New International Conference on Cellulose Fibres, the fastest growing fibre group in textiles, the largest investment sector in the bio-based economy and the solution for avoiding microplastics

• New Technologies & Applications
• Cellulose Market – Status & Development
• Supply and Demand – Market Trends & Data
• Sustainability
• Strategies
• Policy Framework

Venue
Maternushaus
Kardinal-Frings-Str. 1–3
50668 Cologne, Germany
maternushaus.de

Organiser
Dominik Vogt
dominik.vogt@nova-institut.de
Tel.: +49 2233/48 14 49
nova-institute.eu

Contact

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www.cellulose-fibres.eu
Match Making

Every registered participant has received a link to the match making landing page to activate the match-making tool. After you have been logged in successfully you can directly arrange meetings with other participants of your choice.

- Meet decision makers of the Industry – 1-on-1
- Find new networking and business opportunities
- Arrange meeting place & time with ease
- Manage all your meetings in one simple user-friendly environment
- Get email alerts for meeting requests

You are not yet registered or you have questions about the match making tool? Svenja Geerken will help you:

Svenja Geerken
svenja.geerken@nova-institut.de
Dear participants of the Conference and Exhibition,

Welcome to the world’s first conference devoted exclusively to cellulose fibers. In close cooperation with our sponsors and partners, we have managed to get practically all relevant players to Cologne ready for the first conference. Learn and discuss the latest market information, technologies and applications. A very important topic is sustainability, as cellulose fibers can score many points here. They have a low ecological footprint, leave no microparticles and consist of 100% renewable carbon. They provide important solutions for the future and are already available today in large and growing quantities. Alternative sources for cellulose can further improve sustainability.

Be curious! We wish you a lively exchange, many inspirations and comprehensive networking. And have fun in the lively city of Cologne, which was founded by the Romans about 2060 years ago.

Your nova conference team

---

**nova-Institute**

nova-Institute is a private and independent research institute, founded in 1994; nova offers research and consultancy with a focus on bio-based and CO₂-based economy in the fields of food and feedstock, techno-economic evaluation, markets, sustainability, dissemination, B2B communication and policy. Every year, nova organises several large conferences on these topics; nova-Institute has more than 35 employees and an annual turnover of 3 million €.

**nova-Institut GmbH**

Chemiepark Knapsack
Industriestr. 300
50354 Hürth, Germany

Phone +49 (0)2233 4814 40
Fax +49 (0)2233 4814 50
Email contact@nova-institut.de
www.nova-institute.eu
Exhibition

www.cellulose-fibres.eu/exhibitors

- **Free**
- **Reserved for sponsors** (Become a sponsor)
- **Booked**

List of Exhibitors

- Booth 02 | BT2i
- Booth 03 | Stora Enso
- Booth 04 | LEVACO Chemicals GmbH
- Booth 05 | Lenzing
- Booth 06 | nova-Institut GmbH
- Booth 07 | Sateri
- Booth 08 | Media Table
- Booth 09 | ITA – RWTH Aachen University
- Booth 10 | smartpolymer
- Booth 11 | Flocus
- Booth 13 | Surface Measurement System
- Booth 14 | Bozzetto Group
- Booth 15 | Austrian Fibers Institute
- Booth 18 | Match Making
- Booth 19 | Poster Exhibition
- Booth 20 | Canopy

Status: 28 January 2020 – more exhibitors expected.

www.cellulose-fibres.eu/exhibition-booking

The poster session will be on lunch break of the second day with the possibility to present your poster at booth number 19 on the exhibition space.

- Aalto University | Development of high tenacity cellulose fibers | Athlone Institute of Technology | High performance improvement of selected natural fibers for concrete performance improvement
- LEVACO Chemicals GmbH | Auxiliaries for viscose production | DITF (Deutsche Institute für Textil- und Faserforschung Denkendorf) | HighPerCell – Development of high performance cellulose fibers using IL-technology
- DITF (Deutsche Institute für Textil- und Faserforschung Denkendorf) | PURCELL – development of a recyclable, biodegradable all-cellulose composite
- Institut für Textiltechnik der RWTH Aachen University | Technical-scale Production of Cellulose Aerogel Fiber Non-wovens | Politecnico di Torino | ComBIOsites: Reversibly photocrosslinked BIO-based composites with barrier properties from industrial by-products
- Thüringisches Institut für Textil- und Kunststoff-Forschung Rudolstadt e.V. | Recycling of Lyocell process rejects using BMIM-OAc as solvent
- University of Hasselt | Microfibrillated cellulose as reinforcing fillers in elastomeric composites: control on degree of fibrillation
- Processing of (nano)celluloses in alternative solvents: opportunities and challenges | Université Bretagne Sud | Hygroscopic properties of molded cellulose samples by comparing fiber sources
- VTT Technical Research Centre of Finland | Biocelsol – Sustainable continuous process for cellulose regenerated fibres
- Wageningen University and Research | Natural Deep Eutectics as “green” cellulose co-solvent
Entrance Fee

<table>
<thead>
<tr>
<th>Description</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two days (11–12 February 2020)*</td>
<td>895 €*</td>
</tr>
<tr>
<td>One day (1st day, 11 February 2020)*</td>
<td>590 €*</td>
</tr>
<tr>
<td>One day (2nd day, 12 February 2020)</td>
<td>530 €</td>
</tr>
<tr>
<td>Two days (11–12 February 2020) – Students</td>
<td>350 €</td>
</tr>
</tbody>
</table>

* incl. dinner buffet

The conference will take place in the Maternussaal of the Maternushaus in Cologne (Germany).

Registration

www.cellulose-fibres.eu/registration

Venue

Maternushaus
Kardinal-Frings-Str. 1–3
50668 Köln (Cologne)
Germany

Phone: +49 (0)221 1631-0
Keyword: nova
frontoffice@maternushaus.de
www.maternushaus.de
# PROGRAMME OF THE CONFERENCE

**1st DAY, 11 FEBRUARY 2020**

## Markets & Policy

**Chairperson**

**Josef Innerlohinger**

*Lenzing*

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Organisation</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00</td>
<td>Michael Carus</td>
<td>nova-Institut</td>
<td>Conference Opening</td>
</tr>
<tr>
<td>10:10</td>
<td>Andreas Engelhardt</td>
<td>The Fiber Year</td>
<td>Status and Outlook on Textile Fibre Markets</td>
</tr>
<tr>
<td>10:30</td>
<td>Oliver Lansdell</td>
<td>Hawkins Wright</td>
<td>The Outlook for Dissolving Pulp, Supply and Demand</td>
</tr>
<tr>
<td>10:50</td>
<td>Nicole Rycroft</td>
<td>Canopy</td>
<td>Next Generations Solutions. A Transition from Forest Feedstocks to Sustainable Alternatives</td>
</tr>
<tr>
<td>11:10</td>
<td>Jukka Kantola</td>
<td>NC Partnering</td>
<td>Forests Industry Reaching out for the Textile Industry</td>
</tr>
<tr>
<td>11:30</td>
<td>Michael Carus</td>
<td>nova-Institut</td>
<td>Cellulose Fibres in the Context of Renewable Carbon, Circular Economy and Plastic Discussion</td>
</tr>
<tr>
<td>11:50</td>
<td>Discussion with all Speakers</td>
<td></td>
<td>of the Session</td>
</tr>
<tr>
<td>12:05</td>
<td>Lunch Break</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Sustainability & Circular Economy I

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Company</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:35</td>
<td>K. Christian Schuster</td>
<td>Lenzing</td>
<td>Ecological Aspects of Wood-Based (Regenerated) Cellulose Fibres</td>
</tr>
<tr>
<td>13:55</td>
<td>Alessandro Pellegrini</td>
<td>Bozzetto</td>
<td>Recent Advances in Cellulose Auxiliaries: an Eye towards Sustainability</td>
</tr>
<tr>
<td>14:15</td>
<td>Helena Claesson</td>
<td>Södra Skogsägarna Ekonomisk Förening</td>
<td>OnceMore™, a new Way to make the Textile Industry Circular</td>
</tr>
<tr>
<td>14:35</td>
<td>Roland Scholz</td>
<td>Kelheim Fibres</td>
<td>Viscose Fibres for Sustainability in Hygiene Applications</td>
</tr>
<tr>
<td>14:55</td>
<td>Discussion with all Speakers of the Session</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15:10</td>
<td>Coffee Break</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Time</td>
<td>Speaker</td>
<td>Affiliation</td>
<td>Topic</td>
</tr>
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<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>15:40</td>
<td>Claudia Kroll</td>
<td>meo Carbon Solutions / ISCC</td>
<td>ISCCplus – Sustainability Certification of Cellulose Fibres for the Textile Industry</td>
</tr>
<tr>
<td>16:00</td>
<td>Simone Seisl</td>
<td>Textile Exchange</td>
<td>What Can We Call a More Sustainable – or Preferred – MMCF; From Feedstock to Garment?</td>
</tr>
<tr>
<td>16:20</td>
<td>Maike Rabe</td>
<td>Hochschule Niederrhein/University of Applied Sciences</td>
<td>Microplastic Shedding of Textiles – Definitions, Analytics and Problem Solving Approach</td>
</tr>
<tr>
<td>16:40</td>
<td>Dimitri Deheyn</td>
<td>Scripps Institution of Oceanography, UC San Diego</td>
<td>On the Assessment of Environmental Biodegradability for Cellulose-based Materials</td>
</tr>
<tr>
<td>17:00</td>
<td>Discussion with all Speakers of the Session</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17:15</td>
<td>Panel Discussion</td>
<td>“Innovating for Sustainable Lignocellulosic Feedstocks” moderated by Lara Dammer, nova-Institut</td>
<td>nicole Rycroft, Canopy, Isabelle Montanus, Esprit, Gundolf Klaehn, GIZ Partnership for Sustainable Textiles, Patrik Lundström, re:newcell</td>
</tr>
<tr>
<td>18:15</td>
<td>Beer on Tap</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20:00</td>
<td>Dinner Buffet &amp; Jazz Music</td>
<td></td>
<td></td>
</tr>
<tr>
<td>22:30</td>
<td>Traditional German Bowling</td>
<td></td>
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</tr>
</tbody>
</table>
# PROGRAMME OF THE CONFERENCE

## 2nd DAY, 12 FEBRUARY 2020

### Alternative Feedstocks

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Affiliation</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00</td>
<td>Birgit Bonefeld</td>
<td>Aarhus University</td>
<td>Cellulose Sources from Cascading Processes – the Case of Green Protein Crop</td>
</tr>
<tr>
<td>09:20</td>
<td>Erik Pijlman</td>
<td>KNN Cellulose</td>
<td>Recell® Platform, Tertiary Cellulose for Circular Economy</td>
</tr>
<tr>
<td>09:40</td>
<td>Frank Meister</td>
<td>Thüringisches Institut für Textil- und Kunststoff-Forschung (TITK)</td>
<td>Lyohemp – The first Hemp-based Lyocell Fibre for Apparel Application</td>
</tr>
<tr>
<td>10:00</td>
<td>Petri Alava</td>
<td>Infinited Fiber</td>
<td>Turning Waste into New and Better Cotton</td>
</tr>
<tr>
<td>10:20</td>
<td>Christian Weilach</td>
<td>Lenzing</td>
<td>REFIBRA™ Technology – Lenzings Contribution towards Closing the Loops in the Textile Industry</td>
</tr>
<tr>
<td>10:40</td>
<td></td>
<td></td>
<td>Discussion with all Speakers of the Session</td>
</tr>
<tr>
<td>10:55</td>
<td></td>
<td></td>
<td>Coffee Break</td>
</tr>
</tbody>
</table>
New Technologies I

Chairperson
Michael Carus
nova-Institut

11:25 Sascha Schriever and Baldur Otto
ITA – RWTH Aachen
Cellulose in Textile Technology – An Opportunity for the Bioeconomy?

11:45 Anna Suurnäkki
Metsä Fibre
From Wood-based Cellulose to Textile Fibres with a Novel Approach

12:05 Esha Sharma
Aditya Birla Science & Technology
Understanding Interfacial Phenomena of Particle Interactions with Viscose Polymeric Media During Manufacturing of Functional Viscose Fibres

12:25 Ralf Nyhofen
LEVACO Chemicals
Whats New in Viscose Fibre Finish Technology?

12:45 Discussion with all Speakers of the Session

13:00 Lunch Break
# PROGRAMME OF THE CONFERENCE
## 2nd DAY, 12 FEBRUARY 2020

## New Technologies II

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker(s)</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:30</td>
<td>Jacky Sun Jian</td>
<td>Sustainable Viscose Value Chain – An EcoCosy Case Study</td>
</tr>
<tr>
<td>14:50</td>
<td>Anne Michud and Jussi Piira</td>
<td>Developing Sustainable Textile Fibres through Innovation</td>
</tr>
</tbody>
</table>

## Nanocellulose

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker(s)</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>15:10</td>
<td>Mary Ankeny</td>
<td>Processing and Property Evaluation of Nanocellulose</td>
</tr>
<tr>
<td></td>
<td>Cotton Incorporated</td>
<td>Extracted from Cotton Fabrics</td>
</tr>
<tr>
<td>15:30</td>
<td>Karl Håkansson</td>
<td>Spinning Fibres with Nanocellulose</td>
</tr>
<tr>
<td>15:50</td>
<td></td>
<td>Discussion with all Speakers of the Session</td>
</tr>
<tr>
<td>16:05</td>
<td></td>
<td>Coffee Break</td>
</tr>
</tbody>
</table>

Chairperson

Anna Suurnäkki
Metsä Fibre

Chairperson

Nina Graupner
HSB – City University of Applied Sciences Bremen

Chairperson

Håkan Östlund
Metsä Fibre

Chairperson

Nina Graupner
HSB – City University of Applied Sciences Bremen
## PROGRAMME OF THE CONFERENCE
### 2nd DAY, 12 FEBRUARY 2020

### Biocomposites and other New Applications

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Institution</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:35</td>
<td>Stefan Möckel</td>
<td>Papiertechnische Stiftung</td>
<td>Dialcohol Cellulose Fibres as Hydrophilic Cellulose Derivative for the Introduction of Thermoplastic Features to Paper</td>
</tr>
<tr>
<td>16:55</td>
<td>André Lehmann</td>
<td>Fraunhofer Institute for Applied Polymer Research IAP</td>
<td>Biogenic Fibre Reinforcement for Composites – Application and Potential of Cellulose Man-made Fibres</td>
</tr>
<tr>
<td>17:15</td>
<td>Nina Graupner</td>
<td>HSB – City University of Applied Sciences Bremen</td>
<td>Regenerated Cellulose Fibres: Properties, Pros and Cons for Composite Applications</td>
</tr>
<tr>
<td>17:35</td>
<td>Discussion with all Speakers of the Session</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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**Conference Highlights & Main Topics**

- Policy & Innovation
- Renewable Carbon & Renewable Energy
- Carbon Capture & Electrolysis
- Hydrogen Production & Mineralisation
- CO₂ for Chemicals & Materials
- CO₂ for Chemicals & Fuels
- **VOTE FOR the Innovation Award “Best CO₂ Utilisation 2020”!**

**Venue**
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Kardinal-Frings-Str. 1
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www.maternushaus.de

**Contact**
Dominik Vogt
Conference Manager
+49 (0)2233 4814-49
dominik.vogt@nova-institut.de

**Organiser**
nova-Institut GmbH
Chemiepark Knapsack
Industriestraße 300
50354 Hürth, Germany

Don’t miss this new expert highlight one day prior to the conference!

1st European Summit on CO₂-based Aviation Fuels
COLOGNE · GERMANY · 23 MARCH 2020

Newsticker on Carbon Capture and Utilisation!
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---

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**Chemicals**
**Materials**
**Construction**

---

**Stora Enso**
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14 Valuable Quotes: Conference on Cellulose Fibres

Aditya Birla Science & Technology
Esha Sharma
“Bridging the gap in understanding interfacial interactions of additives with viscose solution and opening doors to develop innovative functional viscose fibres.”

Cotton Incorporated
Mary Ankeny
“This study evaluates the feasibility of converting post-consumer cotton textile waste into a viable source of nano-cellulose.”

Fraunhofer-Institut für angewandte Polymerforschung IAP
André Lehmann
“Utilizing potential of man-made cellulosic fibers for technical applications.”

LEVACO Chemicals
Ralf Nyhofen
“Latest development in Levaco’s portfolio for Cellulosic fibres, particularly in new Nonowen Finishes, food contact approved Modifiers and micro-encapsulated substances to bring more value to cellulosic fibres.”

Papiertechnische Stiftung
Stefan Möckel
“We have to accept the chemical structure of natural feedstocks, which has developed over millions of years and not to hold on to fossil based products we know since one century.”

Kelheim Fibres
Roland Schulz
“Made from renewable cellulose, fully biodegradable and produced under strict German environmental standards, Kelheim’s Speciality Viscose Fibres Viloft® and Danufil® QR provide new opportunities in hygiene applications.”

KNN Cellulose
Erik Pijiman
“Recell®, a circular and sustainable solution based on cellulose: good economics, no carbon emissions.”

Lenzing
Christian Schuster
“Wood-based (regenerated) cellulose fibers can have a very favorable environmental footprint, provided that they are sourced from sustainable forestry, and state-of-the-art production processes are applied; moreover, they are biodegradable in all suitable environments and as such provide opportunities for applications in textiles and nonwovens, but also in packaging and other fields.”

Metsä Fibre
Anna Suurnäkki
“In the presentation “From wood-based cellulose to textile fibres with a novel approach” a short overview of the Metsä Group’s work for development of the novel manufacturing process for staple fibre production is given.”

RISE Research Institutes of Sweden
Kari Hakansson
“Spinning Nanocellulose Fibres – new starting material, new process and new properties.”

Sateri
Jacky Sun Jian
“There are opportunities at every segment of the value chain to materialize sustainable viscose production. Collaboration is required from upstream to downstream.”

Södra Skogsägarna Ekonomisk förening
Helena Claesson
“It’s time to wake up!”

Textile Exchange
Simone Seisi
“Textile Exchange is ascertaining a priority of the fashion and textile sector to ensure manmade cellulosic fibers are sourced sustainably and responsibly. But challenges are still to be overcome in the forests, the mills for pulp and fibers, in transparency and circularity.”

Thüringisches Institut für Textil- und Kunststoff-Forschung
Frank Meister
“Lyohemp®, what indicates apparel fabrics made of innovative hemp dissolving pulp offering ease of wear and superior moisture management.”
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Modifier:
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LUCRASPIN® VM 18
LUCRASPIN® VM 503

Spin bath:
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LUCRASPIN® VD 307

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LUCRASPIN® AFS 788
LUCRASPIN® IT 121

Finishes staple fibre:
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LUCRASPIN® ASA 65
LUCRASPIN® V 455

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Email: fibre@levaco.com

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