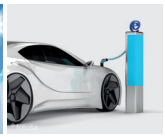
57TH DORNBIRN
GLOBAL FIBER CONGRESS
DORNBIRN-GFC

12-14 September 2018 Austria

DORNBIRN GFC
GLOBAL FIBER CONGRESS



700 participants from
30 nations, over 100 lectures

Early bird bonus
until 31 May 2018

PRE-PROGRAMME

As per April 2018

Congress Themes

- Fiber Innovations
- Transportation and Mobility
- Recycling - Circular Economy
- Energy-Generation and -Storage
- Surface Modification and Additive Technologies

Simply register online:
www.dornbirn-gfc.com

Lenzing

Innovative by nature

Märkische Faser

avantex
PARIS

SALTEX
SMART TEXTILES & HIGH-PERFORMANCE MATERIALS
12. BIS 13. SEPTEMBER 2018

DEAR PARTICIPANTS!

Sustainable innovations are the guiding priciple of the event and also this year you will be inspired by more than a 100 lectures of high quality from the academic research and the industry.
Some highlights of this year`s congress:

The creme de la creme of the fiber industry participates at the congress: the top management of the Lead Sponsor Lenzing Group, from Indorama and Reliance to other European, Asian and American fiber producers.

Due to the enormous interest shown by the industry and trade and the great support of the European Commission “circular economy“ is a focal point this year again.

AVL, the world`s biggest independent company for the development of powertrains and as a connaisseur of the automotive industry illuminates the relevance and potentials of the fiber industry in the future development of the automotive industry.

The successful, booming Canadian brand Lululemon Athletica generates forward-looking future trends for the industry and will also expand the innovation perspectives in interview sessions.

High-profile key note speeches will generate stimuli by forward-looking and provocative perspectives.

The “Young Scientist Forum“ under the guidance of Syngroup Consulting – young scientists will deal with future innovation topics in an “Open Innovation“ atmosphere.

As every year, numerous sponsors and cooperation partners support and empower the network of the “Dornbirn-GFC Innovation Community“ by their activities. Due to the strongly rising internationality of the lectures and participants and the related network you will enjoy wisdom with global reach – benefit from this potential!

Yours Friedrich Weninger
Chairman Programme Committee
Dornbirn-GFC

FIBER INNOVATIONS

GUNJAN SHARMA
Reliance Industries Limited, Mumbai (IND)
Fabric 2.0: Performance and Sustainability Through New-Age Fibers

RICARDO GENT
Deutsche Industrievereinigung Biotechnologie (DIB), Frankfurt am Main (GER)
Genom editing by CRISPR/Cas and challenges for fibers

KOTA NAKAMURA
Toray Industries Inc., Aichi (JPN)
New Liquid Crystal Polyesterfilament

DIETER EICHINGER et al
Lenzing AG, Lenzing (AUT)
TENCEL™ Luxe – A novel cellulose filament for luxury fashion

YOGENDRA DANDAPURE
Lululemon Athletica Inc., Vancouver (CAN)
Title to be defined

QINGHUA ZHANG
Donghua University, Shanghai (CHN)
Production and application of high-performance polyimide fibers

GUNNAR SEIDE
S. Hermanns, Maastricht University (AMIBM), Geleen (NED)
In for biobased polymers, in for biobased additives!

WHEELER CHEN
Nan Ya Plastics Corp., New Taipei City (TWN)
Saving Water, Saving GAIA
Innovational Technology of Sustainable Polyester

HIROSHI YAMAMOTO
Mitsubishi Chemical Corp., Tokyo (JPN)
Special polypropylene fiber of Pylen®

FIBER INNOVATIONS

SIMON FREMEAUX[1]
T. De LaHoz[2], CETI[1], Tourcoing (FRA), Hills Inc.[2], West Melbourne (USA)
A new bulky soft lofty spunbond nonwoven material made of bicomponent PLA and Polypropylene for textile applications

HARUKA OTOMO et al
Asahi Kasei Corp., Shiga (JPN)
Development of Elastic Heat-Generating Fabric

ROY DOLMANS et al
Oerlikon Textile GmbH, Remscheid (GER)
Sustainable Process Solutions: From melt to yarn

NURIA LÓPES
M.-P. Diego, AIMPLAS Plastics Technology Centre, Valencia (ESP)
Improved biobased fibres for clothing applications

GEOFFREY HIETPAS
Invista, Kansas (USA)
Approaches for Technical marketing of sustainable apparel fibres

STEPHAN HÜTTE
U. Schmidt, Asahi Kasei Spandex Europe GmbH, Dormagen (GER)
Roica ECO SMART, The Sustainable Premium Stretch Fibre

WARREN EBENEZER et al
Addivant Ltd., Manchester (GBR)
Antidegradents for Spandex and their breakdown products

ALEXANDER STOTZ
F. Schneider, Groz-Beckert KG, Albstadt (GER)
Challenges when sewing and joining fine knitwear

FIBER INNOVATIONS

ANDREA EHRMANN[1]
Ch. Döpke[1], P. Steblinski[2], T. Blachowicz[2], FH Bielefeld[1], Bielefeld (GER), TU Silesian[2], Gliwice (POL)
Electrospun multifunctional nanofibers for bioinspired computers

JOSÉ MORGADO et al
CITEVE, Vila Nova de Famalicão (POR)
High performance yarns incorporating simultaneously the properties of textile substrates and cork's functional gains

CHRISTOPH UNTERWEGER et al[1]
A. Hinterreiter[2], D. Stifter[2], Kompetenzzentrum Holz GmbH[1], Universität Linz[2], Linz (AUT)
Continuous Carbonization of Cellulose Fibers: Increasing Carbon Fiber Properties and Carbon Yield by Process Optimization

WERNER BAUMANN
Uster Technologies AG, Uster (SUI)
Intermingling measurement with USTER© TESTER 6-C800

STEFANIE SCHLAGER et al
Lenzing AG, Lenzing (AUT)
Enhanced flushability properties of fabrics using lyocell fibers

PIA MATHIS
T. Haschka, Xylinum Fabrics, Vienna (AUT)
An Innovative Biomaterial Created from Bacteria – Xylinum Fabrics

CHRISTOPH BURGSTALLER et al[1]
S. Riepler[2], W. Hermann[2], Transfercenter für Kunststofftechnik GmbH[1], Wels, IFG Asota GmbH[2], Linz (AUT)
Elastomeric modified biobased fibers

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

TRANSPORTATION AND MOBILITY

THEODOR SAMS
K. Salzgeber, AVL List GmbH, Graz (AUT)
Fibers for the Future Automotive Industry

KENJI HIGASHI
Spiber Inc., Yamagata (JPN)
Synthetic Spider Silk Composite Materials

PIETER DE LANGE[1]
D. Hristova-Bogaerds[2], Teijin Aramid BV[1], Arnhem, Dutch Polymer Ind.[2], Eindhoven (NED)
Understanding surface modification of aramid fibres by pre-competitive research collaboration

CHRISTOPH HACKER et al
DSM Dyneema B.V., Geleen (NED)
Tailoring the Performance of Carbon Fiber Composites with Dyneema® fibers

PIERO SARAGAT
A. Andreoni, Radicifil SpA, Casnigo (ITA)
New trends in automotive carpeting

HENDRIK VAN DELDEN
Gherzi van Delden GmbH, Krefeld (GER)
Composite trends in Mobility Markets

NAOYA KOMIYA
Teijin Ltd., Osaka (JPN)
Aramid fiber reinforcement of resin for automobile transmission

STEPHANIE PFEIFER et al[1]
W. Pritzkow[2], DITF[1], Denkendorf, Walter E.C. Pritzkow[2], Filderstadt (GER)
Research and development in the field of oxide ceramic fibers at the DITF – From fibers to ceramic matrix composites

MARCO BOHLENDER[1], CORINNA ANZER et al[2]
R. Hegermann[3], D. Weise[4], Gustav Gerster GmbH[1], Biberach/Riss, Hochschule Hof[2], Hof/Saale, CVT GmbH[3], Halblech, TU Dresden[4], Dresden (GER)
Needled Circular Woven Fabric-Sandwich-Preforms for Ceramic Friction Linings

TRANSPORTATION AND MOBILITY

VERENA KLOIBER et al[1]
Y. Dietzel[2], TU Dresden[1], Dresden, STFI[2], Chemnitz (GER)
Innovative carbonization technologies for precursor textiles

BRITTA MORITZER
STATEX Prod. und Vertriebs GmbH, Bremen (GER)
Smart Textiles for Intelligent Solutions

RICO HICKMANN et al[1]
T. Götze[2], S. Wießner[2], ITM TU Dresden[1], Leibnitz-Institut für Polymerforschung[2], Dresden (GER)
Innovative bimodulare hybrid-yarns for textile reinforced elastomer components

FRANK FICKER[1]
R. Miksch[1], M. Becker[2], Hochschule Hof[1], Hof/Saale, Fraunhofer TFK[2], Münchberg (GER)
Variation Braiding – Development of complex Braided Structures for Aerospace, Transportation and Medical Technology

ALEXANDRA GLOGOWSKY et al[1]
I. Bretz et al[2], Hochschule Niederrhein[1], Mönchengladbach, Fraunhofer UMSICHT[2], Oberhausen (GER)
3D printed plastic/textile composites – modifications for technical applications

KENTO TAKAMI et al
TOYOBO Co. Ltd., Shiga (JPN)
High Performance Electret Filter Media

INGO BERNT
Kelheim Fibres GmbH, Kelheim (GER)
Leonardo – A universal fibre for numerous applications

GILDA SANTOS et al[1]
M. Pinto[2], CITEVE[1], Vila Nova de Famalicão, LEMAR[2], Guimarães (POR)
Development of textiles for protection against perforation

TRANSPORTATION AND MOBILITY

HANS-JOERG IMMINGER
BWF Tec GmbH, Offingen (GER)
Development of Needlefelts for Technical Applications

BERNHARD BOCHT
Groz-Beckert KG, Albstadt (GER)
Importance of carding process optimization in the production of nonwovens

MICHAEL CORDIN et al
Institut für Textilchemie und Textilphysik, Dornbirn (AUT)
Cellulose/polypropylene intermingled yarn for thermoplastic fibre composites

MIRIAM SCHEFFELMEIER
E. Classen, Hohenstein Institut, Bönnigheim (GER)
Innovative method to determine the climate comfort in automotive seating with the thermal sweating manikin "Sherlock"

ENRIQUE HERRERO ACERO
Glanzstoff Industries GmbH, St. Pölten (AUT)
Novel enzymatic approaches for the functionalization of polyesters used as tire reinforcement

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

RECYCLING - CIRCULAR ECONOMY

MICHEL CHETPA
SEAQUAL 4U, Madrid (ESP)
SEAQUAL™ fiber – Making waves together for a clean Ocean

MICHAELA KOGLER et al
Lenzing AG, Lenzing (AUT)
Marine Pollution: Exposing some of the myths and facts

FILIPPO SERVALLI
RadiciGroup, Gandino (ITA)
RadiciGroup – Our approach to the Circular Economy

JUAN MARCOS SANZ CASADO
Textil Santanderina, Cabezón de la Sal (ESP)
98% recycled super-antistatic fabric for clean rooms

MIR MOHAMMAD BADRUL HASAN et al
ITM TU Dresden, Dresden (GER)
Spinning of yarn structures consisting of recycled carbon fibre (rCF) for the application in thermoset composites

ATHANASSIOS NIKOLAKOPOULOS
Technical University of Athens, Zografou (GRE)
Circular economy in the textile and chemical industry: The evolution of RESYNTEX, the first whole textile waste refinery

FLORIAN KAMLEITNER
ecuplus. Niederösterreichische Wirtschaftsagentur GmbH, St. Pölten (AUT)
TEX2MAT – A recyling concept for post industrial and post consumer multimaterial textiles

N.N.
University of Kaunas, Kaunas (LIT)
Recycling of textile waste: a focus on the Baltic States

MARCEL HOFMANN[1]
H. Hohmuth[2], H. Fischer[3], STFI[1], Chemnitz, TENOVO GmbH[2], Hof, Faserinstitut Bremen[3], Bremen (GER)
RecyCarb – process optimisation and on-line monitoring in the recycling of carbon fibre waste for the re-use in high-grade fibre-reinforced plastics

RECYCLING - CIRCULAR ECONOMY

BETTINA LIEBMANN
Umweltbundesamt GmbH, Vienna (AUT)
Emissions of Fibers During Laundring

STEFAN BRANDT et al[1], NICOLE ESPEY[2]
Hochschule Niederrhein[1], Mönchengladbach, Bundesverband der Deutschen Sportartikel-Industrie[2], Bonn (GER)
Textile based micro plastic – controll and prevention

GEORG GÜBITZ et al[1]
S. Vecchiato et al[2], BOKU[1], Tulln, Acib[2], Tulln (AUT)
Plastics with intrinsic recycling properties for biotechnological recovery of components

WOLFGANG IPSMILLER[1,2]
A. Bartl[1], G. Gübitz[3], G. Ruppert[4], TU Wien[1], Vienna, acib GmbH[2], Graz, BOKU[3], Tulln, Viscose Faser GmbH[4], St. Pölten (AUT)
A circular economy solution for the complete recycling of the components of flame retardant protective clothing

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

ENERGY-GENERATION AND -STORAGE

NGUYEN HOAI AN TRAN et al
ITM TU Dresden, Dresden (GER)
Thermoregulation synthetic fibers on semi-industrial scales for the storage of latent heat

WOLFGANG SCHEIBNER et al
TITV Greiz, Greiz (GER)
Adaptive Textiles to Generate Energy from Flowing Waters

KAY ULLRICH et al
TITV Greiz, Greiz (GER)
Development of energy storing threads to be used in electrical active Smart Textiles

THOMAS STEGMAIER et al
DITF, Denkendorf (GER)
Textile based collector for solarthermic energy use with integrated latent heat storage

DURAES NELSON GOMES et al
CENTI, Vila Nova de Famalicão (POR)
Development of continuous polarization system for piezoelectric fibres in line with meltspinning process

STEFAN BREITENBACH et al[1]
A. W. Hassel[2], Kompetenzzentrum Holz GmbH[1], Universität Linz[2], Linz (AUT)
Preparation and characterization of activated carbon fibers for use as supercapacitor electrodes

LIANA SINOWZIK[1]
R. Tkachov[2], STFI[1], Chemnitz, TU Dresden[2], Dresden (GER)
FlexTEG – Flexible thermoelectric generator based on printable nonwoven structures

MONIRUDDOZA ASHIR et al
ITM TU Dresden, Dresden (GER)
Fibre-based sensor actuator systems for the integration in smart composite structures for high-precision in situ kinematics in fiber reinforced plastics

ENERGY-GENERATION AND -STORAGE

BIRGIT ARMBRUSTER[1]
F. von Dungern[2], A. Ostmann[3], H. Hering[4], imbut GmbH[1], Greiz, INVENT GmbH[2], Braunschweig, Fraunhofer IZM[3], Berlin, ESYS GmbH[4], Berlin (GER)
Integration of functions in Composite materials by printing Technology

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

SURFACE MODIFICATION AND ADDITIVE TECHNOLOGIES

RALF LUNGWITZ
R. Bochmann, STFI, Chemnitz (GER)
Functional and breathable textile coating based on hotmelt technology

DUSTIN AHRENDT
S. Krzywinski, ITM TU Dresden, Dresden (GER)
Application of continuous fiber-reinforced additive manufacturing for textile-based products

MARY ANKENY
Cotton Incorporated, Cary (USA)
Cotton Performance Technologies for Moisture Management

FRANK WENDLER[1]
F. Meister[2], M. Krieg[2], Smartpolymer GmbH[1], Rudolstadt, TITK[2], Rudolstadt (GER)
How to maintain CellSolution fibre functionalities throughout the textile chain?

FELIX STUTZ[1]
S. Gaan[2], C. Silva[3], LITRAX AG[1], Orselina, EMPA[2], Dübendorf (SUI), CENTI[3], Vila Nova de Famalicão (POR)
Novel halogen-free flame retardant additive for PA6 Fibers

GEORGIOS MOURGAS et al[1]
J. Benz[2], DITF[1], Denkendorf, Universität Stuttgart[2], Stuttgart (GER)
Intrinsic flame retardant polyamides for textile applications

N.N.[1]
M. Handel et al[1], M. Richter[2], M. Hofer[2], Hohenstein Institut[1], Bönnigheim, Fraunhofer IGB[2], Straubing (GER)
Inspired by nature – Water-repellent functionalization by biotechnologically constructed fungal proteins

EDITH CLASSEN et al[1]
B. Demedts[2], Hohenstein Institut[1], Bönnigheim (GER), Centexbel[2], Zwijnaarde (BEL)
Graphene surface modification of textiles for personal protective clothing

SURFACE MODIFICATION AND ADDITIVE TECHNOLOGIES

CHRISTOPH RIETHMÜLLER et al
DITF, Denkendorf (GER)
Sequential Functionalization – A new technology to achieve sensory yarns and plagiarism protection

WALERI ROOT et al
Institut für Textilchemie und Textilphysik, Dornbirn (AUT)
Electroless metal deposition for sensor manufacturing in flexible textiles

VERONICA MALM et al[1]
F. Seoane Martinez[2], University of Borås[1], Borås, Karolinska Institute[2], Stockholm (SWE)
Electrical resistance characterisations and durability of textile coatings containing metal flake fillers

RICHARD WALTON
Goulston Inc., Monroe (USA)
A Novel Analytical Technique for Fiber Surface Analysis

MARTIN STRANGFELD[1]
A. Stoll[1], H. Illing-Günther et al[2], FILK GmbH[1], Freiberg, STFI[2], Chemnitz (GER)
Influence of the Internal friction properties of textile fabrics on the suitability as coating substrates

JENS GÜDDEN
Levaco Chemicals GmbH, Leverkusen (GER)
Hydrophilic Surface Testing: a comparison

ROBERTO TEIXEIRA et al
Devan Chemicals, Ronse (BEL)
Development of functional masterbatches: soft 2.0 and more

DOMINIC TESSIER
M. Dubiel, CTT Group, St. Hyacinthe (CAN)
Preparation of N-halamine copolymer additives for chlorine modulated antimicrobial activity

JULIEN PAYEN[1]
P. Guerreschi et al[2], M. Gradwohl[3], UP-tex[1], Tourcoring, CHRU de Lille[2], Lille, LATTICE MEDICAL[3], Loos (FRA)
Soft tissue reconstruction by combining textile and 3D printing biomaterials

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 12th 2018 at 09:00 a.m.
Closing: Friday, September 14th 2018 at appr. 12:15 p.m.

LOCATION

Kulturhaus Dornbirn, Rathausplatz 1, 6850 Dornbirn, Austria

NEAREST AIRPORTS

Zurich (CH), Friedrichshafen (D), Altenrhein (CH), Munich (D)

REGISTRATION FEE

Participation fee-early bird (registrations must be received by May 31st, 2018)	**€ 1.056,-** (€ 880,- net)
Participation fee-regular (registrations received from June 01st, 2018)	**€ 1.152,-** (€ 960,- net)
Second (and subsequent) delegates from the same company (must be booked and paid for at the same time as first registration)	**€ 912,-** (€ 760,- net)
Professors / Teachers at Universities and Technical Colleges	**€ 648,-** (€ 540,- net)
Students	**€ 150,-** (€ 125,- net)
Lecturers / press delegates (do not have to pay any conference fee)	**€ 0,-**

All participation fees include 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, 12th and 13th 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 12th**, 2018.

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 2018: 50%; from August 1st 2018: 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).

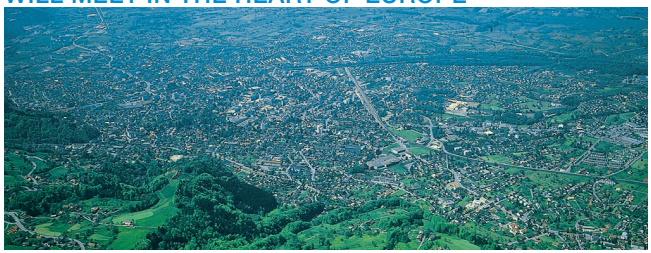
LIABILITY

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 2018.

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

We intend to organize the Dornbirn-GFC according to the guidelines of the Austrian ecology certificate for Green Meetings & Green Events.

DORNBIRN GFC
GLOBAL FIBER CONGRESS

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