Filaments and Role of Processing Aids

YOUJUAN ZHANG, LEI ZHANG
K. Honda, Toray Fibers & Research Laboratories (China) Co. Ltd., Jangsu (CHN)
Development of PPS fabric separator used in hydrogen production equipment

Additional lectures are in preparation. Please find updates on the congress homepage www.dornbirn-gfc.com
CIRCULAR ECONOMY UND RECYCLING

ULRICH BISCHOFF
Wolford AG, Bregenz (AUT)
Title to be defined

KARLA MAGRUDER
Fabrikiology International, Campbell Hall (USA)
Missing Links by the Accelerating Circularity Group

SARAH-JEANNE ROYER
D. Deheyn, Marine Biology Research Division, Scripps Institution of Oceanography, La Jolla (USA)
About plastics and microfibers in the environment: What can we do about it?

SABRINA KOLBE¹ et al
N. Espey², HS Niederrhein¹, Mönchengladbach, Bundesverband der Deutschen Sportartikel-Industrie³, Bonn (GER)
Development of functional textiles with reduced output of synthetic microparticles

MARCO DE SILVESTRI
RadiciGroup, Gandino (ITA)
A further step towards a real sustainable supply chain in synthetic fibres

GEROLD BREUER
EREMA Group, Ansfelden (AUT)
The next level: plastics recycling and its contribution to the circular economy – Lighthouse projects, digitalisation and state of the art recycling technology

FRANK GÄHR¹
T. Veit², DITF¹, Denkendorf, Fuchshuber Techno-Tex GmbH², Lichtenstein (GER)
Recycling of High Performance Fibre Polymers with Ionic Liquids

JEAN-LUC DERYCZE
Retex Inc., Moravský Krumlov (CZE)
Development and realization of yarns, fabrics and garments made from fibres from post-consumer textile material

CIRCULAR ECONOMY UND RECYCLING

SASCHA SCHRIEVER
D. Wolters, T. Gries, ITA der RWTH Aachen, Aachen (GER)
Recycling of polyacrylonitrile – A technical and economic approach

EBERHARD BRACK
Märkische Faser GmbH, Premnitz (GER)
Title to be defined

ALI IBRIKÇI¹ et al
G. Kaya², Kipas Textile¹, Dulkadiroğlu, Kahramanmaras Sutcu Imam University², Onikişubat (TUR)
Development of Sandwich Composites by Using Paper and Aramid Fibre Wastes

THIERRY LE BLAN
CETI, Tourcoing (FRA)
Reinventing the end of life of cotton textiles in order to design textile goods more responsible

BIRGIT STUBBE¹ et al
N. Kimpe², L. Thomas³ et al, Centexbel¹, Zwijnaarde, Vanheede², Geluwe, Procotex³, Dottignies (BEL)
The valorisation of textile waste in short fibre reinforced plastics

JANE WANG
Eleather Group, Peterborough (GBR)
Transforming leather waste into innovative composite products

AUGUSTA MARINHO¹ et al
A. Afonso², P. Magalhães³ et al, J. Gaião⁴, V. Sá⁵ et al, S. Fernandes⁶, CITEVE³, VN Famalicão, Têxteis Penedo², Guimarães,TINTEX - TEXTILES³, V.N. de Cerveira, CTIC⁴, Alcanena, Sedacor⁵, São Palo de Oleiro, CeNTI⁶, Vila Nova de Famalicão (POR)
Textile valorisation with vegetal waste and by-products for development of Vegan Leather

MARTINA OPIETNIK
Lenzing AG, Lenzing (AUT)
Lyocell with ecocycle technology – Applied circular economy
CIRCULAR ECONOMY UND RECYCLING

ALBIN KÄLIN
EPEA Switzerland GmbH, Bäch (SUI)
Cradle to Cradle® Design Innovation – Rethinking the way we make things

FELIX STUTZ
LITRAX AG, Orselina (SUI)
Conductive Plasma Coated Polymer Yarns versus Graphene Application

ZHIYI CAO
O. Grabandt, Teijin Aramid, Arnhem (NED)
Properties of Aramid yarn – How Aramid Yarn contributes to the Circular Economy

MARTIN PELZER
E T. Gries, ITA der RWTH Aachen, Aachen (GER)
Microcapsules towards a better Recyclability of Multi-Material Textile Bonds

DIGITALIZATION AND SMART TEXTILES

NICOLE PRASS
ITA Academy GmbH, Aachen (GER)
Textile Production 4.0 – A look into the future

CHRISTOPH RUNDE
Virtual Dimension Center, Vellbach (GER)
Virtual Reality – Opportunities and Applications in the Textile Value Chain

ANDREAS RÖPERT
Interactive Wear GmbH, Starnberg (GER)
Smart Textiles between Hype 2.0 and Industry 4.0

AMIT GAUTAM
Textile Genesis, Hong Kong (HKG)
Blockchain: myth vs. Relevance for the fiber industry

ALEXANDER BACHMANN
Kelheim Fibres GmbH, Kelheim (GER)
Fingerprint-technology for raw-material transparency in the textile supply chain

SONGÜL KUL
Korteks A.S, Bursa (TUR)
Digital transformation for yarn industry

DIETER STELLMACH
M. Winkler, DITF, Denkendorf (GER)
Small Series Textile Value Creation back in Europe? Five Industrial Scenarios Involving the Digital Textile Micro Factory

YVES-SIMON GLOY1 et al
A. Böhm2, STFI1, futureTEX Management GmbH2, Chemnitz (GER)
Mobile robotic systems for the application in textile processes

WALERI ROOT
T. Bechtaold, T. Pham, Institut für Textilchemie und Textilphysik, Dornbirn (AUT)
Development of electrically conductive textiles for capacitive, combined thermo and humidity sensors

KAY ULLRICH et al
TITV Greiz, Greiz (GER)
Large-area electrical contacting of and with textiles

Additional lectures are in preparation. Please find any updates on the congress homepage www.dornbirn-gfc.com
SPORTS AND LEISURE WEAR

**SUSANNE MÜLLER**
HS Niederrhein, Mönchengladbach (GER)
Disruption in the Fashion Industry - The Impact of the Victimhood Culture of future Social Media Marketing Strategies

**MASASHIGE HIRATA**
Asahi Kasei Corp., Shiga (JPN)
Basic study of Environment-Friendly Water-Repellent Fabric

**GILDA SANTOS**
CITEVE, Vila Nova de Famalicão, (POR)
Innovative functional textiles for protection against puncture

**JÖRN LÜBBEN**
Hochschule Albstadt, Sigmaringen (GER)
Thermoresponsive polymers and their application in the textile value chain

**SILKE SANDULOFF** et al
S. Huysman², HS Niederrhein¹, Mönchengladbach (GER),
Centexbel², Zwijnaarde (BEL)
Body contour-compatible protectors using 3-D printing technology

SURFACE MODIFICATION AND ADDITIVES

**YOSHIFUMI SUZUKI**
Teijin Frontier CO., LTD, Ehime (JPN)
Fibers surface modification of adhesive technology for rubber reinforcement – Discussion on the environmentally friendly adhesives

**TOBIAS MASCHLER** et al
S. Thienen² et al, T. Miranda³ et al, DITF¹, Denkendorf,
Universität Tübingen², Senckenberg Centre for Human Evolution and Palaeo-environment³, Tübingen (GER)
Development of biomimetic simulation-based textile structures for novel solutions for moisture evaporation, separation and supply of plants in greenhouse horticulture

**YÜCE DENIZLI**
Korteks A.S, Bursa (TUR)
A novel PECVD coating system for the nano-scale surface-functionalization of pet filament fibers

**KRISTINA KLINKHAMMER** et al
T. Ferndandez², HS Niederrhein¹, Mönchengladbach,
Trans-Textil GmbH², Freilassing (GER)
Influence of plasma functionalization on the adhesion of seam sealing tapes in PPE

**MAMHUD HOSSAIN** et al
M. Sparing² et al, ITM der TU Dresden¹, IFW Dresden – Institut für Metallische Werkstoffe², Dresden (GER)
300 percent increment of efficiency in the spinning of manmade fibers on turbo ring spinning machine with friction free superconducting twisting element

Additional lectures are in preparation. Please find any updates on the congress homepage www.dornbirn-gfc.com
NONWOVENS AND TECHNICAL TEXTILES

DANIEL WOLTERS\textsuperscript{1} et al
K. Witsch\textsuperscript{2}, G. Frenzer\textsuperscript{3}, P. Pink\textsuperscript{4}, ITA der RWTH Aachen\textsuperscript{1}, Aachen, Ering Klinger AG\textsuperscript{2}, Dettingen, NANO-X GmbH\textsuperscript{3}, Saarbrücken-Güdingen, EringKlinger Motorteknik GmbH\textsuperscript{4}, Idstein (GER)
Technical scale production of aerogel non-woven

ROLAND SCHOLZ
H. Lauterbach, Kelheim Fibres GmbH, Kelheim (GER)
Viscose Fibre Danufil\textsuperscript{R} QR for Sustainability in Disinfection of Surfaces

KATHARINA MAYER, IBRAHIM SAGERER-FORIĆ
Lenzing AG, Lenzing (AUT)
LENZING\textsuperscript{TM} Web Technology – Biodegradable Solutions for the Future Nonwovens Industry

JOHANN PHILIPP DILO
DiloGroup, Eberbach (GER)
3D Loffer – A new nonwoven textile manufacturing technology for three-dimensional lightweight fibre structures for the car interior

JUNICHI KUSAKABE
Asahi Kasei Corp., Shiga (JPN)
New Type of High Functional Nonwoven Fabric “Precisé”

SIMONE GRAMSCHE
A. Sarishvili, A. Schmeißer, Fraunhofer-Institut für Techno und Wirtschaftsmathematik (ITWM), Kaiserslautern (GER)
Hybrid informed machine learning for production processes of nonwovens

YVETTE DIETZEL
M. Gültner, STFI, Chemnitz (GER)
Protective clothing materials for special applications such as working with handheld ultra-high pressure water jet guns and abrasive cutting

TOBIAS RAITHEL
F. Stauss, Ch. Weber, Groz-Beckert KG, Albstadt (GER)
Splitfibers (and their processing) in needlepunched nonwovens

NONWOVENS AND TECHNICAL TEXTILES

STEPHAN KULKA
Lenzing AG, Lenzing (AUT)
Lyocell short cut – Versatile fiber enabling new product options

MATTHEW TIPPER
NIRI Technologies, Leeds (GBR)
Mass Customisation of Nonwovens for a Stratified Marketplace

DANIEL WEISE\textsuperscript{1} et al
T. Balzer\textsuperscript{2} et al, Institute of Textile Machinery and High Performance Material Technology\textsuperscript{1}, Dresden, Department of Ceramic Materials Engineering\textsuperscript{2}, Bayreuth (GER)
C/C-SiC-Ceramic Composite with tailored thermal conductivity for high performance friction application

ELKE THIELE\textsuperscript{1} et al
M. Wonneberger\textsuperscript{2}, STFI\textsuperscript{1}, Chemnitz, Invent GmbH\textsuperscript{2}, Braunschweig (GER)
Biogenic Heavy Tows based on hemp bast bark – From field to composite

MARIELIES BECKER\textsuperscript{1}
F. Ficker\textsuperscript{2}, C. Anzer\textsuperscript{3}, Fraunhofer-Center for Textile Fiber Ceramics TFK\textsuperscript{1}, Münchberg, Hof University\textsuperscript{2}, Hof/Saale (GER), Hof University\textsuperscript{3}, Münchberg (GER)
Textile Technical Manufacturing Processes for the Production of Complex Inorganic Structures

CHRISTIAN GerkING
Nanoval GmbH, Berlin (GER)
Title to be defined

INGO WINDSCHIEGL et al
DITF, Denkendorf (GER)
Finest meltblow nonwovens with improved productivity

Additional lectures are in preparation. Please find any updates on the congress homepage www.dornbirn-gfc.com
IMPORTANT DETAILS FOR PARTICIPANTS

REGISTRATION
Please simply register online: www.dornbirn-gfc.com
Convention Partner Vorarlberg, Bodensee-Vorarlberg Tourismus GmbH
Römerstrasse 2, 6900 Bregenz, Austria
Tel.: +43 (0)5574 43443-23, Fax: +43 (0)5574 43443-4
E-Mail: service@convention.cc, www.dornbirn-gfc.com

DATE OF CONGRESS
Opening: Wednesday, September 11th 2019 at 09:00 a.m.
Closing: Friday, September 13th 2019 at appr. 12:15 p.m.

LOCATION
Kulturhaus Dornbirn, Rathausplatz 1, 6850 Dornbirn, Austria

NEAREST AIRPORTS
Zurich (CH): Shuttle service, transfer time approx. 1 hrs.
Friedrichshafen (D), Altenrhein (CH), Munich (D)

REGISTRATION FEE
Participation fee-early bird € 880,- net
(registrations must be received by May 31st, 2019)
Participation fee-regular € 960,- net
(registrations received from June 01st, 2019)
Second (and subsequent) delegates from
the same company € 760,- net
(must be booked and paid for at the same time as first registration)
Professors / Teachers at Universities € 625,- net
and Technical Colleges
Students € 125,- net
Lecturers / press delegates € 0,- net
All participation fees are excl. 20% VAT.

SERVICES
Registration Fee includes attendance at all lectures, manuscripts in data
form, delicate catering, drinks and fruits during all breaks, luncheon on
Wednesday and Thursday, 11th and 12th Sept. as well participation in the
legendary gala buffet dinner with fashion show on invitation of the Mayor
of Dornbirn at the „Haus der Messe“ Dornbirn on September 11th, 2019.

TERMS OF PAYMENT
On receipt of bill and via bank transfer or per credit card (Visa, Mastercard).
Payment on receipt of bill, stating invoice number, name of participant,
company and address (more details on our homepage).

CANCELLATION
All bookings received are binding. Fee refunds will be granted on
the following scale: Until July 31st 2019: 50%; from August 1st 2019:
no refund. Delegates may be substituted at any time.

CONGRESS BADGE
You will receive your badge in Dornbirn. The badge is your entrance ticket.

IMPORTANT DETAILS FOR PARTICIPANTS

CONFIRMATION OF REGISTRATION
Upon registration and remittance of the fee, participants will
receive a confirmation for participation via email. This confirmation
has to be shown in Dornbirn to get entrance. On registration the
participant agrees to allow disclosure of his/her personal and/or
company-related contact data. Any objection thereto should be
made known to us in writing.

OFFICIAL LANGUAGES / DOCUMENTATION
Lectures will be presented in German or English with simultaneous
interpretation in both directions. Lecture documents are made
available to participants after the conference via download.

ACCOMMODATION / BUS TRANSFER SERVICE / CAR
PARKING (SEE ALSO REGISTRATION FORM)
Upon request, the team of Convention Partner Vorarlberg,
Tel.: +43 (0)5574 43443-23, E-Mail: service@convention.cc will help
in securing accommodation (Room reservation will be confirmed
in writing). The team of Convention Partner Vorarlberg also informs
about bus transfer for attendees staying outside Dornbirn. During the
Congress, parking both in the garage of the Kulturhaus and in the
surrounding parking lot is free of charge (Tickets are available at the
Congress office).

LIABILITY
The organizer cannot be held responsible for any cost incurred should
the Dornbirn-GFC be cancelled for any reason. Maximum prior notice
will be given to delegates. The organiser does not accept any liability for
any loss or damage to the personal belongings of delegates attending
the congress. In case of any injury, loss or damage incurred by a partici-
 pant our liability shall not exceed the amount of the participation fee.

Important notice: some lectures may be added or changed, as this is a preliminary version only. Please consult our homepage www.dornbirn-gfc.com for updates until you receive the final programme folder in July 2019.
LOCATION

THE FIBER SPECIALISTS
WILL MEET IN THE HEART OF EUROPE

Dornbirn nearby the famous "Lake Constance"

With a population of around 48,000, Dornbirn is the largest town in the Vorarlberg region – a pleasant and dynamic town located in a corner of Austria close to the borders of Liechtenstein, Switzerland and Germany.
For further information, contact Convention Partner Vorarlberg directly – your partner in Dornbirn.

The center of Dornbirn

The Kulturhaus Dornbirn, location of the congress

FURTHER INFORMATION

Dornbirn Global Fiber Congress (Dornbirn-GFC)
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