58TH DORNBIRN GLOBAL FIBER CONGRESS DORNBIRN-GFC

11-13 September 2019 Austria



Early bird bonus



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



58[™] DORNBIRN GLOBAL FIBER CONGRESS 11-13 September 2019 Austria

Lenzing

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techtextil





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!

Kennger

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 Eu ope – New models of collaboration

ROLF-DIETER HUND¹

N. H. An Tran² et al, H. Brünig¹, 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

MICHÈLE LINDNER¹

R. Tonndorf² et al, GfN Herstellung von Naturextrakte GmbH¹, Wald-Michelbach, ITM der TU Dresden², Dresden (GER) **Wet-spun Collagen Multifilament Yarns**

FRANK FICKER¹

R. Miksch² et al, M. Becker³, Hof University of Appliend Sciences¹, Hof/Saale, Hof University of Appliend Sciences², Münchberg, Fraunhofer-Center for Textile Fiber³, Münchberg (GER)

Textile Structures for Medical Engineering – Complex Stents

PHILIPP SCHEGNER et al

ITM der TU Dresden, Dresden (GER)

CAD-supported integral manufacturing of complex patient-specific stentgrafts

JEANETTE ORTEGA1 et al

B. Mues² et al, ITA der RWTH Aachen¹, Institut für Angewandte Medizintechnik², Aachen (GER)

Systematic process design for the fabrication of nanomodified fiber-based implants for use in ablation therapy

OLIVER SYED SHAFAAT

Spiber Inc., Yamagata (JPN)

Production of Synthetic Spider Silk Protein Fibers and Yarns

ROBERTO DE PALO

Basell Poliolefine, Ferrara (ITA)

New Polyolefins for Sustainability

SHOHEI TSUNOFURI

Kuraray CO., LTD., Tokyo (JPN)

Development of new heat-resistant fiber; PA9T fiber

CHRISTOPH HACKER

M. Vlasblom, R. Bosman, DSM Dyneema B.V., Geleen (NED) Prediction of rope design and lifetime in real life application with Dyneema® fibers

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, P. Hartel³ et al, D. S. Wolz⁴ et al, M. Müller⁵, C. Zschech⁶ et al, ITM der TU Dresden¹, Inorganic Chemistry², Fraunhofer IWS³, ILK⁴, Leibniz-Institut für Polymerforschung Dresden⁵, IPF Dresden⁶, Dresden (GER)

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)

Preperation 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

FIBER INNOVATIONS

NGUYEN HOAI AN TRAN1 et al

J. Kemnitzer² et al, ITM der TU Dresden¹, Dresden, K. Effektzwirnerei GmbH², Oelsnitz/Vogtland (GER) An eco-friendly post-drawing process for splitting bicomponent filaments

SELLI FIGEN

Ü. H. Erdoĝan, 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

CIRCULAR ECONOMY UND RECYCLING

ULRICH BISCHOFF

Wolford AG, Bregenz (AUT)

Title to be defined

KARLA MAGRUDER

Fabrikology 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-Industrie², 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 DERYCKE

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 IBRIKCI1 et al

G. Kaya², Kipas Textile¹, Dulkadiroĝlu, 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, CITEVE¹, 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

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

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. Bechtold, 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 SANDULOFF1 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 MASCHLER¹ et al

S. Thielen² 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

SESHADRI RAMKUMAR

Texas Tech University, Lubbock (USA) Nobel Laureate Sees No Recession in Sight

SURFACE MODIFICATION AND ADDITIVES

THOMAS MUTSCHLER

M. O. Weber. HS Niederrhein, Mönchengladbach (GER) Alternative weft insertion process in warp knitting performance enhancing and energy saving

DIRK HEGEMANN

Empa. St. Gallen (CH)

Textile Sensors Based on Temperature-sensitive Colorchanging Coatings

MINE TÜRKAY KANKIRAN

S. M. Cam. Korteks A.S. Bursa (TUR)

Polyester Filament Can be Dyed at Low Temperature

JÜRGEN SCHNEIDER

S. Baz, G.T. Gresser, DITF Denkendorf, Denkendorf (GER)

Twist offset of rovings to increase yarn quality

GÜLŞAH EKIN KARTAL et al

Dokuz Eylül University, İzmir (TUR)

Providing Antifouling Properties to Fishing Nets with Encapsulated Econea

YÜCE DENIZLI

Korteks A.S, Bursa (TUR)

A novel PECVD coating system for the nano-scale surface-functionalization of pet filament fibers

KRISTINA KLINKHAMMER¹ 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

MAHMUD HOSSAIN¹ 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

NONWOVENS AND TECHNICAL TEXTILES

DANIEL WOLTERS1 et al

K. Wiltsch², G. Frenzer³, P. Pink⁴, ITA der RWTH Aachen¹, Aachen, Elring Klinger AG², Dettingen, NANO-X GmbH³, Saarbrücken-Güdingen, ElringKlinger Motortechnik GmbH⁴, Idstein (GER) **Technical scale production of aerogel non-woven**

ROLAND SCHOLZ

H. Lauterbach, Kelheim Fibres GmbH, Kelheim (GER) Viscose Fibre Danufil® QR for Sustainability in Disinfection of Surfaces

KATHARINA MAYER, IBRAHIM SAGERER-FORIĆ

Lenzing AG, Lenzing (AUT)

LENZING[™] Web Technology – Biodegradable Solutions for the Future Nonwovens Industry

JOHANN PHILIPP DILO

DiloGroup, Eberbach (GER)

3D Lofter – 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 GRAMSCH

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

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 WEISE¹ et al

T. Balzer² et al, Institute of Textile Machinery and High Performance Material Technology¹, Dresden, Department of Ceramic Materials Engineering², Bayreuth (GER)

C/C-SIC-Ceramic Composite with tailored thermal conductivity for high performance friction application

ELKE THIELE¹ et al

M. Wonneberger², STFI¹, Chemnitz, Invent GmbH², Braunschweig (GER)

Biogenic Heavy Tows based on hemp bast bark – From field to composite

MARIELIES BECKER¹

F. Ficker², C. Anzer³, Fraunhofer-Center for Textile Fiber Ceramics TFK¹, Münchberg, Hof University², Hof/Saale (GER), Hof University³. 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

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 € 760,- net the same company

(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 (do not have to pay any conference fee)

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 participant 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) Congress Office, Kolingasse 1/1/5, 1090 Vienna, Austria Tel.: +43 1 319 2909 41, Fax: +43 1 319 2909 31

E-Mail: office@dornbirn-gfc.com Homepage: www.dornbirn-gfc.com



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