



2nd
International Conference on
CELLULOSE FIBRES
2–3 February 2021, Online Event

Second 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



Conference Journal

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

Sponsor Innovation Award



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Organiser



nova-institute.eu

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www.cellulose-fibres.eu

Table of Contents

Entrance Fee, Advisory Board.....	02
Introduction	03
Networking	04
Conference Background	06
Programme of the 1st Day, 2 February 2021	10
Programme of the 2nd Day, 3 February 2021	14
Nominees of the Innovation Award	18
Partners & Media Partners	23
nova-Institute Events in 2021	26
14 Valuable Quotes: Conference on Cellulose Fibres	27
nova-Institute	30

Ticket Fee

“Virtual” online Conference
(2-3 February 2021) 450 €



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#2021CCF

Your Conference Team



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Conference Advisory Board

We would like to thank the cellulose experts on the conference advisory board for their great help in selecting the best papers submitted and nominating the six best innovations for the award.



Marina Crnoja-Cosic
Kelheim Fibres



Ralf Nyhofen
Levaco Chemicals



Andreas Engelhardt
The Fiber Year



Antje Potthast
University of Natural
Resources and Life
Sciences



Michael Hummel
Aalto University



Sascha Schriever
RWTH Aachen



Josef Innerlohinger
Lenzing



Roland Seidl
Textilplus



Jukka Kantola
NC Partnering



Michael Trinkaus
Mondi Consumer
Packaging International



Dear Participants,

after the great success of the first conference a year ago, we would have been so happy to welcome you back to Cologne for the conference, exhibition and dinner buffet, bowling and local beer (“Kölsch”). Unfortunately, all this will have to wait for another year.

To offer you as much networking and exchange online in addition to the comprehensive programme, we use special conference software from Finland that makes 1:1 meetings with other participants as easy as possible. Before and after the programme, as well as during the lunch break, you can comfortably meet other experts face-to-face via video call. Discussion panels are planned after each lecture and session, and Asta Partanen and I will accompany you from our conference studio throughout the day.

Cellulose fibres are virtually miracle materials. They have a wide range of applications that are increasingly expanding. The markets are driven by technological developments and political framework conditions, especially bans and restrictions on plastics and increasing sustainability requirements. The presentations will provide you with the latest information on markets, technologies, applications and policy.

A special highlight – for the first time ever – is the innovation award “Cellulose Fibre Innovation of the Year”, which will be granted to the innovative cellulose fibre industry for the development of new technologies and applications.

From cellulose foam for packaging over plastic-free hygiene products to EMI shielding materials, the nominated six applications can help build a sustainable economy. The choice is yours: the participants will vote for the winners of the award.

We wish you a good time, many insights and new ideas through the exchange with other experts


Yours Michael Carus (CEO) and his team



Michael Carus
CEO



Online networking opportunities

Arrange video chats with promising conference participants – during the networking time (8:00 - 10:00, lunchtime and late afternoon) or parallel to the presentations. Every registered participant has access to the networking tool. After you have been logged in successfully you can adjust your profile and your personal time slots and you can directly arrange meetings with other participants of your choice.



The screenshot shows the conference's networking platform. On the left, a navigation menu includes 'Rooms', 'Schedule', 'Sponsors', and 'Networking'. The main area displays the conference logo and title. A 'Main Stream' section at the bottom shows the event schedule. On the right, a 'Chat' window is open, showing a 'MessageWall' with options for 'Messages' and 'Poll'. Callout boxes point to specific features: 'Programme of the conference' points to the navigation menu; 'Find networking opportunities' points to the 'Networking' menu item; 'Meet decision makers' points to a video chat window; 'Schedule time slots' points to the event schedule; and 'Chat' points to the chat window.

All advantages at a glance

- Video chat tool - meet decision makers of the industry – 1-on-1
- Find new networking and business opportunities via direct contact or topic search
- Arrange meeting time with ease based on available time slots
- Manage all your meetings in one simple user-friendly environment
- Get alerts for meeting requests

You are not yet registered or you have questions about the match making tool? Dominik Vogt will help you.



Dominik Vogt
dominik.vogt@nova-institut.de



nova-Institute for ecology and innovation

TECHNOLOGY & MARKETS

- Market Research
- Innovation & Technology Scouting
- Trend & Competitive Analysis
- Supply & Demand Analysis
- Feasibility & Potential Studies
- Customised Expert Workshops

COMMUNICATION

- Comprehensive Communication & Dissemination in Research Projects
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- Conferences, Workshops & nova Sessions
- In-depth B2C Research

SUSTAINABILITY

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- Customised Carbon Footprint Calculation Tools
- Social Impact Assessment & Social Acceptance
- Comprehensive Sustainability Assessments
- Sustainability Integrated Technology Development (SUITED)
- Critical Reviews

nova-Institute is a private and independent research institute, founded in 1994; nova offers research and consultancy with a focus on the transition of the chemical and material industry to renewable carbon.

What are future challenges, environmental benefits and successful strategies to substitute fossil carbon with biomass, direct CO₂ utilisation and recycling? What are the most promising concepts and applications? We offer our unique understanding to support the transition of your business into a climate neutral future.

Our subjects include feedstock, technologies and markets, economy and policy, sustainability, communication and strategy development. nova-Institute has 40 employees.



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- Strategic Consulting for Industry, Policy & NGO's
- Political Framework, Measures & Instruments
- Standards, Certification & Labelling

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Cellulose fibres are virtually miracle materials – Almost endless possibilities and high market growth due to great demand!

2nd International Conference on Cellulose Fibres, 2–3 February (online event) – Cellulose fibres have a wide range of applications that are increasingly expanding. The markets are driven by technological developments and political framework conditions, especially bans and restrictions on plastics and increasing sustainability requirements.

The environmental need for an industry based on renewable carbon puts natural materials in the spotlight. Cellulose fibres meet many demands: The demands of new policies, the demands of consumers with increasing awareness and a new sense of appreciation for natural materials, the market demands for diversely applicable strong and soft materials and the demands of our planet, which is already burdened far too heavily by microplastics and greenhouse gases.

“The first conference on cellulose fibres hit the mark. We have given the growing industry an ideal platform for exchange and networking. Due to the extremely positive feedback, we believe that we will be able to attract even more experts from the cellulose fibre sector for the second event.”, stated Michael Carus, CEO of nova-Institute and initiator of the conference.

In order to help innovations progress, to spread new ideas and to support the forming of a valuable and fruitful network, the 2nd International Conference on Cellulose Fibres will cover the entire value chain and a huge variety of applications. nova-Institute will offer extensive networking and participation opportunities at the online event using a special conference software from Finland. Participants will be able to take part in speaker discussions, face-to-face meetings with other experts and joint lunch breaks. Asta Partanen and Michael Carus from the nova-Institute will be guiding through the 2-day conference, for which already 110 participants from 18 different countries registered and 300 are expected. The focus will be on strategies, markets, technologies and sustainability – particularly on alternative cellulose feedstocks in order to reduce the demand for virgin cellulose. nova-Institute is happy to welcome 24 speakers from 10 different countries who are leading experts in many different fields and applications of cellulose fibres.

At the first day, four specialists will each give an outlook on the always changing markets and policies both of which increasingly focus on environmental product footprints. It is essential to always stay up-to-date in order to be successful. Cellulose fibres are a success story within the textiles market with a cumulated annual growth rate (CAGR) between 5 and 10 % over the last ten years – similar growth rates are expected in the next decade. This makes cellulose fibres the fastest growing fibre group in the textile industry and also the largest investment sector in the bio-based economy worldwide. These high growth rates are driven by the demand for natural fibres (and bottlenecks in cotton), the microplastic problem and looming bans for plastic fibres. Michael Carus, CEO of nova-Institute (DE): *“The challenge now is to achieve a balance between the ongoing capacity expansion and the growing demand – to avoid overcapacities, but also to cover the growing demand of the big brands.”* Alternative cellulose feedstocks, obtained from side-streams and recycling, will be the next valuable source of cellulose fibres. These can reduce the demand for virgin feedstocks, even though the overall demand for cellulose fibre will further increase. To say it with the words of one of our speakers, João Cordeiro from AFRY (FI): *“It is fascinating to observe the reshaping of the global cellulosic fibre industry, its structural transformation and even more so, the potential to improve the overall competitiveness of man-made sustainable textile fibres.”*

Katharina Gregorich from Lenzing (AT) states that *“unsolved waste problems call for innovative biodegradable solutions”*. She and two other pioneers are representing companies that have integrated the concept of **sustainability and circular economy** into their product solutions, one of which are 100 % biological and flushable hygiene products.

Visionaries like Dominik Mayer from Kelheim Fibres (DE), who promises *“a plastic-free future in absorbent hygiene products without compromising on performance [...]”*, will take the audience on a captivating journey to **new and exciting applications**. Paul O’Connor from CELLiCON (NL) will present a new way to fractionate valuable constituents of biomass,



polymeric cellulose and polyaromatic lignin, without destroying or damaging these components and without the use of enzymes or high-cost organic ionic liquids.

On 3 February, the second day of the conference, half a day on **new technologies** awaits the audience with technology development specialists like Heikki Hassi from SciTech-Service (FI), who will look deep “[...] into the key factors and phenomena, related to the highly organised structure of plant cellulose [...]” and Stina Grönqvist from VTT (FI), who will give an insight into the use of different types of hydrolytic and oxidative enzymes for the modification of dissolving and paper grade pulps.

Last, but absolutely not least, five experts will provide their knowledge and perspectives on **alternative feedstocks**. We are looking forward to the first hemp-based lyocell fibres, performance enhanced bast fibres and the use of bio-based ionic liquids for cellulose recovery from various alternative feedstocks including the recycling of textiles and biomass waste streams.

Another highlight at the conference will be the first **Innovation Award** “Cellulose Fibre Innovation of the Year”, sponsored by Levaco (DE)! The innovations submitted are a performance show of cellulose fibre: From cellulose foam for packaging over plastic-free menstrual products to EMI shielding materials, the nominated six applications can help build a sustainable economy. The six nominees will present their cellulose fibre technology or application on day one of the conference. Afterwards, the conference audience will elect the three winners of the title “Cellulose Fibre Innovation of the Year 2021”.

Ralf Nyhoven, Levaco (DE) about last year’s Cellulose Fibre Conference: *„We’ve seen a lot of interesting speeches with promising outlooks on these fibres of the future. [...] We believe in renewable, sustainable fibres [...] [and] we will for sure follow this unique event in Europe in the next years, where we get fresh ideas and meet a lot of interesting people.”*

The final conference programme and registration is available at: www.cellulose-fibres.eu/programme and www.cellulose-fibres.eu/registration.

Sponsoring

Levaco Chemicals (DE) is sponsoring the Innovation Award “Cellulose Fibre Innovation of the Year 2021”. Kelheim Fibres (DE) and Lenzing (AT) are supporting the conference as Gold Sponsors. Silver Sponsor is GIG Karasek (AT) and Bronze Sponsor is NC Partnering (FI). Further information on our attractive sponsoring packages can be found at www.cellulose-fibres.eu/sponsoring.

Get the latest news from nova-Institute, subscribe at www.bio-based.eu/email



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PROGRAMME OF THE CONFERENCE
1st DAY, 2 FEBRUARY 2021 (10-18H, CET)

Markets & Policy

08:00 - 10:00 Networking

Get in touch with speakers and participants easily with our special software, simply search for the desired participants and see when they are free.



Chairpersons
Michael Carus and Asta Partanen
nova-Institut (DE)



10:00 Michael Carus and Asta Partanen
nova-Institut (DE)
Conference Opening



10:10 Andreas Engelhardt
The Fiber Year (CH)
The New Normal after Covid and Outlook on Sustainable Fibres



10:40 Bernhard Riegler
Sappi Dissolving Pulp (AT)
Changing Landscapes – Emerging Trends in Cellulosic Consumer Markets



11:10 Michael Carus
nova-Institut (DE)
Impact of the Single-Use Plastic Directive and REACH Regulations on the Cellulose Fibre Markets



11:40 Michael Carus
nova-Institut (DE)
Renewable Carbon Concept and Initiative

12:10 Discussion with all Speakers of the Session

12:25 Networking

Get in touch with speakers and participants easily with our special software, simply search for the desired participants and see when they are free.



PROGRAMME OF THE CONFERENCE
1st DAY, 2 FEBRUARY 2021 (10-18H, CET)

Sustainability & Circular Economy



12:55 **Rahul Bansal**
Birla Cellulose (IN)
Improving the Sustainability of Non-woven Products in a Cost Effective Way



13:25 **Katharina Gregorich**
Lenzing (AT)
LENZING™ Web Technology – Non-woven Innovation Meets Sustainability



13:55 **Sharon Chong**
Sateri (CN)
Beyond Linear Economy: Accelerating Innovation to Scale Circularity

14:25 **Discussion with all Speakers of the Session**

New Applications



14:40 **Dominik Mayer**
Kelheim Fibres (DE)
Reinventing Femtech with Functionalized Plant-based Viscose Fibre Solutions



15:10 **Paul O'Connor**
CELLiCON (NL)
Fractionation of Lignocellulose and Application in Sustainable High-value Materials

15:40 **Discussion with all Speakers of the Session**

PROGRAMME OF THE CONFERENCE
1st DAY, 2 FEBRUARY 2021 (10-18H, CET)

Innovation Award “Cellulose Fibre Innovation of the Year 2021”



16:10 Michael Carus and Asta Partanen
nova-Institut (DE)

Introduction for the Cellulose Fibre Innovation of the Year 2021



Ralf Nyhofen
Levaco (DE)

Sponsor



16:15 Jason Finnis
Bast Fibre Tech (CA)

Compostable Fibre Products from Agricultural Hemp and Flax Waste



16:30 Gustav Nyström
Empa - Laboratories for Materials Science and Technology (CH)

Cellulose Nanofiber assisted Biomimetic Aerogels for EMI Shielding



16:45 Ilka Kaczmarek
Kelheim Fibres (DE)

Plastic-free Absorbent Hygiene Products



17:00 Niklas von Weymarn
Metsä Spring (FI)

New Textile Fibre based on Paper-grade Pulp



17:15 Tomasz Ciamulski
OrganicDisposables (PL)

FibriTech – a Porous and Light Material from Cellulose for Soilless Farming



17:30 Paula Martirez
Stora Enso (SE)

Cellulose Foam by Stora Enso - A Paper Recyclable Lightweight Foam for Packaging

17:45 Online Voting

18:00 Announcement of the Winner, presented by Ralf Nyhofen (LEVACO) (DE)

18:00 - 19:00 Networking

Get in touch with speakers and participants easily with our special software, simply search for the desired participants and see when they are free.

Recoveries for Pulp & Fibre Industry

Solvent Recoveries Distillations Concentration of Liquids

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- NMP
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Tube Fallingfilm Evaporator
- Multistage Evaporation Plants
- MVR - Mechanical Vapor Recompression
- TVR - Thermal Vapor Recompression

Rectification / Distillation

Thinfilm-/Shortpath Technology

- Evaporator Types:
Thin Film Evaporator
Short Path Evaporator
- Thin Film Dryer:
horizontal
vertical
- Miniplant

PROGRAMME OF THE CONFERENCE
2nd DAY, 3 FEBRUARY 2021 (10-16H, CET)

New Technologies

08:00 - 10:00 Networking

Get in touch with speakers and participants easily with our special software, simply search for the desired participants and see when they are free.



Chairpersons

Michael Carus and Asta Partanen
nova-Institut (DE)



10:00 Michael Carus and Asta Partanen
nova-Institut (DE)
Conference Opening



10:10 Antje Ota
Deutsche Institute für Textil- und Faserforschung (DE)
Biopolymer Fibres Derived by HighPerCell® Process



10:40 Heikki Hassi
SciTech-Service (FI)
The Challenging Conversion of Natural Elementary Fibrils into Man-Made Cellulosic Fibres



11:10 João Cordeiro, Łucja Wanicka and Idil Aktüre
AFRY Management Consulting (FI)
Foresight: Improving Competitiveness of MMCF Production



11:40 Stina Grönqvist
VTT Technical Research Centre of Finland (FI)
High Consistency Enzymatic Fibre Modification for Textile Processes



12:10 Niklas von Weymarn
Metsä Spring (FI)
From Lab to Demo Phase and Onwards

12:40 Discussion with all Speakers of the Session

12:55 Networking

Get in touch with speakers and participants easily with our special software, simply search for the desired participants and see when they are free.



PROGRAMME OF THE CONFERENCE
2nd DAY, 3 FEBRUARY 2021 (10-16H, CET)

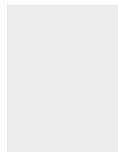
Alternative Feedstocks



13:25 Sascha Schriever
ITA – RWTH Aachen (DE)
Overview on Alternative Cellulose-Feedstocks and Introduction of an Innovative Process for the Cellulose Supply



13:55 Jason Finnis
Bast Fibre Technologies (CA)
Replacing Plastics in the Global Non-Woven Industry with Sustainable, Performance Enhanced Bast Fibres



14:25 Ina Sigmund
Sächsisches Textilforschungsinstitut (DE)
Yarn Development with Lyohemp™ – First Hemp Based Lyocell Fibres



14:55 Markus Damm
proionic (AT)
Cellulose Recovery from Various Feedstocks Utilising Bionic Liquids



15:25 Nicole Rycroft
Canopy (CA)
Solutions Are Sexy – The Pulp Sector Transforming

15:55 Discussion with all Speakers of the Session

16:15 - 17:15 Networking
Get in touch with speakers and participants easily with our special software, simply search for the desired participants and see when they are free.

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VEOCEL™ fibers – the sustainable solution

VEOCEL™ branded cellulosic fibers transform nonwovens to accommodate a sustainable lifestyle. The outstanding absorption and liquid management properties of VEOCEL™ fibers make them an ideal ingredient for hygiene and care products, from baby diapers to facial sheet masks. Made from the renewable material wood, all fibers will biodegrade after disposal and thus fully revert back to nature. VEOCEL™ fibers are gentle to both: your skin and the environment.

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Ralf Nyhofen – Manager Fibre Solutions



Nominees of the Innovation Award

Cellulose Fibre Innovation of the Year 2021



1 Bast Fibre Tech (CA):

Compostable fibre products from agricultural hemp and flax waste

2 Empa – Laboratories for Materials Science and Technology (CH):

Cellulose nanofiber assisted biomimetic aerogels for EMI shielding

3 Kelheim Fibres (DE):

Plastic-free absorbent hygiene products

4 Metsä Spring (FI):

Textile fibre based on paper-grade pulp

5 OrganicDisposables (PL):

FibriTech – a porous and light material from cellulose for soilless farming

6 Stora Enso (SE):

Cellulose Foam by Stora Enso – a lightweight cellulose foam for packaging

Innovation Award



Sponsor Innovation Award



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What you can expect – the “Top 6” candidates in detail

Bast Fibre Tech (CA):

Compostable fibre products from agricultural hemp and flax waste



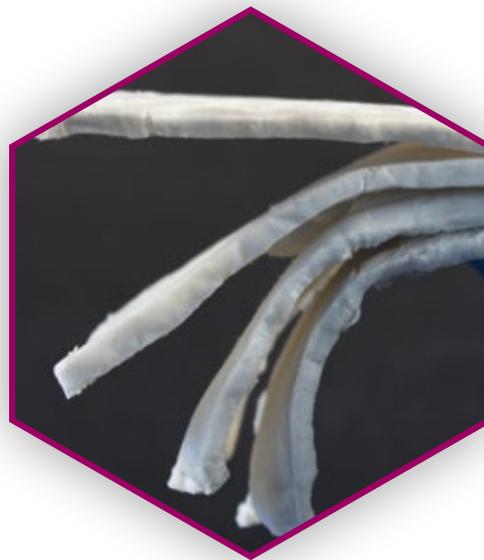
BFTi produces compostable fibre products out of agricultural waste from hemp and flax processing. Using biogenic waste from the production of fast-growing crops instead of using wood or fossil resources is environmentally and economically more sustainable.

Applications for the obtained fibre with moisture absorbing properties are for example toilet paper and recyclable, thus flushable cleaning wipes.

More information: <http://www.bastfibretch.com>

Empa – Laboratories for Materials Science and Technology (CH):

Cellulose nanofiber assisted biomimetic aerogels for EMI shielding



Empa researchers combined cellulose-based aerogels with silver nanowires. The flexible composite blocks high-frequency electromagnetic radiation, which is traditionally achieved by using inflexible metal sheets or metallized foils.

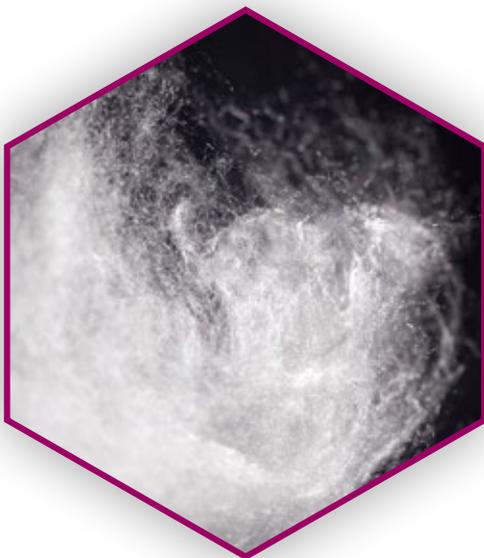
This ultra-light electromagnetic shielding material can be used to protect electronic components or the transmission of signals from electromagnetic fields caused by neighbouring electronic devices or motors.

More information: <https://www.empa.ch>

What you can expect – the “Top 6” candidates in detail

Kelheim Fibres (DE):

Plastic-free absorbent hygiene products



Kelheim Fibres developed plant-based fibre solutions for absorbent hygiene products. These comprise speciality fibres for the single layers of AHP with different functionalities: a hydrophobized fibre for the topsheet, a trilobal fibre for the acquisition/distribution layer and a hollow fibre for the absorbent core. These biodegradable and sustainably manufactured fibres enable the replacement of plastic fibres without a loss of performance.

The material has the potential to be used also for the production of textiles, such as reusable menstrual underwear. First commercial end-products using Kelheim’s fibre solutions are developed and intended to be launched in 2021.

More information: <http://www.kelheim-fibres.com>

Metsä Spring (FI):

Textile fibre based on paper-grade pulp



The Metsä Group is developing a more energy-efficient process based on a new solvent family to produce Man-Made Cellulosic Fibre (MMCF). Using ionic liquids, the MMCF can be produced from paper-grade pulp, avoiding the use of energy-intensive dissolving pulp. MMCF, such as viscose, lyocell or Modal®, are important fibres for the textile industry.

More information: <http://www.metsaspring.com/project/textile-fibre-from-paper-grade-pulp>



What you can expect – the “Top 6” candidates in detail

OrganicDisposables (PL):

FibriTech – a porous and light material from cellulose for soilless farming



FibriTech is a new process for the production of porous and light material from cellulose and lignocellulose. A mixture of fibres can be used, including waste and recycled fibres. This extends the possible feedstock for usable materials and reduces waste. Desired properties are derived by the application of bio-additives. The resulting material can be used as a natural soilless substrate with favourable properties for both plants and soilless farming systems. Other possible applications are thermal and sound insulators and air filters.

More information: <http://www.fibri.tech>

Stora Enso (SE):

Cellulose Foam by Stora Enso – a lightweight cellulose ‘foam’ for packaging



“Cellulose Foam by Stora Enso” is a lightweight foam material made from cellulose. It is designed as an eco-friendly alternative for fossil-based packaging and cushioning materials such as expanded polystyrene or polyethylene. The foam has comparable shock-absorbing and insulating properties whilst being bio-based, biodegradable, compostable and recyclable in ordinary paper recycling.

More information: <http://www.cellutech.se/cellulose-foam.html>

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LUCRASPIN® IT 121

Finishes staple fibre:

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2-3 February 2021, Online Event

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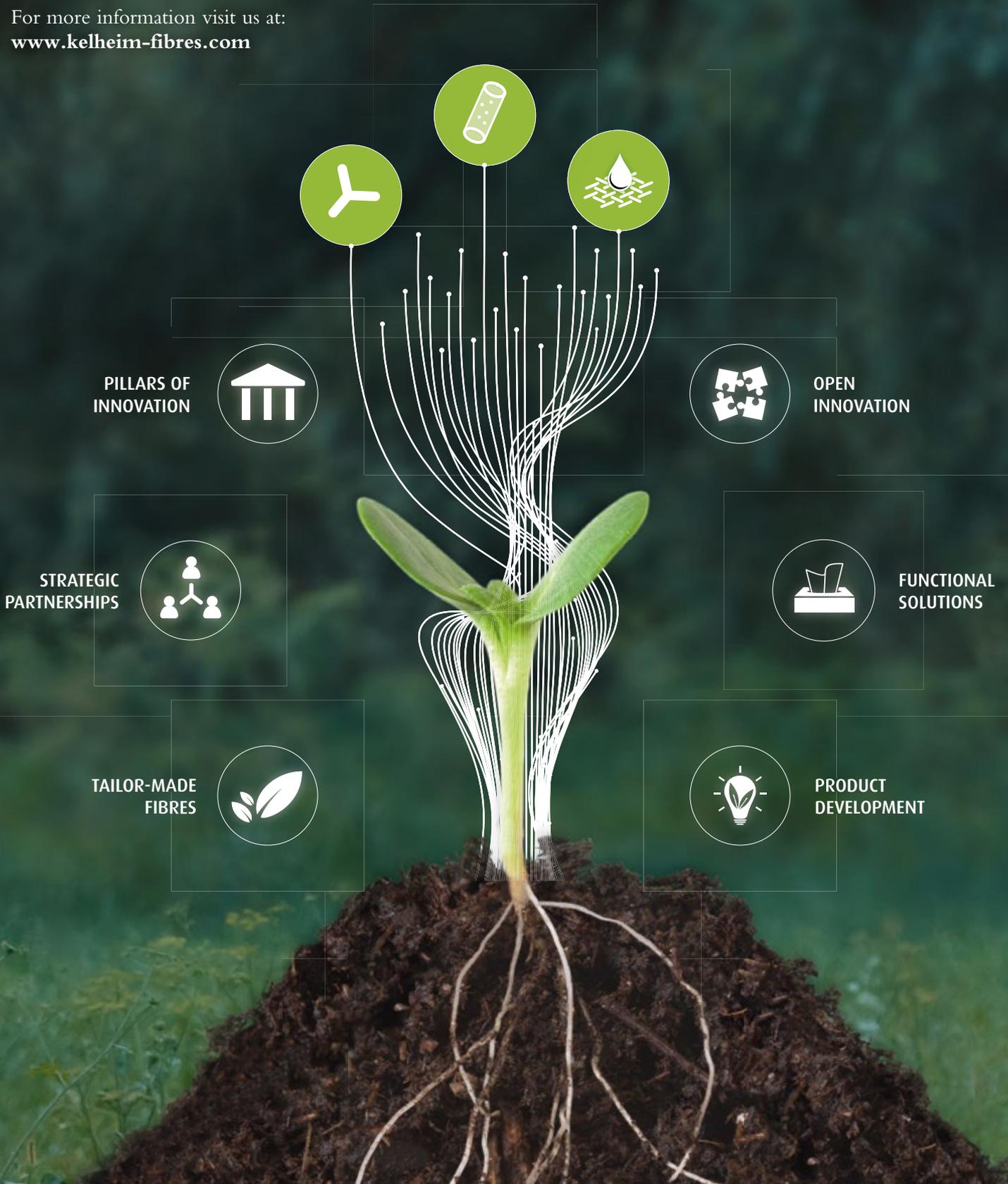
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RENEWABLE MATERIALS CONFERENCE 2021

18-20 May - Hybrid Event

New Market Solutions – Cross-sectoral Networking Opportunities – Sustainable Future of Chemicals and Materials

A unique concept to present all sustainable and renewable material solutions at one event: bio-based, CO₂-based and recycled

- Renewable Chemicals and Building-Blocks
- Fine Chemicals
- Biorefineries
- Chemical Recycling
- Renewable Polymers and Plastics
- Renewable Plastics and Composites
- Biodegradation



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Chemicals



Materials



Construction

NC Partnering Ltd is a bioeconomy advisory company set up to utilize the collective skills and insights of a diverse team.



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SAVE THE DATE!

3rd Cellulose Fibres Conference, 2 - 3 February 2022



International Conference on **CELLULOSE FIBRES**
2-3 February 2022
Cologne (Germany)

Third 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.

www.cellulose-fibres.eu

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- Recycled plastics
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- Case studies
- New EU & international regulations
- Market data & trends



Valuable Quotes: Conference on Cellulose Fibres

Aditya Birla Science & Technology

Rahul Birla (IN)

„The presentation talks about some promising and ready implementable material developments to make plastic free single use nonwoven products, which fulfils the performance expectations of the consumers as well as commitment of the nonwoven industry towards the environment.“

AFRY Management Consulting

João Cordeiro (FI)

“It is fascinating to observe the reshaping of the global cellulosic fibre industry, its structural transformation and even more so, the potential to improve the overall competitiveness of man-made sustainable textile fibres.”

CELLiCON

Paul O’Connor (NL)

“This exciting innovative technology cost-effectively unlocks nature’s ‘LEGO’ Nano Crystalline Cellulose and opens the road to assembling several renewable high value materials!”

Deutsche Institute für Textil- und Faserforschung

Antje Ota (DE)

„HighPerCell® technology - Spinning for the future.“

Kelheim Fibres

Dominik Mayer (DE)

“A plastic-free future in absorbent hygiene products without compromising on performance - tailor- made plant-based fibres from Kelheim Fibres make it possible.”

Lenzing

Katharina Gregorich (AT)

“Unsolved waste problems call for innovative biodegradable solutions.”

LEVACO Chemicals

Ralf Nyhofen (DE)

„The first event of the international conference on cellulose fibres in Cologne exceeded by far our expectations. We’ve seen a lot of interesting speeches with promising outlooks on these fibres of the future. In our company, we believe in renewable, sustainable fibres, as petro-based cannot be the answer to tomorrow’s or even today’s questions. For this reason, we will for sure follow this unique event in Europe in the next years, where we get fresh ideas and meet a lot of interesting people.“

Metsä Spring

Niklas von Weymarn (FI)

“Metsä Group’s demo plant in Finland is now operational.”

proionic

Markus Damm (AT) (SE)

“The use of ionic liquids as solvents for various Biomass feedstocks will be discussed including the recycling of the ionic liquid solvent system.“

Sächsisches Textilforschungsinstitut

Ina Sigmund (DE)

“The lecture will present research and pre industrial results in yarn development with Lyohemp® - first hemp based Lyocell fibre from organically grown hemp.“

Sappi Dissolving Pulp

Bernhard Riegler (AT)

“A brief look at the current post 2019 cellulosic fibres market and emerging trends that will shape our industry to 2030.“

SciTech-Service

Heikki Hassi (FI)

“The presentation looks into the key factors and phenomena, related to the highly organized structure of plant cellulose, which determine the behavior of this material when it’s converted into well-structured textile fibres – whether it’s done using the prevailing manufacturing technologies or those now under development.“

VTT

Stina Grönqvist (FI)

“Enzymes are effective tools for tailoring fibre properties.“

VTT

Pirita Huotari (FI)

“Presentation looks into the environmental footprint and attractiveness of current and emerging wood-based textile fibers in comparison to other textile fibers, as well as the availability of wood and market pulp as raw materials.“

THE RENEWABLE CARBON INITIATIVE

Shape the future of the chemical and material industry



Renewable Carbon Initiative (RCI) was founded in September 2020. RCI members are committed to create a sustainable, fossil-free future for the chemical and material industry.

WHY JOIN RCI?

RCI is an organization for all companies working in and on sustainable chemicals and materials – renewable chemicals, plastics, composites, fibres and other products can be produced either from biomass, directly via CO₂ utilisation, or recycling.

RCI members profit from a unique network of pioneers in the sustainable chemical industry.

RCI OFFERS ITS MEMBERS

- A common voice for the renewable carbon economy.
- Increased visibility of their individual renewable carbon solutions.
- Collective advocacy work to create a supportive regulatory and economic framework.
- Support in finding solutions for your specific problems on the way to your renewable carbon goals.

MEMBERS



PARTNERS



JOIN NOW

Become a part of the Renewable Carbon Community (RCC) and shape the future of the chemical and material industry
www.renewable-carbon-initiative.com/membership/application

More members, partners and information
www.renewable-carbon-initiative.com
Contact: dominik.vogt@nova-institut.de
[#renewablecarbon](https://twitter.com/renewablecarbon)



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**RENEWABLE
MATERIALS
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Cologne (Germany)
18–20 May 2021
renewable-materials.eu



International Conference on
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Cologne (Germany)
2–3 February 2022
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NEW

Chemical recycling – Status, Trends and Challenges
Technologies, Sustainability, Policy and Key Players

Plastic recycling and recovery routes

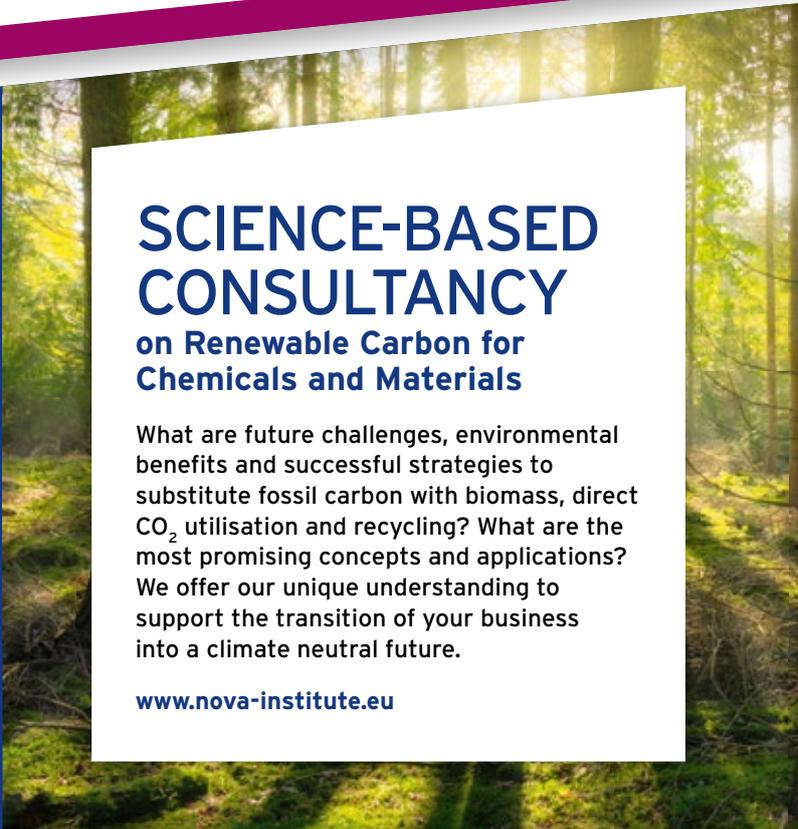
Author: Lars Rosen, Florian Ditsch, Pia Blomberg, Michael Ciesek, Florian Hart, Lara Dierkes, Anja Paschke, Anja Institut GmbH, Germany
November 2020
This and other reports on the bio- and CO₂-based economy are available at www.bio-based.eu/reports

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